**Functional Compliance Matrix**

**Instructions**

Each worksheet contains a response column named "Bidder Response" in which the bidder would have to select one of the options from the drop down menu (on the right):
If the response is "SD", the bidder must specify the Product Module which supports the requirement

** The ERP product OEM shall certify the entire 'ONE-BHEL' solution BOM with explicit confirmation regarding non-availability of standard ERP functionalities wherever 3rd Party software is included in the solution (as also captured in FRS responses).

| Response | Explanation |
|---|---|
| SD | Supported as delivered out of the box - Standard Product Feature |
| SC | Supported by Customization / Custom objects - Change in source code |
| ST | Supported by a 3rd party solution |
| NA | Not Available |

**Note**

i     For easy reference, under each function, the requirements are grouped / sub-grouped logically.

ii    Each statement is in form of ability of the solution to handle a specific functional requirement. This will enable bidders appreciate the key functional expectations of BHEL from the solution.

iii   Each statement has been categorised as defined below to denote relative significance of the functionalities of the proposed solution for conducting business of BHEL:
**E – Essential**
**D – Desirable**

| S.No. | Particulars | Essential / Desirable | Vendor Response | |
|---|---|---|---|---|
| | | | Offered ERP Product | If the response is SD, mention the Module Name which supports the requirement |
| **Vendor** | | | | |
| MM/001 | Ability to perform an online paperless supplier registration procedure along with online query/ communication with the supplier. Ability to generate automated mail for any event such as acknowledging receipt of vendor application, any update in vendor details, etc. Ability to allow registration of vendors only in the category for which vendor is required. | E | | |
| MM/002 | Ability to generate a unique vendor registration number which should be visible to all stakeholders in BHEL. | E | | |
| MM/003 | Workflow for Supplier Registration Application for approval/recommendation/rejection. | E | | |
| MM/004 | Ability to provide access to the supplier/ vendor to check the status of registration, performance rating, delisting/banning, etc | E | | |
| MM/005 | Vendor registration form and details of vendors (like validity of registration, owners, type of firm, contact details, registration category etc.) should be available on website. | E | | |
| MM/006 | Ability to carry out delisting/banning (and lifting of ban) of vendors online as per the BHEL Guidelines for Suspension of Business Dealings with suppliers/contractors and publish online for vendor information | E | | |
| MM/007 | Ability to reject the online vendor application form during initial scrutiny. | E | | |
| MM/008 | Ability to tracking the movement of files. | E | | |
| MM/009 | Ability to generate reports such as Micro, small and medium enterprise(MSME) vendors, Schedule cast/schedule tribe(SC/ST) category, volume of business given etc. | E | | |
| MM/010 | Ability to generate customized reports/ graphs relating to the supplier performance ratings. | E | | |
| MM/011 | Ability to conduct supplier performance evaluation and provide a view/access to the vendor to see the rating. | E | | |
| MM/012 | Any change in the status of the Vendor should reflect in the Product Material Directory. | E | | |
| MM/013 | Ability to Vendor to Check the purchase order(PO) Status , Billing Status , Vendor Performance Rating , Upload Test Certificates , Booking Inspection Call / Transporter etc should be available online | E | | |
| MM/014 | Ability for auto reminder to vendor at agreed milestone (e.g. due dates can also be taken) | E | | |
| MM/015 | Evaluation of vendor at project site level. (To check with the Supplier Application details,like, physical existence, facilities .) Evaluation of a Vendor based on out corporate Vendor Registration policy (verification of the Vendor application details and his physical existance). As per time to time guidelines by central authority. | E | | |
| **Indenting** | | | | |
| MM/016 | Ability in the system for auto indenting by linking with respective Bill of Materials(BOM) and delivery schedule. System should be able to pick up norms hours from Technology against Sub-contract items | E | | |
| MM/017 | The system should have the ability to do Material requirement Planning (MRP) for all items – countable as well as non-countable items (such as tubes/pipes) | E | | |
| MM/018 | The Indents should be available on internal website with detailed scope of work. | E | | |
| MM/019 | Ability to upload the approved vendor list for view by users of BHEL | D | | |
| MM/020 | Ability in the system for Auto indent for consumables, tools, & spares ( Auto indent on re-ordering point) | E | | |
| MM/021 | The system should have the ability to do stock verification for all items – countable as well as non-countable items | E | | |
| MM/022 | Ability in the System to prevent Indent modification after Tender / request for quotation(RFQ)/ PO placement | E | | |
| MM/023 | Multi level Release Strategies should be available. Multi level PR Release strategies implemented. PO approval mechanism implemented | E | | |

| S.No. | Particulars | Essential / Desirable | Vendor Response | |
|---|---|---|---|---|
| | | | Offered ERP Product | If the response is SD, mention the Module Name which supports the requirement |
| MM/024 | Ability in the system to allow the stock of one project to be used in another project (Diversion) | E | | |
| MM/025 | Ability in the system to allow the semi-finished stock (cancelled by commercial) of one project to be used in another | E | | |
| MM/026 | At any stage, the work in progress(WIP) (hold/cancelled) project should be considered before indenting/ ordering/ material receipt/ material clearance. The system should allow the stakeholders to view this WIP. | E | | |
| **Material Code** | | | | |
| MM/027 | The system should not allow creation of duplicate code if the same specification material code already exists. | E | | |
| MM/028 | The system should allow the use of Same Material Code (eg. Drawing No) for inhouse production or external procurement(sub-contract). The system should be able to decide how the material should be accounted based whether this material is used in in-house production or external procurement. | E | | |
| **PMD** | | | | |
| MM/029 | System for Maintaining Product Material Directory - grouping of Vendors as per Specifications | E | | |
| MM/030 | Provision for entering Techno Commercial(Memorandum of Understanding for a Product material category( PMD ). Memorandum of Understanding(MoU) document to be generated with validity, item wise or vendor wise in the system | E | | |
| MM/031 | Ability to view Product Materials Directory(PMD), product Division wise must be developed. | E | | |
| **Tenders** | | | | |
| MM/032 | When tenders need to be published, the data for the same should be taken from the system. | D | | |
| MM/033 | System to Float Request for Quotations for all types of Tenders | E | | |
| MM/034 | System to Upload Documents for Request for Quotations | E | | |
| MM/035 | Work Flow for Approval of Request for Quotations | E | | |
| MM/036 | Tracking of All the events from Request for Quotation till Order finalisation (Tender Open Date , Bid Open Date , Tech Bid Clear Dt , Price Bid Open Date , comparative statement(CST) Date etc and Vendor Responses) | E | | |
| MM/037 | A workflow with different stages between vendors/ customers/ BHEL for clarifications/ customer approvals/ inspection should be there in the system. An alert to the concerned stakeholder should be sent in case a status change or delay. | E | | |
| MM/038 | CST should be system generated. Facility to view Last Purchase Price should be available in the CST. | E | | |
| MM/039 | Loading factors (advance payment/ payment after material acceptance) should be addressed in the system. | E | | |
| MM/040 | The terms and conditions from CST should flow directly to the Purchase Order | E | | |
| MM/041 | Ability to send an alert to any stakeholder in case of delay/change | E | | |
| MM/042 | Workflow based System required through e-Procurement | E | | |
| **Rate Contracts** | | | | |
| MM/043 | Ability to create the purchase approval note /Rate Contract Approval Note through the system | E | | |
| MM/044 | Ability to generate the Rate Contract document through the system (for rate contracts) | E | | |
| MM/045 | Appropriate work flow for Preparation of Purchase Approval Note/Rate Contract Approval Note | E | | |
| **Reverse Auction(RA)** | | | | |
| MM/046 | Ability in the system for integration of Reverse Auction Service Provider system with BHEL system | E | | |
| MM/047 | Web based portal for reverse auction and obtaining the acceptance from technical qualified bidders. For hand-shake server now assisting E-Procurement route | E | | |

| S.No. | Particulars | Essential / Desirable | Vendor Response | |
|---|---|---|---|---|
| | | | Offered ERP Product | If the response is SD, mention the Module Name which supports the requirement |
| MM/048 | Ability in the system for the vendor to fill the Process Compliance Form online during Reverse Auction (During Auction process) | E | | |
| MM/049 | Ability in the system to receive of final calculation from vendor after RA along with a digital signature | E | | |
| MM/050 | Final auction report and price break up of L1 bidder / Final CS should be available online | E | | |
| **Purchase Order** | | | | |
| MM/051 | Checks for PO generation only with Purchase Requisition(PR) availability, Funds mgmt., Bank Guarantee checks, PO numbering to be alpha numeric ( existing nomenclature is decided based on PO Series Type ) BG details maintained in system to be verified during PO creation and BG Management like receipt or release of BGs. | E | | |
| MM/052 | Should Allow PO item with more than Rs. 100 Crores value | E | | |
| MM/053 | System should have the ability to generate Service PO/ Indent for  Services Procurement and acceptance of Services (like Goods receipt in case of materials) | E | | |
| MM/054 | Ability to proper conversion mechanism between Ordering Unit of Measurement (UOM) and Delivery UOM is required , as during GR(Goods Receipt) it leads to either small quantities being left out as open or results in under payment to vendor due to conversion issues in unit of measure. | E | | |
| MM/055 | System should monitor the bank guarantee for suppliers and sub-contractors. | E | | |
| MM/056 | The system should have the ability to have Many to Many relationships (PO item versus PR item link). PR Item should be partially procureable in multiple PO Items | E | | |
| MM/057 | Exchange Rate for Foreign Currencies to be available as a repository in the System on a daily basis from where PO and relevant modules will pick it up. | E | | |
| MM/058 | Ability to amend PO ( including Text Fields ) and details of  all amendments ( including Text Fields ) made should be available online and should be printable. | E | | |
| MM/059 | Multi level Release Strategies should be available | E | | |
| MM/060 | changes in tax rates as per government policy should be integrated in the System(same tax code to be used with validity time period . Ex : GR done before budget and after budget should pick up appropriate tax values pre and post budget for same tax rate selected during PO generation.) | E | | |
| MM/061 | The ERP package should take care of  all material  purchase related terms and conditions  including  taxation issues  in indian context (like excise duty,  vat. Cst, import duty  etc)  their  capturing  in purchase  order and subsequent accounting  entry at  material accounting | E | | |
| MM/062 | End-to-End report of Indent to Supplier Payment i.e. Indent, RFQ, PO, Matl Issue Status to Supplier, Goods Receipt, QC clearance status, Supplier Invoice, Voucher creation, Supplier Payment. | E | | |
| MM/063 | Ability in the system to track Value & Validity of the Rate Contract | E | | |
| MM/064 | Ability for loading on commercial deviation such as Late delivery, Delivery,payment terms | E | | |
| MM/065 | Ability in the system to track Quantity distribution & allocation between vendors | E | | |
| MM/066 | Ability in the system to check Maximum quantity (with tolerance) for a vendor | E | | |
| **Import PO** | | | | |
| MM/067 | In case of receipt of order from commercial, Nature of Purchase e.g. DEEC, PI, merit duty, etc. should be derived from Work Order system. It is about the duty concession scheme under which a project/order is covered, the same is to flow from Marketing agency to Unit work order and further assessment by Custpoms authorities at port. MERIT means no duty exemptions are to be applied. | E | | |
| MM/068 | Ability in the system to allow indent only with issue of advance license/duty concession registration except for purchase under merit duty(same tax code to be used with validity time period . Ex : GR done before budget and after budget should pick up appropriate tax values pre and post budget for same tax rate selected during PO generation.) | D | | |

| S.No. | Particulars | Essential / Desirable | Vendor Response | |
|---|---|---|---|---|
| | | | Offered ERP Product | If the response is SD, mention the Module Name which supports the requirement |
| MM/069 | Ability in the system to prepare a list of import items | E | | |
| MM/070 | System for Work flow of Generation and finalisation of Import items. The requirements are compiled by Engineering as far as the generation of imported items are concerned. The import activity starts with information from mktg regarding duty category in wich the project falls, identification of Imported items, licence/certificate management, PO release, clearance at ports and pricing. | E | | |
| MM/071 | System for License Application and linkage with the Import items. Debit entrywill be available by the Purchase officer in consultation with the Import Group. It is about blocking the qty in planning stage, however the actual debit takes place at the time of Bill of Entry. | E | | |
| MM/072 | During the preparation of list of imported items, the debit of license (item & value) should be available in the system | E | | |
| MM/073 | The system should have the ability to select advance license number to be printed on PO in line with Foreign Exchange allocation | E | | |
| MM/074 | Ability in the system to get the online data of DGFT to be transferred in the system | D | | |
| MM/075 | Ability to capture the material readiness or inspection clearance and that should be visible to BHEL (Import Group). Non-negotiable documents should be uploaded on the system. | E | | |
| MM/076 | System for Bill of Entry | E | | |
| MM/077 | Detention and demurrage charges to calculated for the material lying at harbour,airport | E | | |
| MM/078 | Invalidation of Advance License for Purchase from Indigenous Supplier | E | | |
| MM/079 | Revalidation of Advance License | E | | |
| MM/080 | System for Bonds | E | | |
| MM/081 | The system should be linked with import clearance advice (docket generation in Unit) | E | | |
| MM/082 | The system should have the capability to track utilization of Licenses while raising purchase order and also while arranging actual customs clearance. | E | | |
| MM/083 | The system should compare the PO delivery date with the License Validity date and if PO delivery date is after the License Validity date, it should raise an alert | E | | |
| MM/084 | System to provide EPCG license no to be printed on physical and deemed export invoices of Units. | E | | |
| MM/085 | Ability in the system to Capture of EPCG data and debit of value/quantity with each import | E | | |
| MM/086 | System for LC (Letter of Credit) - including online workflow based LC opening process | E | | |
| MM/087 | Requisition & Amendment of Foreign LC should be through the system | E | | |
| MM/088 | LC: Ability to capture data from the PO module for item description, quantity, value, name of the supplier, and negotiating bank. | E | | |
| MM/089 | Approval from Corporate office for inland LC to be done through the system | E | | |
| MM/090 | The system should have the ability to select gateway airport/ seaport in foreign Country from the Rate Contracts for ocean & air freight | E | | |
| MM/091 | Order acknowledgement & LC monitoring should be done through the system | E | | |
| MM/092 | In case of revalidation of advance License, the system should provide quantity and value balance from the license 60 days prior to the date of expiry. | E | | |
| **Goods Receipt** | | | | |
| MM/093 | Ability to have interface with the supplier so that the supplier can enter the delivery details directly in the system | D | | |
| MM/094 | Ability to link the data entered during the weighment of truck during the preparation of Clearance note. Ability to record the difference between theoretical and physical weight during material receipt and clearance. | E | | |
| MM/095 | Ability to generate Goods Receipt online, | E | | |
| MM/096 | Ability to generate **Goods Receipt (with consumption of input components for Sub-Contract POs)** | E | | |

| S.No. | Particulars | Essential / Desirable | Vendor Response | |
|---|---|---|---|---|
| | | | Offered ERP Product | If the response is SD, mention the Module Name which supports the requirement |
| MM/097 | System should allow Digital signature for internal users on the SRV (instead of a hand written signature on a hardcopy SRV) | D | | |
| MM/098 | Provision for amendment of Store Receipt Voucher (SRV) and workflow based SRV movement | E | | |
| MM/099 | Ability to have excess services acceptance (more than 100%) than specified services in Measurement Book without change in existing PO/Contract value | E | | |
| MM/100 | The information from a Department (ROD), such as dates, documents, status of payments, licenses, etc should be available to the units. | E | | |
| MM/101 | System to indicate real time balance quantity & value. | E | | |
| MM/102 | Ability to generate an automated email to be sent to the vendor/finance/purchase/indenter/rejection cell when the rejection memo is prepared. | E | | |
| MM/103 | Ability to track material/material movement in the system | E | | |
| MM/104 | The system should have the ability to take input of size dimension & calculate the weight/ quantity in bin unit. | E | | |
| MM/105 | Ability to have Master Shipping List/Packing List online. Milestone linkage to be done by PS regions which will be fed to the system. | D | | |
| MM/106 | Ability to generate ISTV (Inter site transfer voucher)/ Inter Unit transfers Voucher (IUTV) through system. Interface with finance required through system | E | | |
| MM/107 | Ability in the system to establish the linkage between receipt(SRV) of the material and subsequent issue (SIV) of the material | E | | |
| MM/108 | In case of Insurance, Ability to generate SRV /GR only if declaration has been made. | D | | |
| MM/109 | Ability to upload insurance declarations to corporate site unit system. | E | | |
| MM/110 | Ability to intimate request to manufacturing units/other suppliers through system for supply of missing / damaged item at site – Simplified process to lodge an Open Order and Online facility for Follow up of Material. Sites should be able to do Goods receipt of the Material Dispatches from Units in the system. | E | | |
| MM/111 | Facility for entering Material to site (MTS) and tracking. Receipt of matl at site and ack.date required for furthere processing. Tracking also means the storage location in the yard or stores as per plan. | E | | |
| MM/112 | Online System for Material Discrepancy Report (MDR) Raising, which will be centralized for all sites and will be coordinated with every Manufacturing unit. | E | | |
| MM/113 | Disposition of MDR should be online. | E | | |
| MM/114 | Regarding the transport bill, Ability to track the Non-Confirmatory report (NCR) in the system. | E | | |
| MM/115 | Transporter billing process to be automed & workflow based approval process | E | | |
| MM/116 | Scrap dosposal process should be online & Workflow based. | E | | |
| MM/117 | Scrap Disposal: There should be integration between all concerned departments and documents should be signed digitally | D | | |
| MM/118 | Scrap Disposal: E-Auction should be integrated in the system. | E | | |
| MM/119 | Scrap Disposal: The system should have the ability such that the rate at which scrap is sold by other units should be visible to all stakeholders (other scrap sales executives in other locations) | E | | |
| MM/120 | Ability to update vendor rating based on the rejection of material. | E | | |
| MM/121 | Ability to generate indent for sub contracting/Services | E | | |
| MM/122 | Cancellation of all subsequent activities like GR/payment to vendors should allow full editing of respective PO items | E | | |
| MM/123 | Ability to send automatic reminder to vendors before due date of tendering. | E | | |
| MM/124 | Ability to pick data for tenders need to be published | E | | |
| MM/125 | Requisition & Amendment of Foreign LC should be done through system | E | | |
| MM/126 | List of documents to be supplied by the vendor to be part of the purchase order. Monitoring the receipt of these documents to be done through the system | E | | |

| S.No. | Particulars | Essential / Desirable | Vendor Response | |
|---|---|---|---|---|
| | | | Offered ERP Product | If the response is SD, mention the Module Name which supports the requirement |
| MM/127 | Ability to generate online reminder to the vendor for delivery. | E | | |
| MM/128 | Integration & Work flow based implementation including material issue, reconciliation, excise challan monitoring, scrap & usable material accounting. | E | | |
| MM/129 | Ability to identify CENVAT component on incoming raw materials for taking CENVAT credit | E | | |
| MM/130 | Ability to reverse the CENVAT credit if the raw materials supplied to sub-contract vendors exceeds more than 180 days at vendors premises and take back that credit again on supply of finished/semi-finished components to BHEL. | E | | |
| MM/131 | Provision for accepting Material returned from shop and sub contractors | E | | |
| MM/132 | Facility for Returning Material to Vendor (In process Rejections) | E | | |
| MM/133 | Ability to generate Material issue/ requisition voucher/slip for raw materials through system based on plan by planner | E | | |
| MM/134 | Ability to generate SIV(Store Issue Voucher)- Material Issue Online, System should check the  released quantity should not exceed the quantity as per design(against the project), while being released, subsequently system should allow store to control the SIV and update the inventory and interface the system with Fianance , whenever required. | D | | |
| MM/135 | Issue of Material. (Clubbing of same raw material required for PO items of single PO) to sub-Contractor. | E | | |
| MM/136 | Issue of Tools, Gauges etc. to sub-Contractor. | E | | |
| MM/137 | Ability in the system to issue/receive the tools from the tool crib(Sub-store) and ability to generate the Cost Card of tools in case of damage,worn-out or loss. | E | | |
| MM/138 | Ability in the system to deviate the Work Order(WO) in material issue document(SIV) if the material is used in other project. Diversion of materials from one order to another order | E | | |
| MM/139 | Provision for identifying Material Lying with Vendor and subsequent material accountal before payment. | E | | |
| MM/140 | Ability to do Material accounting by sub-contract Vendor (for input materials) | E | | |
| MM/141 | Raw Material transfer from one vendor to another. IAMTV process addressed - Transfer of stocks from first vendor to BHEL-Logical location and then Transfer to second vendor. | E | | |
| MM/142 | Semi finished material transfer from one Vendor-PO to another Vendor-PO. IAMTV process addressed - Transfer of stocks from first vendor to BHEL-Logical location and then Transfer to second vendor. | E | | |
| MM/143 | Direct Dispatch of Material from Sub-contract works to the customer site | E | | |
| MM/144 | Direct Dispatch of Material from Purchase Vendor to the customer site | E | | |
| MM/145 | Issue of Material from BHEL stores to Central Dispatch Cell | E | | |
| MM/146 | Should be able to cater to Semi-Finished materials coming inside for intermediate operations (like Stress Relieving) for materials sent to vendors for sub-contracting | E | | |
| MM/147 | Ability to estimate Sub-Contract Order Price item-wise taking into account the cost of vendor scope raw materials, cost of sub-contracted operations (operations taken from routing and cost of each workplace operation taken from workplace rate repository), deducting value of scrap generated from BHEL materials. | E | | |
| MM/148 | Sub-Contracting from Shop (offloading of some operations after/before shop operations):Ability in the system to use material issued for shop sub-contracting to  store sub-contracting order for further operations . | E | | |
| MM/149 | Sub-Contracting from Shop (offloading of some operations after/before shop operations): Ability in the system to divert material issued for shop sub-contracting to store sub-contracting order. | E | | |
| MM/150 | Insurance Declaration for In-coming and Out going Materials and Insurance claims registration . Ability to provide linkage between the insurance details in units with the details in Corporate Finance. | E | | |
| MM/151 | Subcontract:  Enquiry on vendors based on balance  load capacity available with the vendor | E | | |

| S.No. | Particulars | Essential / Desirable | Vendor Response | |
|---|---|---|---|---|
| | | | Offered ERP Product | If the response is SD, mention the Module Name which supports the requirement |
| MM/152 | Subcontract:  Generation of counter-offer/ maximum discount/ quantity discount in Enquiry | E | | |
| MM/153 | Subcontract:  Generation of PO proposal and generation of PO on locking. PO amendment system reqd | E | | |
| MM/154 | Subcontract:   Request for material despatch to sub-contractor | E | | |
| MM/155 | Subcontract:  Despatch of part process material by shop/ raw material by store | E | | |
| MM/156 | Subcontract:  Challan and gatepass for material despatch to sub-contractor | E | | |
| MM/157 | Subcontract:  Challan and gatepass for finished material / original / scrap from sub-contractor | E | | |
| MM/158 | End-to-End report of Indent to Vendor Payment i.e. Indent, RFQ, PO, Matl Issue Status to Vendor, Goods Receipt, QC clearance status, Vendor Invoice, Voucher creation, Vendor Payment. | E | | |
| MM/159 | Ability to generate formats required by Corporate office | E | | |
| **Corporate MM** | | | | |
| MM/160 | Ability to generate Online status of untagged adavance manufacturing action(AMAs) along with details of AMAs tagged to customer orders.<br>AMA is taking advance action within the company for taking proactive actions. Approval is taken from corporate office in this regard.<br>AMA projects are the projects where special approval is taken from management for going ahead with some of the designed and procurement activities as part of proactive action when anticipated orders are converted into a firm order it is taken as tagged AMA | E | | |
| MM/161 | Ability to display Status of PO & inventory for untagged AMAs. | E | | |
| MM/162 | Delay analysis w.r.t. placement of PO and receipt of customer order. | E | | |
| MM/163 | Management Information Reports(MIRs) Online & data to be culled out from the DB of units | E | | |
| MM/164 | Ability to pick the names of the IEM in a round robin fashion. Govt approved Independent External Monitors to be assigned in Tender Process as per Integrity Pact.<br>As per Integrity pact with Transparency International - the IEM is to be centrally maintained and allocated cyclically. | E | | |
| MM/165 | Ability to monitor the status of these high value tenders. | E | | |
| MM/166 | The units should keep the Supply status & vendor performance rating data online which should be visible at overseas locations | E | | |
| MM/167 | PO status should be taken directly from the Unit Database | E | | |

| S.No. | Particulars | Essential / Desirable | Vendor Response | |
|---|---|---|---|---|
| | | | Offered ERP Product | If the response is SD, mention the Module Name which supports the requirement |
| **General** | | | | |
| PMG/001 | Any change in scope at any stage of the project should be visible in the system to all stakeholders | E | | |
| PMG/002 | System/ equipment other than main package ordered on any business sector involved in the same project should be visible in the system to all stakeholders.<br>Order of main package is placed on BHEL through PSMktg. But at times order of small systems are direcly placed through ROD, TBG, etc. Also order for spares are placed at later stage. All these should be visible cosolidated to all stakeholders. | E | | |
| PMG/003 | Ability to define Projects, Activities, and Milestones, Macro Plans Details at the start of the project and modify at a later stage. | E | | |
| PMG/004 | New project creation with pre-defined templates or past projects. | E | | |
| PMG/005 | Project creation from Sales Quotation, Sales Order | E | | |
| PMG/006 | Provision to create project on receipt of an Inquiry from customer | E | | |
| PMG/007 | Define Work Break Down Strucutures For a project ( WBS) | E | | |
| PMG/008 | Define work packages in accordance to the WBS | E | | |
| PMG/009 | Ability to reserve materials for a project | E | | |
| PMG/010 | Ability to transfer materials between projects | E | | |
| PMG/011 | Archiving of Projects | E | | |
| PMG/012 | Capability to reschedule projects at activity level | E | | |
| PMG/013 | Ability to Vendor to Check the purchase order(PO) Status , Billing Status , Vendor Performance Rating , Upload Test Certificates , Booking Inspection Call / Transporter etc should be available online | E | | |
| PMG/014 | Associate deliverable and checklists to signoff on tasks and milestones relating to the contract documents. | E | | |
| PMG/015 | Ability to present different variant views for the project based on variant parameters.<br>BHEL should be able to assess the impact of addition/deletion of resources; managing through contingency arrangement to achieve intermediate milestone; on the overall project. This will enable project manager to plan mid-way course correction. | E | | |
| PMG/016 | Monitor Critical Path of Project / Sub projects | E | | |
| PMG/017 | Ability to log time for each project on Daily/Weekly time entry online | E | | |
| PMG/018 | Ability to log hours for multiple Projects which can be roll up to arrive at total number of hours | E | | |
| PMG/019 | Ability to manage Projects considering Holiday/ Meetings / Overtime / Allocated Hours / Cumulative Work | E | | |
| PMG/020 | Ability to identify resources based on skills, roles (Reqd and available), associate resources to activities using Skill Competance Matrix. | D | | |
| PMG/021 | Assign responsibilities to roles in the project | E | | |
| PMG/022 | Ability to plan and capture costs incurred at source: integrated with Cost Centre, Project Phase, Resource and Budgets | E | | |
| PMG/023 | Simulate Project Cost based on perceived Project Plan, Resource Plan | E | | |
| PMG/024 | Ability to track actual costs (Material and Labour) at various time intervals and generate reports for the same | E | | |
| PMG/025 | Ability to track and associate variances at Component, Module and Equipment level or at defined stages in a project | E | | |
| PMG/026 | User Interface should be easy to work on. Drag and Drop while creating/ modifying the project/ milestone/ activities should be available. | E | | |

| S.No. | Particulars | Essential / Desirable | Vendor Response | |
|---|---|---|---|---|
| | | | Offered ERP Product | If the response is SD, mention the Module Name which supports the requirement |
| PMG/027 | Project Structure should be available in Gantt Chart / facility to integrate with MS Project & Primavera.<br>Average number of activities in the master project structure: Approx 15000 activities<br>Project Structure of offered module should have capability to either import data fro existing project networks in MS Project/Primavera or have interface with them. Only then the progress of projects can be monitored. | E | | |
| PMG/028 | In many complex schedules, there will be a critical path, or series of events that depend on each other, and whose durations directly determine the length of the whole project. Software need to highlight these tasks, which are often a good candidate for any optimization effort.<br><br>critical path need to be determined across these different schedules by means of establishing cross project relationships. | E | | |
| PMG/029 | Project Structure should be available in PERT Chart | E | | |
| PMG/030 | Activity Schedule in network (graphical) view | E | | |
| PMG/031 | Ability to track the value of the Bank Guarantee(BG) for each project. It should show the BG details (at different stage) right from the start to current date. | E | | |
| PMG/032 | Ability to capture the schedule of reduction of BG and track its reduction along with the progress of the project. | E | | |
| PMG/033 | Ability to generate an alert in case of deviation from the planned value ( BG ).<br>Exception report should be generated in case of any change from planned expenditure, planned deployment of resources, slippages in achieving target. | E | | |
| PMG/034 | The system should have a project management module which has the ability to capture the original baseline, and multiple updated baselines vs. actual. | D | | |
| PMG/035 | Ability to provide linkage of Information updation from sites, units and suppliers. The required information in the system should be updated from remote locations both within and outside BHEL. | E | | |
| PMG/036 | Issue of material to be linked with Site Activity and Subcontractor Invoice. | E | | |
| PMG/037 | Ability to link to L-2/L-3 schedules with time float indications.<br>Different levels of project schedules should be integrated so that any change in the lowest level is visible in higher levels.<br>Required to calculate multiple critical float paths that may exist and affect the overall project schedule. | E | | |
| PMG/038 | Ability of tracking of customer inputs.<br>In most of the projects, BHEL depends on customer inputs like civil foundations, availability of DM water, Coal & Ash Handling Plant, Chimney etc for completion of projects. | E | | |
| PMG/039 | Engineering: Tracking/ submission & approval status of the following should be available in the system:<br>Inter-unit/ Customer Information flow,<br>Master List of drawing,<br>Vendor drawing/ documents (Bought out items, Balance of Plants) | E | | |
| PMG/040 | Procurement: Status of work order, indenting, ordering, receipts of the following should be visible to all concerned stakeholders:<br>Raw materials,<br>Bought Out Items,<br>Balance of Plants (BOPs) | E | | |
| PMG/041 | Manufacturing Status & PDC (Probable date of completion) of equipments should be visible to all stakeholders | E | | |

| S.No. | Particulars | Essential / Desirable | Vendor Response | |
|---|---|---|---|---|
| | | | Offered ERP Product | If the response is SD, mention the Module Name which supports the requirement |
| PMG/042 | Ability to track the material from manufacturing completion/ receipt of material at works to dispatch to site. | E | | |
| PMG/043 | Ability to track dispatch status of the equipment and receipt at site should be available | E | | |
| PMG/044 | Integration with Quality Management to facilitate inbound, outbound and in project inspection of project materials and services ( Site action request, Material Descrepancy report). Quality Assurance Plan (QAP) for BHEL Manufactured items needs to be covered. | E | | |
| PMG/045 | Erection & Commissioning(E&C): Status of: Award of E&C contracts Mobilization of contractors at site Deployment of Tools & Plants (T&P) Erection & Commissioning activities Customer Input<br><br>E&C is typical project structure where time, resource & cost planning and their status updates reqd for progress monitoring. | E | | |
| PMG/046 | Ability to show approval status of Billing Break up units (BBUs) should be visible to all stakeholders | E | | |
| PMG/047 | Ability to generate Standard network (Master Project Network for any particular project which may be used for similar other projects) the system for different project ratings with a provision to update manually | E | | |
| PMG/048 | The system should integrate L1 & L2 network. Different levels of project schedules should be integrated so that any change in the lowest level is visible in higher levels. L2 is detail of L1 schedule but kept separately. These are to be integrated by cross project relationship. | E | | |
| PMG/049 | EIFS (Engineering Information Flow Schedule) of all Units should be available in the System and should be integrated with the project schedule. Completion of Engineering activities depend on the information flow from various BHEL units. Tracking of this information is essential. | E | | |
| PMG/050 | Ability to show status of insurance procurement should be available in the system. Status of insurance taken by project sites and their duration, details of cover etc which shall vary with progress of project. | E | | |
| PMG/051 | Ability to show status of insurance claims should be available in the system.<br><br>Status of insurance claimed by project sites and their settlement, comparison of cost incurred and claims recd for incidents and their consolidation. | E | | |
| PMG/052 | Project Summary status to be available through the system | E | | |
| PMG/053 | Ability to show Project wise unit wise status of pending issues & mandatory spares | E | | |
| PMG/054 | Ability to do Project wise status of billing, cash collection & outstanding | E | | |
| PMG/055 | Ability to capture Minutes of Meetings | E | | |
| PMG/056 | Ability to show Financial reconciliation statements by units shall be visible to stakeholders | E | | |
| PMG/057 | Ability to track BG 's details from the date of issue till date value, extensions done shall be available to stakeholders. | E | | |
| PMG/058 | Ability to track status of write off cases from submission to approval. | E | | |
| PMG/059 | Ability to capture Copies of Trial operation protocol, test protocols, summary/ history  of the project, customer & BHEL contacts List and list of pending points jointly signed with customer and list of pending spares and Unit assemblies with responsibility matrix to be handed over by Project Management Group | E | | |
| PMG/060 | Ability to maintain the present status/ action plan and keep track of the liquidation/ completion of pending points/ spares/ Unit assemblies. | E | | |
| PMG/061 | Ability to track status of submission of Final Time extension cases by PMG to customer. | E | | |

| S.No. | Particulars | Essential / Desirable | Vendor Response | |
|---|---|---|---|---|
| | | | Offered ERP Product | If the response is SD, mention the Module Name which supports the requirement |
| PMG/062 | The system should integrate the site with unit. Receipt of material (LR acknowledgement) should be entered by the site in the system. | E | | |
| PMG/063 | The reporting should be user friendly. Customized reports required by Corporate should be easily generated. | E | | |
| PMG/064 | Ability to generate an alert before the due date of a milestone in the project plan should be generated to the stakeholder. An escalation mechanism should be in place in case the deadline is breached. | E | | |
| PMG/065 | Abiility to provide dashboard at different levels to track the project.<br>Dashboards should be available at top management, project manager, Unit/Region Head levels for effective tracking of projects | E | | |
| PMG/066 | The system should show the erectibility index. The system should be able to provide the Erectibility Analysis (specific sequence of supplying WBS and the percentage usable WBS of the total supplied WBS).<br><br>At times despatches from Manufacturing Units are nonsequential in nature and they are non-erectable at project site. Erectibilty is decided on the basis of supply as per specific sequence out of total supply. | E | | |
| PMG/067 | The contract information (with terms & conditions) should be in the system which should be accessible to all stakeholders. | E | | |
| PMG/068 | The system should maintain a common customer number throughout BHEL. There should be a standard way to generate Customer Number. | E | | |
| PMG/069 | The status of the project should be updated by the end user which should be visible to all stakeholders. The eraction status/progress at sites to be made available to all stakeholders. | E | | |
| PMG/070 | The next 3 month requirement should be updated by site. | E | | |
| PMG/071 | Ability to update the project plan with the change in any milestone/ deadline. | E | | |
| PMG/072 | Ability so that all stakeholders involved in a project can update the status relevant to them. | E | | |
| PMG/073 | Contract closing system should be mapped with the new system.<br>Contract is closed by different group and not by the Project executing agency. The contract closing should be completed through the Project Management module so that all the relevant information is available to them. | E | | |
| PMG/074 | Management Information Reports(MIR) should be generated through the system. | E | | |
| PMG/075 | Supporting documents (Site Protocols, Correspondence, Minutes of meetings, etc.) to be uploaded. | E | | |
| PMG/076 | The history of the entire project should be captured in the system. | E | | |
| PMG/077 | Budget details & Balance Score Card of Units/ regions should be derived from the system.<br>BSC of Units /Regions comprises of their targets in a Financial Year. The BSC and the yearly budget should be derived from the Project Management module. | E | | |

| S.No. | Particulars | Essential / Desirable | Vendor Response | |
|---|---|---|---|---|
| | | | Offered ERP Product | If the response is SD, mention the Module Name which supports the requirement |
| **General** | | | | |
| Manf/001 | Ability to generate budget template (preparation of draft budget) based on work orders zero date and delivery date, work order priority considering optimum shop load vis-a-vis time cycle of production of major components. | D | | |
| Manf/002 | Ability to share Shop hold ups of raw/ input materials from feeding agencies (Engineering and other feeding agencies) may be available from system along with their current supply/ procurement status and latest commitments of providers. History of commitments may be maintained in the system.<br>The components/ items are either manufactured in house or procured from outside against Purchase Order (POs). Shop mfd components are processed processed as per its prescribed route. Route is sequence of processing sections/ blocks. Each section/ block therefore is feeder to the next section/ block of the route. In order to monitor, progress, feeder section/ block has to pass on their commitments to the next section/ block. Thier commitments (commitment#1, commitment#2, commitment#3 ---) are proposed to be recorded online so that frequent habitual defaulter could be identified 9this will eventually help in honest commitments). Similarly, for purchased items, Purchase department is supposed to record suppliers commitments. | E | | |
| Manf/003 | Ability to submit online proposals and intimation of issue of codes where manufactured item is to be procured through purchase route. List of pending requests may also be available online. Such material codes will not be required to be issued. All the drawing numbers are also given material codes (only technical delivery conditions (TDC)/ technical requirements will have to issued) | E | | |
| Manf/004 | Ability to forward indenting requirements to relevant groups online Upon issue of fresh codes (in place of manufacturing in shop). Necessary administrative approval for such parallel procurement may possible to be forwarded online as attachment | E | | |
| Manf/005 | Ability to aggregate the supply status – Finished stock across all possible / defined locations, In transit, Raw material stock in hand, Raw material stock in transit, Manufacturing work in progress(WIP) and Supplier commits of Raw Materials, Inter-company / Inter-Unit / Inter-Division Material status; | E | | |
| Manf/006 | Ability to provide online(addendum plans, rejections, diversions, engineering/manufacturing inputs for deviated components, concessions etc) | E | | |
| Manf/007 | Ability to make production plans by simulating available capacities of the plants | E | | |
| Manf/008 | Ability to provide Production stage(operation completion status) confirmation through mobile devices to be captured by system. It means hand held deivces for data online data entry in shop. For example, feeding of completion status of operations for components under manufacture in shop. | E | | |
| Manf/009 | Ability to calculate Manufacturing Cost Estimation/ calculation for any component/ assembly. Also, planning section may be able to work out estimation of all the items (components/ assemblies) covered in an indent online and forward it online/e mail to subcontracting group with remarks, if any. | E | | |
| Manf/010 | Ability to generate exception report Component-wise for each work order at given time will be evaluated and alerts generated for identified individuals. | E | | |
| Manf/011 | Ability to maintain history of commitments | E | | |
| Manf/012 | Hard copy of Production Orders/route sheets/process sheets/dockets may carry Bar codes so that they can be read by bar code readers/mobile devices | E | | |
| Manf/013 | Ability to Vendor to Check the purchase order(PO) Status , Billing Status , Vendor Performance Rating , Upload Test Certificates , Booking Inspection Call / Transporter etc  should be available online | E | | |
| Manf/014 | Ability to generate Monthly WIP statements | E | | |

| S.No. | Particulars | Essential / Desirable | Vendor Response | |
|---|---|---|---|---|
| Module | | | Offered ERP Product | If the response is SD, mention the Module Name which supports the requirement |
| Manf/015 | Manufacturing Information document (MID)/Bill of Material (BOM)/Combined BOM (CBOM)/drawings/ Quality plan etc. to be available to the users at the same time. | E | | |
| Manf/016 | Ability to store and display details of Anticipated order considered for budget proposal | E | | |
| Manf/017 | Ability to manage manufacturing scheduling online, project dates (start and end dates) to be uploaded/updated by concerned department/agency. | E | | |
| Manf/018 | Ability to update Project Diversion online and to be updated by the appropriate authority | E | | |
| Manf/019 | Ability to Monitor with L3 network  to shift to production. L3 Network Concept: Component wise plan / schedule ariived from project completion date (backward scheduling) | E | | |
| Manf/020 | Ability to prepare of assembly-wise/ module-wise/ Despatch able Unit (DU)-wise/component wise plans with respect to L2/L3 dates. BHEL's projects are planned at five different levels. Level-1- the highest planning level; with start and end dates for major project activities. Level-2- where start and end date of each product are given (from design to despatches). Level-3- where start and end date despatches of each work order are indicated. Level-4- where start and end (finish) date each item of each owrk order is indicated. Level-5- where start and end of each operation of each components of each work order is indicated. | E | | |
| Manf/021 | Dispatchabe Unit (DU) diversion from one customer to other customer to be addressed | E | | |
| Manf/022 | Finished goods of one customer is modified to the requirement of other customer to addressed along with the proper link with Drawings and other documents | E | | |
| Manf/023 | Ability to record Staff no/ name of person, who collects the material | E | | |
| Manf/024 | Ability to receive online Inter Block Transfer Memo(IBTM) items proposed | E | | |
| Manf/025 | Ability to pick inputs from engineering/ technology / work order masters. | E | | |
| Manf/026 | Ability to Plan production in defined time buckets (Month/Week/Day) | E | | |
| Manf/027 | Ability to plan / schedule production within a day / Shift | E | | |
| Manf/028 | Ability to sequence production / Shop Orders in a defined time bucket. Why the orders to be sequenced within time buckets and what is the duration of time bucket: Based on priority of customers and erection status at sites. Duration depends on a case-to case basis depending on material | E | | |
| Manf/029 | Ability to support planning cycle with an operational plan generated in a defined time bucket (Day / Week / Month / Quarter) that serve as the basis for: (1) the requirements to be send to suppliers; (2) Production calculations; (3) finished goods inventory ownership and (4) comprehend supply dependency at multiple manufacturing sites – Inter company (IUST))  . Alternate part maintenance from production point of view. Provision for storing alternate / superceded parts for a product / sub module / assembly and their participation in MRP. | D | | |
| Manf/030 | Ability to integrate production execution with project systems. Ability to have process sheets for defined parts. Ability to have alternate processes for parts. Ability to prepare and print process sheets. Ability to include multiplication factors in process sheets. Ability to link changes in process sheets with part issue levels. Ability to track requirements / completion status of opeartions required for parts. Ability to off load certain operations to subcontract depending on inhouse capacity available. Ability to support decision making in this regard. | E | | |
| Manf/031 | Ability to create auto indents for items, identified in Master Data Base under subcontracting category, may be generated for various Work Orders (WO)/ group of work orders. However, such indents could be edited by planner drawing number out sourcing-wise/ code nos-wise/ WO-wise, PMD-wise and generate clubbed indents. Quantities and lot dates may be editable. | E | | |
| Manf/032 | Ability to have provision for diversion of items at work order level/pgma level/sub assembly level must be available while issuing components from shop sub stores. | E | | |
| Manf/033 | Indent should not be editable.(editing should be access control) | E | | |

| S.No. | Particulars | Essential / Desirable | Vendor Response | |
|---|---|---|---|---|
| Module | | | Offered ERP Product | If the response is SD, mention the Module Name which supports the requirement |
| Manf/034 | Ability to manage material on Production Floor - track inventory raw material / WIP. Ability to generate shotages for an assy / sub assy and enquie the pipeline status of the shortages. | E | | |
| Manf/035 | Ability to put hold in the procurement cycle if any change in the work orders | E | | |
| Manf/036 | Ability to capture transactions date | E | | |
| Manf/037 | Ability to generate Gate pass for materials to be supplied to vendors online | E | | |
| Manf/038 | Ability to initiate procurement for the original work order, if received sub contracted component is diverted to another work order. At the same time all material bookings of such transfer against a old WO to be transferred to the new WO | E | | |
| Manf/039 | Ability to support sub-contracted manufacturing & relate them with internal project/production plan. | E | | |
| Manf/040 | Ability for Online request with proposed Material identification number / Inter Block Transfer Memo (dockets expected to be available online). All the relevant data to be available in corresponding master viz Qnos master etc. Ability for online requests for inter shop activity against proposed material | E | | |
| Manf/041 | Ability to have quality plans online | E | | |
| Manf/042 | Ability to Online hand over to Shop sub stores/shipping stores/Assembly stores | E | | |
| Manf/043 | Ability to capture the sequence in which a job is processed | E | | |
| Manf/044 | Ability to capture Manufacturing status | E | | |
| Manf/045 | Shop sub store inventory to be available online | E | | |
| Manf/046 | Ability to capture Status of major components in (% of completion) and projected date of completion | E | | |
| Manf/047 | Ability to capture and monitor Accountal of scrap generated at shop | E | | |
| Manf/048 | Machine loading to be available online | E | | |
| Manf/049 | Ability to make a comparison between the inhouse production and Subcontract costs for a purticular job / batch of production. | E | | |
| Manf/050 | Ability to measure & track production performance in terms of 'Utilization', 'Efficiency' & 'Productivity'. | E | | |
| Manf/051 | Ability to receive online Inter Block Transfer Memo/ dockets. | E | | |
| Manf/052 | Ability to allocate/block as soon as requisitions are made, the items get for a particular assembly/ WO automatically. | E | | |
| Manf/053 | Ability to issue and updation of electronic ledger | E | | |
| Manf/054 | Ability to generate alert for items not available in shop sub-store. | E | | |
| Manf/055 | Ability to issue with softcopy ledger data, diversion records may be captured by diverson master. The stock details of semi finished and raw materials at shop shall be maintained in the system. And the diversions between projects shall be captured | E | | |
| Manf/056 | Ability to display all transactions for a particular drawing number whenever requested. Display may include drawing number, description, store location and component drawing. | E | | |
| Manf/057 | Ability to generate shop floor papers - Production Orders / Product - Quantity - Delivery dates - Resource Requirements. Ability to generate alert reports for ready to launch assemblies (with or without shortages) based on shop load position. Ability to enquire requirement and pipeline status of part (esp shortages) | E | | |
| Manf/058 | Ability to provide visibility to sites the production status at project and Product Group Main Assembly (PGMA) and Despatch Unit (DU) level | E | | |
| Manf/059 | Ability to Automatically post finished material to stock with confirmations. Creation of Planning Stores in Fabrication, Assembly, Testing areas with a view to keep account of work in progress. All features of normal stores such as receipt issue, adjustments, pricing etc. to be available for planning stores. | E | | |
| Manf/060 | Ability generate reports daily as well as between two dates for receipts/ issues, total diversions for particular component/ all the components | E | | |

| S.No. | Particulars | Essential / Desirable | Vendor Response | |
|---|---|---|---|---|
| **Module** | | | **Offered ERP Product** | **If the response is SD, mention the Module Name which supports the requirement** |
| Manf/061 | Based on consumption pattern, minimum stock levels to be decided. System may indicate lot-wise expiry dates, prompting requirement of re-validation at any moment. | E | | |
| Manf/062 | Ability to generate Material receipt acknowledgement at every stage | E | | |
| Manf/063 | Ability to generate alerts for stock level going below minimum stock level | E | | |
| Manf/064 | Ability to give online approval and rejection | E | | |
| Manf/065 | Rejected items data must get logged in rejection master and completion of rejection process must vacate the actions/ status recorded for a rejected drawing/ WO so that fresh action could be initiated. | E | | |
| Manf/066 | In case the vendor is not able to replace/ rectify, the rejection would be processed in the same manner as proposed for the shop manufactured items. | E | | |
| Manf/067 | Shop quality control (QC) will give feedback to Incoming Material QC, which will forward the same to Subcontracting purchase cell. Subcontracting purchase cell will then advise shop to return material back to central stores. All this is should be done through the system. | E | | |
| Manf/068 | Ability for Online diversion proposal concurrence by section head/shop QC/ Commercial/ Engineering. Option to print approved diversions. | E | | |
| Manf/069 | Engineering to record online, the recommended actions/ deviated dimensions against the in-process particular drawing/WO no. These are proposed to be recorded in the remark area before 1st operation in docket/process sheet/route sheet. Also, able to trace mating/interchangeable components in future work orders for subsequent manufacturing | E | | |
| Manf/070 | Ability to track WIP based on Material on shop floor. Ability to launch with shortages to both shop as well as subcontractors and manage the issues of shortages at a later date. Ability to issue material against in process rejection, maintain records and facilitate analysis part number wise, failure code wise, vendor wise, batch wise etc. | E | | |
| Manf/071 | Remark before first operation needs to be introduced which may carry-- qualit plan requirements, deviated dimensions, in case it is manufactured as deviated , details of repair work, component/ assembly, regarding applicable revision of drawing and flashing of revision number in case the drawing is revised after launch of docket/ component, new remark clearly indicating that if component is diverted from one WO to other WO and its new quality plan requirements | E | | |
| Manf/072 | Ability to provide alert to engineering department for making any changes in the drawings of current manufacturing actions | E | | |
| Manf/073 | Ability to provide availability of machine plan number (work centre-wise) is must. System may be configured to indicate current availability of machines. | E | | |
| Manf/074 | Facility to change sequence in route card by competent (authorised) shop personnel. | E | | |
| Manf/075 | Ability to capture the finish date | E | | |
| Manf/076 | Call for Inspection should be online. | E | | |
| Manf/077 | Ability to receive online clearance of operation by QC | E | | |
| Manf/078 | Ability to receive items in assembly store online against docket/IBTMs. Each component manufactured in shop has process sheet (also called route card or docket). Normally route card is supplied to next stage along with the manufactured components/ assemblies, when the same is to be used within the same section/ block. But, when components/ assemblies are supplied to other blocks (sometimes to other sections), the dockets are retained by QC of manufaturing block/ section and the components/ assemblies are forwarded to next Block/ section through another QC cleared document, called IBTM (Inter Block Transfer Memo). | E | | |
| Manf/079 | Ability to plan packages of a Work Orderfor manufacturing at various level. Packaging of WO: It comes under Level-3 planning. The requirement of finished goods, semifinished items are arrived through the system by MRP based on project data. Brief on Plan packages of a work order: Component wise plan / schedule ariived from project completion date (backward scheduling) | D | | |
| Manf/080 | Ability to record labour hours consumed. | E | | |

| S.No. | Particulars | Essential / Desirable | Vendor Response | |
|---|---|---|---|---|
| **Module** | | | **Offered ERP Product** | **If the response is SD, mention the Module Name which supports the requirement** |
| Manf/081 | Ability to generate variance report to be send to technology dept | E | | |
| Manf/082 | Ability to receive packaging instruction from Engineering | E | | |
| Manf/083 | Ability to run Material Requirement Plan for a Single or multi level Material | E | | |
| Manf/084 | Run MRP at Workorder level | E | | |
| Manf/085 | Ability to delete unwanted Planned orders. | E | | |
| Manf/086 | Ability to create Manual Production Orders. | E | | |
| Manf/087 | Ability to Reduce in WIP & increase in MLWS (Material lying with sub contractor. This means that the system should show the clear WIP, by decreasing the MLWS from WIP which are sub-contracted at operational level) | E | | |
| Manf/088 | Ability to track Material Movement between IS / RMS/ cooperative shops/Workcenter | E | | |
| Manf/089 | PPMIV document Creation in background of PO Release (PPMIV => Part Processed Material Issue Voucher)* (the document on which materails are moved from shop to vendor for partial operations)<br>The semifinished item partly processed at shop will be issue to vendor for performing some operation and return back to shop to continue further.<br><br>PPMIV (part processed material issue voucher) is an online generated voucher against a particular subcontracting purchase order to issue/ supply part processed material to sub-vendors. Material against PPMIV is issued by shops. | E | | |
| Manf/090 | PPMIV document Creation in foreground | E | | |
| Manf/091 | PPMIV document Change | E | | |
| Manf/092 | PPMIV  document Deletion | E | | |
| Manf/093 | PPMIV Print (View, Print & Re-Print) | E | | |
| Manf/094 | PPMIV Print Cancellation | E | | |
| Manf/095 | PPMIV Gatepass Generation | E | | |
| Manf/096 | PPMIV Gatepass Change | E | | |
| Manf/097 | PPMIV Gatepass Print (View, Print & Re-Print) | E | | |
| Manf/098 | PPMIV Gatepass Print Cancellation | E | | |
| Manf/099 | PPMIV Receipts (GR) | E | | |
| Manf/100 | CO-OP Jobs - Issues/ Receipts (GR)<br>CO-OP Jobs:<br>The semifinished item partly processed at shop will be issue to another shop for performing some operation and return back to shop to continue further. | E | | |
| Manf/101 | PPMIV Co-Op Jobs (Receipts, Gate Pass Generation, GP Print)<br>PPMIV means issue of semifinished item subcontracted at operational level for performing some operation and return back to shop to continue further. SMIV(Store Material Issue Voucher) means issue of raw material from store to vendor to perform part operation and return to shop for further process.SMIV comes into picture when sub-contracting semi-finished material intoto/partial | E | | |
| Manf/102 | SMIV Co-Op Jobs (Receipts, Gate Pass Generation, GP Print)<br>Process for SMIV:<br>The semifinished item for which vendor will collect the raw material from stores, perform some operation and return back to shop to continue further. | E | | |
| Manf/103 | PPMIV Status Report | E | | |
| Manf/104 | - Pending Purchase Requisitions & Purchase Orders Report | E | | |
| Manf/105 | - Status Report | E | | |
| Manf/106 | PPMIV MIDA Generation (Material Inspection cum Dispatch Advice)* ( When the operations ae predefined | E | | |

| S.No. | Particulars | Essential / Desirable | Vendor Response | |
|---|---|---|---|---|
| Module | | | Offered ERP Product | If the response is SD, mention the Module Name which supports the requirement |
| Manf/107 | PPMIV MIDA Print (View, Print & Re-Print) | E | | |
| Manf/108 | PPMIV MTN Generation (Material Transfer Note)* (raw material movement from one vendor to other vendor without coming to BHEL in case if the operations are split between different vendors or if one vendor is not able to do the job then it is transferred to other)<br><br>PPMIV (part processed material issue voucher) is an online generated voucher against a particular subcontracting purchase order to issue/ supply part processed material to sub-vendors. Material against PPMIV is issued by shops. | E | | |
| Manf/109 | PPMIV MTN Print (View, Print & Re-Print) | E | | |
| Manf/110 | Ability to do timebooking for Production(partial/full)/machine/labour/idletime/cancellation etc. | E | | |
| Manf/111 | Ability to do changes for Production Order/ Operation Work centre etc. | E | | |
| Manf/112 | Ability to move stock in forward and reverse direction and do necessary changes accordingly.<br>Flexibility in movement of stock until the header production order is not confirmed | E | | |
| Manf/113 | Ability to generate Job completeion document (draft/final) for comparing with Engineering documentation and handing over to CDC | E | | |
| Manf/114 | Ability to check for any pending material issues | E | | |
| Manf/115 | Ability to Check for Pending Production Order Operations Confirmations & Stock movement from lower to higher level. | E | | |
| Manf/116 | Ability to generate alert for Pending Positive recall items.<br>Recall Process:<br>Sometimes Store Receipt Vouchers take longer time in clearance by QC due to some reason (e.g. incompleteness of incoming documents). And if shop requires such items badly to meet production targets/ commitments, BHEL systems permits their processing in shops to save time, pending clearance by QC at receipt stage, but with a rider that in case metarial is rejected at receipt stage by QC at a later date, shop will return the part/ fully processed material back to receipt store. The system of recalling is called Positive Recall System. | E | | |
| Manf/117 | Ability to do Des Costing (The cost of finished deliverable goods) | E | | |
| Manf/118 | Online preparation of blanking plans of raw material required for subcontracting and against dockets | E | | |
| Manf/119 | Ability to generate prints with background printing "FOR INTERNAL USE". However, background printing will not be there on the final packing list (duly locked by QC). | E | | |
| Manf/120 | Allocation would be done by shop supervisor online. | E | | |
| Manf/121 | Online hold up lists as proposed in L4 planning system may be used.<br>For some units with SAP installed, L4 Planning is done with the help of customized SAP. L4 planning means plan/schedule at component level. Units with no SAP there is a legacy system | E | | |
| Manf/122 | Ability to carry out online tag printing as per shipping/ packing list. | E | | |
| Manf/123 | Ability to request inspection by quality | E | | |
| Manf/124 | While, Central Despatch Cell inserts HANDING OVER lock it would also acknowledge receipt of COC/ MDCC. And for subsequent activities, plant's online system for package handling/ monitoring is considered adequate by shops.<br>It is the process of final despatch clearance after checking all the relevant documents | E | | |
| Manf/125 | Exception reports of short shipment to be generated from system. | E | | |
| Manf/126 | Preparation of holdups only for short shipment items | E | | |
| Manf/127 | Ability to check that Work order part 1, 2 & 3 to be mandatory completed by commercial before uploading the WO.<br>To check the completion of preceeding activities by commercial department as per work flow in the mentioned RFP statement. Part-1 Technical Details, Part-2 Financial Details , Part-3 Shipment related Details. Forward and backward integration of manufacturing data with commercial data like workorder data. | D | | |
| | **TOOLINGs** | | | |

| S.No. | Particulars | Essential / Desirable | Vendor Response | |
|---|---|---|---|---|
| **Module** | | | **Offered ERP Product** | **If the response is SD, mention the Module Name which supports the requirement** |
| Manf/128 | Ability to provide tool stock online.<br>Present Tooling System:<br>For some units where SAP is implemented, both standard SAP and customised SAP process.<br>For non-SAP units legacy systems are used for tool request generation, issual, generation of new requirements | E | | |
| Manf/129 | Online request for replacement by shop. | E | | |
| Manf/130 | Online issue of manufacturing work order  on  a standard format by shop/ Tooling group | E | | |
| Manf/131 | Online request for material code number by shop/ Tooling group | E | | |
| Manf/132 | Ability to send Online intimation for material collection to requisitioning group by Tool Engineering to shop | E | | |
| Manf/133 | Online temporary issuing against hard copy requisition. Subsequently store keeper may feed into the system | E | | |
| Manf/134 | SIV generation/ release and Collection of material from stores as per main product by shop | E | | |
| Manf/135 | Ability to receiving Material issue/ requisition voucher/slip-wise/ Tool Delivery Challan-wise online | E | | |
| Manf/136 | Shop Technology Head may approve issue even if, requirement is not forecasted | E | | |

| S.No. | Particulars | Essential / Desirable | Vendor Response | |
|---|---|---|---|---|
| | | | Offered ERP Product | If the response is SD, mention the Module Name which supports the requirement |
| **General** | | | | |
| Engg/001 | Ability to generate tender transmittal note with schedules and reference number to manufacturing units,regions etc(based on tender type, year, etc.). Transmittal note is between Owner and customer for approval of drawings status | E | | |
| Engg/002 | Ability to generate acknowledgement mail on achieving/occurance of a milestone ,achieving of milestone / events in the process at different stages | E | | |
| Engg/003 | Auto-generation of Product/. Enquiry/saleorder/project. Number with reference to main commerciall/Product Enquiry Group Reference number, Auto Generation of product | E | | |
| Engg/004 | Ability to carry out Producibility Analysis in certain cases in consultation with Product Engineering & Operations. Reasons for rejection to be captured for analysis (Reason for unsuccessful tender to be recorded. It is comparison of estimated costs Vs actual expenditure.) | E | | |
| Engg/005 | Monitoring tendering queries status | E | | |
| Engg/006 | Ability to have a desired template for data adequacy and have the check list uploaded for each product Checklist for checking the data adequacies in desired product templates for uploading in tendering process | E | | |
| Engg/007 | Ability to store all documents like Minutes of Meeting (MOM)/Addendum/Tender/Comments clarification deviations(CCD) amendments with status and workflow | E | | |
| Engg/008 | Ability to provide interface with technology group for feasibility & norm hours Provision to extract standard hours data from technological processes for tendering activity. Norm hours data shall be existing in ERP system. It should be available to Engg for Tendering purpose. Extract of data should be seamless without any interface | E | | |
| Engg/009 | Ability to provide single web based system for complete information flow during tender activities  Monitoring of tendering preparation activities till BID submission | E | | |
| Engg/010 | Archival of both unsuccessful & successful tenders shall be archived as Tender & Contract stages are distinct | E | | |
| Engg/011 | Ability to calculate Estimated Factory Cost as per the inputs provided. EFC broadly constitutes Direct (Man, machine, Material), Indirect and overheads. | E | | |
| Engg/012 | Product schedule manufacturing completion forecast | E | | |
| Engg/013 | Ability to Vendor to Check the purchase order(PO) Status , Billing Status , Vendor Performance Rating , Upload Test Certificates , Booking Inspection Call / Transporter etc  should be available online | E | | |
| Engg/014 | Repository for storing and retrieving  digital product data model and  (BOM, documents, component attributes, drawings and models, schematics, software modules, specifications, data sheets and revision history) | E | | |
| Engg/015 | Support for maintaining master product structures / templates and product variant structures for reference and rapid configuration of new products | E | | |
| Engg/016 | Support for product structure management to enable the management of product configurations as they are created and manipulated, including automated capture from CAD models. | E | | |
| Engg/017 | Embedded CAD-neutral and Web-based visualization of product information for all users to enable viewing, mark up and measuring of information generated by various 2D and 3D mechanical and electrical CAD and documentation authoring tools.-- | E | | |
| Engg/018 | Allow users to store, update and compare supplier / product alternatives to best leverage past designs and intelligence | D | | |
| Engg/019 | Configurable Workflow based process for change and release management | E | | |
| Engg/020 | Ability to track the parts undergoing changes with respect to its usage in other projects | E | | |
| Engg/021 | Ability to archive and View the older versions of the documents with change details. | E | | |

| S.No. | Particulars | Essential / Desirable | Vendor Response | |
|---|---|---|---|---|
| | | | Offered ERP Product | If the response is SD, mention the Module Name which supports the requirement |
| Engg/022 | Ability to link Delivery date with L2 schedule. Delivery date is in context of Engg documents completion for a particular PG of a project. Based on L2 schedule(agreed despatch date with customer) of different PGs of the project, these dates should be automatically calculated from the system. | E | | |
| Engg/023 | Ability to auto generate Equipment serial number. This is an internal number and engineering should be able to generate thisnumber based on some logic. ERP should facilitate this. Logic shall be shared during BBP. | E | | |
| Engg/024 | Ability to interface with design calculation. Mainly, 2D data i.e. Engg. Drawings are generated using AUTOCAD. For 3D data i.e. solid models & plant isometrics, "Creo (Pro/E)', UG-NX and PDMS are also used. | E | | |
| Engg/025 | 3D based collaborative system is required to merge electrical, wiring and mechanical designs. Presently, WRENCH Enterprise/other drawing management system are in usage for Design documents (2D data) e.g. drawings, product standards, etc. An enhanced Product data management system, which shall also include 3D data, is in review. | E | | |
| Engg/026 | Ability for capturing the queries, clarifications, resolutions & closures held with customers/sister units etc. | E | | |
| Engg/027 | Ability to put a Work Order on hold at any stage  and the further activities to be restricted in the system. Ability to generate an alert when the hold is lifted | E | | |
| Engg/028 | Ability to generate Product wise pre-defined check list. A list of documents (like technical offer details, write ups, some outline drgs etc) to be submitted against a tender is prepared. System should be able to cross check the documents being forwarded to different agencies before actual submission against the checklist | E | | |
| Engg/029 | Ability to generate alerts/dashboard for updated/revised interface documents. Interface documents are those documents which are generated by one department / sister units and used by other department / sister unit. For a project, facility must be available to upload/ update the documents/ data and facility to view on dashboard must be available. | E | | |
| Engg/030 | Facility to indicate at as spare item to prepare the spare catalogue | E | | |
| Engg/031 | Ability to raise and store all the queries and their replies related to a work order to be stores in the system. Whena customer awards an order to BHEL a unique no. is allotted for taking up all manufacturing action. This is called work order no. It is project specific. | E | | |
| Engg/032 | Ability to generate alert related to MDL (master document list) to be addressed to concerned department as defined in the MDL. Information availability to the concerned as notification (email/ dashboard etc.) | E | | |
| Engg/033 | Ability to store all contract related e-mails and correspondence at one place | E | | |
| Engg/034 | Ability to incorporate amendments to design Memo in the system. When an order is received from customer , then design requirements (technical data, Purchaser requirements communicatiobn etc- PRC) is issued to various sub sections in an engineering department for starting design work. Several post award contract meeting are also held with customer / interfacing departments or units within BHEL. If some modification is required in product design then an amendment to earlier issued 'design memo' is released. System should be able to track and keep records of these changes. ERP should have Document Management System. | E | | |
| Engg/035 | Engineering drawing schedule should be online and integrated for a project | E | | |
| Engg/036 | Ability to recommend existing parts based on attributes and restrict the creation of new parts. Permit creation only where necessary. | D | | |
| Engg/037 | Automatic generation of standardized parts description based on form, fit and function on creation of new part number. | E | | |
| Engg/038 | Availability of search based on parametric, hierarchical, natural language, part number, etc. | E | | |
| Engg/039 | Ability to capture Engineering Bill of Material (BOM) | E | | |

| S.No. | Particulars | Essential / Desirable | Vendor Response | |
|---|---|---|---|---|
| | | | Offered ERP Product | If the response is SD, mention the Module Name which supports the requirement |
| Engg/040 | Ability to capture scope of a project(major assemblies/BOM) | E | | |
| Engg/041 | Ability to genrerate drawing requirement of a project. Drawings for a project can be listed from the system. Requirement schedule of documents needs to be planned automatically as per L2 delivery date. Alert shall be generated on completion of each schedule. | E | | |
| Engg/042 | Ability to generate material requirement | E | | |
| Engg/043 | Product data (Hierarchy, structure, design, Model, test and analysis) should be a single source of truth stored in a central repository available to all stakeholders (with proper access rights) | E | | |
| Engg/044 | Ability to support New Product Development wrt estimation, Engineering BOM, Costing, Planning & Execution. | E | | |
| Engg/045 | Ability to define Projects, Activities, and Milestones, Macro Plans Details at the start of the project and modify at a later stage. | E | | |
| Engg/046 | Ability to present different variant views for the project based on variant parameters. Capability of reading 3D views. | D | | |
| Engg/047 | L2 network, Quality plan/ protocol, testing procedures/ protocol, Project Engineering. Documents. To be extended to all products & Quality | E | | |
| Engg/048 | Ability to have standard Product Group Main Assembly (PGMA) templates for different types of product available online with Updating provision & Alert facility. PGMA is a unique 5-digit no. which identifies the product unique part. | E | | |
| Engg/049 | Ability to have Standard Bought Out Items and Summary List of Packages(SLP) templates for different types of product available online with Updating provision & Alert facility | E | | |
| Engg/050 | Ability to map tender document(technical specification) with Product Group list | E | | |
| Engg/051 | Ability to generate new standard Finish Goods code and Master Bills of Material (MBOM) for valves and spares. | E | | |
| Engg/052 | Ability to have online project document Schedule and Approval. | E | | |
| Engg/053 | Ability to generate Erection & Commissioning document from Master List. System should facilitate to select a subset of drawing for a project to generate a project specific list from MDL (Master document list). | E | | |
| Engg/054 | Facilitate to print Erection & Commissioning documents at the respective depts. System should facilitate to select a subset of drawing for a project to generate a project specific list from MDL (Master document list). | E | | |
| Engg/055 | Ability to allow the user to easily organize and structure the product information including parts, designs, drawings etc. The proposed solution should contain storage of all drawings | E | | |
| Engg/056 | Ability to auto-generation drawing number based on BHEL drawing number. For Reference purpose and to avoid duplication a common system generated number to be allocated to each drawing | E | | |
| Engg/057 | Ability to have interface with existing drawing server for uploading and high speed printing | E | | |
| Engg/058 | Ability to calculate estimated factory cost (EFC) based on Design parameter, historical data. | E | | |
| Engg/059 | Ability to have Propagation of drawing and specification revisions in BOM, Schedule of Parts, Material cards, Routing Slips, Purchase requisitions, purchase orders, Enquiries, etc. | E | | |
| Engg/060 | Ability to update Revision number in List of drawings for all work order. Drawing number is generated in Business application and stored in database. The number is used to create Drawings and store in in Vault/ DMS system. Business applications use the same drawing number stored in database for creation of BOM/CBOM. As and when revised drawing is submitted in vault/DMS, a revision number is updated in database against this drawing number. | E | | |
| Engg/061 | Ability to generate Alerts which is to be issued to all stakeholders in case of revision in documents | E | | |

| S.No. | Particulars | Essential / Desirable | Vendor Response | |
|---|---|---|---|---|
| | | | Offered ERP Product | If the response is SD, mention the Module Name which supports the requirement |
| Engg/062 | Ability to provide information (in the right format) relating to product design and size/capabilities/configuration of engineering team from the units should be available to all concerned stakeholders in BHEL. Format means basic template in which data are to be filled. Format to be decided during execution. | E | | |
| Engg/063 | Ability to have all documents available to all concerned stakeholders | E | | |
| Engg/064 | Any change in the Product, should be duly approved (workflow). The approved product data should be stored in a central repository (from where it is accessed by all stakeholders). An intimation (auto-email) should be sent to all stakeholders in case of any approved change. The Audit trail of all changes should be maintained in the system. Proper version management needs to be done. | E | | |
| Engg/065 | Ability to generate Drawing Change Advise(DCA) online with the defined Work flow/ alert should be present. Ability to display status of Drawing at the time of generating Change Advise(DCA) online | E | | |
| Engg/066 | Ability to Auto-generate product standard number based on BHEL product Standard number generation logic. | E | | |
| Engg/067 | Ability to have history inforamtion retrieval based on product machine number wise | E | | |
| Engg/068 | Ability to generate alerts for design review periodically for standard products | E | | |
| Engg/069 | Allow users to store, update and compare supplier / product alternatives to best leverage past designs and intelligence - | D | | |
| Engg/070 | Must be designed to handle group manufacturing specification (GMS) generation on a large scale as thousands of GMS are generated each month. (GMS/Combined bill of material(CBOM) is essentially required as it is the main Manufacturing BOM Document linking Drawing BOM and Dispatchable Unit (DU). Shipping List is generated through GMS process) | E | | |
| Engg/071 | Ability to Auto Generate list of deliverables from identified deliverables from BOM | E | | |
| Engg/072 | Ability to Auto Generate pre printed packing list | E | | |
| Engg/073 | Ability to Auto Generate shipping list from BOM & Linkage with SLP | E | | |
| Engg/074 | Ability to define Access control and status notification should be developed for BOMs | E | | |
| Engg/075 | Ability to carry outBOM weight calculation | E | | |
| Engg/076 | Ability to integrate with external drawing management system | E | | |
| Engg/077 | Ability to carry out Sensitivity Analysis on Project Cost based on various cost drivers. Linked to various changes that can affect costs like salaries, timelines, new activities coming from changes in Project classification or nomenclature. It is comparison of estimated costs Vs actual expenditure. | D | | |
| Engg/078 | Share with Suppliers information related to the product under development such as drawings, designs over the inter / intranet | E | | |
| Engg/079 | System should support online review and modification of documents with adequate document security / Classifications | E | | |
| Engg/080 | Dispatcable Unit (DU) , BOM , Item No , MaterialCode should be linked | E | | |
| Engg/081 | Changes during fabrication like raw matl size, spec., etc are to be captured on line and corresponding changes in the relevant document is to be addressed | E | | |
| Engg/082 | Design change Note ( DCN) process to be linked with drawing and 3D modles | E | | |
| Engg/083 | Development , updation & Management of software , programs & tools used in engineering are to be covered. System should provide facility to update source programs in Fortran, basic etc for design calculations. | D | | |
| Engg/084 | Ability to Link MBOM to multiple work orders in a project/ across projects at a time for WBOM creation. BOM - Engineering Data CBOM - Engineering & Technology Data Drawing Compilation - All Drawing of a WO Material Compilation - All material of a WO. Any change required should be able to implement across work orders on selective basis. | E | | |

| S.No. | Particulars | Essential / Desirable | Vendor Response | |
|---|---|---|---|---|
| | | | Offered ERP Product | If the response is SD, mention the Module Name which supports the requirement |
| Engg/085 | Assigning header material to multiple work orders in project system | E | | |
| Engg/086 | Ability to handle activities related to different types of Spares order | E | | |
| Engg/087 | Attestation indication shall flow from Material Master to BOM. Attestation such as third party certefication like ASME etc, IBR certification requirement indication in material master against material to flow to bill of material | E | | |
| Engg/088 | Repair procedure to be part of BOM | E | | |
| Engg/089 | Ability to generate Alerts- with reference to Work Order for Performance Guarantee testing. Performance Guarantee testing shall be done off-line. Facility should be there to record the information and alert must be generated for concerned agencies.. | E | | |
| Engg/090 | Ability to integrate with Site operation management system. All owners project site operations to be mapped in the ERP system. Site operation system will be part of ERP system and handle complet site operations. | E | | |
| Engg/091 | Ability to integrate training calender for better planning by the Engineering department. BHEL has training centres at some of the units where the training calenders are available. | D | | |
| Engg/092 | Ability to generate alert for issue of development indent.Recommendation to be stored in the system against Registration Number. It is development of new vendor for an item / component. A committee decides an indent to be raised under the name development indent. There is a time frame for this. So an alert in the form of email is to be generated. Same is the case with BOI (Items directly despatched by vendor) also. | E | | |
| Engg/093 | Raising/ amendment/ cancellation of Indents As Applicable. Facility to make changes in the indent. Should be a part of normal indenting process. | E | | |
| Engg/094 | Ability to Auto-generate material code with the work flow | E | | |
| Engg/095 | Ability to generate exception report of project specific Bought out items | E | | |
| Engg/096 | Ability to generate material list of a CBOM. CBOM is Combined BOM where both Engg & Technology data is available. Material list of a CBOM is requirement of raw material of a CBOM / group of CBOMs. Material compilation must also be available for a project. | E | | |
| Engg/097 | Ability to generate material list of a project | E | | |
| Engg/098 | Ability to generate imported item list | E | | |
| Engg/099 | Ability to Auto generate indent for long lead items and balance generation through MRP run | E | | |
| Engg/100 | Ability to consolidate indents Product material directory Number wise, Purchase cell wise | E | | |
| Engg/101 | Ability to generate requests for internal castings and forgings | E | | |
| Engg/102 | Ability to generate alert before the target date of indenting. | E | | |
| Engg/103 | Ability to tranfer Special recommendation/comments mentioned in the indent to the enquiry & Purchase Order. Facility to copy special remarks from one indent to other should be possible. Should be a part of normal indenting process.. | E | | |
| Engg/104 | Ability for Tracking of vendor development files with alerts to the concerned. Comments & Notes should be stored in the system with a reference. | E | | |
| Engg/105 | Preparation of Proprietary/Original equipment manufacturer (OEM )Certificate, Customs Docs, justification for single tender, imported and emergency, and Issue of enclosures (specifications and drawings) for indents | E | | |
| Engg/106 | Generation of Material Forecast for Work orders of Advance manufacturing action/Provisional/ Firm / Spares/Shortages | E | | |
| Engg/107 | For material deviation/ material change proposal, resolution by Engineering should become part of project specific BOM automatically. Work flow to Technology dept as required. | E | | |
| Engg/108 | Ability to Auto-generate e-catalogue for all products based on spare indicator in BOM. | E | | |
| Engg/109 | Ability to generate BOM and documentation for spares | E | | |
| Engg/110 | Ability to store Technical reports related to site problems | E | | |

| S.No. | Particulars | Essential / Desirable | Vendor Response | |
|---|---|---|---|---|
| | | | Offered ERP Product | If the response is SD, mention the Module Name which supports the requirement |
| Engg/111 | Separate identification required for IBR, ASME, etc. in the system. IBR data are to be updated against each BOM. Attestation such as third party certefication like ASME etc, IBR certification requirement indication in material master against material to flow to bill of material | E | | |
| Engg/112 | Ability to monitor the Project related reports (e.g. PIR, project completion report PCR, etc) and these should be available to all concerned stakeholders. | E | | |
| Engg/113 | Ability for registration and approval of Project Initiation Report (PIR)/New design initiative product wise | E | | |
| Engg/114 | Ability for Online filing of Intellectual Property Rights | E | | |
| Engg/115 | Ability to capture Turnover from Commercialization & R&D expenditure | E | | |
| Engg/116 | Ability to store all collaboration documents in the system em & link to collaborators reference number and product | E | | |
| Engg/117 | Availability of online System for preparation of master document with different parameters. (which comprising of creating a matrix of L1(mission projects & technology plan),L2(Sub mission projects) and L3(R&D project/PIR) levels with defined milestones & PIRs with their scheduled start & end dates, interdependency ,unique identification numbers & respective project leaders | E | | |
| Engg/118 | PIR approval process to be online at units as well as at Corporate office keeping account of the available budget provisions | E | | |
| Engg/119 | Ability to integrate all Units PIRs registration/ Approval /Updation with Corporate level. Registration of Project Initiation Report (PIR) is done at Unit level and sent for approval to Corporate depending on valuation of PIR. Progress / status is required. This process needs to be includes in ERP. | E | | |
| Engg/120 | Ability to have documents online (Technical/product committee meeting's calendar/agenda/minutes of meeting /Benchmarking documents) | E | | |
| Engg/121 | Ability to monitor online PIR approval, Status Updation w.r.t Milestones & project time schedule (at variable frequency) up to Commercialisation | E | | |
| Engg/122 | Ability to generate various unit wise customised reports like Status of PIR Progress ,PIR linkage with Product, Unit & Engg Functional Plan, Status of MOU Projects, High value PIRs, Overdue PIRs, delay in updation , etc | E | | |
| Engg/123 | Ability to give online approval based on authority for R&D budgets | E | | |
| Engg/124 | Ability to generate MIR. MIR Stands for Management Information Reports (like Status of Project Information Report, Monthly progress report of project/ dept, R&D expenditure etc). Templates shall be provided during BBP phase. | E | | |
| Engg/125 | Abilityt ot generate reminder for timely MIR submission | E | | |
| Engg/126 | Ability to give online approval with proper authorization and control for different types of documents | E | | |
| Engg/127 | Ability to generate timely alerts before elapse of Department of Scientific Industrial Research(DSIR) recognition to take necessary action for renewal well before time | E | | |
| Engg/128 | Ability to generate timely alerts for submission of related documents/ format to DSIR for claiming previous year's R&D benefits after recognition. | E | | |
| Engg/129 | Online generation of Report on Units claiming yearly R&D benefits against DSIR recognition against previous year | E | | |
| Engg/130 | Facility to Ceate a centralized Company Innovation bank at Corporate Level. Currently information is stored manually. This is to be mapped in ERP solution. | E | | |
| Engg/131 | Facility to Post Project Ideas to a Company Inovation bank | E | | |
| Engg/132 | Facility to Respond / Evaluate postings in Company Innovation Bank | E | | |
| Engg/133 | Capability to track the Day to day progress of KBE projects initiated by different units for different products. The ARP should be able to review/ provide comments on the daily tracker. it is progress report on daily basis about progress of project in comparison to planned activity. Data should be available to other units for review | E | | |

| S.No. | Particulars | Essential / Desirable | Vendor Response | |
|---|---|---|---|---|
| | | | Offered ERP Product | If the response is SD, mention the Module Name which supports the requirement |
| Engg/134 | Ability to capture the details such as collaborator document accessed by whom, on what date? Whether converted into BHEL equivalent document | E | | |
| Engg/135 | Disposition of NCR (non conformance report)/SARs (Site Action Request) / CARs(Commissioning Action Request)/ MDRs (MaterialDiscrepancy Report)/ Customer Complaint | E | | |
| Engg/136 | Ability to convert automatically the provisional part nos into a permanent part no and if its available in the existing directory, give alert to the designer to adopt the existing no. | E | | |
| Engg/137 | Ability to Create Provisional Part List and freeze on Confirmation. | E | | |
| Engg/138 | Ability to keep the supplier part references with respect to the purchase parts and update electronically the changes / specs issued by the suppliers. | E | | |
| Engg/139 | Vendor drawing approval through online | E | | |

| S.No. | Particulars | Essential / Desirable | Vendor Response | |
|---|---|---|---|---|
| | | | Offered ERP Product | If the response is SD, mention the Module Name which supports the requirement |
| **General** | | | | |
| Maint/001 | Ability to register breakdown call online. Online refers to ERP system. But mobile integration is also required. | E | | |
| Maint/002 | Ability to send Alert/ Trigger/notification for initiating and closing of request(SMS facility/ mail) should be sent to all stakeholders by the system. In some units SMS gateway is existing | E | | |
| Maint/003 | Ability to prepare a Maintenance Budget for the plant with appropriate linkages with Capital Repair Plan, Preventive Maintenance Plan, Annual Business Plan etc. (Separate budget for each plant) Maintenance budget as of now is planned both history based and zero based | E | | |
| Maint/004 | Ability to collate budgetary requirements for maintenance from concerned departments as part of Maintenance Budget exercise | E | | |
| Maint/005 | Ability to do Breakdown Calculation based on working hour of the machine | E | | |
| Maint/006 | Ability to show Online stock position, online generation of requisition- Ability for Auto indenting of regular consumable materials | E | | |
| Maint/007 | Technical specifications should be available online | E | | |
| Maint/008 | Ability to search/ trace the material based on specification/ description/ vendor - Traceability for non stock items (where material code is not available) | E | | |
| Maint/009 | Ability to generate generation of format of codification (material master for services) | E | | |
| Maint/010 | Ability to generate format for estimation based on budgetary offers or otherwise (For estimation based on budgetary offers or otherwise) | E | | |
| Maint/011 | Ability to generate single tender certificate based on various parameters. It is a certificate issued by requester justifying the emergency/proprietary reasons allowing purchase to go for single tender. It is a certificate issued by requester justifying the emergency/proprietary reasons allowing purchase to go for single tender. | E | | |
| Maint/012 | Define Preventive Maintenance checklist for various kinds of equipment | E | | |
| Maint/013 | Ability to Vendor to Check the purchase order(PO) Status , Billing Status , Vendor Performance Rating , Upload Test Certificates , Booking Inspection Call / Transporter etc should be available online | E | | |
| Maint/014 | System should have ability to have excess services acceptance than specified services in m-book acceptance without change in existing PO/Contract value | E | | |
| Maint/015 | Maintain vendor specific warranty information and display the same when a problem for the equipment is notified | E | | |
| Maint/016 | Ability to provide online workflow based processes for raising notifications, assigning jobs to relevant personnel, preventive maintenance, breakdown maintenance, calibration of equipments for repair, spares requisitions. | E | | |
| Maint/017 | Ability to integrate plant maintenance processes with other functions like materials management, production, sales & distribution and finance | E | | |
| Maint/018 | Additionally unique field with time frame is required in equipment master to identify equipment under Preventive Maintenance which is different from equipment not in Preventive Maintenance critical | E | | |
| Maint/019 | Ability to send an alert to the concerned stakeholders if the Preventive Maintenance(PM) is not completed on time. Alert refers to E'Mail as well as SMS. | E | | |
| Maint/020 | Ability to maintain the database of the Skill set of Maintenance staff, training or proactive exposures to the machinery in terms of maintenance, safety and operations. | E | | |
| Maint/021 | Ability to capture PM activities carried out for individual machines under the same annual maintenance contract(AMC).If more than one equipment are covered in an AMC (since only one PM plan can be created for each AMC), it is not possible to capture PM detail (eg. Due on, PM carried out on) for each equipment. | E | | |

| S.No. | Particulars | Essential / Desirable | Vendor Response | |
|---|---|---|---|---|
| | | | Offered ERP Product | If the response is SD, mention the Module Name which supports the requirement |
| Maint/022 | Ability to deactivate disposed equipment from equipment master | E | | |
| Maint/023 | Provision to forecast the cost, including cost of spares, manpower and purchased services, of Preventive Maintenance activities based on pre-defined checklist | E | | |
| Maint/024 | Computation of MTBF (Mean Time Between Failures) and MTTR (Mean Time to repair) for a equipment | E | | |
| Maint/025 | Depreciated value of machine to be online | E | | |
| Maint/026 | Machine life to be available online. Machine life here means the expected operating years of that equipment | E | | |
| Maint/027 | Seamless integration with Human Resources application to allocate workmen with requisite skills for maintenance activities | E | | |
| Maint/028 | Ability to Upload measurement parameters through upload of excel for the log book maintenance | E | | |
| Maint/029 | Ability to define various parameters monitored can measuring points for that equipment. | E | | |
| Maint/030 | Ability to carry out transport bill payment process | E | | |
| Maint/031 | Ability to link Taxi booking process with payment of bill. Current system is a Manual system. Oracle based In-house system in some units. | E | | |
| Maint/032 | Ability to identify equipments which need periodic calibrations for ensuring accuracy and determining and defining the periodicity | E | | |
| Maint/033 | Ability to prepare schedule of calibration for equipments | E | | |
| Maint/034 | Ability to generate alert for all concerned agencies responsible for calibration before due date of calibration | E | | |
| Maint/035 | Ability to plan shut down of equipment for calibration and its impact on capacity planning and production processes | E | | |
| Maint/036 | Ability to record calibration results / observations and produce calibration certificates in required formats | E | | |
| Maint/037 | Ability to maintain and track history of calibration of all equipments within the plant | E | | |
| Maint/038 | Ability to record Improvement required based on the loss analysis for the Overall Equipment Effeciency(OEE) | E | | |
| Maint/039 | Ability to carry out Calculation on daily basis for OEE (Over all Equipment Efficiency) | E | | |
| Maint/040 | Ability to generate daily consumtion report for energy services(like electricity, gas ets) | E | | |
| Maint/041 | Ability to maintain List of equipments & schedule for the equipments under statutory requirement | E | | |
| Maint/042 | Ability to generate alerts based on the schedule | E | | |

| S.No. | Particulars | Essential / Desirable | Vendor Response | |
|---|---|---|---|---|
| | | | Offered ERP Product | If the response is SD, mention the Module Name which supports the requirement |
| **Corporate** | | | | |
| P&D/001 | Strategy Map/Plan to be online and map cascading to Balance Score Card(BSC). Balanced Score Card is a tool to provide measure of how organisation is progressing towards achievement of its strategic goals. It is derived from the Strategic Plan, and the MOU with Govt. It is used for measuring performance of the Unit / Function etc. | E | | |
| P&D/002 | Ability to make and approve strategy plan online | E | | |
| P&D/003 | Online system for Memorandum of Understanding(MOU) preparation, cascading to NC level BSC and monitoring | E | | |
| P&D/004 | Ability to share Management Committee Meeting(MCM) calendar, agenda, minutes of meetings(MoM) to be online. Tracking of MoM activities to be online | E | | |
| P&D/005 | Integrated system for from MC inputs, responsibility matrix region/units, generating inputs for agenda | E | | |
| P&D/006 | Ability to integrate with units, Business sectors and corporate systems for relevant inputs | E | | |
| P&D/007 | Provision for inputs/replies of Parliament queries to be stored in the system | E | | |
| P&D/008 | Ability to monitor capability building initiatives | E | | |
| **Unit** | | | | |
| P&D/009 | Ability to have strategic plan available to all the stakeholders(reports to be generated online) | E | | |
| P&D/010 | Ability to Cascade 5 year plan to 3 year rolling plan for Business sectors projections linked to investment plan | E | | |
| P&D/011 | Ability to receive Inputs from Material management, Production and other relevant areas to be online | E | | |
| P&D/012 | Ability to Vendor to Check the purchase order(PO) Status , Billing Status , Vendor Performance Rating , Upload Test Certificates , Booking Inspection Call / Transporter etc  should be available online | E | | |
| P&D/013 | Annual Budget(element wise) with monthly break up should be available to relevant departments | E | | |
| P&D/014 | Ability to link Turnover report with Business Sectors | E | | |
| P&D/015 | Capital Budget - The input for budget requirement should be captured by all functions on the system and the final allocated budget should be available to all stakeholders on the system. | E | | |
| P&D/016 | Strategic plan/revenue budget to cascaded to BSC this further to cascaded to e-Map | E | | |
| P&D/017 | Ability to track status of BSC. Monitoring the status of KPIs in the BSC should be possible. | E | | |
| **Business Sectors** | | | | |
| P&D/018 | Ability to integrate with various groups/business sectors  with the provision to enter data from various groups/centers | E | | |
| P&D/019 | Ability to integrate Strategic plan with Broad objectives through system | E | | |
| P&D/020 | Ability to receive inputs though system for Half yearly plan, order book budgeting | E | | |
| P&D/021 | Ability to generate alerts for receiving of Replies/comments within stipulated time limit | E | | |
| P&D/022 | System should have features of dynamic templates for milestone scheduling and budget planning | D | | |

| S.No. | Particulars | Essential / Desirable | Vendor Response | |
|---|---|---|---|---|
| | | | Offered ERP Product | If the response is SD, mention the Module Name which supports the requirement |
| **Implementation** | | | | |
| Tech/001 | Ability to link the combine bill of material(CBOM) /bill of material(BOM) material code with the materials database | E | | |
| Tech/002 | Automation of tool management. Automation of tool management means<br>1. Collection of tooling requirements generated by process planner.<br>2.Creating BOM for that tools identified to be designed by Tool Design Group.<br>3.Manufacturing of the Tool by BHEL/Vendor.<br>4.Issue of the tool against the requirement like drawing/workshop/store. | E | | |
| Tech/003 | Ability to link the tools with PO/Notifications. Linking of tools against Production Order | E | | |
| Tech/004 | Ability to link the tool issued to the employee ID | E | | |
| Tech/005 | Provision for entering and printing Norm-Hours and program details for operations on CNC machine tools in parallel to Conventional operation. Timings against CNC machines should be entered and available in the system for better monitoring and utilization | E | | |
| Tech/006 | Ability to generate Suitable numbering schemes and masters for Welding procedure/Brazing procedure specification / any other special process procedure specification | E | | |
| Tech/007 | Ability to Back trace through the system for rework against a particular drawing and work order (The number of this document has to be linked with non conformance report(NCR) & Joint inspection report) | E | | |
| Tech/008 | Ability to incorporate quality plan(QP) requirements in the start of the covering sheet of process sheet/route card | E | | |
| Tech/009 | Ability for online incorporation of change advices, Changes should be printed on first page of process while printing | E | | |
| Tech/010 | Ability to make available data from the same product group main assembly(PGMA) group (for all drawing variants) for reference & comparison | E | | |
| Tech/011 | Facility for Actual hours consumed on shop floor in previous jobs to be made available on-line from Shop Section | E | | |
| Tech/012 | Single list of critical to quality(CTQs)/Log sheets to be issued incorporating CTQs of Engineering / Technology and Quality by Quality Management Group | E | | |
| Tech/013 | Ability to Vendor to Check the purchase order(PO) Status , Billing Status , Vendor Performance Rating , Upload Test Certificates , Booking Inspection Call / Transporter etc should be available online | E | | |
| Tech/014 | Ability for the system to generate a design action for the tool whenever process planner identifies the requirement of the special tool in process/ routing.<br>Tool designing group should get a intimation for starting the tool design activity from the requirement indicated by the process planner at operation level in the routing. | E | | |
| Tech/015 | Ability for Record of activity with details to be kept for future (e.g. for Tool proving/first off trial with involvement of JTE, technology, quality & concerned shop) | E | | |
| Tech/016 | Ability to link the design of tooling with CBOM / BOM | E | | |
| Tech/017 | Automated sending of drawings to concerned departments after necessary approval | E | | |
| Tech/018 | Follow-up for procurement, erection & commissioning : Maintenance of Workcenter master /machine (Plan No and Eqp Code) database, Machine wise Online schedule for erection & commissioning by vendor and follow-up | E | | |
| Tech/019 | Facility of tool life monitoring | E | | |
| Tech/020 | Ability to link tool cost to per tonne of production(wherever applicable) | E | | |
| Tech/021 | Identification of facilities requirement to be made Online(to be interfaced with CMT & IP at corporate office through unit P &Ds). Facilities list or details of the machines against workshop/unit is expected to be available online with capacity and machine type. | E | | |

| S.No. | Particulars | Essential / Desirable | Vendor Response | |
|---|---|---|---|---|
| | | | Offered ERP Product | If the response is SD, mention the Module Name which supports the requirement |
| Tech/022 | Online availability of current estimate format with applicable duty structure to help in Preparation of project reports, shop layouts & identification and planning of facilities. Estimate formats are required for Capital Items which also include Services like Erection & Commissioning. Formats will be different for Indigenous & Foreign Items. | E | | |
| Tech/023 | Ability for Online storage & retrieval of all the Layouts pertaining to shop layouts of existing machine tools and space available | E | | |
| Tech/024 | Online availability of current updated specification templates, previous indents and recommendations of Core group, Guidelines from CMT&IP, Materials Management, Vigilance, Audit etc. | E | | |
| Tech/025 | Technical Scrutiny of Purchase files to be interfaced with e-procurement | E | | |
| Tech/026 | Ability to link the Erection & commissioning to finance department | E | | |
| Tech/027 | Ability for Online issue and display of WPS (Welding Procedure Specification) | E | | |
| Tech/028 | Ability for Online issue and display of qualified personnel list | E | | |
| Tech/029 | Ability to make available Issue and weld repair procedure form the system | E | | |
| Tech/030 | Ability to link the WPS (welding procedure specifications)/BPS (Brazing procedure specifications)/any other procedure specifications to route card | E | | |
| Tech/031 | Online issue and display of Special processes/ procedure | E | | |
| Tech/032 | Qualification of personnel should be linked to HR database | E | | |
| Tech/033 | Ability to link Special process should to respective NCR (non-conformance reports) | E | | |
| Tech/034 | Ability to link Welding/brazing /any other special process defects to the performance of the welder/task performer | E | | |
| Tech/035 | Ability to have a Complete database for previously procured technological materials | E | | |
| Tech/036 | Facility for On-line availability of editable text of technological instruction/ sketch linked with its being displayed version | E | | |
| Tech/037 | Ability to hyperlink the technological instructions references in process masters | E | | |
| Tech/038 | Ability for version controlling in case of all editable documents | E | | |
| Tech/039 | Ability for Online request from Shop and status for technology absorption / trouble shooting | E | | |
| Tech/040 | Ability to view Full format of job card with resolution options | E | | |
| Tech/041 | Ability to get an Online request from Shop and program readiness status for CNC programmes for CNC machines. CNC program should be linked to the component drawing, indicating whether CNC program is proven/unproven. Released program details should be intimated to the concerned work centre in-charge. | E | | |
| Tech/042 | Online availability of all CNC programs for all machines. CNC program should be linked to the component drawing, indicating whether CNC program is proven/unproven. CNC program should be linked to the component drawing, indicating whether CNC program is proven/unproven. | E | | |
| Tech/043 | Ability to integrate with engineering for CAM(Computer aided manufacturing) application (In-House developed systems available in some locations) | E | | |
| Tech/044 | Online availability of all Proved CNC programs for input to machines. The proved CNC program should be available online for input to machine. However, whether it should be part of DMS or any other system, should be decided by vendor. | E | | |
| Tech/045 | On-line availability of linkage of RCA decision and change made in process for future reference | E | | |
| Tech/046 | Sketches/Guidelines /Process should be isued online. | E | | |
| Tech/047 | Drawing and Documents linked with process should be intregated and available online. | E | | |
| Tech/048 | All the identification should be online. The Items are Documents like Technological Instructions and Product Standards. | E | | |
| Tech/049 | Material specefication should be made online. | E | | |

| S.No. | Particulars | Essential / Desirable | Vendor Response | |
|---|---|---|---|---|
| | | | Offered ERP Product | If the response is SD, mention the Module Name which supports the requirement |
| Tech/050 | Online issue of list of special tools and special tools requiring calibration based on production programme of next year project wise. | E | | |
| Tech/051 | online alerts for tool calibration. | E | | |
| Tech/052 | Online database storage and retrieval. | E | | |
| Tech/053 | Online vetting of technical documents received from outsourcing vendors | E | | |
| **General** | | | | |
| Tech/054 | All features of on line CBOM System and WRENCH at Haridwar /EDN,dolphin at Trichy or local DMS at other units are to be unified in new System. CBOM is used for generation of BOM; WRENCH, DOLPHIN etc are used for DMS. Similar systems exist at various units of BHEL. All these are in-house developed and need to migrated/integrated to ERP system | E | | |
| Tech/055 | Hyper linking of all related documents/references should be possible | E | | |
| Tech/056 | Should be proper version controlling in case of all editable documents | E | | |
| Tech/057 | All the inputs required for generation of process master should be linked & available on-line | E | | |
| Tech/058 | The alert / reminder for expiry of certification should be from the system | D | | |
| Tech/059 | There should be an alert for completion of certification | D | | |
| Tech/060 | Facility for Engineering instructions and process masters to be Online with appropriate work flow | E | | |
| Tech/061 | Work flow to be available for absorbing comments from different agencies leading to issue of repair process | E | | |
| Tech/062 | Availability of tool master data with easy search facility | E | | |
| Tech/063 | Ability for all the Tooling classification should be online (e.g. all tools of a particular type can be listed together) | E | | |
| Tech/064 | Ability for getting an online tool status | E | | |
| Tech/065 | Ability to see all the communication online. All Communication pertaining to Procurement of Capital Goods; like Specifications, Cost Justifications, Budgeted Offers, Project Reports, Approvals etc; to be made available with workflow. | E | | |
| Tech/066 | All approvals should be online | E | | |
| Tech/067 | Ability for machine specifications to be online | E | | |
| Tech/068 | Ability to make All correspondence related to an indent /PO available online | E | | |
| Tech/069 | Facility for Online availability of commissioning report | E | | |
| Tech/070 | Ability for uploading and viewing All previous indents | E | | |
| Tech/071 | Facility for Online issue and display of List of Qualified Personnel and equipments | E | | |
| Tech/072 | All the inputs required for generation of process master should be linked & available on-line | E | | |
| Tech/073 | Assistance to the shop personnel towards technology absorption / trouble shooting to be developed as knowledge database integrated with knowledge management portal | E | | |
| Tech/074 | Online availability of Material specifications / drawings, CBOM details, engineering data, tooling data, CNC machines data | E | | |
| Tech/075 | Master of technological instructions to be maintained in system | E | | |
| **Toolings** | | | | |
| Tech/076 | Ability to issue design cum manufacturing work order on a standard format, online approval facility to be provided | E | | |
| Tech/077 | Ability to return/ turning down of request | E | | |
| Tech/078 | Ability to generate list of NOT cleared Wos | E | | |
| Tech/079 | Ability to allocate drawing numbers, if to be manufactured | E | | |
| Tech/080 | Cancellation with due consent of Product tech, if NOT to be manufactured | E | | |
| Tech/081 | Drawing master to be created(approx. 2 lac data for Haridwar) | E | | |
| Tech/082 | Online design approval | E | | |
| Tech/083 | Online Allocation of route sheet number | E | | |

| S.No. | Particulars | Essential / Desirable | Vendor Response | |
|---|---|---|---|---|
| | | | Offered ERP Product | If the response is SD, mention the Module Name which supports the requirement |
| Tech/084 | All Bill of Materials to be delinked from drawings. Delinking is required where BOM is available on drawing. This BOM is necessary for Master and Transaction data creation as part of ERP system. | E | | |
| Tech/085 | Ability to have interface with existing drawing management system | E | | |
| Tech/086 | Ability to provide segregation between Shop manufactured/ outsourcing through outsourcing / purchase categories | E | | |
| Tech/087 | Ability to receive drawings requisition online | E | | |
| Tech/088 | Ability to allocate tooling online | E | | |
| Tech/089 | Online material code generation as per existing scheme and capturing of all the old material codes in material code master | E | | |
| Tech/090 | Ability to send intimation from tooling regarding readiness/ availability of items against specific work order to shop | E | | |
| Tech/091 | Ability to identify repeat/ borrowed tooling's by respective product technologist. | E | | |
| Tech/092 | Online issue of manufacturing work order on a standard format by respective product technologist/ shop technology/ Tooling provider group. | E | | |
| Tech/093 | Turn down the request, if not to be manufactured, by Tool Engineering/ Tooling Committee online | E | | |
| Tech/094 | Launching for manufacturing as per main Work Order items by Tool Room as per main product | E | | |
| Tech/095 | Ability to issue manufacturing work order on a standard format by respective product technologist/ shop technology/ Tooling provider group. | E | | |
| Tech/096 | Online Allotment of material code nos by Tool Engineering | E | | |
| Tech/097 | Online MPR along with Prop/ original equipment manufacturer(OEM) certificate, if required by Tool Engineering | E | | |
| Tech/098 | Ability to generate reminder for Despatch of instruments/gauges/jigs & fixtures for Calibration . | E | | |
| Tech/099 | Ability to generate report for number of tools issued to the users | E | | |
| Tech/100 | Alert for calibration to be linked with PO with sub contracted jigs and fixtures. Periodic calibration of jigs and fixtures for shop manufacturing tools by TSD(technical service division) | E | | |
| Tech/101 | Periodic generation of alert for items due for calibration | E | | |
| Tech/102 | Ability to generate alerts for items/tooling's not returned by vendors | E | | |
| Tech/103 | Online forecasting/ requirement forwarding required for the current financial year. In case no requirement exists, sectional heads may forward NIL requirements. | E | | |
| Tech/104 | MPR forwarding after compilation online, by shop planning to central material indenting/ controlling group. At the same time all the sectional head may get communicated about acceptance of their requirement. System may inform a unique no. to each of such accepted requirement so that they could draw material in future by indicating that unique no. | E | | |
| Tech/105 | Online SIVs generation/ approval | E | | |
| Tech/106 | System may inform a unique no. to each of such accepted requirement so that they could draw material in future by indicating that unique no | E | | |
| Tech/107 | Online material collection request to material collection agency | E | | |
| Tech/108 | Compilation of master data for indirect material | E | | |
| Tech/109 | All old data to be fed online | E | | |
| Tech/110 | All activities are expected to be performed as per the main product | E | | |
| Tech/111 | Indenting and Subsequent process upto SRV generation same as MM system as per main product | E | | |
| Tech/112 | Online availability of tools stock | E | | |
| Tech/113 | Online request for replacement by shop. | E | | |
| Tech/114 | Online request for material code no. by shop/ Tooling group | E | | |
| Tech/115 | Indenting by Tool Engineering as per main product | E | | |
| Tech/116 | Online intimation for material collection to requisitioning group by Tool Engineering to shop | E | | |
| Tech/117 | SIV generation/ release and Collection of material from stores as per main product by shop | E | | |

| S.No. | Particulars | Essential / Desirable | Vendor Response | |
|---|---|---|---|---|
| | | | Offered ERP Product | If the response is SD, mention the Module Name which supports the requirement |
| Tech/118 | Concerned shop to forward request, online, to shop technology/ shop Tooling group | E | | |
| Tech/119 | By shop/ Tooling group, online. Provision to attach scanned copies of Prop/ OEM certificate etc may be kept. | E | | |
| Tech/120 | Online receiving Material issue/ requisition voucher/slip-wise/ Tool Delivery Challan-wise | E | | |
| Tech/121 | Online temporary issuing against hard copy requisition. Subsequently store keeper may feed into the system | E | | |
| Tech/122 | Online receiving back | E | | |
| Tech/123 | Online permanent issuing to shops, upon approval by sectional head | E | | |
| Tech/124 | Online receipt in shop sub store(s) | E | | |
| Tech/125 | Shop Technology Head may approve issue even if, requirement is not forecasted | E | | |

| S.No. | Particulars | Essential / Desirable | Vendor Response | |
|---|---|---|---|---|
| | | | Offered ERP Product | If the response is SD, mention the Module Name which supports the requirement |
| CM/001 | Ability to integrate online  Management Information Reports(MIR) formats with agreed formats and data back up facility for 10 years | E | | |
| CM/002 | Ability for a common online system for all units/regions For formulation of revenue budget | E | | |
| CM/003 | Provision for output of standard formats of balance scorecard scores based on perspectives, Moderated, un moderated.<br>BSC covers the scope at company level, unit/division level and function level. | E | | |
| CM/004 | Ability for On line Unit Input to system & evaluation by concern functions for plant performance calculations | E | | |
| CM/005 | Ability for integration with unit commercial/marketing order position to aid in consolidation and submission of firm and anticipated orders required for current year turnover | E | | |

| S.No. | Particulars | Essential / Desirable | Vendor Response | |
|---|---|---|---|---|
| | | | Offered ERP Product | If the response is SD, mention the Module Name which supports the requirement |
| **Quality Planning** | | | | |
| Qual/ 001 | Ability to create and maintain an online  quality plans | E | | |
| Qual/ 002 | Facility to upload and view all the previous quality plans,   list of deviations retrievable Product-wise / Project wise | E | | |
| Qual/ 003 | Facility for online transmission of quality plan to Customer & subsequent online approval by customer (We shall upload the document in the system. The custmer will have access to view/modify and approve it online.) | E | | |
| Qual/ 004 | Ability to upload and view the tender documents w.r.t quality requirements | D | | |
| Qual/ 005 | Ability to view Product Specs, Drawings, purchase specification, Product Standards, Customer Approved Data Sheets, Product group main assembly(PGMA) List (from respective Engineering ) as inputs for all Products Project-Wise | E | | |
| Qual/ 006 | Quality Planning Activity to figure as an Activity in the Project System (work breakdown structure) | D | | |
| Qual/ 007 | Facility for online transmission of quality plan to concerned department and subsequent online approval by Customer to expedite QP approval | E | | |
| Qual/ 008 | Facility to upload the quality plan (as an attachment) w.r.t the WO / Product (PGMA) in the Project System Network | E | | |
| Qual/ 009 | Ability to revise the quality plan after approval | E | | |
| Qual/ 010 | Facility to upload and online view of log sheets. Log Sheet is used for taking observations of inspection/testing of some item/assembly. | E | | |
| Qual/ 011 | Ability to link Quality Plan to operations and its online capturing/certification/completion in Process sheet /Docket | E | | |
| Qual/ 012 | Online Concurrence & approval of log sheets | E | | |
| Qual/ 013 | Ability to Vendor to Check the purchase order(PO) Status , Billing Status , Vendor Performance Rating , Upload Test Certificates , Booking Inspection Call / Transporter etc  should be available online | E | | |
| Qual/ 014 | Facility for receipt of draft vendor quality plan from the vendor | E | | |
| Qual/ 015 | Ability to store, highlight and document any  Agreed Deviation in the quality plans | E | | |
| **Quality Execution** | | | | |
| Qual/ 016 | Ability for retrieval, filling up and submission of quality management effectiveness review(QMER) report | E | | |
| Qual/ 017 | Ability for online correction and approval of QMER report. Online monthly completion report by concerned agencies . | E | | |
| Qual/ 018 | Facility for auto upload and auto email to unit coordinator | E | | |
| Qual/ 019 | Facility for online concurrence of the QMER report | E | | |
| Qual/ 020 | Ability for online preparation and monitoring of total quality management(TQM) action plans | E | | |
| Qual/ 021 | Facility for online implementation of TQM initiatives.<br>Areas to be covered:- Balanced Score Card (Part A and B), Critical Success Factors,Stake holder surveys,Quality Through Measurement, Root Cause Analysis, Improvement Projects Rewards Scheme, ,Suggestions, Lean,Quality Circle,Over all Equipment Effectiveness, Total Productive Maintenance etc. | E | | |
| Qual/ 022 | Ability to capture the SARs (Site Action Request) / CARs(Commissioning Action Request)/ MDRs (MaterialDiscrepancy Report)/ Customer Complaint at site or customer. Inaddition provision to view CQIR report , Offloading Inspection report and inward inspection by stores | E | | |
| Qual/ 023 | Ability to register the  problems related to Non-Manufacturing Areas at Plant also (Areas other than manufacturing. These may include-- Engineering, Commercial,HR,MM, Finance, Quality, Logistics etc.) | D | | |
| Qual/ 024 | Ability to auto route problems to concerned root cause analysis(RCA) committee | E | | |
| Qual/ 025 | Ability for online format filling and Management Information Reports(MIR) generation | E | | |
| Qual/ 026 | Ability to view the MIRs by corporate quality and other concerned agencies | E | | |
| Qual/ 027 | Ability for on line retrieval for committee wise meeting record | E | | |
| Qual/ 028 | Facility for auto -email generation for distribution of agenda to concerned persons | E | | |

| S.No. | Particulars | Essential / Desirable | Vendor Response | |
|---|---|---|---|---|
| | | | Offered ERP Product | If the response is SD, mention the Module Name which supports the requirement |
| Qual/ 029 | Ability to distribute online minutes of meetings(MOMs) for all the meetings | E | | |
| Qual/ 030 | Search engine functionality on the system to identify repeat problems | E | | |
| Qual/ 031 | Ability to view the list of all the RCA committee members | E | | |
| Qual/ 032 | Ability to link the online RCA system with online customer complaint system, SAR/CAR system, NCR system | E | | |
| Qual/ 033 | Facility for registration of SAR/CAR directly in the system (access to all sites) | E | | |
| Qual/ 034 | Ability to link the SAR/CAR system to Sale order/WO/Dess Number | E | | |
| Qual/ 035 | After the resolution, the experience should be captured in knowledge management | E | | |
| Qual/ 036 | Ability of the system to capture PO/Vendor data in case of vendor related debit involved SARs/ CARs | E | | |
| Qual/ 037 | Ability of the system to despatch the dispositional SAR / CAR automatically to SITE Engineer through email | E | | |
| Qual/ 038 | Ability to link SARs / CARs to Repair work orders to account for the Unit Debits | E | | |
| Qual/ 039 | Ability to identify repeated issues / problems | E | | |
| Qual/ 040 | Provision to Refer a SAR / CAR (including repeated nature) to RCA and capture corrective and Preventive actions | E | | |
| Qual/ 041 | Ability to link online SAR / CAR system with online RCA system | E | | |
| Qual/ 042 | Ability to upload attachments with SAR/CAR | E | | |
| Qual/ 043 | Ability for the system to capture the cost debit attributable to the SAR / CAR from Site | E | | |
| Qual/ 044 | Ability to update the database using relevant defect codes | E | | |
| Qual/ 045 | Ability to link Repair / rework cost to cost of quality | E | | |
| Qual/ 046 | Ability to analyse and generate MIR from system | E | | |
| Qual/ 047 | Ability to provide online feedback and updating of SAR/CAR | E | | |
| Qual/ 048 | Ability to make unitise quality centre database | E | | |
| Qual/ 049 | Ability to provide an online registration form for a quality circle (controlled access) | D | | |
| Qual/ 050 | Ability for online training needs identification in website & Updating of training records in QC website | D | | |
| Qual/ 051 | Ability to generate MIRs between two dates from Quality circle website. Provision of tangent benefit analysis | E | | |
| Qual/ 052 | Ability to generate an online list for mementoes distribution | E | | |
| Qual/ 053 | Ability to link to HR system for identification of workers and supervisors | E | | |
| Qual/ 054 | Details of QC conventions to be made available online | D | | |
| Qual/ 055 | Online availability of unit wise QC case studies | D | | |
| Qual/ 056 | Ability to upload and view standard online templates for QC presentations | D | | |
| Qual/ 057 | Ability to upload and view details of QC tools / techniques and presentations of other companies | D | | |
| Qual/ 058 | Ability for an online training calendar having features for modification of programmes and filling the status of program | D | | |
| Qual/ 059 | Facility for an online launching program, online nomination/registration at CQ and unit level | D | | |
| Qual/ 060 | Ability for online record updating with actual no./name of participants | D | | |
| Qual/ 061 | Facility for online training feedback by participants | D | | |
| Qual/ 062 | Ability for online record keeping and measurement of training effectiveness | D | | |
| Qual/ 063 | Facility for online generation of training completion certificates | D | | |
| Qual/ 064 | Ability to analyse for training man days and other segmented data analysis | D | | |
| Qual/ 065 | Availability of online training modules | D | | |
| Qual/ 066 | Ability to send online feedback to the vendors | E | | |
| Qual/ 067 | Ability of the system to perform non conformance report(NCR) analysis for repeated non-conformances (Material code wise and Vendor wise) | E | | |
| Qual/ 068 | Ability to link the NCR system to RCA(root cause analysis) system | E | | |
| Qual/ 069 | Ability to link the cost of rework/rejection system and online vendor performance rating(VPR) system | E | | |
| Qual/ 070 | Ability to generate the NCRs as a part of inspection process | E | | |

| S.No. | Particulars | Essential / Desirable | Vendor Response | |
|---|---|---|---|---|
| | | | Offered ERP Product | If the response is SD, mention the Module Name which supports the requirement |
| Qual/ 071 | Online system would be configured for processing through concession/ NCR system, by Engineering/ commercial department, of request of shop for short shipment. | E | | |
| Qual/ 072 | Facility for online processing of NCR | E | | |
| Qual/ 073 | Ability to for booking the cost of rework / rejection through the system | E | | |
| Qual/ 074 | Ability to integrate parameters like (cost of extra engg. Work, cost of surplus items shipped to site, damage in stores, damage in transit etc.) for calculating cost of rework / rejection | E | | |
| Qual/ 075 | Ability to get the original manufacturing cost and use the same for calculating the rejected / rework cost | E | | |
| Qual/ 076 | Ability to refer the feedback data to RCA | E | | |
| Qual/ 077 | Ability to carry out a feedback analysis (Item/Material code/Vendor wise) | E | | |
| Qual/ 078 | Facility to make system level and document corrections | E | | |
| Qual/ 079 | Ability to link the  SAR / NCR system with feedback | E | | |
| Qual/ 080 | Ability to capture the test certificate data for incoming goods inspection | E | | |
| Qual/ 081 | Ability to link the third party inspection(TPI) on Vendor related issues for incoming goods inspection | E | | |
| Qual/ 082 | Ability in the system to block the rejected material from being accepted again | E | | |
| Qual/ 083 | Ability to store all the physical inspection reports | E | | |
| Qual/ 084 | Integration of data loggers/ handheld devices with the system | E | | |
| Qual/ 085 | Ability for deduction in payment  to vendor and third party inspection agencies for lapses in inspection  / supply | E | | |
| Qual/ 086 | Ability for automatic deduction in invoice of TPI agency based on the gravity of feedback | E | | |
| Qual/ 087 | Ability to automatically calculate the vendor performance rating based on feedback from receiving agencies | E | | |
| Qual/ 088 | System  based Attestation Certificate linkages to Store receive voucher No & Quantities, and Projects/ Work Orders issued for stores exit inspection | E | | |
| Qual/ 089 | Ability for on-line posting / operation confirmations on Process sheet. Linking of drawing and alert to be generated if already NCR raised in this operation before.Online storing of readings from testing facilities. | E | | |
| Qual/ 090 | Ability of online Generation of packing list/shipping list/ MDCC with digital signature | E | | |
| Qual/ 091 | Online availability of material clearance from shop QC | E | | |
| Qual/ 092 | Ability to upload the test certificates in the system/website | E | | |
| Qual/ 093 | Ability in the system for entering the observation of the agency which is receiving the material e.g. Comments related to packing | E | | |
| Qual/ 094 | Ability to link in process inspection to NCR/RCA System | E | | |
| Qual/ 095 | Ability to link in process inspection to cost of quality System | E | | |
| Qual/ 096 | Ability to generate history dockets | E | | |
| Qual/ 097 | Ability to display the process capabilities e.g. Sigma level of process | D | | |
| Qual/ 098 | Online Availability of relevant quality deficiencies for different components /assemblies | E | | |
| **Quality Certifications** | | | | |
| Qual/ 099 | Ability to have pre-defined masters for actions to perform | D | | |
| Qual/ 100 | Ability to capture action plans and linking to emap. emap is a system for on line performance planning and appraisal. | D | | |
| Qual/ 101 | Ability to capture targets | D | | |
| Qual/ 102 | Online availability must for-- Material certificates/ Lot number (Qnos), IRs,  CTQ dimensions/ log sheet(s), Quality plans | D | | |
| Qual/ 103 | Ability for absorption of audit/test and assessment point | D | | |
| Qual/ 104 | Ability to link to HR module indicating the certifications / qualifications | E | | |
| Qual/ 105 | Ability to generate qualification reports/ covering letters | E | | |
| Qual/ 106 | Ability to create a masters for Non destructive testing(NDT) persons/Welders/Brazers data and alert for medical checkup and recertification. | E | | |
| Qual/ 107 | Ability to generate certificates through the system | E | | |
| Qual/ 108 | Ability to generate an intimation for material sent | D | | |

| S.No. | Particulars | Essential / Desirable | Vendor Response | |
|---|---|---|---|---|
| | | | Offered ERP Product | If the response is SD, mention the Module Name which supports the requirement |
| Qual/ 109 | Ability to generate test reports from the system | E | | |
| Qual/ 110 | Automation for traceability of the material sent for testing | E | | |
| Qual/ 111 | Facility for online registration of test and measuring equipments for calibration | E | | |
| Qual/ 112 | Ability for unique codification of test and measuring equipments which require calibration by a centralized | E | | |
| Qual/ 113 | Facility for user group should have access online to view the list of equipments and calibration status | E | | |
| Qual/ 114 | Facility to make calibration reports to made available online for all the users | E | | |
| Qual/ 115 | Ability for online generation of unique number for equipments | E | | |
| Qual/ 116 | Ability for initial certificates to be uploaded and linked to the equipment | E | | |
| Qual/ 117 | Facility for online Billing including Online intimation to concerned departments | E | | |
| Qual/ 118 | Ability for capturing cash receipt and handing over status | E | | |
| Qual/ 119 | Ability for creation & maintenance of master records for maintenance of equipment | E | | |
| Qual/ 120 | Ability for validation of calibrated equipments and qualification NDT personnel | D | | |
| Qual/ 121 | Ability to generate report formats for NDT Reports, Rework advises and rejection notices | E | | |
| Qual/ 122 | Ability to capture job allocation ion the system | E | | |
| Qual/ 123 | Ability to generate Performance Reporting for the NDTL department | E | | |
| Qual/ 124 | Ability to generate a report for report availability of NDT consumables | E | | |
| Qual/ 125 | Ability to have a one screen view of all the requisitions with facility to set allocation and priority | E | | |
| Qual/ 126 | Ability for online data capturing and calculation of health index | E | | |
| Qual/ 127 | Ability for real time data/ calculation of health index | E | | |
| Qual/ 128 | Ability for auto analysis of data and graphical representation / comparison of data for similar products | E | | |
| Qual/ 129 | Ability for on-line confirmation / Test clearance posting | E | | |
| Qual/ 130 | Ability for online generation of test reports and analysis | E | | |
| Qual/ 131 | Ability for online record keeping and updating | E | | |
| **General** | | | | |
| Qual/ 132 | Ability to put together material receipts with quality, accept / reject inward goods | E | | |
| Qual/ 133 | Ability to capture various quality parameters for inspected material | E | | |
| Qual/ 134 | Ability to capture quality parameters for work in progress(WIP) / Sub-assemblies / Components | E | | |
| Qual/ 135 | Ability to capture quality parameters for finished goods | E | | |
| Qual/ 136 | Ability to capture data from testing machines and to be made available online | E | | |
| Qual/ 137 | Ability to integrate and track quality processes & sub processes with Quality Resources - Inspectors; Schedule hours required for testing / inspection and log actual hours | E | | |
| Qual/ 138 | Support workflow integrating human resource and process : Messaging on events to Initiator, Test Centre Executive, Receipt Inspection | E | | |
| Qual/ 139 | Support messaging of alerts based on defined and customisable parameters; Parameter recorded beyond tolerance etc. | E | | |
| Qual/ 140 | Ability to enter quality results online so that inventory transactions (like issue, receive, sales, transfer) can be restricted before entry of the results | E | | |
| Qual/ 141 | Ability to monitor customer complaints, Site Action Requests (SAR) and resolution | E | | |
| Qual/ 142 | Ability to maintain a database of material characteristics for a wide variety of materials, intermediate products and finished goods. | E | | |
| Qual/ 143 | Ability to create SPC charts i.e. X-MR, X-R, Histogram etc. | E | | |
| Qual/ 144 | Ability to support statistical data analysis in the application software | E | | |
| Qual/ 145 | Ability to facilitate setting parameters for generating exception reports based on any of the standard reports | E | | |
| Qual/ 146 | Ability to view and print results remotely (role based access) from the Lab/Shop floor/Dispatch area | E | | |
| Qual/ 147 | Test results on finished product being printed in the sales dispatch area to accompany sales delivery notes | E | | |
| Qual/ 148 | Test results on raw material samples being viewed and printed by procurement staff to help them with supplier vetting | E | | |

| S.No. | Particulars | Essential / Desirable | Vendor Response | |
|---|---|---|---|---|
| | | | Offered ERP Product | If the response is SD, mention the Module Name which supports the requirement |
| Qual/ 149 | Ability to provide real-time information to prod/engg for corrective actions | E | | |
| Qual/ 150 | Ability to emphasize the areas of concern for corrective and preventive action | E | | |
| Qual/ 151 | Ability to view held up materials code wise/ day wise/ shift wise/ machine wise and information to production/ Production Control | E | | |
| Qual/ 152 | Ability to measure Cost of Quality based on real-time transaction capturing, which is allocated to cost centre/ project | E | | |
| Qual/ 153 | Ability to provides a summarized score for the vendor based on Quality, Cost, Delivery & Service | E | | |
| Qual/ 154 | Ability to send vendor evaluation feedback periodically to strategic supplier via web | E | | |
| Qual/ 155 | Ability to link commercial with Quality Management so that rejected material can be properly accounted for | E | | |
| Qual/ 156 | Ability to create maintenance plan for equipment calibration | E | | |
| Qual/ 157 | Ability to schedule maintenance Plan for equipment calibration | E | | |
| Qual/ 158 | Ability to note product appraisal cost, which will be integrated with direct manufacturing overheads | E | | |
| Qual/ 159 | ntegrated DMS application to capture scanned documents for on-line viewing | E | | |
| Qual/ 160 | Ability for CD/DVD cutting with navigational assistance (dms) | E | | |
| Qual/ 161 | Standards, Specifications, approved drawings to be available in Soft copies / online | E | | |
| Qual/ 162 | Facility for Uploading of documents by vendors | E | | |
| Qual/ 163 | Online workflow based approval wherever required | E | | |
| Qual/ 164 | Ability to capture and store the comments/clarifications and all related communication with the customer | E | | |
| Qual/ 165 | Provision of digital signature on necessary documents | D | | |
| Qual/ 166 | Online availability of quality plans, log sheets, drawings, tender specifications, standard QPs, drawings, customer WOs and approved vendor lists, test procedures/schedules | E | | |
| Qual/ 167 | QC may online clear (i.e. QC has checked items and cleared for despatch. Also, status of COC/ MDCC may be entered (i.e. whether COC handed over or MDCC handed over). QC may hand over copies of COC/ MDCC directly to Central Despatch Group to obviate possibility of their loss while routing through shop personnel. ( to be shifted to Quality). This is regarding on line submissions of documents i.e. COC and MDCC to dispatch section | E | | |

| S.No. | Particulars | Essential / Desirable | Vendor Response | |
|---|---|---|---|---|
| | | | Offered ERP Product | If the response is SD, mention the Module Name which supports the requirement |
| **Export** | | | | |
| Imp/Exp001 | Generation of Customs Invoice from unit/divisions, marketing Systems , Generation of  Packing List from unit/division systems Forwarding letter to CHA capturing shipping bill details and integration with IO commercial invoicing function. | E | | |
| Imp/Exp002 | Ability to capture ARE1 details from units and capturing of customs endorsement scanned copy in the System and reconciliation with export item list for discharge of export obligations. | E | | |
| **Import** | | | | |
| Imp/Exp003 | Ability to link with marketing and unit data bases for identifying the type of benefits in the project (deec/pi/power certificate / excise certificates/ defence certuificate etc) & corresponding export & other obligation. | E | | |
| Imp/Exp004 | Ability To Link / Integrate Databases Of Units For Import / Export Item List In The Certificates To Be Registered With Port Authority | E | | |
| Imp/Exp005 | Maintaing Import License Balances Online | E | | |
| Imp/Exp006 | Docket Generation For Import Customs Clearance | E | | |
| Imp/Exp007 | Vessel Tracking | E | | |
| Imp/Exp008 | Import Customs Clearance Status And Activities Capturing | E | | |
| Imp/Exp009 | Ability to calculate charges like (Customs Duty/Octroi/State Stamp duty etc) as per statutatory provisions applicable from time to time or applicable rate schedules. | E | | |
| Imp/Exp010 | Container Movement And Detention Calculator | E | | |
| Imp/Exp011 | Ability to calculate charges like ( Port Charges like Air warehoiuse charges, ground rent, demmurage etc) as per statutatory provisions applicable from time to time or applicable rate schedules. | E | | |
| Imp/Exp012 | Freight calculation and payments.
There are some additional costs (other than the contracted cost that influence the payments to the transporter or service provider) involved in certain cases based on approvals on case to case basis
All bills are audited and kept | E | | |
| Imp/Exp013 | Moa updation facility | E | | |
| Imp/Exp014 | Moa information to custom clearing agency through mobile devices | D | | |
| Imp/Exp015 | Desk board for problem resolution between units & custom clearing agents | E | | |
| Imp/Exp016 | Despatch advice generation with detailed packing list for items getting despatched from port to site/unit. | E | | |
| Imp/Exp017 | Despatches linked to material receipt at units / site | E | | |
| Imp/Exp018 | Complete bill of entry data linked to units store database for material pricing | E | | |
| Imp/Exp019 | Ability to have a workflow based approach for tracking the movement of DOCKETS/STATUS/DOCUEMNTS from Manufacturing Unit to ROD to CHA to Customs . | E | | |
| Imp/Exp020 | Online availability store in transit (physical and financials).
It would not influence the budget baselines, but will get reflected in the books.
Stores in Transit is an important component of Inventory and monitored ta various leveles. Financial
values do not directly impact the project baselines as far as the SIT is concerned. | E | | |
| Imp/Exp021 | Online material stored in cha godowns. / bhel plots and lying at ports / cwc godawnd | E | | |
| Imp/Exp022 | Ability to dedbit consignment, item wise debit details under different heads to manufacturing units/import agencies | E | | |
| Imp/Exp023 | Provision to accommodate time to time government guidedlines / notification in the system | E | | |
| Imp/Exp024 | Generation of edifact file from database for self filing of bill of entry into customs database. | D | | |
| Imp/Exp025 | Facility to upload docket wise/licence wise scanned copies of various nnds and negotiable documents. | E | | |
| Imp/Exp026 | Monitoring of licensing activities (registration, utilization, expiry/extension & closure) | E | | |
| Imp/Exp027 | Ability to keep a track of the expiry of a licence and alert before the expiry. | E | | |
| Imp/Exp028 | Ability to keep a track of the Bond Closure and raise an alert if the Bond is not closed after the project completion. | E | | |
| Imp/Exp029 | Ability to store and maintain rate schedules under various contracts  (e.g. CHA / Freight/ CFS/ Detention charges) along with PO or as applicable. | E | | |
| Imp/Exp030 | Ability to generate MIRs as per requirements. | E | | |

| S.No. | Particulars | Essential / Desirable | Vendor Response | |
|---|---|---|---|---|
| | | | Offered ERP Product | If the response is SD, mention the Module Name which supports the requirement |
| **Business Development** | | | | |
| Mar/001 | Analysis of sales pattern, including overdue supplies in the past | E | | |
| Mar/002 | Ability for Maintaining customer data – Past Sales, Products and services offered, Product Specification, Credit Status, Expected Requirements, Budget Sanctions, Customer Vendor base etc. | E | | |
| Mar/003 | Track and analyse customer data – Past Sales, Products and services offered, Product Specification, Credit Status, Expected Requirements, Budget Sanctions, Customer Vendor base etc. Delivery Vs Actual Despatches details alogwith reasons/LD. | E | | |
| Mar/004 | Ability to have a collaborative online platform for availability of Business Environment /Market Intelligence / Investment plan of customer. | E | | |
| Mar/005 | In case of any consultation with MUs/RODs, ability to upload applicable formats in the system | E | | |
| Mar/006 | Ability to generate the enquiry number through the system. Ability to generate enquiry regn number for query raised by customer | E | | |
| Mar/007 | Define and maintain the status of an inquiry ( In process, responded, yet to process etc). Different Level of details to be identified for reporting to different agencies (Board/ CMD/ Directors/ MCM Members/ Counter parts in Units/ dealing Marketing Executives) | E | | |
| Mar/008 | Ability to Simulate Pricing details of required Product on the basis of available customer requirement (usually incomplete), based on standard scope and scope variation. Ability to simulate pricing details based on past historical data about product | E | | |
| Mar/009 | Integrate Inquiry / order for estimating time and resource requirements | E | | |
| Mar/010 | Ability to check feasibility based on the delivery date based on the customer input and Shop loading | E | | |
| Mar/011 | Dynamically inquire price / Order based on variations in specifications by Customer with history. Access historical data on failed quotations with reasons, competitor's price and other technical inputs. | E | | |
| Mar/012 | Ability fo online system for request, tracking and payment ( DD/CHQ/ECS etc. ) | E | | |
| Mar/013 | Ability to view the Information for participation/not participating in a tender | E | | |
| Mar/014 | Ability of online view of details for unit coordinators(name, phone number etc.) | E | | |
| **Offer Related** | | | | |
| Mar/015 | Facility for an online CRM system | E | | |
| Mar/016 | Ability to maintain a check list and validate against this list to ensure the inclusion of all necessary document and annexure before the submission of a bid | E | | |
| Mar/017 | Ability to maintain Product prices for bidding with respect to customer, Product specifications, standard spare price list | E | | |
| Mar/018 | Ability for Generation of tender synopsis for internal use in a standard format | E | | |
| Mar/019 | Facility for Customer clarification to be uploaded in the tender directory | E | | |
| Mar/020 | Documents with technical offer should be uploaded in respective area and check listing on master document should be available along with status report and time schedule | E | | |
| Mar/021 | Ability to generate the Project schedule should be through the system | E | | |
| Mar/022 | Ability to make, upload and view checklist for site visit | E | | |
| Mar/023 | Facility for site visit date intimation to all the units | E | | |
| Mar/024 | Ability for units  to provide online inputs For preparation of offer | E | | |
| **Post Bid** | | | | |
| Mar/025 | Ability to GENERATE & revise the scope matrix for all the units /regions/any other agency in case of any change | E | | |
| Mar/026 | Ability to GENERATE & upload CST with appropriate rights | E | | |
| Mar/027 | Ability to Upload  LOI/ LOA/NOA / NTP/PO with appropriate rights | E | | |
| Mar/028 | Ability in the system for analysing lost order and generating a lost order analysis report | E | | |
| Mar/029 | Ability to generate Online  internal order AS PER  standard format | E | | |

| S.No. | Particulars | Essential / Desirable | Vendor Response | |
|---|---|---|---|---|
| | | | Offered ERP Product | If the response is SD, mention the Module Name which supports the requirement |
| Mar/030 | Ability to generate tentative closure date for an IO | D | | |
| Mar/031 | Ability to amend internal order online with a proper workflow | E | | |
| **Collections** | | | | |
| Mar/032 | Ability to Generate invoices BY ASSIGNED AGENCIES for Advance payments and Milestone payments (Payments due after completion of trial run/synchronization/commissioning, Last payment) | E | | |
| Mar/033 | Ability to display and manage due list | E | | |
| Mar/034 | ALL THE PAYMENTS GENERATED SHOULD BE CONSOLIDATED AS PER CONTRACT | E | | |
| **Contract Management** | | | | |
| Mar/035 | Ability to upload approved BBU on the website | E | | |
| Mar/036 | Ability to create a Monthly billing schedule with details of items to be billed | E | | |
| Mar/037 | Ability to generate Invoice based on online status of milestones | E | | |
| Mar/038 | Ability to generate bank guarantee extension based on online details of 1.all invoices (paid and unpaid) submitted to the customer (for refn.) 2. Likely completion date of the project | E | | |
| **Contract Closure** | | | | |
| Mar/039 | Ability for financial reconciliation of the contract to be completed by the respective units/regions | E | | |
| Mar/040 | Ability to highlight the pending issues before contract closure | E | | |
| Mar/041 | Ability for fixing the responsibility for the issues along with a timeframe for issue resolution and the financial implications | E | | |
| Mar/042 | Ability for the marketing executive to be able to advise online for the creation/ vacation of provisions of LD and contractual obligations | E | | |
| Mar/043 | Ability to manage the write offs through the system | E | | |
| **General** | | | | |
| Mar/044 | Ability to participate/ conduct the e tendering proces | D | | |
| Mar/045 | Facility for a Enquiries made / tenders floated /previous historic data related to a tender for various projects/project schedules/MOMs | E | | |
| Mar/046 | Milestone based alerts /receipts for all the successfully completed activities | E | | |
| Mar/047 | Online approvals with appropriate workflow | E | | |
| Mar/048 | Inter departments online intimations for agreed activities | E | | |
| Mar/049 | All the correspondence with the customer/ between units/ regions should be captured in the system | E | | |
| Mar/050 | Online complaint management system linked to ERP Processing of Complaint Track the Support Track the Resolution of Customer Complaint Billing of Services for Advance payments and milestone payments only Billing of Spares/R&M Projects for Advance payments and milestone payments only. | E | | |
| Mar/051 | Ability to provide online service manuals to client & service representative | E | | |
| Mar/052 | Ability to communicate spare part availability & visibility to marketing & service centers on line  -- e commerce | E | | |
| Mar/053 | Ability to track unresolved service requests | E | | |
| Mar/054 | Status of Commissioned Projects yet to be closed along with details of pending jobs/ supplies; o/s BGs and O/s payments as per reconciliation with Customers | E | | |
| Mar/055 | Ability to Define and Manage configuration of complex configurable / Engineer-to-Order products | D | | |
| Mar/056 | Ability to Suggest and integrate accessories required along with the order line items | D | | |
| Mar/057 | Ability to Create and integrate Critical Bill of Material with the order entry for item selection / reference | D | | |
| Mar/058 | Ability to Configure products – pick materials based on given specification, recommend possible add-on components for complete functional ability of the product; | D | | |
| Mar/059 | Ability toMaintain a database of details of product configuration along with its capabilities, and configuration based on customer requirements. | E | | |
| Mar/060 | Ability to Pick a suitable product configuration from the database and suggest to the Customer. | E | | |

| S.No. | Particulars | Essential / Desirable | Vendor Response | |
|---|---|---|---|---|
| | | | Offered ERP Product | If the response is SD, mention the Module Name which supports the requirement |
| Mar/061 | Ability to Manage export customers – define export product portfolio, Country specific products, Perform Value analysis of products for a customer | E | | |
| Mar/062 | Ability to Segment customers – Negative list of countries / High risk countries | E | | |
| Mar/063 | Ability to Maintain pricing for each Product / material with history. To price products that are still under development where estimates are used in lieu of actual costs. To update pricing data when actual costs are available and maintain record of such changes. | E | | |
| Mar/064 | Ability to Estimate the Basic Manufacturing Cost with respect to a given Condition of product Mix, Batch Quanity, Delivery Date etc. | E | | |
| Mar/065 | Ability To store the estimate details for future with full details of assumptions, Customer enquiry, conditions, Receipt of Order, final valus of Quotes and Order Values and facility to Archieve / Compare at a later stage with the then conditions. | E | | |
| Mar/066 | Ability to Calculate Maximum Selling Price and Margins | E | | |
| Mar/067 | Ability to check the historical prices for orders lost / won earlier along with full details like customer name, company name who won along with quote price | E | | |
| Mar/068 | System for taking continuous feedback from customers for supplied products /projects and an online database to be maintained for the same | E | | |
| Mar/069 | Ability to Simulate the worst and best possible dates of delivery of the product and the corresponding impact on costs. | E | | |
| Mar/070 | Ability to Compare the previous history on the Delivery of the Product. | E | | |
| Mar/071 | Ability to provide proactive methods for payment collections | D | | |
| **Reporting** | | | | |
| Mar/072 | Ability to generate the Closing report (Order win/loss report) | E | | |
| Mar/073 | Ability to generate the Cash collection Monitoring Report | E | | |
| Mar/074 | Ability to generate the Withheld/outstanding monitoring report | E | | |
| Mar/075 | Ability to generate the Business Environment Report | E | | |
| Mar/076 | Ability to generate the Budgeting report format | E | | |
| Mar/077 | Ability to generate the Withheld/outstanding monitoring report | E | | |
| Mar/078 | Ability to generate the Report on provisions on LD,PRC, Contractual obligation | E | | |
| Mar/079 | Ability to generate the Daily report | E | | |
| Mar/080 | Ability to generate the Monthly report | E | | |
| Mar/081 | Ability to generate the ABCDE report | E | | |
| Mar/082 | Ability to generate the Market share calculation report | E | | |
| Mar/083 | Ability to generate theMCM report | E | | |

| S.No. | Particulars | Essential / Desirable | Vendor Response | |
|---|---|---|---|---|
| | | | Offered ERP Product | If the response is SD, mention the Module Name which supports the requirement |
| **1. COMMERCIAL** | | | | |
| **1.1 Commercial Pre order** | | | | |
| EC&SaS/001 | Availability of a System to study  business environment, collect & Store information regarding tenders/enquiries being floated/purchase of tender documents | E | | |
| EC&SaS/002 | Ability to Upload Tendering Spec. | E | | |
| EC&SaS/003 | Ability to upload Information generated in Tender Review Meeting.( Inter Unit Tender Coordination Meeting) | E | | |
| EC&SaS/004 | Storage of  finalised scope matrix in the system such that all related executing departments can view it as per requirement (System Recording needed with standard parameters) | E | | |
| EC&SaS/005 | Pre bid query preparation in consultation with PMX/ TSX, Visibility of pre bid queries in common platform. and auto ack. thru system by concerned agency | E | | |
| EC&SaS/006 | Ability of Collaboration between concerned departments for pre bid tie up activities and upload of generated information. | E | | |
| EC&SaS/007 | Facility to upload customer replies to pre bid queries and ensure availability with system. | E | | |
| EC&SaS/008 | Facility to create and upload Tender Information sheet. | E | | |
| EC&SaS/009 | Facility to upload clarification sought from customer\MOMs, Deviation list, generation of acknowledgement by system and ensure availability with system. | E | | |
| EC&SaS/010 | System to contain all correspondence/ interface docs. • System to contain all offers with reference to particular clause of tender. | E | | |
| EC&SaS/011 | Availability of Work flow relation (interfaces with other functions like PMX, TSX, Quality etc) (Improvement in Web Page); interface with MU / PESD / PEM / Proposal group  to SCT, CML-SCT, Interface to Finance. For inter function information exchange.

Project Management Services(PMX), Technical Services (TSX), Manufacturing Units (MUs), Project Engineering & Management (PEM), Sub-Contracting (SCT), Commercial Sub-Contracting (CML-SCT). All departments work in tandem during project execution so that there should be .an Work Flow . Information generated by one department should be available to other for neccessary action. | E | | |
| EC&SaS/012 | Ability to Vendor to Check the purchase order(PO) Status , Billing Status , Vendor Performance Rating , Upload Test Certificates , Booking Inspection Call / Transporter etc  should be available online | D | | |
| EC&SaS/013 | Work Flow based mechanism for forwarding of Civil /Mechanical/electrical details to PMX / Civil department for subcontracting estimate (with authorization control) | E | | |
| EC&SaS/014 | Facility to prepare & upload construction power/water/storage/tools & plans/ Man power and other requirements in consultation with PMX/TSX/MSX/FEX | E | | |
| EC&SaS/015 | Facility to create and upload erection write up & list of deviations. Erection write-up is a consolidated document providing info about erection strategy. System should provide screen to create the document and upload scanned copies if reqd. | E | | |
| EC&SaS/016 | Facility for Estimation of Job & record keeping with access control msm. | E | | |
| EC&SaS/017 | Online retrieval of Tax liability  for particular project | D | | |
| EC&SaS/018 | Work flow for Estimation approval. (interfaces with concerned depts. Including finance & Head of Regions | E | | |
| EC&SaS/019 | Facility for submission of Technical offer and  price estimate  to business sector/unit/customer as per schedule | D | | |
| EC&SaS/020 | Availability of Resolutions on Techincal Queries as well as MOMs with customer. | E | | |
| EC&SaS/021 | Version control mechanism for Tech. Offers. | D | | |
| EC&SaS/022 |  Alerts on schedule date to be provided (DMS to contain all correspondence regarding the particular project). | D | | |

| S.No. | Particulars | Essential / Desirable | Vendor Response | |
|---|---|---|---|---|
| | | | Offered ERP Product | If the response is SD, mention the Module Name which supports the requirement |
| EC&SaS/023 | DMS to have a feature of Project Archive for successful as well as unsuccessful Tenders. | E | | |
| **1.2 Commercial Post order** | | | | |
| EC&SaS/024 | Online Availability of LOI/Internal Order and Contract Documents, along with Offer submitted for comparision activities and availability of CPC & CCN numbers. | E | | |
| EC&SaS/025 | Interface with PS-MKTG, IS/IO/Corp Finance/ Regional finance / commercial and controlled (online) availability of Allocation Details. Workflow based execution of orders for document fow and data exchange.(PS-Marketing ->Customer(offer)->Customer ->PS-Marketing(Order)-> Manufacturing Units/Region/TBG(Allocartion). MU-For Supply; TBG ->Erection & Commissining,Civil, Region -> BOP Supply,Civil,Erection&Commissioning. Power Sector Marketing (PS-MKTG), International Operations (IO), Industtrial Sector (IS), Interface for workflow based execution of orders. | E | | |
| EC&SaS/026 | Controlled (online) availability of Advance Details and system based recording of Cash Flow. | E | | |
| EC&SaS/027 | Facility to furnish comments & follow up with central commercial agency (PS-MKTNG/ IS -MKTNG etc.) in case of any difference between order received & offer submitted, obtain clarification through concerned commercial centre | E | | |
| EC&SaS/028 | Online creation of CIS. Contract Information Sheet (CIS) is a summary of Contract that contains info like, scope summary, schedule, zero date , Customer Inputs etc. It is basically a summary report of the contract details. | E | | |
| EC&SaS/029 | Work flow relation in DMS on receipt of customer order  (no manual distribution of W.O. or contract documents) | E | | |
| EC&SaS/030 | Facility to Prepare and issue Working estimate | E | | |
| EC&SaS/031 | System to contain the Billing Schedules prior & after the approval with work flow based approval mechanism. | E | | |
| EC&SaS/032 | Availability of  scope and allocation for execution of BOP (Balance of plant packages) with the system. | E | | |
| EC&SaS/033 | Online availability of LOA from PEM for BOP packages for conversion into detailed Pos. Project Engineering & Management (PEM) creates LOA for Balance of Plant (BOP) items with vendors. Then in reference to these LOA actual Purchase Orders (Pos) are placed on the Vendors by Power Sector Regions. | E | | |
| EC&SaS/034 | Arranging approval of billing schedule from customer & distribution(Online) to SITE , PMX etc (Preparation by PMX/ Commercial) | E | | |
| EC&SaS/035 | Interface with Insurace Function (Corporate Insurance Cell) | E | | |
| EC&SaS/036 | Faciliy for Insurance Claim Mgmt. Interface with Insurace Process 7.1.5 | E | | |
| EC&SaS/037 | Ability of Collaboration between  departments (internal & External) for Project activities and upload of generated information eventually leading to creation of Project Archive. | E | | |
| EC&SaS/038 | Ability to maintain records of contract closing/ extension( as applicable) in the system | E | | |
| EC&SaS/039 | Availability of Document Management System to contain all approved documents | E | | |
| EC&SaS/040 | System Repository to upload information  regarding  customer meets, customer satisfaction surveys, press meets and advertisements (pre & Post Event) | D | | |
| **1.3  Post Order Activities** - cash monitoring & follow up | | | | |
| EC&SaS/041 | Availability of Customer Billing System. | E | | |
| EC&SaS/042 | Online Coordination with site for submission of bills to customer HQ ( mainly LC bills for few sites) with facility to generate Exception Report. | E | | |
| EC&SaS/043 | Online record of payments made by customer | E | | |
| EC&SaS/044 | Online Availability of Cash Collection Budget information from Finance Dept. Interface with Fianance. | E | | |

| S.No. | Particulars | Essential / Desirable | Vendor Response | |
|---|---|---|---|---|
| | | | Offered ERP Product | If the response is SD, mention the Module Name which supports the requirement |
| EC&SaS/045 | Online facility to prepare Project wise Target Outstanding Liquidation Plan. Online system of monitoring of status of verification (verified/under verification/withheld) of bills and their preriodical liquidation plan vis a vis achivement | D | | |
| EC&SaS/046 | Online Monitoring of Cash Collection and Site Follow up as per plan. | D | | |
| EC&SaS/047 | Online Consolidation of Inputs for MCM reports. Interface with PMX, Site Execution, Planning & Monitoring Function. | E | | |
| EC&SaS/048 | Online availability of system generated Cash Collection Report (Monthwise) | E | | |
| EC&SaS/049 | Online initiation & Record keeping of write -off note  for long outstanding debtors (inputs from business sectors) | D | | |
| EC&SaS/050 | Co-ordination with site finance  for raising Differential billing. Inerface with Finance System. | E | | |
| EC&SaS/051 | Co-ordination with Site & Region Finance for raising Milestone billing  & Final billing | E | | |
| **2. PROJECT MANAGEMENT** | | | | |
| **2.1 Project Management Services** | | | | |
| EC&SaS/052 | Online Availability of LOI/Internal Order and Contract Documents. | E | | |
| EC&SaS/053 | Online Availability of CIS. | E | | |
| EC&SaS/054 | Online Availability of Scope Matrix. Scope matrix is a document which defines scope of BHEL depts., personels in a project as well as which responsibility resides with whom. System should provide facility for creation and upload of scope matix. It has to be a workflow based system to facilitate online submission and approval of matrix and availability of final document for perusal. | E | | |
| EC&SaS/055 | Online Availability of Allocation Details (Price). Allocation details is the share of contract value between various BHEL Manufacturing Units and PS Region designated for Erection and Commissining and is decided by marketing. | E | | |
| EC&SaS/056 | Online Availability of L-1 Network, Interface with CPMG. | E | | |
| EC&SaS/057 | Online availability of Final broad sub-contract packaging philosophy. After receipt of internal Order from Marketing, scope will be analyzed to match schedule of Erection and other Site conditions and Sub contracting Packaging philosophy (clubbing of subcontracts) shall be finalized for ordering and same can be made available online subsequently. | E | | |
| EC&SaS/058 | Finalization & upload of AS-7 format with Finance with possible expenditures of project execution | E | | |
| EC&SaS/059 | Facility to work out quantum of enabling Work required for the project and upload it to the system. Quantum of enabling work is calculated considering the condition of erection site ( e.g. Infrastructure) before commencement of erection. System should assist during estimation by enlisting and asking inputs for major categories of enabling work. Once calculated the document should be available with the system. | D | | |
| EC&SaS/060 | Facility to prepare and upload preliminary estimate for the enabling Work planned. | E | | |
| EC&SaS/061 | work Flow based approval mechanism for approval of working Estimate and forwarding to Corporate Finance. Interface with Fiance and FEX. | E | | |
| EC&SaS/062 | Online Facility for creation and upload of Technical specification of Enabling work Planned. | E | | |
| EC&SaS/063 | Online availability of Work scope that can be further utilized by Estimation for making Detailed Estimate. | E | | |
| EC&SaS/064 | Availability of Work flow Based mechanism for Preparation and Finalization of Pre Qualification Criteria. Interface with Fianance. Pre qualification creiteria is a document which has to be prepared by Indentor and vetted by Finance and vendors must qualify it for participation in the bidding Process. Online workflow based system for to & fro movement of the document till approval. | E | | |
| EC&SaS/065 | Placing indent online.Interface with Purchase & SCT Function. | E | | |

| S.No. | Particulars | Essential / Desirable | Vendor Response | |
|---|---|---|---|---|
| | | | Offered ERP Product | If the response is SD, mention the Module Name which supports the requirement |
| EC&SaS/066 | Interface with FEX for Capital Budget Sanctioning for Order Placement.<br>Interface with Facility Engioneering Dept. which keeps account of all T&Ps, before placing an orer for new T&P Facility Engg. Services (FEX) is a department which provides Tools & Plants requrired to carry out the Erection & Commisining Processes. New purchases and contracts are made as per requriement, for which budgetary aspects are to be considered. This calls for an interface requriement. | E | | |
| EC&SaS/067 | Interface with Qulaity Dept. For clearing of QPS. | E | | |
| EC&SaS/068 | Interface with Site Material Mgmt System for Issue of MDCC for Enabling packages. | E | | |
| EC&SaS/069 | Ability to Upload details of Execution of Site Enabling pkgs and commencemnet of Regular Erection work. | E | | |
| EC&SaS/070 | Interface with Finance, Insurance functions for Marine Cum Erection Insurace Coverage. | E | | |
| EC&SaS/071 | Interface with PUR & SCT dept for raising indent for arranging security at site. | E | | |
| EC&SaS/072 | Facility to create Organization chart and online availability to other depts. (HR) with deployment schedule. | D | | |
| EC&SaS/073 | Facility to upload Major T&P requirement schedule with the system (Asset Mgmt System) . Interface with FEX. | E | | |
| EC&SaS/074 | Ability to create AS-7 format using expenditure details of project execution available with the system. Interface with finance. | E | | |
| EC&SaS/075 | Availability of year-wise financial turnover details of project in the system. | D | | |
| EC&SaS/076 | Interface with CPMG for availability of L2 schedule of supply of material from MU.<br>L2 shcdule of manufacturing from manufacturing Untis will be made available by CPMG. Interface reqd. to access this data. | D | | |
| EC&SaS/077 | Availability of L2 network of Erection & commissioning. Interface with Planning & Monitoring Function. | E | | |
| EC&SaS/078 | Interface with Pur & SCT function. | E | | |
| EC&SaS/079 | Ability of collaboration to upload project specific inputs from respective Mus/PEM and online preparation of Erection Tender specs. | E | | |
| EC&SaS/080 | Online facility for creation & finalization of pre-qualification criteria of erection tenders in consultation with finance. | E | | |
| EC&SaS/081 | Work flow based facility to finalise special condition of contract\BOQ that can further be utilized by Estimation cell to prepare estimate. | E | | |
| EC&SaS/082 | Online availability of Preliminary Erection estimate. Interface with Pur & SCT function. | E | | |
| EC&SaS/083 | Ability of collaboration to facilitate scrutiny of Tenders and upload clarification of issues raised by Vendors. | D | | |
| EC&SaS/084 | Ability to monitor customer approvals. | E | | |
| EC&SaS/085 | Ability to finalise mobilization plan as per site requirement with communication details to concerned vendors. | E | | |
| EC&SaS/086 | Facility for creation and upload of required material list to be procured by Purchase Dept as per contract scope. | E | | |
| EC&SaS/087 | Ability to include technical specifications of required material in accord with site. | E | | |
| EC&SaS/088 | Ability of collaboration with Purcahse Dept. to finalise bidders. | E | | |
| EC&SaS/089 | Ability to monitor & provide despatch clearance. | E | | |
| EC&SaS/090 | Interface with PEM to obtain Techincal Specs for BOP packages.<br>Techincal specifications of BOP Supply packages are worked out by PEM. As per these specifications BOP orders are placed by Power Sector Regions. Facility required for Creation and editing of document through system which can further be reviewed by various regions. | E | | |

| S.No. | Particulars | Essential / Desirable | Vendor Response | |
|---|---|---|---|---|
| | | | Offered ERP Product | If the response is SD, mention the Module Name which supports the requirement |
| EC&SaS/091 | Ability of collaboration to finalise price schedule. Interface with PEM/SCT. Project Engineering & Mangement (PEM) provides technical specifications for various erection items purchased by BHEL. Sub Contracting Dept (SCT) who handles all the Service Contracts. Interface is required with both the Depts to share requried information for further action. | E | | |
| EC&SaS/092 | Interface with PEM to obtain price estimate for raising purchase indent. | E | | |
| EC&SaS/093 | work flow based approval mechanism with facility of collaboration at various stages, till raising of P.O.s. | E | | |
| EC&SaS/094 | Interface with PMX (for customer inspection) and quality (for BHEL inspection) (PMX= Project Management Services) Inspection Calls are generated on the basis of Erection milestones as well as receipt of cetain material.Customer or third party inspection is carried out during execution of milestone or receipt of certain material. Inspection Results can be captured in ERP Quality System. | D | | |
| EC&SaS/095 | Online system to issue\monitor MDCC (Cutomer\BHEL) on the basis of Inspection record\Result. | E | | |
| EC&SaS/096 | Online availability of Engineering\Qly\other documents related to project. (Requirement of DMS) | E | | |
| EC&SaS/097 | Online Approval Monitoring System. | E | | |
| EC&SaS/098 | System assisted analysis of site requriements of T&Ps and interface to SCT for raising Indents for T&P Deployment. | D | | |
| EC&SaS/099 | Interface with SCT to raise indent for inter site T&P Transportation. Interface with subContracting dept. for raising contract for intersite transportaiojn of material & T&Ps. | E | | |
| EC&SaS/100 | Ability of collaboration with FEX to finalise Crane dismantling & transportation vendor. | E | | |
| EC&SaS/101 | Ability to upload critical boundary condition of operation and duration of Externally hired cranes. Interface with SCT to raise indent for Hired Cranes. | D | | |
| EC&SaS/102 | Interface with Planning & Monitoring Function to refer Site issues for Pre-MCM agenda points. At site, during Erection, there are many issues related to Manpower, Mateiral & Machines that require timely and prioritzed addressing to achieve Targets. These issues are consolidated to create Pre-Management Committee Meeting (Pre-MCM) Agenda Points. Currently systems are being established for Planning & Monitoring. Till date both the functions are performed manually | E | | |
| EC&SaS/103 | Ability of collaboration for liquidation of outstanding engineering issues. ( Online SAR/CAR mgmt. System) | E | | |
| EC&SaS/104 | Facility to upload MOMs. | D | | |
| EC&SaS/105 | Ability to facilitate collaboration for liquidation of outstanding contractual issues. | E | | |
| EC&SaS/106 | Ability of Contract extension of Supply/Service Contract. | E | | |
| EC&SaS/107 | Online Proposal Tracking system. | E | | |
| EC&SaS/108 | Ability of collaboration for closing contract with customer. Interface with Reconciliation & Contract Closing (Function-11) | E | | |
| EC&SaS/109 | Ability to contain Approved MQP, BBU, data sheet and drawings, sub vendor list and PO. (rqmt of DMS) | E | | |
| **3. PURCHASE & SUB-CONTRACTING** | | | | |
| **3.1 Awarding Through Tendering** | | | | |
| EC&SaS/110 | Facility of online creation & upload of Indent from various depts. | E | | |
| EC&SaS/111 | Auto Registration of Indent by System | E | | |
| EC&SaS/112 | Facility for online finalization of SCC as per available Corporate MM/Finance guidelines, that will be available with the system. Special Conditions of Contract (SCC) should be available online for review and should be in sync with Corporate/Finance/MM guidelines for finalization to facilitate tendering. | D | | |

| S.No. | Particulars | Essential / Desirable | Vendor Response | |
|---|---|---|---|---|
| | | | Offered ERP Product | If the response is SD, mention the Module Name which supports the requirement |
| EC&SaS/113 | Ability to generate intimation of proposal floating. Availability of uploading facility of records regarding EMD, Floating time, Advertisements, and tender committee details. Intimation & alerts to concerned departments (IT Dept etc) | E | | |
| EC&SaS/114 | Ability to send enquiries to approved bidders. | D | | |
| EC&SaS/115 | online receipt of queries from prospective bidders. | D | | |
| EC&SaS/116 | Ability to genrate Tender Change Notice (TCN) online. Online availability of Tech. Condn of Contract (TCC) | E | | |
| EC&SaS/117 | Online submission of Tender by bidders - 2 part (Techno-commercial & Price part) | D | | |
| EC&SaS/118 | Online Opening of techno-commercial bid | D | | |
| EC&SaS/119 | Ability of collaboration for Initial scrutiny of credentials / documents submitted by bidders to qualify Pre-q criteria by tender committee for both financial & technical criteria (in case of OT) | D | | |
| EC&SaS/120 | Ability of collaboration for Techincal & Commercial scrutiny of Tender | D | | |
| EC&SaS/121 | Online availability of techincal recommendations by Indenter. | D | | |
| EC&SaS/122 | Provision for upload of offer details once the bidders are commercially brought at par on obtaining clarification / through discussion / MOM etc | E | | |
| EC&SaS/123 | Online Price bid opening proposal / Proposal for conducting Reverse Auction | E | | |
| EC&SaS/124 | Ability to upload results of 'Price bids / Reverse Auction conducted after intimating all qualified bidders. | E | | |
| EC&SaS/125 | Ability of upload recommendations for award after/during Negotiation by committee. | E | | |
| EC&SaS/126 | Approval of award in the system thru Workflow and upload in system | E | | |
| EC&SaS/127 | Online generation & Issue of LOI/ WO/ PO | E | | |
| EC&SaS/128 | Online BG monitoring system | E | | |
| EC&SaS/129 | System based monitroing of deliverables/Start of Work with alerts and exception report facility. | D | | |
| EC&SaS/130 | Ability of collaboration for resolution of contract related issues post award. | E | | |
| EC&SaS/131 | Online performance feedback system to obtain feedbacks from sites. | D | | |
| EC&SaS/132 | Online Vendor Evaluation System. | E | | |
| **3.2 Purchase through MOU** | | | | |
| EC&SaS/133 | Facility to upload MOU and online availability of the same. | D | | |
| EC&SaS/134 | Ability to Generate Tender Enquiry to respective BSO SAIL/IOCL office | D | | |
| EC&SaS/135 | Ability to initiate award of Proposal based on offer received and MOU terms. | D | | |
| EC&SaS/136 | Ability to generate PO | D | | |
| EC&SaS/137 | Online monitoring of supply. | D | | |
| **3.3 Reconciliation with SAIL** | | | | |
| EC&SaS/138 | Ability to upload acanned copies of Invoices after delivery at site. | D | | |
| EC&SaS/139 | Reciept of SRV from site. Interface with Site Material Mgmt Process (Function 7.1) | D | | |
| EC&SaS/140 | Online & automatic reconciliation of material received (customizable periodicity) and preparation of (bi-monthly) Statement of reconciliation. | D | | |
| EC&SaS/141 | Interface with Finance system for checking. | D | | |
| EC&SaS/142 | Facility to upload relevant documents like: JSS (Joint reconciliation signed by BHEL:FIN & SAIL:FIN); interaction with BHEL; NODAL AGENCY for TOD settlement | D | | |
| **3.4 Spot Purchase** | | | | |
| EC&SaS/142 | Facility of online creation & upload of Indent from various depts. | E | | |
| EC&SaS/143 | Facility for creation of Spot Purchase Committee. | E | | |
| EC&SaS/144 | Facility to upload scanned copies of collected Spot quotations. | D | | |
| EC&SaS/145 | Identification & ordering to L1 Bidder. | E | | |
| EC&SaS/146 | Online delivery monitoring | D | | |
| EC&SaS/147 | Facility for Payment approval & interface with finance for Payment Processing | E | | |
| **3.5 Processing Vendor Bills** | | | | |

| S.No. | Particulars | Essential / Desirable | Vendor Response | |
|---|---|---|---|---|
| | | | Offered ERP Product | If the response is SD, mention the Module Name which supports the requirement |
| EC&SaS/148 | Facility to upload bill by vendor | E | | |
| EC&SaS/149 | System assisted checking of bills. | E | | |
| EC&SaS/150 | Facility to upload SRVs from site/ Certification by HQ,  departments for receipt or job done | E | | |
| EC&SaS/151 | Facility for Payment approval & interface with finance for Processing | E | | |
| **4 Facility Engineering (& MSX)** | | | | |
| **4.1 Resource (T & Ps) Planning and Management** | | | | |
| **4.1.1 Function: T & P Deployment** | | | | |
| **4.1.1.1 New T&P Procurement** | | | | |
| EC&SaS/152 | Requirement of an online Asset Mgmt System. | E | | |
| EC&SaS/153 | Identification of requirement of T&P | D | | |
| EC&SaS/154 | Interface with PUR & SCT for creation  of Indent. | E | | |
| EC&SaS/155 | Inspection Alerts & upload of Inspection reports. Online creation of Dispatch clearance. | E | | |
| EC&SaS/156 | Identification of Transport Rqmts and upload of detials to system. Interface with PUR & SCT to raise indent for transportation. | E | | |
| EC&SaS/157 | Interface with PUR & SCT for creation  of Indent. | E | | |
| EC&SaS/158 | Interface with Insurance for inclusion of item in SCP Insurance policy. | E | | |
| EC&SaS/159 | System assisted monitoring of material from despatch till receipt at site/office. | D | | |
| EC&SaS/160 | Facility to create/upload commissioning reports and protocols | E | | |
| **4.1.1.2 T&P Diversion** | | | | |
| EC&SaS/161 | Identification of requirement and online raising of Diversion Advice for deployment through intra-region/ inter-region diversion | E | | |
| EC&SaS/162 | Ability of collaboration for estimation of job of Transportation and Assembly/Dismantling | D | | |
| EC&SaS/163 | Interface with PUR & SCT for creation  of Indent. | E | | |
| EC&SaS/164 | System assisted monitoring of material from despatch till receipt/Installation/Commissioning at site/office. | D | | |
| EC&SaS/165 | In case of BHEL T&P, online acknowledgement of ISTV and updating info to FEX/Finance. | E | | |
| **4.1.1.3 Hiring of Crane** | | | | |
| EC&SaS/166 | Requirement of an online Asset Mgmt System. | E | | |
| EC&SaS/167 | Requirement Identification & cost estimate. | D | | |
| EC&SaS/168 | Raise Indent on SCT with PQ and SCC. | E | | |
| EC&SaS/169 | Interface with PUR & SCT for creation  of Indent. | E | | |
| **4.1.2  T & P Maintenance** | | | | |
| **4.1.2.1 Preventive Maintenance** | | | | |
| EC&SaS/170 | Ability to record utilization of crane, cost of running, downtime etc. should be available for future use (to be taken as a part of asset management) . Identification of Maintenance Requirement & creation of maintenance Plan. | E | | |
| EC&SaS/171 | Interface with PUR & SCT for creation  of Indent. | E | | |
| **4.1.2.2 Purchase of Spares** | | | | |
| EC&SaS/172 | Online system to analyse and identify periodic spares requirement. Recording Spare requriement with the system. | E | | |
| EC&SaS/173 | Interface with PUR & SCT for creation  of Indent. | E | | |
| **4.1.2.3 Periodic fitness of cranes** | | | | |
| EC&SaS/174 | Requirement of an online Asset Mgmt System. Auto alerts / Trigger from system for information on Fitness of crane | E | | |
| EC&SaS/175 | Facility to Record Load test Reults and other heath details. | E | | |
| EC&SaS/176 | Automatic intimation for Fitness testing. | D | | |
| EC&SaS/177 | Facility to upload test results. | E | | |
| **4.1.2.4 Break down Maintenance** | | | | |

| S.No. | Particulars | Essential / Desirable | Vendor Response | |
|---|---|---|---|---|
| | | | Offered ERP Product | If the response is SD, mention the Module Name which supports the requirement |
| EC&SaS/178 | Online Upload of Break Down Info; Breakdown Analysis Report. Online Maintenance Plan. | D | | |
| EC&SaS/179 | Raise indent with Purchase Dept. for the fitment and supply of spares | E | | |
| EC&SaS/180 | Interface with PUR & SCT for creation of Indent. | E | | |
| **4.2 Customer Project Related Capital Investment Budget (CPRCIB)** | | | | |
| **4.2.1 Tools &Plants** | | | | |
| EC&SaS/181 | Ability of collaboration for Analysis for requirement of T & P with respect to ongoing approved projects and anticipated forthcoming projects | E | | |
| EC&SaS/182 | Online Facility for upload of consolidated proposal for all T&Ps costing less than 50 lakhs each for CPRCI Budget approval (Work Flow Rqmt.) | E | | |
| EC&SaS/183 | Online Facility for upload of separte proposal for all T&Ps costing more than 50 lakhs each for CPRCI Budget approval (Work Flow Rqmt.) | E | | |
| EC&SaS/184 | Facility for preparation & approval (PS-MSX) of proposal for Enabling Works for ongoing/new Projects including Porta Cabins (Work Flow Rqmt.) | E | | |
| EC&SaS/185 | Facility for upload and resolution of queries raised | D | | |
| **4.2.2 Budget Monitoring** | | | | |
| EC&SaS/186 | Ability to generate data for MCM/Other report. | E | | |
| EC&SaS/187 | Online T&P Status Monitoring (Asset Mgmt System) | E | | |
| EC&SaS/188 | Facility to create annual deployment plan. | E | | |
| **4.3 Disposal of T&P** | | | | |
| EC&SaS/189 | Facility for creation of Disposal committee. | E | | |
| EC&SaS/190 | System assisted identification of T&P for disposal. | E | | |
| EC&SaS/191 | Update of reserve price. | E | | |
| EC&SaS/192 | Facility to upload communications held with M/S MSTC as per corporate standing order. | E | | |
| EC&SaS/193 | Facility to update Material Hand over information with the system. | E | | |
| ***5 Finance & Accounts Department*** | | | | |
| **5.1 General Ledger** | | | | |
| **5.1.1 Claims Lodged by individuals** | | | | |
| EC&SaS/194 | Facility for online Submission of Employee's Claim | E | | |
| EC&SaS/195 | Facility for online Routing of claim to the Controlling Officer | E | | |
| EC&SaS/196 | Interface with SAP HR (for Personnel Details) and further submission to Finance Dept. | E | | |
| EC&SaS/197 | Cehcking of claims and ability to modify in case of requriement. | E | | |
| EC&SaS/198 | Auto identification of GL code and booking of claim. Further forwarding for creation of DAS ( debit advice slip) (Work flo requirement) and forwarding to cash section for disbursement. | E | | |
| EC&SaS/199 | Ability to issue payment (Cheque/RTGS)/withdrawal by cash section and update of withdrawal entry. | E | | |
| EC&SaS/200 | Ability to create reports as per requriement. | E | | |
| EC&SaS/201 | system assisted inter unit reconciliation. | D | | |
| EC&SaS/202 | updated repository for circulars and notifications - rules and eligibility. Repository capable of maintaining updated circulars & notifications with version control and search facility. | D | | |
| **5.1.2 Vendor Claims** | | | | |
| EC&SaS/203 | Interface with Contractor/Vendor billing system With Audit Trial Facility. | E | | |
| EC&SaS/204 | Online Receipt of Claim from Contractor/Vendor billing system | E | | |
| EC&SaS/205 | Interface With BG Check, Tax System | E | | |
| EC&SaS/206 | Cehcking of claims and ability to modify in case of requriement. | E | | |
| EC&SaS/207 | Auto identification of GL code and booking of claim. Further forwarding for creation of DAS ( debit advice slip) (Work flo requirement) and forwarding to cash section for disbursement. | E | | |

| S.No. | Particulars | Essential / Desirable | Vendor Response | |
|---|---|---|---|---|
| | | | Offered ERP Product | If the response is SD, mention the Module Name which supports the requirement |
| EC&SaS/208 | Ability to issue payment (Cheque/RTGS)/withdrawal by cash section and update of withdrawal entry. | E | | |
| EC&SaS/209 | Ability to create reports as per requriement. | E | | |
| **5.1.3 Process: Cash/Cheques Receipts** | | | | |
| EC&SaS/210 | Online system for Cash Receipt Requisition made by:<br>1.     Employees -  Refund of Unutilised Advance<br>2.     Deposit of purchase price of Tender Document for Vendors/Misc Parties<br>3.     Deposit of EMD from vendors | E | | |
| EC&SaS/211 | Cehcking of claims and ability to modify in case of requriement. | E | | |
| EC&SaS/212 | Auto identification of GL code and booking of claim. Further forwarding for creation of DAS ( debit advice slip) (Work flo requirement) and forwarding to cash section for disbursement. | E | | |
| EC&SaS/213 | Ability to issue payment (Cheque/RTGS)/withdrawal by cash section and update of withdrawal entry. | E | | |
| EC&SaS/214 | Ability to create reports as per requriement. | E | | |
| **5.1.4 Process: Journal Voucher** | | | | |
| EC&SaS/215 | Facility for creation of JV Requisition to account for the transaction | E | | |
| EC&SaS/216 | Checking of JV and ability to modify in case of requriement. Booking of JV it into GL Code | E | | |
| EC&SaS/217 | Auto identification of GL code and booking of claim. Further forwarding for creation of DAS ( debit advice slip) (Work flo requirement) and forwarding to cash section for disbursement. | E | | |
| **5.1.5 Process: Trial Balance/General ledger** | | | | |
| EC&SaS/218 | Online updating along with Claims/CR/JV | E | | |
| EC&SaS/219 | Generate Report of Trial balance and General ledger | E | | |
| **5.1.6 Process: Purchase through MOU Rate Contracts** | | | | |
| EC&SaS/220 | Online receipt of statements of purchases from Purchase Dept (Thru WorkFlow) | E | | |
| EC&SaS/221 | Interface With Site Material Management system for SRVs | E | | |
| EC&SaS/222 | Ability to create/Upload Joint Certification of Statements (BHEL vs. VENDOR) | D | | |
| EC&SaS/223 | Ability of collaboration with Industry Sector/Corporate MM for receipt of Debits. | E | | |
| EC&SaS/224 | Ability to process JV as mentioned in Process 5.1.4 | E | | |
| **5.1.7 Purchase against P O Awarded at PSER/Sub Contracting payment** | | | | |
| EC&SaS/225 | Online Receipt of Hard Copies and online Claims against Purchase made | E | | |
| EC&SaS/226 | System assisted verification of bill/claim with respect to PO. Interface requirement with  Vendor billing System | E | | |
| EC&SaS/227 | Ability to facilitate Delay analysis/Time Extension/Calculation of LD. | D | | |
| EC&SaS/228 | Online Processing of Bill as per process 5.1.2 | E | | |
| **5.1.8 Function: Concurrence of purchase/Sub Contract Proposals** | | | | |
| EC&SaS/229 | online note sheet processing system - Workflow based system | E | | |
| EC&SaS/230 | Interface requirement with Purchase SCT | E | | |
| EC&SaS/231 | Ability to Authenticate and authorize. | E | | |
| | | | | |
| **5.2 Fund Management** | | | | |
| **5.2.1 Fund Management** | | | | |
| EC&SaS/232 | Online system (also accessible at site) for Etimation | D | | |
| EC&SaS/233 | Facility for preparation of Fund disbursement Plan after receipt of fund from corporate office.Interface with contractor/Vendor billing system for pending invoices data | E | | |
| EC&SaS/234 | Online system for Disbursement of Funds | E | | |
| EC&SaS/235 | Interface with Commercial to collect cash flow information. System generated cash flow position and alerts on aging of Outstanding Pmts. | E | | |
| EC&SaS/236 | Facility for preparation of Bank Reconciliation Statement & preparation of Cash Book. | E | | |

| S.No. | Particulars | Essential / Desirable | Vendor Response | |
|---|---|---|---|---|
| | | | Offered ERP Product | If the response is SD, mention the Module Name which supports the requirement |
| EC&SaS/237 | Ability to generate records on site-wise ageing of paymnet of bills on quarterly basis. | D | | |
| EC&SaS/238 | Ability to generate Monthly E-Payment implementation Report. | E | | |
| EC&SaS/239 | Facility to update TDS Remittance, Challan preparation and challan details entry for each transaction | E | | |
| | | | | |
| **5.2.2 Bank Guarantee Monitoring** | | | | |
| EC&SaS/240 | Online Bank Guarantee Monitoring System | E | | |
| EC&SaS/241 | Online entry of Guarantee details | E | | |
| EC&SaS/242 | Alerts/Intimation to Sites for acceptance of BG | D | | |
| EC&SaS/243 | Facility to Upload scanned copies of BGs and detisl of physical repository. | D | | |
| EC&SaS/244 | Monitoring expiry of BGs | E | | |
| EC&SaS/245 | Ability to prepare Letter to be issued to bank and vendor for extension of BG | E | | |
| EC&SaS/246 | System generated Alerts/Mails to Vendors/Bankers for BG Extension. | E | | |
| EC&SaS/247 | Ability to prepare Letter to be issued to bank and vendor for Non-extension/Release of BG | E | | |
| EC&SaS/248 | Facility to update invocation records of Relased BGs. | E | | |
| | | | | |
| **5.2.3 Service Tax** | | | | |
| EC&SaS/249 | Ability to create editable Reports (till Remittance advice is issued) | E | | |
| EC&SaS/250 | Online Site Input credit/Output tax report. | E | | |
| EC&SaS/251 | Ability to create Site Service Tax remittance advice. | E | | |
| EC&SaS/252 | Facility to calculate and update Service Tax on advance. | E | | |
| EC&SaS/253 | Ability to generate Input credit advice of duty booked under 2580, 2520 and 2521 code at Kolkata.; | E | | |
| EC&SaS/254 | Update of information regarding  Transfer of input credit from code 2522 to 2521 on due. | E | | |
| EC&SaS/255 | Ability to compile Service Tax remittance advice reports for payment of service tax. | E | | |
| EC&SaS/256 | Online facility for Payment of service tax and JV for such payment. | D | | |
| EC&SaS/257 | Facility for data preparation for service tax return. | D | | |
| EC&SaS/258 | Ability to generate data regarding Consolidated bill wise reconciliation of service tax due and payment made (online payment with Control for payment authorization) | E | | |
| EC&SaS/259 | System Monitored compulsory filling of data for ST -2 amendment advices (in case of New Sites & Advance Receipt) | E | | |
| | | | | |
| **5.2.4 Insurance** | | | | |
| EC&SaS/260 | Online availability of Policy details. Interface with CML. | E | | |
| EC&SaS/261 | Ability to generate Site wise cost of insurance. | E | | |
| EC&SaS/262 | Ability to generate Site wise extension detail. | E | | |
| EC&SaS/263 | Interface with Site MM Funciton for online MDR/Accident/Insurance details. | E | | |
| EC&SaS/264 | Faciity to upload and calculate final claim details | E | | |
| EC&SaS/265 | Ability to identify final claim aging. | E | | |
| EC&SaS/266 | Online availability of Claim settlement details | E | | |
| EC&SaS/267 | Online Premium paymnet & Update of record. | D | | |
| EC&SaS/268 | Online Report Generation. (claim Addition\Deletion\Modification) | E | | |
| | | | | |
| **5.3 Other Financial Activities** | | | | |
| EC&SaS/269 | Ability to Generate Periodic MIR - as per Corporate Formats | E | | |
| EC&SaS/270 | Ability to reconcile Intra and Inter Unit Accounts | D | | |
| EC&SaS/271 | Online availability to daily cash collection Report. | E | | |
| EC&SaS/272 | Ability to create CF-3 Statements | E | | |

| S.No. | Particulars | Essential / Desirable | Vendor Response | |
|---|---|---|---|---|
| | | | Offered ERP Product | If the response is SD, mention the Module Name which supports the requirement |
| EC&SaS/273 | Online filing of Quarterly ETDS Returns and update of records. | D | | |
| EC&SaS/274 | Online Filing of Monthly VAT Returns and update of records. | D | | |
| EC&SaS/275 | Online Filing of Annual VAT Audit Reports and update of records. | E | | |
| EC&SaS/276 | Online Monitoring of Internal Audit Para | E | | |
| EC&SaS/277 | Facility for Payment to BOP Supply Vendors - BBU wise validation vies-v-vies customer invoicing | E | | |
| EC&SaS/278 | Facility for Preparation of Annual Revenue Budget | E | | |
| EC&SaS/279 | Facility for Preparation of Annual Capital Budget | E | | |
| EC&SaS/280 | Abiltiy of Budgetary control of Capital as well as Revenue Expenses | E | | |
| EC&SaS/281 | Facility for Maintenance of Commitment Register | E | | |
| EC&SaS/282 | Facility for Maintenance of Fixed Assets Register | E | | |
| | | | | |
| **6 Quality and HSE** | | | | |
| **6.1 Development, issue & control of QLY &HSE system documents** | | | | |
| EC&SaS/283 | Online repository with facility for Preparation & periodic update of Quality Manual, Standard Procedures, Departmental Procedure & Work Instructions related to QLY & HSE function | E | | |
| EC&SaS/284 | Online system Development, Issue & control of Project-specific FQPs (including Standard FQPs, RFQPs) for implementation at site. Facility to create/upload/edit proejct specific Field Quality Plans/Regions FQP. Version control, obsolete alert required. Further these FQPs/RFQPs will be accessed & filled up by sites as logsheets to record observation. | E | | |
| EC&SaS/285 | Online system for Development, Issue & control of other 5th-level documents like Welding-NDE-Heat Treatment Manuals, Guidelines for SAR-CAR-MDR, Preservation Manuals, Grouting Procedure etc. | E | | |
| | | | | |
| **6.2 System Audit on QMS & HSE (both Internal & External)** | | | | |
| EC&SaS/286 | Facility to Plan & implement external audit (by BVC,DNV), and upload report/observation on audit observation including CAPA & RCA to a centralized system, for further analysis. | E | | |
| EC&SaS/287 | Facility to Plan & implement Internal quality & HSE audit (by Internal Auditors),and upload report/observation on audit observation including CAPA & RCA to a centralized system, for further analysis. | E | | |
| | | | | |
| **6.3 QLY & HSE Training** | | | | |
| EC&SaS/288 | Online Training , Evaluation system. | D | | |
| EC&SaS/289 | Online Repository for Training Material. | E | | |
| | | | | |
| **6.4 TQM Implementation** | | | | |
| EC&SaS/290 | Facility to 'Arrange internal & external assessments as per corporate plan (Online /Offline) | D | | |
| EC&SaS/291 | Ability to genenrate Position Report  in line EFQM model | D | | |
| EC&SaS/292 | Facility for Action planning as per observations of assessment-team and implementation of plan | D | | |
| | | | | |
| **6.5 Site QA Activities** | | | | |
| EC&SaS/293 | Online Training Programs & evaluation system. Further ensuring  implementation of QMS systems of region  at site through regular interaction with concerned engineers & contractors | D | | |
| EC&SaS/294 | Online system for Site QA Monitoring. Including Observation upload of A category Checks mentioned in Repsecive FQPs. | E | | |
| EC&SaS/295 | Online Quality evaluation system to Conduct periodic audit at site including the vendor premises so that calibrated MMEs are used at site, log sheets are timely filled as per FQP, baking & holding of welding consumables are properly done, radiography reports & films are properly preserved etc. | E | | |

| S.No. | Particulars | Essential / Desirable | Vendor Response | |
|---|---|---|---|---|
| | | | Offered ERP Product | If the response is SD, mention the Module Name which supports the requirement |
| EC&SaS/296 | Auto generation of MSQR every month and send the same to Head/QLY. Along with exception report in case of default. | E | | |
| | | | | |
| **6.6 Site HSE Activities** | | | | |
| EC&SaS/297 | Online system for Site HSE Monitoring. | E | | |
| EC&SaS/298 | Facility to upload observations of periodic audit arranged at site including the vendor premises so that health, safety & environment norms are taken care of during site activities ,PPEs are used as per Work requirement | E | | |
| EC&SaS/299 | Ability to create HSE MIRs and send to MR/HSE of region | E | | |
| EC&SaS/300 | Facility for incident reporting. | D | | |
| EC&SaS/301 | Facility to upload Report of penalty by customer/ on sub-vendors on HSE default | E | | |
| EC&SaS/302 | Material Safety Data Sheet to be available online | D | | |
| | | | | |
| **6.7 Other Works Related to QLY, HSE, TQM** | | | | |
| EC&SaS/303 | Online/Offline sessions & Workshops by CII/DNV etc for top management regarding TQ implementation, HSE implementation. | D | | |
| EC&SaS/304 | Facility to upload observations of periodic management review (MQC) on QLY,HSE,TQM to discuss implementation of systems, audit NCs & related RCA in presence of top management official | E | | |
| | | | | |
| *7 Site Execution* | | | | |
| **7.1 Material Management** | | | | |
| **7.1.1 Material Inflow** | | | | |
| EC&SaS/305 | Online availability of master shipping list (MU+BOI) with Milestone Linkage | E | | |
| EC&SaS/306 | Online availability of Mandatory spare\T&P Details and issue control | E | | |
| EC&SaS/307 | Online system to verify received consignment against MU Pkg. List. | E | | |
| EC&SaS/308 | Online system with Alert facility & Preservation Tips. | E | | |
| | | | | |
| **7.1.2 MDR Management** | | | | |
| EC&SaS/309 | Online system to Reaise ODC in case of open Boxes. | E | | |
| EC&SaS/310 | Online system to Raise MDR in case of Material Discrepancy. | E | | |
| EC&SaS/311 | Facility for MDR follow up with Respective MU.s | E | | |
| EC&SaS/312 | Online system to update\Record items details recieved against MDR | E | | |
| EC&SaS/313 | Online Reconciliation/closing of MDRs | E | | |
| | | | | |
| **7.1.3 Generation of SRV & MRC** | | | | |
| EC&SaS/314 | Online generation of SRV for Received Material and SRV\MRC for Regions Material. | E | | |
| EC&SaS/315 | Facility to update records of MRC related to unit/PEM supplies | E | | |
| EC&SaS/316 | Interface with Finance for MRC cost info update. | E | | |
| | | | | |
| **7.1.4 Issue of materials** | | | | |
| EC&SaS/317 | Online system to track issue details. | E | | |
| EC&SaS/318 | Ability to keep track of items below DU level. (In case of partial Issue) | D | | |
| EC&SaS/319 | Ability to keep track of MDR progress and material issued under Positive Recall. | E | | |
| EC&SaS/320 | Ability to keep track of material directly unloaded at site. | E | | |
| | | | | |
| **7.1.5 Insurance Activities** | | | | |
| EC&SaS/321 | Work flow based Site Insurance System. | E | | |

| S.No. | Particulars | Essential / Desirable | Vendor Response | |
|---|---|---|---|---|
| | | | Offered ERP Product | If the response is SD, mention the Module Name which supports the requirement |
| EC&SaS/322 | Preliminary intimation to insurance company / claim lodging and updating the information on system. Writing to transporter in case of any transit loss and updating record with system. | E | | |
| EC&SaS/323 | Online Preparation of loss report and uploading scan copy back to the system | E | | |
| EC&SaS/324 | Online Preparation of damage report and uploading scan copy back to the system | E | | |
| EC&SaS/325 | Arranging shortage/ damage surveyed by the insurance company & updating the system | E | | |
| EC&SaS/326 | Facility to generateLodging of transit/ marine loss claims. | E | | |
| EC&SaS/327 | Lodging FIR with local police in case of any theft and uploading scanned copy to system | E | | |
| EC&SaS/328 | Facility to Place open order on MU/other suppliers through system for supply of missing / damaged item at site. | E | | |
| EC&SaS/329 | Ability to contain Cost Particulars updated by respective MU.s that can be refered at site\HQ | D | | |
| EC&SaS/330 | Facility to Upload further Technical Details. | E | | |
| EC&SaS/331 | Facility to lodge final claim. | E | | |
| EC&SaS/332 | Online Monitoring of Calims with surveyor/ insurance company till settlement. | D | | |
| EC&SaS/333 | Facility to Update record of receipt of payment from insurance company and closure of case | E | | |
| | | | | |
| **7.2 Installation and Execution** | | | | |
| EC&SaS/334 | Online availability of customer contract agreement, L2 schedule, master list of drawings and documents, CIS. | E | | |
| EC&SaS/335 | Facility to keep record of front availability from customer. At site, most of the times erection activites of BHEL packages are dependent on the completion of erection activities of other packages managed by cutomer. Front availablity means receipt of Customer clearance to start erection work at that area. | E | | |
| EC&SaS/336 | Ability to keep record of Sub-contractor mobilisation to site as per schedule along with requisite manpower and T&P for ready reference. | E | | |
| EC&SaS/337 | Ability to keep record of BHEL's own T&P, site office, manpower, erection materials as per schedule and other infrastructure requirements. for ready reference. | E | | |
| EC&SaS/338 | Ability to keep record of Mobilisation of contractor for enabling Works for turnkey projects (comprising mainly of proper storage space, approach roads, hygienic office space with proper drinking water facilities, office illumination and area illumination) | E | | |
| EC&SaS/339 | Ability to generate Erection L3 Schedule (rolling Plan for Site Ereciton work); Interface with Panning & Monitoring System (Function-10) Erection L3 is generated in parts refering master network maintained by CPMG as per availability of front at site. Further updation at L3 level is done at site. | E | | |
| EC&SaS/340 | Online Monitoring of BOP Requirements and alert facility for the same. BOP (Balance of Plant) are the packages which do not come under Standard BTG( Boiler Turbine Generator)packages. (e.g. - ash handling system, Demineralized Water Plant, Switch Yard, etc) There are two categories under monitoring: 1. Alert assisted availability/requirement status of BOP erection/commissioning material, if BOP erection is under BHELs scope. 2. Alert against availability of BOP systems /Fronts (if Erection of BOP is in Customer Scope) on which BHEL systems are dependent. | E | | |
| EC&SaS/341 | Facility for Planning and monitoring of Erection and commissioning of BTG/BOP packages including its material handling. Interface with Panning & Monitoring System (Function-10) | E | | |

| S.No. | Particulars | Essential / Desirable | Vendor Response | |
|---|---|---|---|---|
| | | | Offered ERP Product | If the response is SD, mention the Module Name which supports the requirement |
| EC&SaS/342 | Online SARs/CARs/MDRs system.<br>Site Action Reports/Commissioning Action Reports are generated when the mateiral sent by Manufacturing units have some design discrepancy. Reports are generated to take suitalble action like replacement or rectification.<br>Material Discrepancy Report is generated when the material received at site is damaged or missing. Reports are generated to take suitalble action like replacement or rectification. | E | | |
| EC&SaS/343 | Online monitoring of updating of Log Sheets as per FQP.<br>Facility to create/upload/edit proejct specific Field Quality Plans/Regions FQP. version control, obsolete alert required. Further these FQPs/RFQPs will be accessed & filled up by sites as logsheets to record observation. | E | | |
| EC&SaS/344 | System generated List of Critical Material as well as system generated Erectability analysis. Facility to update critical issues of project that can further be utilized in creation of MCM Reports. Interface with CPMG/PMX.<br>Erectability Analysis = Quanta of available Erectable Mateiral that is available at erection site / Total material available at erection site %EA = Erectable Mat./Total Mat %<br>There can be situations when certain erection items are available at site but due to non availability of a particular item, those items cannot be erected, hence no of erectable items will be less than the total avl. items. | E | | |
| EC&SaS/345 | Facility for Local Contracting of Low value and urgent work at site which are not coverd under Main Contract. Interface to Pur & SCt System. | E | | |
| EC&SaS/346 | Facility to Upload and monitor Jointly Agreed Punch List. | E | | |
| EC&SaS/347 | Facility to upload records of Trail Operation, Handing Over, Site Closing & Contract Closing. Interface with Reconciliation & Contract Closing (Function-11) | E | | |
| | | | | |
| **7.3 Customer Billing** | | | | |
| EC&SaS/348 | Online availability of approved billing schedule. | E | | |
| EC&SaS/349 | Facility to generate Engineer 's certificates and MRC and forwarding it to Customer at site for approval . | E | | |
| EC&SaS/350 | Submission of engineer certificates and MRCs with site finance in hard copy. | E | | |
| EC&SaS/351 | Preparation of invoice and submitting to customer for cash realization. Update of record with the system | E | | |
| EC&SaS/352 | Billing reconciliation on completion of Work | E | | |
| | | | | |
| **7.4 Contractor Billing** | | | | |
| EC&SaS/353 | Online availability of approved billing schedule, LOI.<br>Billing Schedule is a schedule according to which Payments are made to the contractors. Sometimes the same schedule is used for Customer billing also. The schedule once created, has to be approved. Approved billing schedule should be available with the system in<br>document as well as image form. (Upload facility for (scanned) approved documents) | E | | |
| EC&SaS/354 | Facility for Bill Upload by Contractor.<br>Monthly erection bill is raised by contractor for payment. System should provide a facility for bill creation through the system. | E | | |
| EC&SaS/355 | Ability for Alerts in case of delays. System generated alerts in case of delay in bill processing. | E | | |
| EC&SaS/356 | Ability of Auto Verification of Bill by System (Interface with MM, Planning & Monitoring).<br>Bills will be verified on the basis of material issued for erection in case of Weight based billing,( Only the weight part will be verified rest of the bill verifcation will be on the basis of work executed as per Billing Schedule), It should also provide facility to verfy Bill against approved Billing Break up(BBU) | E | | |
| EC&SaS/357 | Ability of System Generated Mbook. Mbook (Measurement Book) is the measurement of<br>work executed by Contractor on the basis of which bill is raised. It should be available online. | E | | |

| S.No. | Particulars | Essential / Desirable | Vendor Response | |
|---|---|---|---|---|
| | | | Offered ERP Product | If the response is SD, mention the Module Name which supports the requirement |
| EC&SaS/358 | Routing of Bill with Documents to Site Finance. Once Measurement Sheet is finalized it should be automatically routed to Site Finance Dept. | E | | |
| EC&SaS/359 | Interface with Fianance System. Site Finance should be integrated to Finance System | E | | |
| | | | | |
| **7.5 Technical Services** | | | | |
| **7.5.1 Technical Services (Regions)** | | | | |
| EC&SaS/360 | interface between commercials and technical services - Workflow integration.<br>Order/Project details flow from commercial to Technical Services. Interface is required for the same purpose. | E | | |
| EC&SaS/361 | Online availability of internal order from commercial. Internal Work Order is generated by comercial against any customer order. The Internal Workorder should be available online. | E | | |
| EC&SaS/362 | Online availability contract documents (lead and technical spec, deviation letters, LOI/Work order from customer). Contract Documents like technical spec, deviation letters, LOI/Work order from customer should be available online. | E | | |
| EC&SaS/363 | Online availability of L1&L2. (Interface with CPMG/PMX). L1 & L2 schedules created by CPMG/PMX should be available online for further update. | E | | |
| EC&SaS/364 | Online availablity of scope documents of sub-contractors/ sub-Vendors/ customer inputs. Scope details of particular contract/Subvendor should be available online. Customer Inputs should also be recorded online. | E | | |
| EC&SaS/365 | Abiltiy to generate man-power module - standardisation of module and integration with the system.<br>System should provide online facility to generate man power module i.e. man power planning to execute a particular order. The system should be further linked with the master employee data. | E | | |
| EC&SaS/366 | Online Training , Evaluation system. Online training & Evaluation System to impart training to Personels | D | | |
| EC&SaS/367 | Online availability of technical data of New technology/ Products and systems.<br>Online availability of technical data of New emerging technologies/ Products and systems to be updated by Concerned BHEL Manufacturing Units/PEM./PSRegions. | E | | |
| EC&SaS/368 | Online availability of Lubricants/chemicals/consumables schedule, scope of supply from MU.<br>During work executions various chemicals/Consumables/Lubricants are required at different stages of work for which a requrement schedule is created. This schedule should be available online. | E | | |
| EC&SaS/369 | Online availability of Master list of /new MMDs in the system to be maintained. System should keep an account of Measurement devices used during work execution. List of Measurement devices should be available online. | E | | |
| EC&SaS/370 | Copy of PO of BOI should be available in the system and should be accessible by the regions / units | E | | |
| EC&SaS/371 | Online availability of consolidated list of temporary piping, pumps, consumables, safety aids, valves, installation activities for conducting chemical cleaning, mass flushing, oil system effluent drainage, contingency schemes and steam blowing for commg activities.<br>During various stages of erection commissioning work temporary arrangements are requried. System should contain a consolidated list of mateiral requried for these temporary arrangements also it should contain the complete procedure of creating the temporary arrangement and execution of underlying commissioning procedures | E | | |

| S.No. | Particulars | Essential / Desirable | Vendor Response | |
|---|---|---|---|---|
| | | | Offered ERP Product | If the response is SD, mention the Module Name which supports the requirement |
| EC&SaS/372 | Online availability of approved commissioning procedures.<br>During various stages of erection commissioning work temporary arrangements are requried. System should contain a consolidated list of mateiral requried for these temporary arrangements also it should contain the complete procedure of creating the temporary arrangement and execution of underlying commissioning procedures | E | | |
| EC&SaS/373 | Ability to create, Review & contain Commg quality plan prepared by Quality dept. for any addition/correction needed. Workflow based quality plan. Faciltiy to create review and store commissioning quality plan prepared by quality dept | E | | |
| EC&SaS/374 | Facility to Plan and update requirement of new MMDs considering future requirements of Region.<br>Faciltiy to plan for new MMDs considering future requirements | D | | |
| EC&SaS/375 | Facility for Review & Update of commissioning status of various project and inform top management for course-correction.<br>Progress Tracking facility of commissioning activities of various projects through which commissioning status report can be generated. | E | | |
| EC&SaS/376 | Ability to Keep track of Audit rqmt. Co-ordination for conductance of milestone audit. And upload of audit report. Audit requirements are based on Milestone achievements at Project sites. Milestone monitoring is done through L2-L3 networks and project plannig & Monitoring, milestone audit are conducted and reports submitted. The same should be facilitated through<br>system. | E | | |
| EC&SaS/377 | Facility to kep record of troubleshooting performed at sites along with details of deployment of experts from mfg unit/PSTS/Other regions/vendors.<br>In case of failures, experts are deployed at sites for troubleshooting, System should keep a record of deployment of manpower as well as the details of troubleshooting for Knowledge Management & Root Cause Analysis(RCA) | E | | |
| EC&SaS/378 | Online facility to create and finalize and approve PG Test Procedure and updating records of PG test activites.<br>Performance Guarantee test is carrind out to ensure performance of Set. System should provide facility to create PG Test procedure with a workflow based approval machanism, and should be able to record observations of performed PG tests | E | | |
| EC&SaS/379 | Ability to keep record of Post commissioning assitance provided to SAS.<br>In case of failures, experts are deployed at sites for troubleshooting, System should keep a record of deployment of manpower as well as the details of troubleshooting for Knowledge Management & Root Cause Analysis(RCA) | D | | |
| EC&SaS/380 | Facility to update technical Inputs provided to MX/CML/purchase/Sub contracts/HSE/Quality/BE for future reference.<br>Repository of various technical inputs provided to other departments. | E | | |
| EC&SaS/381 | Facility to keep record of Technical support provided to other region and MUs in the form of manpower, trouble shooting, vibration analysis, MME and documents.<br>System should keep a record of deployment of manpower as well as the details of troubleshooting/activites performed. | E | | |
| EC&SaS/382 | Facility to keep\Update record of power generation status of various running units in the region.<br>Faciltiy to keep updated record of power generations status of various running units of all projects in the Power Sector Regions | D | | |
| EC&SaS/383 | Online Complaint mgmt system. online compliant management system from internal as<br>well as external customers. | E | | |
| EC&SaS/384 | Facility to plan and update record of customer training. facility to plan and update record of customer training imparted to customer at various stages of Power Plant Erection and after hand over. | E | | |

| S.No. | Particulars | Essential / Desirable | Vendor Response | |
|---|---|---|---|---|
| | | | Offered ERP Product | If the response is SD, mention the Module Name which supports the requirement |
| EC&SaS/385 | Requirement of DMS. | E | | |
| EC&SaS/386 | Facility to issue tech.\Commissining circulars to Project sites as per requirements. email based faciltiy to issue tech circulars and other documents. | E | | |
| EC&SaS/387 | Facility to prepare technical article on feedback/ case studies on problems/improvements/cycle time reduction/Best Practices. email based faciltiy to issue tech circulars and other documents. | E | | |
| EC&SaS/388 | Ability to perform Root cause Analysis. Ability to perform Root cause analysis of failures encountered during erection/ post erection. | E | | |
| EC&SaS/389 | Facility to prepare Knowledge Bank of New/emerging Technologies. (Part Of DMS). Online availability of technical data of New emerging technologies/ Products and systems. | D | | |
| EC&SaS/390 | Facility to organise and upload obsrvations of  CFTs, TQ assessment, audit process. Facility to organise and upload ovservations of CFT's TQ assessment , audit process | E | | |
| EC&SaS/391 | Ability to record and generate data for MCMs. Analysis of data caputred during various functions to generate Management Committee Reports. | E | | |
| EC&SaS/392 | Online system for Handlign and liquidation of Outstanding Engineering Issues (SAR/CAR). Online system for Handling and liquidation of Outstanding engineering Issues raised during Plant hand over/ post commissioning | E | | |
| EC&SaS/393 | Facility to upload MOMs with customer. Enterprice Content Mgmt System with Collaboration Facility to create a complete Archive of Project Communications and Decisions. | E | | |
| EC&SaS/394 | Facility to assist site/PMX/commercial in closing contract with customer. Interface with  Reconciliation and contract closing (Funciton-11). Information recorded during execution of various Erection/commissioning procedures will be utilized by Site/PMX/Commercial for contract Closure. | E | | |
| | | | | |
| **7.5.2 Technical Services (HQ)** | | | | |
| EC&SaS/395 | Online facility to create Sub-Contractor Deployment Plan. | E | | |
| EC&SaS/396 | Online facility for preparation and upload of Tender specification for C&I and Electrical Package | E | | |
| EC&SaS/397 | Online facility for Preparation of Estimate for C&I and Electrical Pakcage and obtaining approval for the same (Work Flow requriement for Approval ) | D | | |
| EC&SaS/398 | Indenting for C&I and Electrical package sub-contracting. Interface with PUR & SCT (function-3) | E | | |
| | | | | |
| **8 Information Technology & Management Services** | | | | |
| **8.1 IT Budgeting** | | | | |
| EC&SaS/399 | Facility to review  requirements and group them under "Revenue" or "Capital" | E | | |
| EC&SaS/400 | Facility to create Technical Documents and update record of Collection of Budgetary Quotations from vendors | D | | |
| EC&SaS/401 | Online Preparation of Budget and submission for Approval ( Work Flow Rqmt for Approval) | E | | |
| | | | | |
| **8.2 Procurement of IT Equipments** | | | | |
| EC&SaS/402 | Online availability of Technical Specs. | E | | |
| EC&SaS/403 | Online Estimation with Authorized Access. (Online Approval Msm.) | D | | |
| EC&SaS/404 | Generation of Indent(Interface with SCT System.) | E | | |
| EC&SaS/405 | Vendor follow up for successful execution of order | D | | |
| EC&SaS/406 | Bill Passing (interface with Contractor billing System.) | E | | |
| | | | | |
| **8.4 System Administration, Network, IT FAcility & Database Management** | | | | |
| EC&SaS/407 | Online monitoring of System | E | | |
| EC&SaS/408 | Online IT HelpDesk System | E | | |
| | | | | |

| S.No. | Particulars | Essential / Desirable | Vendor Response | |
|---|---|---|---|---|
| | | | Offered ERP Product | If the response is SD, mention the Module Name which supports the requirement |
| **8.7 Computerised System Development & Maintenance** | | | | |
| EC&SaS/409 | Facility to upload Requirement Analysis. | E | | |
| EC&SaS/410 | Software Development Planning (Site Planning and Monitoring System can be Used - Function-10) | E | | |
| | | | | |
| **8.8 Information Security Management System** | | | | |
| EC&SaS/411 | Online availablity & review of ISMS documents with version control | E | | |
| EC&SaS/412 | Monitoring of regular processes as per ISMS norms | E | | |
| EC&SaS/413 | Upload of internal\External audit reports | E | | |
| EC&SaS/414 | Online generations of NCs and upload | E | | |
| EC&SaS/415 | Upload of Approval by Management Information Security Forum | E | | |
| EC&SaS/416 | Facility to upload Audit Reports of Audit conducted by external agency. | E | | |
| EC&SaS/417 | Closure & status update of NCs raised by External Audit | E | | |
| | | | | |
| **8.9 Generation of MIRs** | | | | |
| EC&SaS/418 | Online Collection & Compilation of Information available in the system | E | | |
| | | | | |
| **8.10 BSC Coordination's** | | | | |
| EC&SaS/419 | Online WorkFlow based system requirement. | E | | |
| EC&SaS/420 | Online receipt of company level Draft BSC from Corporate Monitoring and online preparation ofRegion Level BSC draft preparation | E | | |
| EC&SaS/421 | Online Circulation of Region BSC draft to all HODs/Site In charges for their individual BSCs | E | | |
| EC&SaS/422 | Online receipt of Final Score card from Corporate Monitoring Region Level BSC draft preparation and submission for corporate approval | E | | |
| EC&SaS/423 | Online Receipt of Approved BSC | E | | |
| EC&SaS/424 | Online Circulation of approved Region final BSC to all HODs/Site In charges for their individual BSCs | E | | |
| EC&SaS/425 | Receipt of final BSC from HODs/Site Inchagres and consolidation and taking approval from CEO. | E | | |
| EC&SaS/426 | Recirculation of Approved BSC again to Depts and monitoring of the same Quarterly. Course Correction after monitoring. | E | | |
| EC&SaS/427 | Facility for Self Assessment based on Flash Results (Done by Regions) and submitted to Corporate | E | | |
| | | | | |
| **8.11 Preparation for Monthly Management Committee Meeting** | | | | |
| EC&SaS/428 | Online Collection & Compilation of Information available in the system | E | | |
| | | | | |
| **8.12 Corporate Reporting's on Unit Performance** | | | | |
| EC&SaS/429 | Collection & Compilation of Information available online | E | | |
| | | | | |
| **9 SAS** | | | | |
| **9.1 Services Job Execution (Regions)** | | | | |
| EC&SaS/430 | Upload of Customer order for overhauling by SSBG | E | | |
| EC&SaS/431 | Facility to update records of Pre mobilisation activity (after order booking) and mobilization activities. | E | | |
| EC&SaS/432 | Planning, Execution & Monitoring of work. Interface with Planning & Monitoring System (Function-10) | E | | |
| EC&SaS/433 | Ability to generate record of Additional/ Extra Work. | E | | |
| | | | | |
| **9.2 Commercial Functions- Offer preparation and negotiation** | | | | |
| EC&SaS/434 | Online availability of customer enquiry from SSBG | E | | |

| S.No. | Particulars | Essential / Desirable | Vendor Response | |
|---|---|---|---|---|
| | | | Offered ERP Product | If the response is SD, mention the Module Name which supports the requirement |
| EC&SaS/435 | Online system of logging, standardisation of scope and commercial terms, estimation, follow up, scrutiny after receipt of WO | D | | |
| EC&SaS/436 | Onine follow up with SSBG for clarification on deviation. | D | | |
| | | | | |
| **9.3 Customer billing and realisation of payment** | | | | |
| EC&SaS/437 | To be part of Customer Billing Process of Site Execution (Function-7) | E | | |
| | | | | |
| **9.4 Sub vendor Indent** | | | | |
| EC&SaS/438 | To Be part of Purchase & SCT (Function-3) | E | | |
| | | | | |
| **9.5  SAS Site Execution** | | | | |
| EC&SaS/439 | Online availability of WO and related documents  in the system | E | | |
| EC&SaS/440 | Facility to update data of additional\extra work. | E | | |
| EC&SaS/441 | Complaint monitoring system;Upload of overhauling protocols in the system | E | | |
| EC&SaS/442 | Online Services Site Action request for R&M and Services | E | | |
| | | | | |
| **9.6 Sub vendor Billing** | | | | |
| EC&SaS/443 | To be part of Contractor Billing Process of Site Execution (Function-7) | E | | |
| | | | | |
| ***10 Planning and Monitoring (Site/SAS)*** | | | | |
| EC&SaS/444 | Facility to update detials of nominated Site Incharge. | E | | |
| EC&SaS/445 | Online Facility for preparation of Erection Schedules (L3) at site (Project Planning & Mgmt System) and online availability of Erection & Engineering Documents ( Interface with DMS & Material Management System).<br><br>It is required to link the erection and engineering documents to the activities so that the end users responsible for these activities can access these documents online along with their task list.<br>Also the mateiral requirement has to be linked with the activities. | E | | |
| EC&SaS/446 | Interface with Contractor Billing, document Mgmt, Material Mgmt. & Asset Mgmt. Systems. For Erection planning. | E | | |
| EC&SaS/447 | Online Project Planning & Mgmt System for 3 months rolling plan, Progress tracking as per plan and delay analysis. This is basically monitoring of the L3 erection schedule prepared at site. Progress Tracking and delay analysis. Graphical representation of current and exptrapolated<br>scenarios and comaparative representations will be an added advantage. | E | | |
| EC&SaS/448 | Online Customizable Report generation facility | E | | |
| EC&SaS/449 | Enterprice Content Mgmt System with Collaboration Facility to create a complete Archive of Project Communications and Decisions. | E | | |
| | | | | |
| ***11 Reconciliation & Contract Closing*** | | | | |
| EC&SaS/450 | Facility for Upload & monitoring of  customer agreed/ frozen punch list after Trial Operation from site. | E | | |
| EC&SaS/451 | Facility to update record of Mandatory Spares/ Special T&Ps Hand over | E | | |
| EC&SaS/452 | Facility to update record of Document Hand over. (As Built Dwgs, O&M Manuals, etc.) | E | | |
| EC&SaS/453 | Online availability of  surplus material list from CM for diversion/disposition | E | | |
| EC&SaS/454 | Facility for upate of Commercial Contract Closing activities | E | | |
| EC&SaS/455 | Facility to update detials of Final Time Extension | E | | |
| EC&SaS/456 | Interface with Finance for Final Billing at the end of the work / work completion | E | | |

| S.No. | Particulars | Essential / Desirable | Vendor Response | |
|---|---|---|---|---|
| | | | Offered ERP Product | If the response is SD, mention the Module Name which supports the requirement |
| EC&SaS/457 | Facility to record Final Billing and payment reconciliation at the completion of the work finally seizing Project Archive for further update. | E | | |

| S.No. | Particulars | Essential / Desirable | Vendor Response | |
|---|---|---|---|---|
| | | | Offered ERP Product | If the response is SD, mention the Module Name which supports the requirement |
| **General Requirement** | | | | |
| Corp Fin/001 | Ability to update and maintain Fixed Assets Register. | E | | |
| Corp Fin/002 | Ability to reconcile Inter Unit transactions | E | | |
| Corp Fin/003 | Ability to incorporate Impact of AS-7 | E | | |
| Corp Fin/004 | Finance and accounting module will need to be IFRS compliant | E | | |
| Corp Fin/005 | Ability to perform Financial Analysis of Capital Investment. Financial analysis of Capital invenstement is done using instruments IRR, NPV, ROI, Payback period etc. | E | | |
| Corp Fin/006 | Ability to track Units, Regions, sectors, products, projects and employees uniquely | E | | |
| Corp Fin/007 | Ability to track RTGS/NEFT payments | E | | |
| Corp Fin/008 | Current exposure levels across banks | E | | |
| Corp Fin/009 | Current investments made with banks, with due dates of maturity and expected proceeds on maturity | E | | |
| Corp Fin/010 | Bank-wise limits of LCs and BGs | E | | |
| **Debtors Management** | | | | |
| Corp Fin/011 | Ability to generate online reports from source transactional data | E | | |
| **Capital Budget** | | | | |
| Corp Fin/012 | Ability to check the financial workings. Ability to check the formula for desired financial results and not the value only. (Authorised control) | E | | |
| **Direct Taxation** | | | | |
| Corp Fin/013 | Ability to consolidate information for Tax audit, information from memorandum records, and audited annual accounts. | E | | |
| Corp Fin/014 | Ability to prepare income tax return (to be generated through ERP system.) | E | | |
| Corp Fin/015 | Ability to interact with Units for various input requirements. | E | | |
| Corp Fin/016 | Ability to store Back up documents and the same available for download. | E | | |
| Corp Fin/017 | Ability to provide online access to transactional data and consolidated data in downloadable form. | E | | |
| Corp Fin/018 | Ability to generate, compile, analyse, and monitor management information reports. | E | | |
| Corp Fin/019 | Alerts for IT assessment & court appeals one week before the important due dates. No current system exists for court appeals/ case management | E | | |
| **Indirect Taxation and Enterprise Risk Management** | | | | |
| Corp Fin/020 | Ability to generate online reports from source transactional data | E | | |
| Corp Fin/021 | Ability to intimate on summary of circulars/notifications etc. Notify the required people in an authorized manner upon reciept of required circular/notice | E | | |
| **Cash Management** | | | | |
| Corp Fin/022 | Ability to provide On-line availability of bank wise Gross balances, pending debits and Net balances by accessing bank transactions through banks' web sites and unit allocation details in the proposed system. | E | | |
| Corp Fin/023 | Ability to update information in system whenever there is some transaction in BHEL bank Accounts. | E | | |
| Corp Fin/024 | Ability to generate instructions for Inter bank funds transfer considering the surplus/ deficit of funds in various Bank accounts of Corp. Office | E | | |

| S.No. | Particulars | Essential / Desirable | Vendor Response | |
|---|---|---|---|---|
| | | | Offered ERP Product | If the response is SD, mention the Module Name which supports the requirement |
| Corp Fin/025 | Ability to incorporate bank transactions in bank book by accessing data through banks' web sites and Corp. Cash collection system. | E | | |
| Corp Fin/026 | Ability to provide On-line availability of customer wise, project wise unit wise outstanding invoices to facilitate allocation is expected in the proposed system. | E | | |
| Corp Fin/027 | Ability to review bank statements with respect to collections and prepare customer wise project wise collection report. | E | | |
| Corp Fin/028 | Ability to update desired information relating to pending debits utilising web based bank statements and Units allocation details. | D | | |
| Corp Fin/029 | Ability to perfom bank reconciliation based on comparison of bank statement and bank book. | E | | |
| **Finance Establishment** | | | | |
| Corp Fin/030 | Ability to check approvals w.r.t. work policy/purchase policy's clauses online. | E | | |
| Corp Fin/031 | Ability to generate report w.r.t deposits on expiration of contract. | E | | |
| Corp Fin/032 | Ability to monitor threshold limit of TDS deduction vendor wise. | E | | |
| Corp Fin/033 | Ability to generate Balances of suspense heads (schedules) and service tax statement . | E | | |
| Corp Fin/034 | Ability to maintain data of bank guarantee and FD, generate exception report on expiry. | E | | |
| Corp Fin/035 | Ability to capitalise leased assets and prepare payment schedule. | E | | |
| Corp Fin/036 | Ability to attach scanned copy of the supporting document in soft form with JV and be visible to other Units for passing respective entry. | E | | |
| **Actuarial Valuation** | | | | |
| Corp Fin/037 | Ability to provide access to required information in designated format from Units, Sectors, RODs and HQ online basis for submission to actuaries. | E | | |
| **Corporate Budget** | | | | |
| Corp Fin/038 | Ability to consolidate Company Level monthly management information report for operating results and finalisation of broad objectives. | E | | |
| Corp Fin/039 | Ability to access required information of units, cost centres, business sectors online for operating results, finalisation of broad objectives, Budget exercise and advance tax calculation. | E | | |
| Corp Fin/040 | Ability to analyse variations for operating results and finalisation of broad objectives. Analysis of past operating results and finalization of 2 year objectives | D | | |
| Corp Fin/041 | Ability to generate and analyse reports online for operating results, finalisation of broad objectives and Budget excercise. | E | | |
| Corp Fin/042 | Ability to consolidate Company Level budget | E | | |
| Corp Fin/043 | Ability to perform balance score card process directly from Unit management information report online. | E | | |
| Corp Fin/044 | Ability to have access to Units data. | E | | |
| Corp Fin/045 | Ability to access required information of units, cost centres, business sectors online for Ten Year Digest. | E | | |
| Corp Fin/046 | Ability to consolidate Company Level report and access to required information for Cost Audit. | E | | |
| **Corporate Books** | | | | |
| Corp Fin/047 | Abililty to perform online inter-unit accounting and reconciliation | E | | |

| S.No. | Particulars | Essential / Desirable | Vendor Response | |
|---|---|---|---|---|
| | | | Offered ERP Product | If the response is SD, mention the Module Name which supports the requirement |
| Corp Fin/048 | Ability to prepare Balance Sheet and P&L and incorporate informative portion in BS & P&L online | E | | |
| Corp Fin/049 | Ability to prepare schedules for audit, formats of Operating Results, Quarterly Results and Flash Results with provision to compare across periods and related budgets | E | | |
| Corp Fin/050 | Ability to prepare annual accounts, consolidate Accounts, and informative Portion in Annual Accounts online. | E | | |
| Corp Fin/051 | Flexibility to update formats as per the changes in the guidelines / new requirements such as revised Schedule VI / IFRS / Ind.AS | E | | |
| Corp Fin/052 | Ability to provide access to Units on Letters/ Notifications on logging to system. | D | | |
| Corp Fin/053 | Ability to submit and consolidate data for Trail Balance and Actuarial Valuation | E | | |
| Corp Fin/054 | Ability to generate online daily accounts and inter-unit reconciliation | E | | |
| Corp Fin/055 | Ability to prepare CFS (Corporate Financial Statements) Online. | E | | |
| Corp Fin/056 | Ability to submit and consolidate data for informative portion (disclosures), intra group transactions and balances online. | E | | |
| Corp Fin/057 | Ability to perform online intra-group reconciliation | E | | |
| Corp Fin/058 | Ability to prepare annual accounts and consolidation in line with the requirements of IFRS / Ind.AS | E | | |
| Corp Fin/059 | Provision for modification of input and output formats | E | | |
| Corp Fin/060 | Ability to consolidate and extract Reports as per requirements | E | | |
| Corp Fin/061 | Ability to generate emails/ Letters for follow up with the concerned agencies | D | | |
| Corp Fin/062 | Ability to store details on previous follow ups with the concerned agencies | E | | |
| **Corporate FSD** | | | | |
| Corp Fin/063 | Ability to generate management information reports online | D | | |
| Corp Fin/064 | Ability to generate triggers for key milestones. Milestones to be maintained in the database. There would be project specific milestones also like bank gurantee related dates etc. | D | | |
| Corp Fin/065 | Audit trail for forward cover. BHEL hedge in foreign exchange markets to minimise the risk on business due to exchange rate fluctuations | D | | |
| Corp Fin/066 | Ability to generate automatic trigger for all BGs and LCs expiring in a month | E | | |
| Corp Fin/067 | Ability to generate automatic trigger for any payments status under an LC | E | | |
| Corp Fin/068 | Ability to generate automatic alerts for any over-utilization of limits allocated by any unit | E | | |
| Corp Fin/069 | Ability to generate automatic alerts for any key milestones related to PCFC, buyers' credit | E | | |
| Corp Fin/070 | Ability to generate alerts for BGs being extended beyond the original validity | E | | |
| Corp Fin/071 | Ability to generate report on interest receivable on investments made, interest payable on borrowings made, tax deducted on interest earned, tax deductible on the interest payable. | E | | |
| Corp Fin/072 | Ability to access transactional data online | E | | |
| **Financial Concurrence and Administration** | | | | |
| Corp Fin/073 | Ability to maintain online record of files received from various departments autogenerated unique serial number | E | | |
| Corp Fin/074 | Ability to access RFP / NIT and other related documents online | E | | |

| S.No. | Particulars | Essential / Desirable | Vendor Response | |
|---|---|---|---|---|
| | | | Offered ERP Product | If the response is SD, mention the Module Name which supports the requirement |
| Corp Fin/075 | Ability to provide access to purchase / works policy, govt. /CVC guidelines and DOP online | E | | |
| Corp Fin/076 | Ability to make e-offers for the process of tendering based on Corporate guidelines. It is about preparing a consolidated offer by combining the unit/division offers through System | D | | |
| Corp Fin/077 | Ability to receive clarifications from concerned departments, nomination of committee members as per DOP, recording of participation in committee meetings, discussions with indentors, HOD and experts, participation in negotiations | E | | |
| Corp Fin/078 | Flexible to absorb all manual activities progressively | E | | |
| Corp Fin/079 | Ability to maintain online record of Assets / Stock. | E | | |
| Corp Fin/080 | Ability to generate consolidated MIR for proposals / manpower (use of Hindi language) for / up to month | E | | |
| Corp Fin/081 | Ability to extract information from MIR in different formats. | E | | |
| Corp Fin/082 | Ability to provide online availability of complete information for all the employees of Finance across BHEL | E | | |

| S.No. | Particulars | Essential / Desirable | Vendor Response | |
|---|---|---|---|---|
| | | | Offered ERP Product | If the response is SD, mention the Module Name which supports the requirement |
| **General** | | | | |
| Fin/001 | Ability to interface with other system modules such as<br><br>- HR, Payroll<br>- Procurment and Subcontracting<br>- Stores<br>- Contracts & Marketing<br>- Planning<br>- Projects | E | | |
| Fin/002 | Ability to breakup of Budgetary expenditure to be sent to all approving authorities for control purpose and system generated updation | E | | |
| Fin/003 | Ability to provide online accounting for fringe benefit tax, Income Tax | E | | |
| Fin/004 | Ability to process<br><br>- Payment Advice (PA)<br>- Petty Cash Voucher (PCV)<br>- Petty Cash Receipt (PCR)<br>- Receipt Advice (RA)<br>- Advance Bank Payment Guarantee<br>- Instruction to Open LC<br>- Debit Advice | E | | |
| Fin/005 | Ability to compile data for Tax audit purpose and provide the output in User defined formats. | E | | |
| Fin/006 | Ability to provide online computation of Tax liability as a service provider & service receiver | E | | |
| Fin/007 | Ability to prepare and file returns as an automated process through the Taxation module. | E | | |
| Fin/008 | Ability to provide facilty for consolidation of Tax paid for last 6 months with reference to taxable services rendered. | E | | |
| Fin/009 | Ability to prepare Bank Advice Note electronically | E | | |
| Fin/010 | Ability to calculate stage payment value based on progress report from Production. | E | | |
| Fin/011 | Ability to link accounting system to processing of Material requisition (MR), Labour tabulations, Material tabulations | E | | |
| Fin/012 | Provision for adjustment of Advance and passing / processing of Payment be made online. | E | | |
| Fin/013 | Ability to Vendor to Check the purchase order(PO) Status , Billing Status , Vendor Performance Rating , Upload Test Certificates , Booking Inspection Call / Transporter etc  should be available online | E | | |
| Fin/014 | Flexibility for implementation of forthcoming Goods service tax provisions. | E | | |
| Fin/015 | Inter-unit information to be available through Document Management System | D | | |
| Fin/016 | Debtors Management System | E | | |
| Fin/017 | Corporate should be able to generate Management Information reports(MIRs) | E | | |
| Fin/018 | Provision to introduce any new plant / unit / site with separate identity | E | | |
| **Costing** | | | | |
| Fin/019 | Ability to find Production Order Cost based on Moving average method, weighted average, first in first out(FIFO) etc | E | | |
| Fin/020 | Capable to show the production cost of an intermediate, final product at any point of time | E | | |

| S.No. | Particulars | Essential / Desirable | Vendor Response | |
|---|---|---|---|---|
| | | | Offered ERP Product | If the response is SD, mention the Module Name which supports the requirement |
| Fin/021 | Capability to track the following based on Moving Average costing:<br><br>- Sales: Price/volume/Mix/location<br>- Production: Usage/efficiency/quantity<br>- Materials: Price/Quantity/Quality/delivery<br>- Finance: Fixed Overheads/Variable Overheads/profit per unit | E | | |
| Fin/022 | Provision for scrap costing | D | | |
| Fin/023 | Ability to support other parameters like insurance, bank charges, interest, etc while performing costing | D | | |
| Fin/024 | Ability to support mapping of these costing elements to the respective General ledger codes | E | | |
| Fin/025 | Ability to generate reports for actual costing and standard costings | E | | |
| Fin/026 | Ability to calculate variances from budgets to actual in the following categories:<br><br>- Material usage<br>- Labor variance<br>- Machine usage<br>- Utilities | E | | |
| Fin/027 | Ability to monitor the variance, if any, between the actual vs. estimated project costing. | E | | |
| Fin/028 | BHEL follows both variable costing & fixed costing. The cost of final product is arrived through different stages like Processing stage, Sub-processing (Intermediate product & Final product). Ability to calculate cost of material at each stage (bought out, BHEL manufacture) | E | | |
| Fin/029 | Ability to provide man hour cost | E | | |
| Fin/030 | Provision for user to define the method of inventory valuation | E | | |
| Fin/031 | Ability to arrive at the closing inventory values i.r.o bought out items | E | | |
| Fin/032 | Ability to support integrated accounts in costing & finance arrival | E | | |
| Fin/033 | Ability to generate Labour job cards. | E | | |
| Fin/034 | Ability to link docket, technology and labour job cards. | E | | |
| Fin/035 | Ability to control, monitor and account for Labour job cards. | E | | |
| Fin/036 | Ability to define work centre data and make available in system. | E | | |
| Fin/037 | Ability to control, monitor and account for Labour job cards work centre wise. | E | | |
| Fin/038 | Provision for HR to update / feed work centres for each direct worker | E | | |
| Fin/039 | Ability to calculate Labour rates. | E | | |
| Fin/040 | Ability to link Standard labour hours and actual labour hours and controlled at work order, activity and sub-activity level | E | | |
| Fin/041 | Ability to capture variances and deviations between standard hours and actual hours. | E | | |
| Fin/042 | Ability to calculate Factory Expense. | E | | |
| Fin/043 | Ability to calculate hourly rate. | E | | |
| Fin/044 | Ability to update rate, variances, standard deviations. | E | | |
| Fin/045 | Ability to control, monitor and account for Factory Expense work centre wise. | E | | |
| Fin/046 | Ability to divert Conversion Cost from One Assembly / Work Order to another assembly / Work Order with the provision of change in balance conversion cost requirement against both the Work Order. | E | | |
| Fin/047 | Ability to generate various MIR related to Conversion Cost and actual consumption along with their comparison / gaps. Cost of conversion and material consumption for internal job as well as sub-contract has to be made avilable | E | | |
| Fin/048 | Ability to link with Journal Voucher System / Trial Balance to record transaction like Inter Unit Transactions etc. | E | | |
| Fin/049 | Ability to capture Product Group in the job card to assess group-wise job hours booking | E | | |

| S.No. | Particulars | Essential / Desirable | Vendor Response | |
|---|---|---|---|---|
| | | | Offered ERP Product | If the response is SD, mention the Module Name which supports the requirement |
| Fin/050 | Ability to capture Job hours and conversion cost and map up to package (System/product identified for manfacture by units against customer order) level since package is the identifiable unit | E | | |
| Fin/051 | Ability to generate various exception reports such as Excess Job Hours booked against the work order(WO), Quantitative Variance Report etc. | E | | |
| Fin/052 | Ability to maintain cost records with cost accounting record rules and compliance of various accounting standards issued by Institute of Chartered Accounts of India(ICAI) | E | | |
| Fin/053 | Ability to maintain and update regularly the estimated cost for AS-7 (Accounting Standard 7 for Revenue Recognition) | E | | |
| Fin/054 | Ability to make available Bill of Material online. | E | | |
| Fin/055 | Ability to generate Billing of material for each WO, WO item, and sub-processes. Work order is the internal job order created for carrying out activities in the shop or sub-contract for a billable unit called DU | E | | |
| Fin/056 | Ability to derive estimated cost for each WO, WO item, and sub-processes | E | | |
| Fin/057 | Provision to have material codes for Bill of material in case of stock items | E | | |
| Fin/058 | Provision for directly charged item accounting for Bill of material. | E | | |
| Fin/059 | Ability to control issue of material and charging off to WO / EO / Project initiation report(PIR) through bill of material(BOM), store receive voucher(SRV) etc. | E | | |
| Fin/060 | Ability to review and amend variation in BOM. | D | | |
| Fin/061 | Ability to reconcile material between cost and books. There has to be a reconicilation between Costing Ledger and Finance Ledger for material consumption atleast. | E | | |
| Fin/062 | Ability to perform Real time material accounting. | E | | |
| Fin/063 | Ability to handle Material Diversion from One Assembly / Work Order to another assembly / Work Order with the provision of change in balance material requirement against both the Work Order even after dispatch. | E | | |
| Fin/064 | Ability to generate various MIR related to material plan and actual consumption along with their comparison / gaps. | E | | |
| Fin/065 | Provision of compilation of Cost Booking of Brought Out Items from booking done by bill passing section and its comparison with estimated Cost. | E | | |
| Fin/066 | Ability to link with Journal Voucher System / Trial Balance to be established to record transaction like Inter Unit Transactions etc. | E | | |
| Fin/067 | Provision for accountal of material issued, returned and lying with sub-contractor including partly processed materials /finished good(FG) / work in progress(WIP) to be recorded. | E | | |
| Fin/068 | Ability to make available details / Status of materials issued and lying with sub-contractors / fabricators online. | E | | |
| Fin/069 | Ability to capture Product Group in the store issue voucher(SIV) along with product group main assembly(PGMA) to assess group-wise material consumption | E | | |
| Fin/070 | Ability to generate various exception reports to be generated through the system such as Excess Material issued against the WO, Quantitative Variance Report, High Value consumption report etc. | E | | |
| Fin/071 | Ability to capture Material planning and its consumption and mapped up to package level since package is the identifiable unit | E | | |
| Fin/072 | Ability to generate report for consumption at material category level. | E | | |
| Fin/073 | Ability to generate, maintain and close Expense Orders and Accounting | E | | |
| Fin/074 | Ability to generate MIRs online | E | | |
| Fin/075 | Ability to track excess material lying at project sites | E | | |
| Fin/076 | Ability to generate Engineering job cards. | E | | |
| Fin/077 | Provision for pendency and other calculations. This means providing for contractual obligations for balance work | D | | |
| Fin/078 | Ability to account for engineering cost. | E | | |
| Fin/079 | Ability to generate expense order. | E | | |
| Fin/080 | Provision for Component wise breakup of activity and sub-processes | E | | |

| S.No. | Particulars | Essential / Desirable | Vendor Response | |
|---|---|---|---|---|
| | | | Offered ERP Product | If the response is SD, mention the Module Name which supports the requirement |
| Fin/081 | Provision for Bill of material for each activity and sub-process | E | | |
| Fin/082 | Provision for actual issue of material and use of labour to be controlled from activity and sub-processes(exclusively for the manufacturing units not for regions) | E | | |
| Fin/083 | Ability to perform closure of Expense Orders and Accounting | E | | |
| Fin/084 | Ability to issue plant cards and its accounts. | E | | |
| Fin/085 | Ability to generate item number and serial number for Expense Order. | E | | |
| Fin/086 | Provision for Revenue and Capital Expense Order bifurcation, control and its accounting through system | E | | |
| Fin/087 | Ability to generate PIR (Project Initiation Report) | E | | |
| Fin/088 | Ability to perform closure of PIR orders and accounting | E | | |
| Fin/089 | Ability to generate various MIR related to Eng. Cost plan and actual along with their comparison / gaps. | E | | |
| Fin/090 | Ability to calculate WIP based on stage of completion | E | | |
| Fin/091 | Ability to link WIP to each WO, activity and sub-activity | E | | |
| Fin/092 | Provision for diverting bookings by respective manufacturing divisions | E | | |
| Fin/093 | Ability to link WIP to each project, project unit and work order, activity and sub-activity | E | | |
| Fin/094 | Ability to make available details of booking in WO, activity and sub-activity for material, labour,  etc. | E | | |
| Fin/095 | Ability to balance cost for Orders, Activity and sub-activity | E | | |
| Fin/096 | Ability to reconcile OIP for opening WIP, inputs (material, labour). | E | | |
| Fin/097 | Ability to reconcile WIP, with billing, PFR, DAN etc. WIP run should be completed at the shortest possible time and generate WIP with Quantity, value and workorder link | E | | |
| Fin/098 | Provision for Cost ledger, costing P&L, and material, labour, FE summary | E | | |
| Fin/099 | Ability to generate report of PFR and FG. | E | | |
| Fin/100 | Ability to link FG with central dispatch cell(CDC), PFR. | E | | |
| Fin/101 | Ability to link FG for GDPB with Sales / Billing system | E | | |
| Fin/102 | Ability to perform Age wise / project wise analysis of WIP | E | | |
| Fin/103 | Provision for updation of Material and CC percentages (progress) by the production, planning and control(PPC) department online | E | | |
| Fin/104 | Ability to have FG linkage with online WIP calculation. | E | | |
| Fin/105 | Ability to calculate WIP and FG at package level since package is the identifiable unit. | E | | |
| Fin/106 | Ability to generate various exception reports such as progress percentage exist but no cost booking, Cost Booking exists but no progress percentage etc. | E | | |
| Fin/107 | Provision for archival of projects. | D | | |
| Fin/108 | Ability to calculate value add and profitability. | E | | |
| Fin/109 | Ability to generate product profitability and JV. | E | | |
| Fin/110 | Ability to disburse expenditure as per the parameters. This means allocation of department expenses to various cost centres/profit centres based on statistical key figure (SKF) either by way of Assessment cycle or Distribution cycle | E | | |
| Fin/111 | Provision for capturing meter reading for power and fuel | E | | |
| Fin/112 | Ability to interface between HR and Finance department. | E | | |
| Fin/113 | Ability to define Product hierarchy with physical unit completion | E | | |
| Fin/114 | Ability to prepare Cost Statement for each product. | E | | |
| Fin/115 | Provision for Excise tariff head wise classification and reports | E | | |
| Fin/116 | Ability to perform Excise reconciliation and turnover reconciliation | E | | |
| Fin/117 | Ability to generate online reports for cost audit | E | | |
| Fin/118 | Provision for preparing tailor-made reports | E | | |
| Fin/119 | Ability to gather information / data required from various agencies related to Cost Audit. | E | | |
| Fin/120 | Ability to generate rates for budget / sales offer / tenders and calculation  (Last years' actual with budget for this year) based on online real time collection of information from various agencies, its analysis, review and conversion into exception reports in desired format. | E | | |

| S.No. | Particulars | Essential / Desirable | Vendor Response | |
|---|---|---|---|---|
| | | | Offered ERP Product | If the response is SD, mention the Module Name which supports the requirement |
| Fin/121 | Ability to perform retrospective revision of rates. Material price revision or OH rate revision should be carried out to relevant work orders retrospectively. | E | | |
| Fin/122 | Ability to update activity rate as and when labour rate changes. | E | | |
| Fin/123 | Ability to maintain service charges (including man-power) rates and update in the system periodically. | E | | |
| Fin/124 | Provision for division wise research and development(R&D) Expenditure - breakup by item / activity / sub-process | E | | |
| Fin/125 | Ability to perform Division wise ratio analysis (MIR) | E | | |
| Fin/126 | Ability to retrieve information to avail tax benefits as per tax laws | E | | |
| Fin/127 | Ability to generate PIR wise expenditure report. | E | | |
| Fin/128 | Ability to capture rejection & rework  data. | E | | |
| Fin/129 | Ability to capture rework expenditure at various stages of manufacturing and erection at project sites. | E | | |
| Fin/130 | Provision for Element Wise / Head Wise Actual Cost along with its comparison with estimation, using Cost Investigation Reports at every stage of project. | E | | |
| Fin/131 | Provision of revision / adjustment in estimated Cost under various heads to be provided. | E | | |
| Fin/132 | Provision for Element Wise Cost to be Estimated based on latest actual Cost factors and expected rate change for estimation. | E | | |
| Fin/133 | Ability to perform AS-7 accounting for units and business sectors. | E | | |
| Fin/134 | Ability to calculate EFC (Estimated Factory Cost) for AS-7  through BOM and process level costing. | E | | |
| Fin/135 | Ability to calculate AFC (Actual Factory Cost) for AS-7. | E | | |
| Fin/136 | Ability to perform AS-7 analysis of project and product wise. | E | | |
| Fin/137 | Ability to make inter unit allocations through interfaces | E | | |
| Fin/138 | Ability to capture project closure using alerts, similar to project allocation. | E | | |
| Fin/139 | Ability to generate exception reports online along with the components of cost | E | | |
| Fin/140 | Ability to compile element wise cost estimates, cost booking, comparison, reason of variances, and corrective action and its monitoring to be processed and reviewed online. | E | | |
| Fin/141 | Ability to compile project wise AS-7 data at business sector level and pass of AS-7 adjustment entry of turnover | E | | |
| Fin/142 | Ability to perform variance analysis of any defined period | E | | |
| Fin/143 | Provision for contractual obligation is calculated on progressive turnover for project as a whole | E | | |
| Fin/144 | Provision for Segmental Reporting | E | | |
| Fin/145 | Provision for Schedule to Accounts | E | | |
| Fin/146 | Ability to compile item wise/ product wise/ work order wise / sector wise turnover and its reporting. | E | | |
| Fin/147 | Provision for collection of inputs related to monthly/quarterly/ annual accounts from various agencies like PPC, MCX, shop planning, PPX, Purchase bought out item(BOI), Commercial, etc. | E | | |
| Fin/148 | Provision for seperate module for cost plus contracts with facility to transfer costs to be evolved | E | | |
| Fin/149 | Ability to estimate short supplied items. | E | | |
| Fin/150 | Ability to support marginal costing | E | | |
| Fin/151 | Provision of activity based costing. | E | | |
| **Costing - Reports** | | | | |
| Fin/152 | Production Cost report- Listing period and year to date materials and overheads costs against budget and last year. | E | | |
| Fin/153 | Sales and Admin Cost report: Listing period and year to date indirect cost breakup against budget and last year. | E | | |
| Fin/154 | Cash flow report: Listing period and year to date various cash flows against budget and last year, subtotaled at various levels (at least 3) | E | | |
| Fin/155 | Profit and Cash flow forecast: Listing forecasts of various profit / cash flow components for the rest of the year against YTD actual figures. | E | | |
| Fin/156 | Facility to analyse labour deployment (jobwise, activitywise, costcentrewise, yardwise, monthwise, categorywise | E | | |

| S.No. | Particulars | Essential / Desirable | Vendor Response | |
|---|---|---|---|---|
| | | | Offered ERP Product | If the response is SD, mention the Module Name which supports the requirement |
| Fin/157 | Ability to provide the following reports<br><br>-  Cost of Intermediate products<br>-  Cost of Final Products<br>-  Cost sheet each work order wise broken into imported, indigenous material, labour hours, overheads expenditure, other direct charges and  total.<br>-  Cost center wise material and overheads expenditure absorbed.<br>-  Cost Variation Analysis Reports with reference to standard cost each element wise.<br>-  Receipt Voucher reports<br>-  Issue Voucher reports<br>-  Material Transaction Ledger<br>-  Purchase Reconciliation<br>-  Closing Inventory Reports<br>-  ABC Analysis Reports<br>-  FSN Analysis reports<br>-  Cost Ledger<br>-  Master Cost Sheet<br>-  Work in progress<br>-  Closing inventory of BHEL manufactured material<br>-  Rejection Report<br>-  Report on Missing Account Numbers – For labour Booking | E | | |
| **Insurance Claims** | | | | |
| Fin/158 | Ability to capture insurance clause at the time of contract and expected to flow down to the WO level to the unit level and be frozen at corporate level | E | | |
| Fin/159 | Ability to centralize insurance data for plant and machinery (block wise value of assets from book section / modernization dept - single repository of data) | E | | |
| Fin/160 | Ability to handle sub contractors | E | | |
| Fin/161 | Ability to extract insurance data from contract online | D | | |
| Fin/162 | Provision for unit insurance automation | D | | |
| Fin/163 | Ability to automatically forward insurance proposals above INR 50 crore to the corporate office. | D | | |
| Fin/164 | Ability to handle insurane extension requirement. | D | | |
| Fin/165 | Ability to perform online check of insurance linked with the consignment. | E | | |
| Fin/166 | Provision for entering Date of commencement of despatch (for storage cum erection commission policy). | E | | |
| Fin/167 | Ability to generate exception report needed for dispatch date slippages and triggers for the same | D | | |
| Fin/168 | Ability to track policies for expiry before one month of expiring and alert message to be generated for the same | D | | |
| Fin/169 | Provision for sending periodical reminders for claims. | D | | |
| Fin/170 | Ability to handle Automatic bidding (reverse auction) process. | E | | |
| Fin/171 | Ability to generate exception report to validate expired policy and automatic email alerts; dispatch to be blocked in case policy has expired | E | | |
| Fin/172 | Ability to declare consignments to be covered under Marine policy online. | E | | |
| Fin/173 | Provision for Single point declaration for export consignments. | E | | |
| Fin/174 | Provision for online Claim intimation following proper workflow | E | | |
| Fin/175 | Ability to generate claim requisition to transporter and underwriter. | E | | |
| Fin/176 | Ability to generate damage certificate. | E | | |
| Fin/177 | Ability to send Monetary claim certificate to transporter | E | | |
| Fin/178 | Document management system expected | E | | |
| Fin/179 | Online reconciliation, analysis and generation of reports | E | | |
| Fin/180 | Ability to generate auto alerts to concerned person, one final claim lodged to underwriters and claim workflow to be captured. | E | | |

| S.No. | Particulars | Essential / Desirable | Vendor Response | |
|---|---|---|---|---|
| | | | Offered ERP Product | If the response is SD, mention the Module Name which supports the requirement |
| Fin/181 | Ability to provide list of materials issued to sub-contractors for claims. (outward consignment dependent on commercial; for imports, materials management(MM) feeds the data, therefore system based coordination between MM and supplier needed to avoid some of the consignment lying uncovered due to lack of coordination) | E | | |
| Fin/182 | Ability to make available cost data of the units for lodging of insurance claims. In case of Raw-material, material cost data and incase Semi finished goods cost of SF goods and in case of FG, despatch cost | E | | |
| **Sales Tax** | | | | |
| Fin/183 | Data flow from different sections for sales tax, input VAT rebate purpose (for filing of returns, for assessment and for VAT Audit) | E | | |
| Fin/184 | Ability to make available data of Input Tax Credit to sales tax section | E | | |
| Fin/185 | Ability to classify Sales and Purchase data based on source and destination states as per applicable sales tax law | E | | |
| Fin/186 | Ability to make available documents relevant for sales tax purpose, like LR copy, HE Advice, Invoice Copy, Invoice Copy of Supplier, Road Permit, Bill of Lading for Export/for import,ARE-1,Packing list, Bill of Entry for imports, High Sea Sales Agreement, TIN Details of Customers and suppliers. | E | | |
| Fin/187 | Ability to make available Material Directory along with Applicable VAT Rate and relevant Schedule Entry which will  considerably help us in getting Input Tax Credit under the VAT Laws for the purpose of preparation of returns and reconciliation for payment of tax. | E | | |
| Fin/188 | Provision for System Integration for data relating to transfer out and in to and from sister units. Reconciliation of data online. | E | | |
| Fin/189 | Provision for all data for all concessional sales tax forms automation and trigger. | E | | |
| Fin/190 | Ability to generate automated E-Mails/letters to customer on periodic basis regarding issue of pending sales tax forms for timely collection of forms. Ability to capture relevant data automatically from customers' master. | E | | |
| Fin/191 | Ability to generate automated reports and intimate to customers regarding differential tax liability in respect of pending sales tax forms. | E | | |
| Fin/192 | Ability to generate automated invoices for differential tax and abllity to maintain data base for the same | E | | |
| Fin/193 | Ability to link various types of invoices generated | E | | |
| Fin/194 | Provision for Customers data master with details of place, state ,PIN code for consignee address as well as for paying authority address | D | | |
| Fin/195 | Ability to reconcile turnover / purchases as per books of accounts with sales tax data . | E | | |
| Fin/196 | Ability to make available relevant documents and availability of deficiency report for documents not available.(Commercial and MM Department) | E | | |
| Fin/197 | Ability to integrate with Purchase bills section, Miscellaneous Section ,Works Section for online availability of Input Tax rebate data to be availed | E | | |
| Fin/198 | Ability to make available information with respect to category as per VAT ACT schedule | E | | |
| Fin/199 | Provision for Issuance / utilization / surrender of road permits | E | | |
| Fin/200 | Ability to segregate data in different categories as required for the purpose of Exit Tax. | E | | |
| **Excise** | | | | |
| Fin/201 | Ability to generate Discrepancy report between data at RG-I stage and while availing CENVAT credit at excise cell | E | | |
| Fin/202 | Ability to classify Excise Invoice into Input and capital (as per excise rules) | E | | |
| Fin/203 | Ability to generate delivery instruction (DI) for Rejected material and PMIV for free issue material online and make available to excise cell for preparation of excise Invoice. | E | | |
| Fin/204 | Provision for Online reconciliation of CENVAT data between Excise cell and purchase Accounting | E | | |
| Fin/205 | Ability to capture D3 (rejected material returned by customer) information and link with billing system | E | | |
| Fin/206 | Provision for Data availability of bill of entries (BOE). | E | | |
| Fin/207 | Ability to generate input credit for supply of material against different excise challans. | E | | |

| S.No. | Particulars | Essential / Desirable | Vendor Response | |
|---|---|---|---|---|
| | | | Offered ERP Product | If the response is SD, mention the Module Name which supports the requirement |
| Fin/208 | Ability to reconcile automatically data of PLA system/Accounting system/Invoicing system | E | | |
| Fin/209 | Ability to integrate service tax data from various bill passing section and generation of Input Service tax Credit register | E | | |
| Fin/210 | Ability to integrate data relating to service provided by BHEL. | E | | |
| Fin/211 | Ability to integrate data from different sections and Classify between services, wherein BHEL pay service tax as a service recipient. | E | | |
| Fin/212 | Ability to process service tax payment. | E | | |
| Fin/213 | Ability to make available data for filing of service tax return, input service distribution (including system generated invoice for service tax distribution) and reverse charge mechanism. | E | | |
| Fin/214 | Ability to make available information required by tax authorities along with audit trail. | E | | |
| Fin/215 | Ability to capture clearance data "tariff head wise", "excise duty rate wise", "exemption notification wise" | E | | |
| Fin/216 | Ability to integrate data and compile as per various services | E | | |
| Fin/217 | Provision for Tariff Head and exemption notification to be selected from master list | E | | |
| Fin/218 | Provision for Tariff Head wise master data for the product. | E | | |
| Fin/219 | Ability to prepare Export documents viz. ARE-01 and Invoice online on the basis of DAN, LR copy and updation of bond register thereof | E | | |
| Fin/220 | Ability to generate periodical reminders to concerned commercial department regarding submission of export proof. | E | | |
| Fin/221 | Provision for freezing of export invoices for the respective sales group till the pending proof of export documents are not submitted to excise within stipulated time. | E | | |
| Fin/222 | Ability to integrate with budget section and cost section for the estimation of excise duty calculation | E | | |
| Fin/223 | Provision for data availability for reversal of CENVAT for non-moving inventory and reversal of the same. | E | | |
| **Account Receivable** | | | | |
| Fin/224 | Ability to maintain an Accounts Receivable master record with the following details:<br><br>- Customer Name<br>- Customer Code<br>- Customer Address<br>- Customer phone no., fax, e-mail<br>- Customer Credit<br>- Customer payment terms<br>- Contract details<br>- Product code<br>- Product description<br>- Delivery date<br>- Delivery Quantity<br>- Marketing officer | E | | |
| Fin/225 | Ability to generate alerts / reminders based on the Payment terms with the customer | E | | |
| Fin/226 | Provision for all transactions related to a product is delivered with reference to its product code | E | | |
| Fin/227 | Ability to maintain delivery receipt for a product which is delivered | E | | |
| Fin/228 | Ability to generate Invoices for a product based on automatic capture of data | E | | |
| Fin/229 | Ability to generate Invoice Verification Certificate | E | | |
| Fin/230 | Ability to allow user defined formats for the certificates | E | | |
| Fin/231 | Ability to allow user defined formats for the invoices | E | | |
| Fin/232 | Ability to support preparation of more than one type of invoices like Proforma invoice, invoice for advance payment , invoice for claim bill and invoice for account purpose bill for accounting sundry debtors. | E | | |
| Fin/233 | Aility to allow finance users to generate and verify invoices | E | | |

| S.No. | Particulars | Essential / Desirable | Vendor Response | |
|---|---|---|---|---|
| | | | Offered ERP Product | If the response is SD, mention the Module Name which supports the requirement |
| Fin/234 | Ability to generate reminders and alerts for invoiced and due from customers | E | | |
| Fin/235 | Ability to generate receipt for cash / cheque payments | E | | |
| Fin/236 | Ability to generate receipt for Bank Gurantee,Letter of credit etc | E | | |
| Fin/237 | Ability to automatically update the accounting records as soon as the receipt is generated | E | | |
| Fin/238 | Ability to generate reminders to clients for payments | E | | |
| Fin/239 | Ability to allow recording reasons against late payments made by customers | E | | |
| Fin/240 | Ability to generate reports on Ageing analysis | E | | |
| Fin/241 | Ability to maintain data and generate reports on Outstandings from customer with reasons and action plan | E | | |
| Fin/242 | Ability to record the following details in the Journal Voucher<br><br>Voucher No:<br>Control No: & Control Date:<br>A/c & sub A/c details<br>Description<br>Approval Authority | E | | |
| Fin/243 | Ability to separate the creation and approval of customer invoices and modifications | E | | |
| Fin/244 | Provision for accounting of cash receipts | E | | |
| Fin/245 | Ability to support accounts receivable reporting including:<br><br> - Throughputs by revenue category, customer and period;<br> - Customer performance;<br> - Cash due in, by period; and | D | | |
| Fin/246 | Facility of displaying the account balances for customer. Ability to generate report on Balance for all customer on a single screen displaying for supply,freight,PVC, MRC,Event,Final etc | E | | |
| Fin/247 | Provision for account balances showing the Previous years figure and the YTD figure | E | | |
| Fin/248 | Facility of reversing of Invoices | E | | |
| Fin/249 | Ability to have trend analysis based on the customer hierarchy | D | | |
| Fin/250 | Ability to list the inactive customers and then delete it after necessary approval | D | | |
| Fin/251 | Provision of reprinting of invoices | E | | |
| Fin/252 | Ability to generate the pay-in- slip as per the bank format | E | | |
| Fin/253 | Ability to capture the details of multiple Invoice/ Multiple party details in one Pay in slip | E | | |
| Fin/254 | Provision for linking the Bank Receipt payment advice with the pay-in-slip | E | | |
| Fin/255 | Ability to provide a Hiererchial Approval facility | E | | |
| Fin/256 | Ability to link the receipts to the Invoices | E | | |
| Fin/257 | Ability to flag a certain amount of Invoice as retention money and keep a track of the same | E | | |
| Fin/258 | Ability to account Invoice & realizations  in foreign currency | E | | |
| Fin/259 | Ability to capture the Number of times cheque bounced. | E | | |
| Fin/260 | Ability to calculate the interest on overdue balances as it may be specified by the user | E | | |
| Fin/261 | Provision of trail balance, aging reports and accounts receivables action reports | E | | |
| Fin/262 | Ability to analyze customer payment performance | D | | |
| Fin/263 | Ability to support ad-hoc customer inquiry/reporting | D | | |
| Fin/264 | Ability to support ad-hoc receivable inquiry/reporting | D | | |
| Fin/265 | Ability to provide for billing based on<br><br>- element wise billing (including TDS)<br>- Stage wise billing<br>- Mix of element and Stage-wise | E | | |

| S.No. | Particulars | Essential / Desirable | Vendor Response | |
|---|---|---|---|---|
| | | | Offered ERP Product | If the response is SD, mention the Module Name which supports the requirement |
| Fin/266 | Ability to provide for Proforma billing(Advance / Stage-wise) & Final billing | E | | |
| Fin/267 | Ability to maintain Invoices with the following attributes<br><br>- Date of generation<br>- Date of despatch to Customer<br>- Date of receipt by Customer<br>- Date of Certification by Customer | E | | |
| Fin/268 | Ability to provide for accepted disallowance | E | | |
| Fin/269 | Ability to provide for billing, submission of the bills and the bills disallowed by the customer | E | | |
| Fin/270 | Provision to account for the difference between billed amount and received amount | E | | |
| Fin/271 | Ability to track details of bills yard wise,bills returned, bills lying with the customer at different stages | E | | |
| Fin/272 | Provision to handle returned bills | E | | |
| Fin/273 | Provision for resubmission of Bill multiple times | E | | |
| Fin/274 | Ability to generate report of Orders received for a given period | E | | |
| Fin/275 | Ability to generate report of Orders yet to be executed for a given date | E | | |
| Fin/276 | Ability to capture/feed the price break up of order (Material, Labour etc) | E | | |
| Fin/277 | Ability to maintain Delivery Schedules for various orders. | E | | |
| Fin/278 | Ability to provide Delayed Payment Charges (DPC) provision for late payment from a given date | D | | |
| Fin/279 | Ability to provide Warranty provision where warranty was given in the order | E | | |
| Fin/280 | Ability to  reverse warranty provision for the warranty completed items | E | | |
| Fin/281 | Provision to include, edit, delete statutory levies | E | | |
| Fin/282 | Ability to make available all contract documents, internal orders and billing breakups online. Project identification should be uniform.  Any special condition of the customer should be shown seperately. | E | | |
| Fin/283 | Ability to make available all necessary documents required for billing like dan, lr copy, road permit, dispatch clearance certificate, bill of lading in case of export etc  as per contract terms and condition is expected to be lined up and available on line for reference at the time of billing. | E | | |
| Fin/284 | Ability to generate Invoices automatically on despatch with required details like packing list, packing slip, lr number, road permit etc. | E | | |
| Fin/285 | Ability to prevent concurrent editing of document details while generating excise invoice. | E | | |
| Fin/286 | Ability to categorise all billing break up  as meant for excise billing (gdpb) or for commercial billing. | E | | |
| Fin/287 | Ability to mention Excise tariff code  in billing breakup itself and capture directly at the time of billing. | E | | |
| Fin/288 | Ability to restrict processing of billing if contract terms and conditions are not fulfilled i.e. Advance not received, less advance received, lc not opened, mdcc not received etc. | E | | |
| Fin/289 | Ability to freeze Financial terms and conditions, including terms of payment, mode of payment, freight & insurance, pvc, applicability of taxes and duties  at centralized level and drilled down to work order level and all billing to be done accordingly. | E | | |
| Fin/290 | Provision for separate module for billing deemed dispatch (Performa Invoice) | E | | |
| Fin/291 | Ability to update exchange rates daily through centralized channel. (buying rates). All Bill selling, Bill Buying, TT selling, TT Buying rate to be included | E | | |
| Fin/292 | Ability to link repairs w.o.s with d-3 register. | D | | |
| Fin/293 | Ability to generate billing for freight, PVC, MRC, Milestones, duties & taxes, reimbursement, insurance and final bill. | E | | |
| Fin/294 | Provision for GL assignment based on the category of despatch like regular supply, free supply, deemed export etc. | E | | |
| Fin/295 | Provision for Contract based billing cover invoice with linkage to the original supply/excise invoice to be enabled. | E | | |
| Fin/296 | Ability to track and generate alert for supplies made but not billed. | E | | |
| Fin/297 | Ability to maintain Foreign currency ledger online and link directly with invoicing and collection. | E | | |

| S.No. | Particulars | Essential / Desirable | Vendor Response | |
|---|---|---|---|---|
| | | | Offered ERP Product | If the response is SD, mention the Module Name which supports the requirement |
| Fin/298 | Ability to calculate PVC factors automatically based on agreed formula and indices and to be billed within the month of despatch. PVC factor means price variation clause factor. | E | | |
| Fin/299 | Ability to generate mile stone billing advice automatically through a central link for all sector and direct orders. Price Variation Claim as per agreed formula with customer should be billable within the same month of despatch subject to PVC ceiling with reference to several supply bills | E | | |
| Fin/300 | Ability to generate automatic intimation for all commercial/excise-cum-commercial invoices to customer through email | E | | |
| Fin/301 | Ability to generate trigger for freight, mrc, pvc, erv, e & c, milestone etc. | E | | |
| Fin/302 | Ability to generate invoicing automatically whenever due as per contract terms. | E | | |
| Fin/303 | Ability to ensure for a contract the sum of all work orders values is equal to the amount allocated / contract value. | E | | |
| Fin/304 | Ability to ensure that the sum total of all despatchable unit against a particular item of work order is equal to the item value. | E | | |
| Fin/305 | Ability to reconcile total billing and order value. | E | | |
| Fin/306 | Ability to invoice single billing break up unit(BBU) in multiple currencies | E | | |
| Fin/307 | Ability to generate invoice automatically . | E | | |
| Fin/308 | Provision for automatic inter unit transactions through transfer in/out | E | | |
| Fin/309 | Ability to handle Export billing process | E | | |
| Fin/310 | Ability to make available transactional data and its modification based on authorization | E | | |
| Fin/311 | Provision for linkage with ARE-1 form and fulfilment of export obligation vis-a-vis license | E | | |
| Fin/312 | Ability to handle SEZs as a separate module. Supplies to SEZ qualify for certain Tax exemptions and we need to maintain separate records and turnover heads | E | | |
| Fin/313 | Ability to generate supplementary invoice. | E | | |
| Fin/314 | Ability to generate credit note by updating all the data against main invoice. | E | | |
| Fin/315 | Provision for PVC billing process to happen automatically by updating the indices considering L2 schedule, actual delivery, PVC formula, and overall ceiling. PVC Billing means, Billing with respect to Price variations, It is always as per contract specific. | E | | |
| Fin/316 | Ability to handle MRC billing process. Some of the customers insist for Material Receipt Certificate for making supply bill on them and due linkage is to be established | E | | |
| Fin/317 | Provision for day book entry number at item level with linkage to LR to be captured at site to enable units to bill for MRC. On receipt of goods at Project site, Day book entry is made as an acknowledgement of receipt which has to be captured for MRC | E | | |
| Fin/318 | Provision for milestone billing process to happen automatically based on milestone completion information from sector. We have Stage payment upon reaching certain agreed mile stones in the contract and the Industry sector will advise the completion of such completion of milestones which should be the triggering point for Milestone billing | E | | |
| Fin/319 | Provision for final deferred billing process to happen automatically with linkages to the supply through the system based on milestone completion information from sector commercial. As the payment terms with Customer envisages Delay payment for milestone completion, the deferred bill should be raised linking the relevant supply bills | E | | |
| Fin/320 | Provision to replace existing CPC, CCN, PI with a unique number. At present we have Customer Project Code, Customer Contract Number (by Units) and Project identifier which has to be replaced by a single unique number | E | | |
| Fin/321 | Provision for Freight & Insurance Billing process to happen automatically. Most of contracts are ex-works and the freight is payable by customer either at the agreed percentage or weight or lumpsum and system should be capable of auto billing of freight on despatch confirmation | E | | |
| Fin/322 | Provision for Services Billing process to happen automatically. Services are rendered to customer on call and on chargeable bases for which billing should trigger based on activity completion | E | | |
| Fin/323 | Ability to make available all approved BBUs to be a part of Centralized system. Customer Billing Break up for various mfg. units has to be made available in centralized location in the system | E | | |

| S.No. | Particulars | Essential / Desirable | Vendor Response | |
|---|---|---|---|---|
| | | | Offered ERP Product | If the response is SD, mention the Module Name which supports the requirement |
| Fin/324 | Ability to link customer billing to erection sub-contractor payment wherever possible. Erection at sites is done by BHEL contractors and there could be cases where achievement of these milestones entitles BHEL for raising customer invoice. Wherever possible this link should be given | E | | |
| Fin/325 | Ability to generate Engineer 's certificates (Protocol). | D | | |
| Fin/326 | Ability to make online Submission of engineer certificates and MRCs with site finance | E | | |
| Fin/327 | Ability to prepare invoice and submit to customer for cash realization | E | | |
| Fin/328 | Ability to reconcile billing after completion of work | E | | |
| Fin/329 | Provision for man power services / deputation, maintenance and linkages of time sheet to TA claim / attendance | E | | |
| Fin/330 | Ability to handle BOI billing process with due linking to MM system. | E | | |
| Fin/331 | Provision for item wise billing (linkage of sale with purchase) | E | | |
| Fin/332 | Provision to maintain a database of differential prices. | E | | |
| Fin/333 | Ability to link all collections (direct or ROD) to invoice by the collecting agency. | E | | |
| Fin/334 | Ability to capture collection details at the collecting agency level; | E | | |
| Fin/335 | Ability to capture reason for short payment. | E | | |
| Fin/336 | Ability to make available BBU level information of letter of credit(LC) open. | E | | |
| Fin/337 | Ability to automate the collection process. | E | | |
| Fin/338 | Ability to automatically create collection notifications based upon set aging levels | E | | |
| Fin/339 | Ability to provide a worklist for the collection and ability to priortize the collections, record the promise to pay from the customer | E | | |
| Fin/340 | Ability to integrate with other systems including but not restricted to: Accounts receivable, Sales & distribution, Credit management, dispute management, biller direct etc. | E | | |
| Fin/341 | Ability to measure day sales outstanding trends, reduce frequency of deductions & underpayments. | E | | |
| Fin/342 | Ability to provide internet-based, self-service application that enables other departments to perform variety of Receivables functions via standard web browser such as on-line inquiries, reprint invoices, dispute bills and review current account balances. | D | | |
| Fin/343 | Provision to trigger Credit memo request workflow in case of disputing a bill from the above self-service application. | E | | |
| Fin/344 | Provision for data capture directly into the database & data capture in the unit ledgers to be based on the invoice or advance information entered by the collecting agency | E | | |
| Fin/345 | Ability to make available centralised database for all customer accounts from which amounts are remitted to BHEL | E | | |
| Fin/346 | Ability to make available customer account no. from which funds are remitted through customer master data | E | | |
| Fin/347 | Ability to generate exception report. | E | | |
| Fin/348 | Ability to generate customer wise outstandings report with categorisation of collectible, deferred, GDPB, advance and valuation. | E | | |
| Fin/349 | Provision for master data creation at single source. | E | | |
| Fin/350 | Ability to generate balance confirmation letters. | E | | |
| Fin/351 | Ability to facilitate information on adjusted portion of BG. | E | | |
| Fin/352 | Ability to generate email to commercial divisions for adjusted portion of BG. | E | | |
| Fin/353 | Abiltiy to generate report for linkage of performance of BGs with unexecuted contract values online at contract level | E | | |
| Fin/354 | Provision for item wise linkage of pending dispatches and work in addition to planned completion date to be available online for each BG | E | | |
| Fin/355 | Provision for automated approval of BG. | E | | |
| Fin/356 | Ability to make Calulation& Allocation of BG commission in line with the agreement with banks for the same | E | | |
| Fin/357 | Ability to make Calculation, Allocation& Accounting of Prepaid Commission online | E | | |
| Fin/358 | Ability to generate email for expiry of BG to commercial divisions for further action | E | | |
| Fin/359 | Ability to generate necessary report on pendency, validity, extensions etc. on periodic basis | E | | |

| S.No. | Particulars | Essential / Desirable | Vendor Response | |
|---|---|---|---|---|
| | | | Offered ERP Product | If the response is SD, mention the Module Name which supports the requirement |
| Fin/360 | Ability to handle outward freight bill payment. | E | | |
| Fin/361 | Ability to handle despatches made and bills yet to be received for transportation | E | | |
| Fin/362 | Ability to generate mail and SMS alerts to transporter at the time of registration, NCR and at the payment stage with all payment details | E | | |
| Fin/363 | Ability to handle payment to be collected from customer on actual basis | E | | |
| Fin/364 | Provision for automatic bill passing through system based on various parameters like weight, distance, delivery period etc. | E | | |
| Fin/365 | Ability to adjust earnest money deposit(EMD), Security deposit, BG monitoring etc. | E | | |
| Fin/366 | Ability  for Linking of Freight Invoice (Actual reimbursement cases) with outward freight payment to transporter | E | | |
| Fin/367 | Ability to raise Freight/MRC/PVC invoices with Linkage to commercial/cover Invoice. | E | | |
| Fin/368 | Ability to record cash collection against commercial/cover Invoice | E | | |
| Fin/369 | Ability to raise Input ERV Invoice Linked with MM system | E | | |
| **Cash Management** | | | | |
| Fin/370 | Ability to allow following Cash / bank payments:<br><br> - Vacation Settlement<br> - Cash Advances<br> - Lumpsum / Re-imbursement Payments<br> - Other payments<br> - Electricity Bill<br> - Water Bill<br> - Telephone Bill | E | | |
| Fin/371 | Ability to capture petty cash transactions. | D | | |
| Fin/372 | Ability to cater to the following information on the Bank record<br><br> - Bank code<br> - Branch  name and address<br> - Type of Account<br> - Account No<br> - Signatories authorise to operate the account<br> - Relevant GL code<br> - Name of the chief manager or contact person<br> - Telephone No<br> - Balance as per Bank | E | | |
| Fin/373 | Ability to maintain cheque book No issued by the bank. | D | | |
| Fin/374 | Ability to generate a report before the payments run to list payments to each vendor | E | | |
| Fin/375 | Ability to generate payment forecast for the specified periods | E | | |
| Fin/376 | Ability to generate comprehensive cash requirements reports by period planned payment run date | E | | |
| Fin/377 | Ability to produce comprehensive cash requirements reports by bank | E | | |
| Fin/378 | Ability to produce comprehensive cash requirements reports by Vendor type | E | | |
| Fin/379 | Ability to produce comprehensive cash requirements reports by user definition | E | | |
| Fin/380 | Ability to show amounts expected to be paid in all planned payment runs in a user specified period | E | | |
| Fin/381 | Cash requirements reports and inquiries take into account:<br><br>- registered, but unapproved invoices<br>- projected payments in respect of goods received, but not invoiced<br>- projected payments in respect of goods on order, but not received | E | | |

| S.No. | Particulars | Essential / Desirable | Vendor Response | |
|---|---|---|---|---|
| | | | Offered ERP Product | If the response is SD, mention the Module Name which supports the requirement |
| Fin/382 | Provision for part payments | E | | |
| Fin/383 | Ability to handle cheque on a different date than the payment voucher date and if both dates fall in different accounting periods. | E | | |
| Fin/384 | Ability to issue post dated cheque | E | | |
| Fin/385 | Ability to specify individual general ledger codes for each bank account | E | | |
| Fin/386 | Ability to handle advance payments with and without invoice | E | | |
| Fin/387 | Ability to perform reconciliation | E | | |
| Fin/388 | Ability to provide listing of outstanding cheques. | E | | |
| Fin/389 | Ability to reconciel voided, cancelled or returned cheques. | E | | |
| Fin/390 | Facility for importing the bank statements for the purpose of bank reconciliation | E | | |
| Fin/391 | Provision for Fund arrangement requirements online, based on due date; also status of the  payments to be maintained for 3 months (audit trail feature) | E | | |
| Fin/392 | Ability to generate project wise and product wise payment details. | E | | |
| Fin/393 | Ability to make projected cash flow statement for every month based on system data | E | | |
| Fin/394 | Ability to include Bill discounting and other Bank Loans for projecting cash flows | E | | |
| Fin/395 | Ability to reconcile all bank statements on value date basis. | E | | |
| Fin/396 | Ability to track status for foreign LC, in case of payments related to corporate sanctions | E | | |
| Fin/397 | Ability to view status of pending Indigenous LC. | E | | |
| Fin/398 | Ability to view status of pending discounting bills. | E | | |
| Fin/399 | Ability to view status of exception items. | E | | |
| Fin/400 | Ability to view status cheques that have not been credited from the bank. | E | | |
| Fin/401 | Ablity to generate alerts for minimum cash status | E | | |
| Fin/402 | Ability to generate report for bank status and internal status | E | | |
| Fin/403 | Ability to track status of bills | E | | |
| Fin/404 | Ability to view the status of surplus and deficit | E | | |
| Fin/405 | Provision to view real time availability of funds as well as bills pending. | E | | |
| Fin/406 | Provision for Unlinked debit/credit entries (including stale cheques). | E | | |
| Fin/407 | Ability to maintain EFT mandate. | E | | |
| Fin/408 | Ability to categorise  vendors including micro, small and medium enterprise(MSME). | E | | |
| Fin/409 | Ability to view amount present in the account after making all payments. | E | | |
| Fin/410 | Ability to prepare cash book. | E | | |
| Fin/411 | Ability to prepare detailed list should be available for valuable documents (like FD). | E | | |
| Fin/412 | Ability to generate value wise and quantity wise report for custody and distribution of valuables to employees | E | | |
| Fin/413 | Ability to perform reconciliation on daily basis and unlinked item to be highlighted | E | | |
| Fin/414 | Provision for Admitted account reconciliation. | E | | |
| Fin/415 | Ability to view Cash Information for multi-location within unit | E | | |
| Fin/416 | Ability to generate reports and MIRs. | E | | |
| Fin/417 | Ability to provide coordination for cash verification by audit. | E | | |
| Fin/418 | Ability to provide coordination with finance /books for quarterly/annual accounts to be moved from existing batch processing to online real time processing | E | | |
| Fin/419 | Ability to prepare schedules for audit, coordination with  statutory  auditors (regular / 11.5.8.1 proprietary / tax / reviews) and fulfill requirements of govt. auditors online | E | | |
| **Books & Budget** | | | | |
| Fin/420 | Flexible for change in Account Master / Link Sheet Master / Account Closing Guidelines for compliance of accounting standard / corporate guidelines | E | | |
| Fin/421 | Ability to consolidate at  multiple levels to be enabled. | E | | |
| Fin/422 | Provision for validation of entries. | E | | |
| Fin/423 | Ability to generate reports to meet all statutory and management requirements like social overheads, annual statistical return etc. | E | | |
| Fin/424 | Provision for Audit Information System / Separate module for Audit. | E | | |

| S.No. | Particulars | Essential / Desirable | Vendor Response | |
|---|---|---|---|---|
| | | | Offered ERP Product | If the response is SD, mention the Module Name which supports the requirement |
| Fin/425 | Ability to receive inputs from different sections for budget and flash results to be available online. | E | | |
| Fin/426 | Provision for Budget approval online | E | | |
| Fin/427 | Ability to prepare Month wise budget at the unit level. | E | | |
| Fin/428 | Ability to allocate budget to various departments. | E | | |
| Fin/429 | Ability to generate capital budget and MIR | E | | |
| Fin/430 | Ability to generate Commissioning report. | E | | |
| Fin/431 | Ability to segregate vendors as capital and material. | E | | |
| Fin/432 | Ability to handle Milestone based payment for vendors. | E | | |
| Fin/433 | Ability to provide information on TDS deducted by customer and certificate not submitted by customer. | E | | |
| Fin/434 | Provision for certificates to be submitted to corporate office(CO) and credit awaited to be automatically linkable. | E | | |
| Fin/435 | Provision for reconciliation of 26 AS with TDS deducted by the customer. | E | | |
| Fin/436 | Ability to prepare multiple budget pojections/ results- operating, BS, Cash flow etc. for current FY and next two years. | E | | |
| Fin/437 | Ability to generate reports on budget parameters with comparative with previously set budgets | E | | |
| **Asset Management and Accounting** | | | | |
| Fin/438 | Ability to accommodate a user-definable asset number of up to 12 characters. | E | | |
| Fin/439 | Ability to support any number of assets without restriction | E | | |
| Fin/440 | Ability to allow retention of details of written-off assets, whilst excluding these from general reporting and all current asset valuation calculations. | D | | |
| Fin/441 | Ability to handle following depreciation methods<br><br> - straight line life in years,<br> - reducing balance percentage per year,<br> - Depreciation on revaluation  based on useful life | E | | |
| Fin/442 | Option to generate sequential number per asset | D | | |
| Fin/443 | Provision to enter Product / Department cost center codes in the fixed assets system at the time of approval of capex and subsequent usage as asset code | D | | |
| Fin/444 | Ability to capture all transaction along with this cost center data throughout the system ie receipt at store in Stores module, or bill passing or payment in Accounts Payable module, Assets capitalisation entries in GL module. | E | | |
| Fin/445 | Ability to store more than one type of depreciation formula against an asset for different purposes:<br><br> - addition date,<br> - disposal date,<br> - Location,<br> - asset code<br> - custodian<br> - asset category (general ledger category),<br> - asset life,<br> - remaining life (if not derived),<br> - cost,<br> - Break up of cost ie gross bill amt, Errection and foundation, Freight, Insurance, allocation of pre operative expenses, interest capitalised etc. | E | | |

| S.No. | Particulars | Essential / Desirable | Vendor Response | |
|---|---|---|---|---|
| | | | Offered ERP Product | If the response is SD, mention the Module Name which supports the requirement |
| Fin/446 | Provision for the element of cost as mentioned above be totaled for a particular year or range of years or a code or range of codes in a user defined manner<br><br>- expected final written down value (WDV),<br>- depreciation:<br>- period,<br>- year to date,<br>- cumulative,<br>- adjustments,<br>- written down value,<br>- insurance value,<br>- disposal proceeds,<br>- supplier,<br>- invoice number,<br>- invoice date,<br>- supplier reference,<br>- location,<br>- department,<br>- serial number,<br>- whether the item has been acquired as a finance lease, hire purchase or ordinary purchase item. | E | | |
| Fin/447 | Ability to provide reference of the voucher number through which the asset has been capitalised. | E | | |
| Fin/448 | Ability to provide Capex/Project budget amount for the asset. | E | | |
| Fin/449 | Ability to categorise assets to facilitate a variety of depreciation rates. | E | | |
| Fin/450 | Provision to allow change in the method of depreciation | E | | |
| Fin/451 | Ability for assets sold or dicarded to be retained in the system along with a flag to highlight 'sold /discarded'. | E | | |
| Fin/452 | Ability to automatically generate the entry for loss/Profit of sale of assets | E | | |
| Fin/453 | Ability to automatically generate the necessary transactions to support asset transfers | E | | |
| Fin/454 | Transfer Notes linked to Asset master data | E | | |
| Fin/455 | Ability to automatically update the location of an Asset as soon as a Transfer Note is approved for trasfer of the asset | E | | |
| Fin/456 | Provision for write-on, write-off and transfer transactions automatically posted to the General Ledger? (including for impaired assets) | E | | |
| Fin/457 | Ability to automatically post depreciation allocations per user defined criteria | E | | |
| Fin/458 | Ability to generate adjustment transactions online for posting to the General Ledger | E | | |
| Fin/459 | Provision for transactions generated automatically by activity related to fixed assets traceable via an audit trail | E | | |
| Fin/460 | Drill down facility from GL based on a voucher number | E | | |
| Fin/461 | Ability to facilitate asset capitalisation, such as capitalisation of items fabricated in workshops, work-in-progress, etc. | E | | |
| Fin/462 | Ability to support parent-child relationships among assets. | D | | |
| Fin/463 | Ability to generate annual insurance re-valuation and replacement cost reports | D | | |
| Fin/464 | Capability of grouping the same assets as per the Company law requirements and also as per Income Tax requirements | E | | |
| Fin/465 | Ability to maintain data on repair cost asset wise. | D | | |

| S.No. | Particulars | Essential / Desirable | Vendor Response | |
|---|---|---|---|---|
| | | | Offered ERP Product | If the response is SD, mention the Module Name which supports the requirement |
| Fin/466 | Ability to allocate overhead account balances to other accounts based on:<br><br>- fixed percentages<br>- percentage computed by actual amounts maintained in the database<br>- percentage computed by statistical data maintained in the database<br>- percentage computed by budget data maintained in the database<br> - user defined<br>- percentages computed on the basis of projectwise parameters ( Please provide description) | E | | |
| Fin/467 | Ability to post any GL transaction to multiple account distributions based on user-defined percentage | E | | |
| Fin/468 | Ability to print various allocation schedules prior to the financial closing of the period | E | | |
| Fin/469 | Ability to support allocation schedules using a percentage distribution to compute the required allocation of overhead expenses to the various cost centers | E | | |
| Fin/470 | Ability to allow user to specify different cost allocation to be performed at different time periods e.g. monthly, quarterly, etc | E | | |
| Fin/471 | Provision for allocations to be based on calculations that use actual and/or budget amounts | E | | |
| Fin/472 | Ability to reverse allocation information. | E | | |
| Fin/473 | Ability to identify costs as Direct and Indirect | E | | |
| Fin/474 | Ability to generate Tax returns as per law | E | | |
| Fin/475 | Ability to provide VAT compliance | E | | |
| Fin/476 | Ability to handle service tax, central excise and VAT | E | | |
| Fin/477 | Ability to provide automatic liability calculation based on Stores / Commercial department's entries | E | | |
| Fin/478 | Assets module including  "procurement, commissioning and accounting" to part of the fixed assets module (from purchase approval to disposal entire cycle should be covered) | E | | |
| Fin/479 | Ability to interface with payroll needed | E | | |
| Fin/480 | Provision for online assets register with:<br><br>- asset reference code,<br>- description, location<br>- short name,<br>- memorandum notes (optional, and up to 1,000 characters),<br>- depreciation type, account code<br>- depreciation formula, cash claim | E | | |
| Fin/481 | Ability to track assets (Movable/Non-Movable and not product) for physical verification. | E | | |
| Fin/482 | Ability to handle transfer of assets across units with gross block, depreciation and other relevant details | E | | |
| Fin/483 | Ability to identify Machine not in use / sold. | D | | |
| Fin/484 | Ability to capture shift details. | E | | |
| Fin/485 | Ability to mark assets already approved for replacement | E | | |
| **Assets - Reports** | | | | |
| Fin/486 | Asset Ownership Register | E | | |
| Fin/487 | Asset Valuation Report | E | | |
| Fin/488 | Asset Write-On, Transfer and write-off Report, for a given period | E | | |
| Fin/489 | Asset Write-On, Transfer and write-off Report, by Owner | E | | |
| Fin/490 | Asset Write-On, Transfer and write-off Report, by Cost Center | E | | |
| Fin/491 | Repair/modification cost asset wise. | E | | |

| S.No. | Particulars | Essential / Desirable | Vendor Response | |
|---|---|---|---|---|
| | | | Offered ERP Product | If the response is SD, mention the Module Name which supports the requirement |
| Fin/492 | Ability to provide following reports<br><br>-  Report on Depreciation made during a given period<br>-  Report on Asset Capitalisation – cost center wise, account code wise<br>-  Report on Reclassification adjustments<br>-  Report on amortisation made during a given period<br>-  Report on working sheet for IT return<br>-  Report on Depreciation Schedule-IT<br>-  Depreciation rates listing<br>-  Asset Capitalization for a given period<br>-  Report on  items  not capitalized for given period<br>-  Report for Item for  which depreciation is not calculated<br>-  Details of assets purchased by Projects | E | | |
| **Export Incentive** | | | | |
| Fin/493 | Ability to prepare and lodge claims for excise duty refund / duty drawback claims | E | | |
| Fin/494 | Ability to monitor the dispatches / receipt of payment against invoices pertaining to deemed export contract to be linked to contract terms | E | | |
| Fin/495 | Ability to generate automatic reminders to commercial /customer. | E | | |
| Fin/496 | Ability to maintain records online. | E | | |
| Fin/497 | Ability to identify Projects where deemed export benefits are available to be, based on online information from business sectors.<br>Deemed export contracts qualify for certain exemptions subject to fulfilment of conditions. System should be capable of identifying the Deemed Exp contracts at all stages | E | | |
| Fin/498 | Ability to preserve associated documents for every claim through a Document Management Module / System | E | | |
| Fin/499 | Ability to link project to license / advance licenses for fulfilment of export obligations | E | | |
| **Account Payable** | | | | |
| Fin/500 | Ability to maintain a Payables register with the following details:<br><br>- Invoice Number (Party)<br>- Date of receipt<br>- Amount<br>- Date sent for approval<br>- Person sent for approval<br>- Approval receipt date (later)<br>- P.O. Number<br>- Purchase type<br>- Invoice Numbers (Internal Control Number) | E | | |
| Fin/501 | Ability to generate acknowledgement receipts | E | | |
| Fin/502 | Ability to allow centralized receipt and payment of invoices with a provision of occasional multiple users. | E | | |
| Fin/503 | Provision for recurring payments be made at a frequency as stipulated by the user | E | | |
| Fin/504 | Ability to provide release - approval hierarchy for Invoice apporval | E | | |
| Fin/505 | Provision for cancellation of Invoice before approval | E | | |

| S.No. | Particulars | Essential / Desirable | Vendor Response | |
|---|---|---|---|---|
| | | | **Offered ERP Product** | **If the response is SD, mention the Module Name which supports the requirement** |
| Fin/506 | -creditor code<br>- vendor reference invoice number<br>- transaction reference for internal use<br>- invoice type<br>- terms<br>- invoice date<br>- invoice receipt date<br>- posting date<br>- due date<br>- period<br>- gross amount<br>- Basic price<br>- Taxes<br>- Duties<br>- discount<br>- penalty deducted for late delivery<br>- other deductions<br>- TDS ITif any<br>- WCT TDS if any<br>- CENVAT credit if any<br>- VAT set off if any<br>- net amount<br>- quantity<br>- unit price<br>- transaction currency<br>- currency rates<br>- payment method e.g. cheque, telex transfer<br>- bank details | E | | |
| Fin/507 | Ability to provide for automatic computation of TDS based on Tax Code (Need for Tax Code Master) | E | | |
| Fin/508 | Ability to enforce additional check for verification for period specified invoices | E | | |
| Fin/509 | Ability to inform at the time of invoice receipt and entry as to whether the invoice is duplicate | E | | |
| Fin/510 | Reference of P.O.under which the items were received | E | | |
| Fin/511 | With respect to Services, Ability to provide reference to Work Done certificate | E | | |
| Fin/512 | Ability to check for duplicate vendor invoice amounts and numbers | E | | |
| Fin/513 | Ability to alert or stop automatically if the invoice has already been paid | E | | |
| Fin/514 | Ability to have multiple lines per invoice | E | | |
| Fin/515 | Ability to enter general ledger code distributions on:<br><br>- purchase orders<br>- individual lines on an invoice | E | | |
| Fin/516 | Ability to copy automatically from the purchase order to the invoice | E | | |
| Fin/517 | Ability to prevent users from changing details copied from the purchase order where resulting payment is more than the P.O. value. | E | | |
| Fin/518 | Ability to request for higher level approval when payment is more than PO. Value | D | | |
| Fin/519 | Ability to check that the total recorded against the distribution lines equals the total invoice sum | E | | |
| Fin/520 | Ability to capture data for printing cheque automatically (for default Bank) and also provision for selecting the bank | E | | |

| S.No. | Particulars | Essential / Desirable | Vendor Response | |
|---|---|---|---|---|
| | | | Offered ERP Product | If the response is SD, mention the Module Name which supports the requirement |
| Fin/521 | Ability to print cheques with:<br><br>- remittance advice above the cheque<br>- cheque above the remittance advice<br>- cheque beside remittance advice<br>- separate cheque and remittance advice | E | | |
| Fin/522 | Ability to customize cheque printing format. | E | | |
| Fin/523 | Ability to accommodate payment of multiple advances to same vendors against various PO through one cheque. | E | | |
| Fin/524 | Ability to allow prorata adjustment of single advance/debit-note against various invoices amount passed. | E | | |
| Fin/525 | Ability to sort cheques by:<br><br>- Creditor number within bank account<br>- PO<br>- vendor-name | D | | |
| Fin/526 | Ability to provide cheque reconciliation. | E | | |
| Fin/527 | Ability to list outstanding cheques | E | | |
| Fin/528 | Ability to reconcile void, cancelled or returned cheques. | E | | |
| Fin/529 | Ability to facilitate matching, of purchase orders, receiving reports (delivery notes) and vendor invoices | E | | |
| Fin/530 | Ability to produce exception reports of unmatched invoices | E | | |
| Fin/531 | Ability to generate debit notes for vendors | E | | |
| Fin/532 | Ability to maintain the master accounts payable data<br><br> - Vendor address, creditor code and contact details<br> - Vendor Bank details PAN no., CST/TAN no.,Service tax reg no.<br> - Vendor Payment terms | E | | |
| Fin/533 | Ability to provide user defined data fields for maintaining master records | E | | |
| Fin/534 | Ability to allow advances to be paid to vendors based on P.O./W.O. or Invoice | E | | |
| Fin/535 | Ability to verify advances from the books of accounts | E | | |
| Fin/536 | Ability to provide outstanding advances details with age analysis. | E | | |
| Fin/537 | Ability to make a Bank Payment voucher on the basis of above | E | | |
| Fin/538 | Ability to allow for pro-rata adjustment or user defined adjustment of advance paid to vendor at the time of booking of invoice. | E | | |
| Fin/539 | Ability to check date. & year of Invoice with vendor code before accepting entry | E | | |
| Fin/540 | Ability for group of invoices be authorized for payment together | E | | |
| Fin/541 | Ability to match invoice and goods received note(GRN). | E | | |
| Fin/542 | Ability to authorize goods received note (GRN) only after material is approved. | E | | |
| Fin/543 | Ability to uptate store ledgers when the GRN is approved | E | | |
| Fin/544 | Provision for unapproved GRN be reflected in the daily stock statements as stock under inspection | E | | |
| Fin/545 | In case of material is rejected ability of system to interactively generate the goods rejection memo & update the accounts | E | | |
| Fin/546 | Ability to process cancellation of debit notes with authorization | E | | |

| S.No. | Particulars | Essential / Desirable | Vendor Response | |
|---|---|---|---|---|
| | | | Offered ERP Product | If the response is SD, mention the Module Name which supports the requirement |
| Fin/547 | Ability to update during posting:<br><br>- accounts payable<br>- general ledger<br>- purchase order processing<br>- if the bill passed amount is different than the GRN amount will the effect go to store ledgers | E | | |
| Fin/548 | Ability to handle discounts:<br><br>- as an amount<br>- as a percentage of individual invoice line items<br>- as a percentage of an invoice total<br>- based on the volume of the product purchased from the vendor & Discounts received  after actual delivery. | E | | |
| Fin/549 | Ability to automatically post a discount to the correct GL account for discounts | E | | |
| Fin/550 | Ability to allow processing of more than one accounting period for previous and future periods | E | | |
| Fin/551 | Provision for when more than one periods specially accounting year are open can the opening balance appear with a provisional flag which will get removed when the previous period is closed. | E | | |
| Fin/552 | Ability to handle accruals with automatic reversal in the next period | E | | |
| Fin/553 | Ability to search by:<br><br>- supplier name<br>- supplier short name<br>- post code<br>- invoice number<br>- invoice reference<br>- purchase order number<br>- cheque number<br>- transaction date<br>- transaction value<br>- other ( creditor code,purchasetype etc..) | E | | |
| Fin/554 | Ability to provide for employee expense reimbursement description, dates and time periods, and cross reference to:<br><br>-identification of employee expenses<br>-identification of related advances<br>-identification of itemized expenses | E | | |
| Fin/555 | Provision for selection of bank accounts for disbursements, including reviewing multiple bank accounts to determine the proper account to issue cheques from | E | | |
| Fin/556 | Ability to provide a check with payment-terms of PO to get schedule of payment on respective date. | E | | |
| Fin/557 | Aibility to generate liability statement for  materials / services  already received by us | E | | |
| Fin/558 | Ability to restrict update access e.g. for adjustments by monetary value | E | | |
| Fin/559 | Ability to maintain open items in both local and foreign currency | E | | |
| Fin/560 | Ability to maintain standard currency exchange rates for each foreign currency | E | | |
| Fin/561 | Ability to override standard currency exchange rate with each input transaction | E | | |

| S.No. | Particulars | Essential / Desirable | Vendor Response | |
|---|---|---|---|---|
| | | | Offered ERP Product | If the response is SD, mention the Module Name which supports the requirement |
| Fin/562 | Ability to generate report for override:<br><br> - the override exchange rate<br> - the person entering the override transaction | E | | |
| Fin/563 | Ability to maintain all postings and account balances maintained in both local currency and user-defined foreign currencies | E | | |
| Fin/564 | Ability to calculate foreign exchange gains/losses | E | | |
| Fin/565 | Ability to handly manual cheque | E | | |
| Fin/566 | Ability to generate numbers to Vouchers automatically | E | | |
| Fin/567 | Ability to stop payments to specific vendors be temporarily | E | | |
| Fin/568 | Ability to stop payment of a specific invoice be temporarily | E | | |
| Fin/569 | Ability to make payment earlier than the stipulated due date in the P.O. with approval | E | | |
| Fin/570 | Ability to make part payments be made if specified in the P.O. | E | | |
| Fin/571 | Ability to include all outstanding credit notes in the payments calculation | E | | |
| Fin/572 | Ability to specify individual general ledger codes for each bank account | E | | |
| Fin/573 | Ability to pay advance without a purchase order on a letter of intent | E | | |
| Fin/574 | Ability to show the  balance/ advance is lying in the party account at the time of making payment  and can the detail of the balance can be drilled down from payment screen. | E | | |
| Fin/575 | Ability to provide facility to identify duplication of cheque no used with reference to payment voucher No. AP/GL | D | | |
| Fin/576 | Ability of finance user t0 modify  taxes, discounts etc in PO | E | | |
| Fin/577 | Ability to store the digital images of the invoices against the relevant invoices | D | | |
| Fin/578 | Ability to show the complete status of the documents in what stage of posting they are. | E | | |
| Fin/579 | Ability to show the liability report keeping into consideration all the invoices irrespective of whether they are posted or parked. | E | | |
| Fin/580 | Ability to automatically account pending GRNs for inspection on a given date | E | | |
| Fin/581 | Ability to process PSL in real time basis | E | | |
| Fin/582 | Provision for retrospective revision of pricing with prospective adjustment. Provision for revision of requried fields based on new adjustments in authorized manner | E | | |
| Fin/583 | Ability to make procurement of Raw material processed through stock ledger and not directly chargeable. | E | | |
| Fin/584 | Ability to handle SIT Accounting / monitoring (with intermediate stage of process) | E | | |
| Fin/585 | Ability to generate exception report on advance disbursed but material not received | E | | |
| Fin/586 | Ability to generate Letter and MIR. | D | | |
| Fin/587 | Ability to make adjustment of advances as per GR. | D | | |
| Fin/588 | Ability to differentiate between pure advance and advance against documents. | E | | |
| Fin/589 | Ability to prepare unmatched entries in RG23 / financial account on monthly basis | E | | |
| Fin/590 | Ability to handle excise duty element in ED (Excise duty) / CVD (Countervailing Duty) inclusive contracts | E | | |
| Fin/591 | Ability to identify CENVAT availment for a particular material in a PO such as steel | E | | |
| Fin/592 | Ability to capture Exchange Rate for capitalization purpose and any variation after the date of property transfer should be to revenue | E | | |
| Fin/593 | Provision for aggregation to be broken down into despatchable unit. Breaking down the WBS elements into further managable packages which are to be planned & monitored | E | | |
| Fin/594 | Provision for plant card document (Document containing all the information about the work done while the asset is being made) to be made online / online asset information must be present. | E | | |
| Fin/595 | Ability to handle despatch of a part of an asset for repair / modification | E | | |
| Fin/596 | Ability to capture residual value of an asset | E | | |
| Fin/597 | Provision for componentization of assets to be available. | E | | |

| S.No. | Particulars | Essential / Desirable | Vendor Response | |
|---|---|---|---|---|
| | | | Offered ERP Product | If the response is SD, mention the Module Name which supports the requirement |
| Fin/598 | Ability to have proper linkages to be established in the system for accountal of MWF with respect to source / destination / storage location (vendor) | E | | |
| Fin/599 | Ability to have proper linkages to be established in the system for accountal of excise / CENVAT with respect to source / destination | E | | |
| Fin/600 | Ability to generate material Accounting statement online | E | | |
| Fin/601 | Provision for recovery of offcut and scrap details to be separately available. | E | | |
| Fin/602 | Ability to check on adequacy and validity of BG at the time of PO / issue of material | E | | |
| Fin/603 | Ability to generate alerts for slow moving and non-moving inventories with ageing | E | | |
| Fin/604 | Provision for slow moving and non-moving inventories with ageing | E | | |
| Fin/605 | Ability to bifurcate stores - capital and revenue. | E | | |
| Fin/606 | Provision for real time PSL accounting. | E | | |
| Fin/607 | Ability to prepare annual program. | E | | |
| Fin/608 | Ability to generate reports. | E | | |
| Fin/609 | Ability to approve all discrepancy vouchers. | E | | |
| Fin/610 | Ability to prepare bills for external agency involved. | E | | |
| Fin/611 | Ability to ensure that Bin Card matches physical stock | E | | |
| Fin/612 | Ability to generate SRN, sales order - T&C broken down to the lowest level | E | | |
| Fin/613 | Provision for e-TCS online. | E | | |
| Fin/614 | Provision for online refund of deposits of excess amount (include for EMD / SD also) | E | | |
| Fin/615 | Ability to generate Deposit transfer advice. | E | | |
| Fin/616 | Provision for returns of CST and VAT. | E | | |
| Fin/617 | Provision for online directory for scrap dealers | E | | |
| Fin/618 | Ability to generate advice for Forfeiture of deposits. | D | | |
| Fin/619 | Provision for IU billing in scrap and raw material trf to be included | E | | |
| Fin/620 | Provision for directory of rates to be available and linking to online sites | E | | |
| Fin/621 | Ability to generate invoice online | E | | |
| Fin/622 | Ability to generate exception list automatically | E | | |
| Fin/623 | Ability to calculate liability of MSTC. | E | | |
| Fin/624 | Ability to evaluate scrap. | E | | |
| Fin/625 | Ability to integrate with e-auction service provider | E | | |
| Fin/626 | Ability to check bills with reference to contracts. | E | | |
| Fin/627 | Ability to generate alert for freight payment for to avoid duplicate payments | E | | |
| Fin/628 | Ability to generate alert for detention and storage on period of payment | E | | |
| Fin/629 | Ability to process voucher payment and making EFT transfers. | E | | |
| Fin/630 | Provision to enter Cheque details. | E | | |
| Fin/631 | Ability make updation of Material services docket for payments | E | | |
| Fin/632 | Ability to generate MIR on nature of payment for each unit. | D | | |
| **Account Payable - Reports** | | | | |
| Fin/633 | Aged outstanding Payable Listing | E | | |
| Fin/634 | AP Ledger with GL control account party wise trial balance and transactions, in ledger form . | E | | |
| Fin/635 | Accounts Payable Checks/Remittance Advice – Printed upon request. All items "flagged" to be paid should be included in the check run. | E | | |
| Fin/636 | Payments due as on a date or range of dates as per user requirement | E | | |
| Fin/637 | Cheque Listing – Printed after each Cheque printing cycle. This is a control list of Cheques printed. | E | | |
| Fin/638 | Manually Prepared Cheque Journal – Printed at period end, sequenced by Cheque number to provide an audit trail to support the summary entry in the general ledger | E | | |
| Fin/639 | Bank wise Cheque Register – Printed periodically, but at least at period end. The report should be sequenced by Cheque number. The columns should be invoice Account debited, gross amount, discount amount, net amount, and payee name/number, showing total | E | | |
| Fin/640 | Vendor Listing – Printed upon request in either vendor number, alphabetical, or year to date purchase amount (Rupees or quantity) sequenced by GL code/item wise/or overall | E | | |

| S.No. | Particulars | Essential / Desirable | Vendor Response | |
|---|---|---|---|---|
| | | | Offered ERP Product | If the response is SD, mention the Module Name which supports the requirement |
| Fin/641 | Cash Requirements Report – Printed on request. This report should list all items due for payment on the current pay cycle.  It should be sorted by pay date and include vendor name, item purchased , invoice number, invoice date, amount, discount amount and | E | | |
| Fin/642 | Outstanding Invoice Listing – Prepared at period end or as defined by user.  The report shows all outstanding invoices at month end. Invoice number, planned payment date, vendor and amount are shown | E | | |
| Fin/643 | Cheque Reconciliation Report – Printed upon demand showing detail on all outstanding Cheques, bank wise, party wise.  Printed in Cheque number sequence | E | | |
| Fin/644 | Open Purchase Order Report – Printed upon request.  The report details open items, on order quantity, and expected delivery date.  All past due orders should be highlighted.  The report will be sequenced by P.O. number, vendor, or item, EDD (expected date | E | | |
| Fin/645 | Outside Processing Charges Report – Printed upon demand or at period end, listing all sub contractors invoices received, listing vendor, product, work order, and invoice amount | E | | |
| Fin/646 | Purchase Journal – Lists accounts payable invoices entered and general ledger accounts affected on the basis of a unique no generated in the order of bill passing. The same should give summation and all details for Sales tax. | E | | |
| Fin/647 | Cash Disbursements Journal – Lists each payment made and the general ledger accounts affected | E | | |
| Fin/648 | Accounts Payable Detail Audit – Compares the total of the invoices entered for each vendor with the control total for each vendor | E | | |
| Fin/649 | Purchase Analysis – Lists by GL code/ item code/vendor code/vendor type( govt,private,ssi) showing budget items, quantities and Rupees , actual items, quantities and Rupees , budget to actual purchasing variances, dates purchased, delivery performance, c | E | | |
| Fin/650 | Receipts Discrepancy – Lists discrepancies between P.O.s, invoices and GRN/WDC. | E | | |
| Fin/651 | Vendor Shipping Performance – Lists by vendor, due dates for delivery, actual dates of delivery, item short shipments, incorrect items shipped, etc. | E | | |
| Fin/652 | Exceptions – Lists all exceptions from preset standards, including discounts due that were not taken, Cheques that exceed a certain Rupees amount, employee reimbursements, and invoices that contained overrides to the master file defaults | E | | |
| Fin/653 | System should provide all types of purchase registers (Like VAT, CST, Service Tax, Subcontract) etc | E | | |
| Fin/654 | Service Journal Report | E | | |
| Fin/655 | Ability to provide :<br><br> - TDS Certificate<br> - Excise Duty Certificate<br> - LC Opening Report<br> - Foreign Exchange Report<br> - Bank Guarantee Report | E | | |
| Fin/656 | Unmatched Invoices – Lists invoices received that have not been matched to a grn/wdc | E | | |
| Fin/657 | Open Purchase Orders – Lists open/outstanding purchase orders in P.O. number sequence, identifying all open purchase order items, quantities and expected delivery dates.  Highlights all past due delivery dates | E | | |
| Fin/658 | Discounts Taken – List of all discounts taken | E | | |
| Fin/659 | On hold Vouchers – Lists vouchers on hold and reason | E | | |
| Fin/660 | Price Variance – Lists invoices identifying all variances between standard prices and actual invoiced prices | E | | |
| Fin/661 | Unmatched Invoices – Lists all unmatched invoices (e.g., accrual report) | E | | |
| Fin/662 | No Activity – Lists vendors with no activity for a user specified period of time. | E | | |
| **Purchase - Finance** | | | | |
| Fin/663 | Provision for online tracking mechanism / workflow from PI (Purchase Indent) to PO (Purchase Order) | D | | |

| S.No. | Particulars | Essential / Desirable | Vendor Response | |
|---|---|---|---|---|
| | | | Offered ERP Product | If the response is SD, mention the Module Name which supports the requirement |
| Fin/664 | Ability to check on purchase requisition quantities based on system generated MRP (material requirement planning) | E | | |
| Fin/665 | Ability to validate vital financial parameters like quantity, rate, stock etc. | E | | |
| Fin/666 | Ability to make available tender opening schedule with complete details. | D | | |
| Fin/667 | Ability to access purchase / works policy, govt. /CVC guidelines, internal guidelines issued by management and DOP | D | | |
| **Foreign Purchase** | | | | |
| Fin/668 | Provision for documentation of LC to be automated and workflow based system is expected | E | | |
| Fin/669 | Ability to generate Status report on LC pendency and submission of MIR to CO | E | | |
| Fin/670 | Provision for Interface of bank with BHEL | D | | |
| Fin/671 | Ability to handle Single LC for multiple POs and selected line items with control mechanism on the total quantity / value of PO | E | | |
| Fin/672 | Activity and pricing of SRV to be automated and workflow is expected. | E | | |
| Fin/673 | Ability to update Custom duty payment by RODs with clear linkages to bill of entry and import license online. | E | | |
| Fin/674 | Provision for Custom duty details and freight payment details to be available from corporate CIT site and ROD divisions | E | | |
| Fin/675 | Ability to maintain online liability (in foreign currency) party wise ledgers for calculation of ERV | E | | |
| Fin/676 | Provision at erection sites / Regions, SRVs made for unit supplies and local purchases need not be priced and accounted in the books | E | | |
| Fin/677 | Ability to provide linkage of advance with SRV pricing. | E | | |
| Fin/678 | Ability to perform automatic Calculation Of Amount Payable Along With Checks & Controls | E | | |
| Fin/679 | Ability to prepare EEFC request and linked to corporate FCRS system with authentication | E | | |
| Fin/680 | Ability to track original documents. | E | | |
| Fin/681 | Ability to seek clarification to NCRs online | D | | |
| Fin/682 | Provision for interface between BG and finance system to check the validity and value of BG | E | | |
| Fin/683 | Ability to link EEFC payments by corporate on behalf of unit | E | | |
| Fin/684 | Ability to capture PAN of foreign vendors. | E | | |
| Fin/685 | Ability to perform validations for check for documents / agreements / order terms | E | | |
| Fin/686 | Ability to post standardised codes for NCRs, so that the same is accessible on line | E | | |
| Fin/687 | Ability to make available cash planning report online. | E | | |
| Fin/688 | Ability to capture tax rates in the Services Master | E | | |
| Fin/689 | Ability to calculate automatically amount payable along with checks & controls | E | | |
| Fin/690 | Ability to generate A1/A2 form | E | | |
| Fin/691 | Ability to generate EEFC request | E | | |
| Fin/692 | Ability to deduct Income Tax As Per Rules & Remittance Of TDS / R&D Cess within prescribed time limit | E | | |
| Fin/693 | Provision for deposit TDS, Prepare Form 15 CB & Obtain CA Certificate Where Applicable. | E | | |
| Fin/694 | Ability to file Periodical Returns For TDS. | E | | |
| Fin/695 | Ability to issue TDS certificate to concerned. | E | | |
| Fin/696 | Ability to generate alert on increase in BG on exceeding the stock value with vendor | E | | |
| Fin/697 | Ability to generate BG confirmation letter. | E | | |
| Fin/698 | Ability to generate Monthly MIR for Validation Of BG | E | | |
| Fin/699 | Ability to return Expired BG through data entry online. | E | | |
| Fin/700 | Ability to link Bank Guarantee monitoring system with LOI details | E | | |
| Fin/701 | Ability to generate automated mail for extension / encashment to sites / banks / vendors | E | | |
| Fin/702 | Deleted | D | | |
| Fin/703 | Ability to generate letter to be issued to bank for extension of BG | E | | |
| Fin/704 | Ability to generate letter Non-extension and Release of BGs | E | | |
| Fin/705 | For payment by RODs on behalf of units, ability to capture information of the unit and nature of payment | E | | |

| S.No. | Particulars | Essential / Desirable | Vendor Response | |
|---|---|---|---|---|
| | | | Offered ERP Product | If the response is SD, mention the Module Name which supports the requirement |
| Fin/706 | Workflow for payment of miscellaneous bills. | D | | |
| Fin/707 | Provision for linkages of payment to the employees / ex-employees for adjustment / recoveries | D | | |
| Fin/708 | Ability to capture data in respect of hotels, hospitals, travel agents etc. for considering future empanelment | D | | |
| **Bill Processing for payment** | | | | |
| Fin/709 | Provision for automatic bill processing including supplementary bill incorporating appropriate checks and balances as per the terms of PO | E | | |
| Fin/710 | Provision for linkages for various recoveries under different Pos | E | | |
| Fin/711 | Ability to intimate to vendors on payment details along with recoveries | E | | |
| Fin/712 | Communication portal with vendors to resolve discrepancies related to bills. | E | | |
| Fin/713 | Ability to handle recoveries outside the system have to be made and provide for creation of such recoveries | E | | |
| Fin/714 | Provision to view accounts, settle bills, cheque, payment status, on line Reconciliation process, online balance confirmations with customer | E | | |
| Fin/715 | Ability to address processing the payment for procurement of medicines for hospitals, canteen and other standalone systems. | E | | |
| Fin/716 | Provision for accounting for closing stock and liabilities for medical, canteen and other standalone areas to be enabled . | E | | |
| Fin/717 | Ability to generate tax returns, TDS certificates, challans, remittance data. | E | | |
| Fin/718 | Provision for Rates of taxes and computation of taxes. | E | | |
| Fin/719 | Online PO system envisaged | E | | |
| Fin/720 | Ability to ensure recoveries before payment to be enabled. | E | | |
| Fin/721 | Workflow to be enabled for bill processing for payment. | D | | |
| Fin/722 | Ability to provide details on status of recovery, statutory recoveries at the time of processing of bills | E | | |
| Fin/723 | Automatic processing of bills | E | | |
| Fin/724 | Communication between vendors and concerned departments on status of payments enabled in the system | E | | |
| Fin/725 | Ability to define single vendors with multiple locations / divisions / multiple sub-vendors / agents | E | | |
| Fin/726 | Vendor master | E | | |
| Fin/727 | Provision for Linkage of E1 / E2 form to C-form | E | | |
| Fin/728 | Provision for Linkage of E1 form to billing on customer | E | | |
| Fin/729 | Ability to address supplementary bills of vendors. | E | | |
| Fin/730 | Ability to create bill lodging information through B2B by supplier | E | | |
| Fin/731 | Ability to generate mails, letters to be sent to MM groups, vendors. | E | | |
| Fin/732 | Ability to generate utilization report. | E | | |
| Fin/733 | Invoice break down to the level that each invoice should have a TIN identity (knocked down) | E | | |
| Fin/734 | Provision for Payments vouchers preparation against clean transporter bills. | E | | |
| Fin/735 | Ability to generate liability of inward Freight. | E | | |
| Fin/736 | Provision for capturing various types of transporter contracts and type of vehicle. | D | | |
| Fin/737 | Loading vehicle to be clearly identifiable at the time of despatch (matching the loading vehicle requirement with packing list - dimension and weight of vehicle is relevant) | D | | |
| Fin/738 | Security Deposit  monitoring. | E | | |
| Fin/739 | Ability to capture terms of transporter contract | E | | |
| Fin/740 | Provision for proper authorization and approval for transport. | E | | |
| Fin/741 | Flexible enough to provide for exceptions in vendors / contractors for transporter | E | | |
| Fin/742 | Automatic processing of transporters' bills. | E | | |
| Fin/743 | Linkage to customer billing in reimbursable cases | E | | |
| **Works Bill Accounting** | | | | |
| Fin/744 | Automatic bill processing with necessary linkages / recoveries | E | | |

| S.No. | Particulars | Essential / Desirable | Vendor Response | |
|---|---|---|---|---|
| | | | Offered ERP Product | If the response is SD, mention the Module Name which supports the requirement |
| Fin/745 | MB to be online. Measurement book for any civil works contract is a mandatory requirement which contains the quantity of work executed with cumulative value as jointly certified in the note book which has to be the electronic form | E | | |
| Fin/746 | Segregation of capital and revenue works. | E | | |
| **Misc. Bill Accounting** | | | | |
| Fin/747 | Ability to link with different systems like SAP HR, ESS etc. | E | | |
| Fin/748 | Ability to generate alerts for settlement of outstanding imprest / advance | E | | |
| Fin/749 | Provision for bill entry by User groups on line and submission to Misce/Fin, followed by hard copies. | E | | |
| Fin/750 | Ability to control payments within the imprest limit. | E | | |
| Fin/751 | Provision for online record maintenance of miscellaneous bills | E | | |
| Fin/752 | Ability to generate certificates online. | E | | |
| **General Ledger** | | | | |
| Fin/753 | Linkages of amount deposited with different modules of the system and other systems like SAP HR, ESS etc. | E | | |
| Fin/754 | Ability to create Money receipt template , duly authenticated by depositing section and concerned finance section | E | | |
| Fin/755 | Ability to maintain chart of accounts as defined by BHEL. | E | | |
| Fin/756 | Ability to maintain multiple chart of accounts if required in the case of different plants. | E | | |
| Fin/757 | Ability to account liabilities & Assets for both fixed & current a/c seperately | E | | |
| Fin/758 | Ability to account Income & Expenditure for both direct & indirect a/c seperately | E | | |
| Fin/759 | Ability to provide the user the option to define the different head of A/c under both Liabilities & Assets | E | | |
| Fin/760 | Ability to automatically generate Account no: for the head created | E | | |
| Fin/761 | Ability to maintain product codes and plant codes or assigned cost centers? | E | | |
| Fin/762 | Ability to maintain task codes or activity codes assigned within plant. | E | | |
| Fin/763 | Ability to create and maintain accounts and account information on-line. | E | | |
| Fin/764 | Ability to prohibit inactive accounts from appearing on reports and financial statements. | E | | |
| Fin/765 | Flexibility in Journal entry, whereby effect of the entry can be seen before confirmation. | E | | |
| Fin/766 | Ability to create memo accounts for collecting non-financial statistical information. | E | | |
| Fin/767 | Ability to segregate expense accounts by division, department and work, cost or profit center or group of the above. | E | | |
| Fin/768 | Ability to allow for transfer or consolidate accounts and automatically combine all details. | E | | |
| Fin/769 | Ability to allow to pass entries for some other location during the current month for the previous month. | E | | |
| Fin/770 | Ability to allow to pass entries for some other location during end of curent month for period month. | E | | |
| Fin/771 | Ability to record settlements and adjustments through journal entries. | E | | |
| Fin/772 | Ability to perform reversal of journal entries. | E | | |
| Fin/773 | Ability to post journal entries in batch. | E | | |
| Fin/774 | Abilit to link journal entry for liability/provision of last year to payments in current year for that liability | E | | |
| Fin/775 | Ability to link PO to all the ADS passed for that PO and all the GRN issued for that PO | D | | |
| Fin/776 | Ability to make details from the previous journal be repeated (e.g. date, description) while at the same time preventing duplication of journal entry | E | | |
| Fin/777 | Provision for description field for each detail line of a journal. | E | | |
| Fin/778 | Ability to prevent balances to be posted without an associated transaction. | E | | |
| Fin/779 | Ability to create multiple batches of journal entry at one time. | E | | |
| Fin/780 | Ability to automatically accept and post journal entries from Account Payable, Accounts Receivable, etc. | E | | |
| Fin/781 | Ability to accept only balanced journal entry transactions (debits equal credits) | E | | |
| Fin/782 | Ability to look-up by account number and description during entry. | E | | |
| Fin/783 | Ability to credit and debit control account by the same jounal voucher. | E | | |
| Fin/784 | Ability to create automatic recurring journal entries. | E | | |

| S.No. | Particulars | Essential / Desirable | Vendor Response | |
|---|---|---|---|---|
| | | | Offered ERP Product | If the response is SD, mention the Module Name which supports the requirement |
| Fin/785 | Ability to allow starting and ending period/year for recurring entries to be set by the user. | E | | |
| Fin/786 | Provision for the user to enter and maintain statistical information either along with or independently of journal entries. | E | | |
| Fin/787 | Ability to allow journal entries for current and future period. | E | | |
| Fin/788 | Ability to permit multiple accounting periods to be open at one time. | E | | |
| Fin/789 | Ability to allow posting of pre-payments like depreciation, internal charges for manpower, fixed assets depreciation, etc. | E | | |
| Fin/790 | Ability to allow pre-payment write-offs with approval. | E | | |
| Fin/791 | Ability to post to next year before prior year is closed, allowed. | E | | |
| Fin/792 | When previous period is open and subsequent period posting is also going on  than can the opening balances available in the system be taken for reporting purpose. | E | | |
| Fin/793 | If answer to above is yes can the system mention Provisional against the opening balance till the time previous period is closed. | E | | |
| Fin/794 | Ability to allow  posting of adjustments to prior year. | E | | |
| Fin/795 | Ability to prevent duplicate posting to the same account. | E | | |
| Fin/796 | Ability to check before a period close that all the vouchers have been authorised and posted and give a warning if some unauthorised /unposted voucher remains in the system. | E | | |
| Fin/797 | Ability to ensure at year-end close that all entries are in balance and that all periods have been closed. | E | | |
| Fin/798 | Ability to identify and process accruals with automatic reversal in the next accounting period. | E | | |
| Fin/799 | Ability to automatically roll-up detail accounts to summary accounts. | E | | |
| Fin/800 | Ability to calculate and maintain current, prior, and previous year comparative information. | E | | |
| Fin/801 | Ability to revise invalid journals. | E | | |
| Fin/802 | Provision for user defined suspense codes. | E | | |
| Fin/803 | Ability to post errors to different suspense codes according to the source. | E | | |
| Fin/804 | Ability to correct transactions posted to suspense real time. | E | | |
| Fin/805 | Ability to save all supporting detail of the suspended item as originally entered and transferred when a correction is made. | E | | |
| Fin/806 | Ability to allow an unlimited number of financial reports for balance sheet,  income statement,  supporting schedule,  cash flow and other specific account analysis. | E | | |
| Fin/807 | Ability to allow allow the user to control the row and column format, size and print mask. | E | | |
| Fin/808 | Ability to perform statistical calculations such as percent to total, or other statistical analysis of accounts. | E | | |
| Fin/809 | Ability to allow the user to specify account for inclusion by :<br><br>- natural account number<br>- profit center / cost center<br>- range of account numbers<br>- range of account numbers with specified exceptions | E | | |
| Fin/810 | Ability to allow the user to specify the contents of each column with no restriction i.e.  current month,  current budget,  year to date,  budget to date,  last year to date. | E | | |
| Fin/811 | Ability to allow the user have the option to post to the general ledger:<br><br>- at the detail level<br>- summary level by period<br>- summary level by voucher<br>- interactively | E | | |
| Fin/812 | Ability to post general ledger at the same time as the accounts payable subsidiary ledger is posted. | E | | |
| Fin/813 | Ability to support more than one accounting period for same financial periods say march for taxation and December for company law. | E | | |

| S.No. | Particulars | Essential / Desirable | Vendor Response | |
|---|---|---|---|---|
| | | | Offered ERP Product | If the response is SD, mention the Module Name which supports the requirement |
| Fin/814 | Ability to allow to pass the entries in the next period before closing the current period. | E | | |
| Fin/815 | Ability to calculate and maintain current, prior, and previous year comparative information. Also, ability to calculate YTD or MTD or QTD figures for both budgets and Actuals. | E | | |
| Fin/816 | Ability to provide facility of automatic deduction of TDS or Work contract tax on predefined percentages while passing voucher entry. | E | | |
| Fin/817 | Provision for taxes & duties which are not mentioned in the PO be entered and authorized manually. | E | | |
| Fin/818 | Ability to handle handle Work Contract Tax (WCT) deductions and returns. | E | | |
| Fin/819 | Ability to print work contract Tax certificates & TDS / TCS certificates & e-TDS/TCS returns. | D | | |
| **General Ledger - Reports** | | | | |
| Fin/820 | Ability to generate all Financial Statements as required by the company law, any other statute which prescribes the required format of Financial Statements | E | | |
| Fin/821 | Comparative Balance Sheet | E | | |
| Fin/822 | Comparative Income Statement | E | | |
| Fin/823 | Ability to generate the above three reports to be available for select group of profit / cost center | E | | |
| Fin/824 | General Journal | E | | |
| Fin/825 | Recurring Journal | E | | |
| Fin/826 | Chart of Accounts | E | | |
| Fin/827 | Budget and history - list current year, actual, budget and prior year actual amount for each accounting period or selected range of accounts | E | | |
| Fin/828 | General ledger Detail Report - at period end by transaction reference and date, within account and sub-account number sequence | E | | |
| Fin/829 | General Ledger Analysis - summarized listing of income statement and balance sheet for the current period | E | | |
| Fin/830 | Transaction Register - by user specified range of periods, accounts, transaction type, transaction dates or combination | E | | |
| Fin/831 | General Ledger Trial Balance with user defined date/period range. | E | | |
| Fin/832 | Trial balance analysis cost wise/Profit center wise or selected group of Cost centre/Profit Centres | E | | |
| Fin/833 | Summary Trial Balance - account activity by period or user-defined rage of dates and accounts | E | | |
| Fin/834 | Cash Flow Forecast - expected source and uses of cash based on anticipated payable, anticipated receipts and projected payroll expenses | E | | |
| Fin/835 | Cash Flow Analysis - projected cash requirements for the next user-specified period | E | | |
| Fin/836 | Preparation of Monthly/ Quarterly Operating Results | E | | |
| **Treasury and Risk Management** | | | | |
| Fin/837 | Ability to integrate Treasury function with electronic banking, finance processes. Improve liquidity | E | | |
| Fin/838 | Ability to maximizes yields on financial assets, multi currency management | E | | |
| Fin/839 | Ability to support liquidity planning, analysis of Financial investments and Risk analysis | E | | |
| Fin/840 | Ability to interface with the banks for exchanging payment files, downloading and uploading of bank statements etc. | D | | |
| Fin/841 | Ability to interface with exchange rate sites like Bloomberg in order to manage transactions in foreign exchange. | D | | |
| Fin/842 | Ability to differentiate the loans and advances in to different categories like Secured Loan, Advance to Vendor,Long term, Short Term etc. | D | | |
| Fin/843 | Ability to track sanction reference i.e. sanction no. and date, interest rate and schedule. prepayment premium %, penal interest. Ability to generate schedule which gives monthwise details of disbursement and payment | D | | |
| Fin/844 | Provision for various types of Investments/Borrowings including but not limited to :- Loans, Cash Credit, Overdraft, Fund Based Limits, ICDs, Equity, Debentures, Commercial Papers, Foreign currency etc. | D | | |
| Fin/845 | Provision for consolidating various investments/borrowings by parties to facilitate tracking of overall exposures | D | | |
| Fin/846 | Ability to record payment due dates for each Investment/borrowing | D | | |

| S.No. | Particulars | Essential / Desirable | Vendor Response | |
|---|---|---|---|---|
| | | | Offered ERP Product | If the response is SD, mention the Module Name which supports the requirement |
| Fin/847 | Provision for functionality of analyzing investments in borrowings viz: Yield calculations, Borrowing patterns ,Options for investments The solution should be capable of integrating with a module that has these advanced features if required in the | E | | |
| Fin/848 | Provision for Risk management functionality like :- Market risk management, Derivatives –investments & management, Hedging instruments | D | | |
| Fin/849 | Ability to link the Hedging with credit facility. | D | | |
| Fin/850 | Provision for each Loan / Scheme sanctioned must be linked to a work order / estimate. The module should be able to track specific scheme loans and classify them as per the Schedule VI requirements (into Secured and Unsecured loans) | E | | |
| Fin/851 | Investments to be categorized under Short term and Long term. Only for Short term Investments the system should be provide for diminution in value of investments deepening on the market value of the investments | E | | |
| Fin/852 | Ability to support Hedging Derivatives Transaction Management | D | | |
| Fin/853 | Ability to define under-tolerances for all obligations or by obligation types, to process combinations of derivatives forming a structured derivative. | D | | |
| Fin/854 | Ability to input the structure of complex derivatives through a user definable rate grid defining the behavior of the derivative(s) rate within given rate intervals. | D | | |
| Fin/855 | Ability to allow for the revaluation of open interest rate instruments held by treasury preferably using an interface to a market information system (such as Reuters). | D | | |
| Fin/856 | Ability to support the real-time integration with the bank system for smooth transfer of the data files for payments and receipts between the two systems | E | | |
| Fin/857 | Provision for security authorizations and controls in the data transfers. | D | | |
| Fin/858 | Activity and pricing of Store Receipt Voucher (SRV) to be automated. | E | | |
| Fin/859 | Activity and pricing of Sub-Contract Receipt cum Issue Voucher (SRIV)  to be automated. | E | | |
| Fin/860 | Bill registration System-LC linking required and  LC outstanding  with bank MIR required. | E | | |
| Fin/861 | Purchase day-book(Foreign payment system) and Journal Voucher generation | E | | |
| **Costing & Reports** | | | | |
| Fin/862 | Ability to Calculate Royalty and its Payment to Colloborator with related reports. As we have collaborators for certain Products and as per collaboration agreement for supplies made to customers, Units are liable to effect payment at the agreed percentage of the cost of goods sold to the collaboration and provision in accounts has to be made every quarter. Besides TDS is also applicable for such Royalty payment | E | | |

| S.No. | Particulars | Essential / Desirable | Vendor Response | |
|---|---|---|---|---|
| | | | Offered ERP Product | If the response is SD, mention the Module Name which supports the requirement |
| **General Requirements** | | | | |
| Comml/001 | Abibility to maintain customer data such as past Sales,  Products and services offered, Product Specification, Credit Status, Expected Requirements, Budget Sanctions, Customer Vendor base etc. | E | | |
| Comml/002 | Ability to maintain Project-wise data covering Specifications, Scope, Contract Price along with basis ( Firm, Meag/ Non Mega, ICB/ Negotiated), Terms and condions (Payment Terms/ PV formula), Guarantee Parameters, Contractual/ Actual Schedules | E | | |
| Comml/003 | Ability to analyse differences in delivery and actual despatches along with reasons/Late delivery | E | | |
| Comml/004 | Online, emails/ correspondances by Hard copies along with attachments/ enclosures,  with Customers  as well as Units should be stored in Server in respective standardised Project folders . | E | | |
| Comml/005 | Ability to interact online with customers for order status, advance shipment notice, invoicing details, pending issues, overdues, outstanding payments etc. | E | | |
| Comml/006 | Provision for revision /deletion in Internal Order at Corporate/Sale Order at unit and their relevant impacts in Financial, Advance Engg, Advance Manufacturing modules. | E | | |
| Comml/007 | Provision for Financial approval wherever modifications in Order Value etc involved-at offer, post order stage | E | | |
| Comml/008 | Ability to provide billing and tracking collection status | E | | |
| Comml/009 | Ability to manage service contracts, warranties & extended warranties | E | | |
| Comml/010 | Ability to provide online service manuals to client & service representative | E | | |
| Comml/011 | Ability to communicate spare part availability & visibility to marketing & service centers on line | E | | |
| Comml/012 | Ability to track site complaints on Product Defects | E | | |
| Comml/013 | Ability to Vendor to Check the purchase order(PO) Status , Billing Status , Vendor Performance Rating , Upload Test Certificates , Booking Inspection Call / Transporter etc  should be available online | E | | |
| Comml/014 | Ability to store competitor data | E | | |
| Comml/015 | Ability to store details of additions and deletion in project execution and settlements details in past projects. | E | | |
| Comml/016 | Ability to track status of Commissioned Projects yet to be closed along with details of pending jobs/ supplies; outstanding bank guarantees(BGs) and outstanding payments as per reconciliation with Customers | E | | |
| **Pre Tender** | | | | |
| Comml/017 | Ability to provide a collaborative platform for analyzing business environment and investment plan of customer. | D | | |
| Comml/018 | Provision for uploading standard documents from manufacturing units(Mus)/Regions/ROD/procurement. | E | | |
| Comml/019 | Ability to generate customer enquiry number. | E | | |
| Comml/020 | Provision for online availability of information on DD/CHQ etc. Status of payments under process by finance to be made available . | E | | |
| Comml/021 | Ability to make online entry and approvals for tender purchase. | E | | |
| Comml/022 | Ability to generate request indicating date &  time at which photocopies of the tenders is required. | D | | |
| Comml/023 | Ability to confirm receipt of hard copies of tender through system. | E | | |
| Comml/024 | Ability to intimate to unit department head for nomination of unit coordinators and their response in 2-3 days. | E | | |
| Comml/025 | Provision for entry of Contact details of unit coordinator. | E | | |
| Comml/026 | Ability to store  History of projects executed by BHEL. | E | | |
| Comml/027 | Ability to integrate with market intelligence units is expected (Ability to capture the market environment and alert during Tendering) | D | | |
| Comml/028 | Ability to access consolidated information on tender proposals and root cause analysis. | D | | |
| Comml/029 | Ability to provide access information on proposal as per delegation of powers configured. | E | | |
| Comml/030 | Ability to have workflow and generate alerts for non-compliance & Exception handling. | E | | |
| Comml/031 | Ability to track / analyze inability to quote by one of the stakeholder while it is a component of the overall solution. | D | | |
| Comml/032 | Ability to provide access to documents needed for the tender proposal online. | E | | |
| Comml/033 | Ability to update Contract amendments from tendering to order. | E | | |

| S.No. | Particulars | Essential / Desirable | Vendor Response | |
|---|---|---|---|---|
| | | | Offered ERP Product | If the response is SD, mention the Module Name which supports the requirement |
| Comml/034 | Ability to generate Billing procedure, contract coordination procedure, payment procedure (in tender stage) and engineering procedure. | E | | |
| Comml/035 | Ability to capture amendment on rates structure in contract. | E | | |
| Comml/036 | Ability to generate Enquiry number generation at single source and provision to make it available throughout BHEL. | E | | |
| Comml/037 | Ability to make available Potential bidder information. | D | | |
| Comml/038 | Ability to provide flow of information from commercial for pre-bid tie up information | E | | |
| Comml/039 | Ability to provide interface with manufacturing units(MU) / PESD / PEM / Proposal group  to SCT | E | | |
| Comml/040 | Ability to provide input details to marketing like Technical offer, comments on tender, deviation from spec, BOM before the Due date to enable Submission of Offer in time to Business Sector. | E | | |
| Comml/041 | Ability to receive AS Submitted Offer online | E | | |
| Comml/042 | Provision for making available minutes of meeting(MOM), manuals online. MoMs to be linked with Project document repository | E | | |
| **Distribution and Review of Tender Documents** | | | | |
| Comml/043 | Ability to link Tender Specification documents to Project using document management system. | E | | |
| Comml/044 | Ability to maintain Centralized enquiry register. Ability to create Sales Enquiry document. | E | | |
| Comml/045 | Provision for Assessing and understanding customer requirements, Decision making process, Mapping the competition, and Advising the Units. | E | | |
| Comml/046 | Ability to provide online status of tender activity | E | | |
| Comml/047 | Ability assign engineering coordinator  after tender specification are forwarded to engineering department. | E | | |
| Comml/048 | Ability to generate mail to respective engineering head of department(HODs) on receipt of tender document. | E | | |
| Comml/049 | Ability to make available EFC (Estimated Factory Cost) online with restricted access. | E | | |
| Comml/050 | Ability to make available standard equipment write ups. | E | | |
| Comml/051 | Ability to compare and analyse technical/commercial offers (Trend Analysis/ Comparative Statements.) | E | | |
| Comml/052 | Ability to submit documents to concerned agencies online. | E | | |
| Comml/053 | Ability to generate alerts on amendments in the tender document to respective stakeholders | E | | |
| Comml/054 | Ability to maintain and update Pre-bid queries status and resolution | E | | |
| Comml/055 | Ability to generate alert for repeat designs.  Wherever specifications are repeated automatic alerts to be provided | D | | |
| Comml/056 | Ability to make available Tender Review record in Standard format | E | | |
| Comml/057 | Ability to provide access to documents needed for the proposal online. | E | | |
| Comml/058 | Ability to provide access to Material rates online. | E | | |
| Comml/059 | Ability to generate transmittal note with schedules and ref. no.(based on tender type, year, etc.) | E | | |
| Comml/060 | Provision to upload MOMs | E | | |
| Comml/061 | Provision for storage of finalised scope matrix and to be made viewable to related executing department. | E | | |
| Comml/062 | Provision for visibility of pre bid queries in common platform and auto acknowledgement through system by concerned agency | E | | |
| **Preparation of Offer** | | | | |
| Comml/063 | Ability to generate query by Units as per different categories of pre-bid queries. | E | | |
| Comml/064 | Provision for updload of clarifications on tender. | E | | |
| Comml/065 | Provision for Standard scope split document upload and viewable between various departments and units. Folders to be generated automatically in document management system once Inquiry is created . | E | | |
| Comml/066 | Ability to make available Scope document, Vendor list, checklists and write ups online. | E | | |
| Comml/067 | Ability to manage customer relationship, which would help in formulating strategy for business, competition and finalisation of consortiums/partnerships | D | | |
| Comml/068 | Ability to link with main project (Annual Plan) on a single window. | D | | |
| Comml/069 | Ability to view present shop capacity and loading status.  -- | D | | |
| Comml/070 | Ability to track relevant communication/documents related to each offer online. | E | | |

| S.No. | Particulars | Essential / Desirable | Vendor Response | |
|---|---|---|---|---|
| | | | Offered ERP Product | If the response is SD, mention the Module Name which supports the requirement |
| Comml/071 | Provision for online repository of drawings and other relevant documents with version control | E | | |
| Comml/072 | Ability to prepare Vendor list, Data sheets, and Quality Plans online | E | | |
| Comml/073 | Provision for uploading Deviations, write-ups, quality plans, comments and clarifications with access control. | E | | |
| Comml/074 | Provision for upload of Performance certificate, type test approval, details of quantity supplied earlier of the same equipment, list of customer base, financial statements, Initial spares list and other relevant information. | E | | |
| Comml/075 | Provision for online offer approval process. | E | | |
| Comml/076 | Provision for online Unit level CPX requirement of management information reports(MIRs). - | E | | |
| Comml/077 | Ability to prepare Price Estimation of spares. | E | | |
| Comml/078 | Ability to capture Price and delivery time for rate contracts | E | | |
| Comml/079 | Ability to bill and collect cash for Inter unit orders. | E | | |
| Comml/080 | Provision to customer to raise clarification | E | | |
| Comml/081 | Ability to handle L1/L2 network at corporate level | E | | |
| Comml/082 | Provision to receive clarifications from customer online. | E | | |
| Comml/083 | Ability to restrict access to data as per requirement | E | | |
| Comml/084 | Provision to upload Tender information sheet, all correspondence and interface documents. | E | | |
| Comml/085 | Provision to generate all offers with reference to particular clause of tender (Suggestive offers against a clause) | E | | |
| Comml/086 | Ability to accept, store & approve records of the estimates. | E | | |
| Comml/087 | Ability to retrieve Tax liability for particular project | E | | |
| Comml/088 | Ability to generate alerts on schedule date | E | | |
| Comml/089 | Provision of Insurance and material handling | E | | |
| Comml/090 | Provision for upload and access to Civil and Mechanical bill of quantity(BOQ) by concerned departments. | E | | |
| Comml/091 | Ability to generate reference of similar Jobs for estimation from Project Archives available online. | E | | |
| Comml/092 | Ability to aggregate BOQs | E | | |
| Comml/093 | Ability to calculate Tax for the estimate done in consultation with finance. | E | | |
| Comml/094 | Ability to ensure Concurrence / approval taken from Finance for financial approval of the estimate. | E | | |
| Comml/095 | Provision for upload of Technical Offer and Price Estimate and generate confirmation mail to business Sector. | E | | |
| Comml/096 | Provision for Archival of Unsuccessful tender records. | E | | |
| Comml/097 | Provision for Online revision of Tech. Offers & Changing of BOQs. | E | | |
| Comml/098 | Provision for upload of customer enquiry which can be accessed online by commercial department | E | | |
| Comml/099 | Provision to submit offer through system (Not in client System, but to marketing at Corporate Level.) | E | | |
| Comml/100 | Ability to generate request for power of attorney in standard format | D | | |
| Comml/101 | Ability to provide feedback to Units and forward techno-commercial offer online. | E | | |
| Comml/102 | Ability to generate request for insurance, logistics etc. | E | | |
| Comml/103 | Ability to make available past data with version control | E | | |
| **Post Offer** | | | | |
| Comml/104 | Provision for Online scope bifurcation between all the units /regions/any other agency involved. | E | | |
| Comml/105 | Ability to make available all documents till bagging order online. | E | | |
| Comml/106 | Provision for online approval process. | E | | |
| Comml/107 | Ability to upload Purchase LOI/ Order | E | | |
| Comml/108 | Ability to generate alerts on validity of offer | E | | |
| Comml/109 | Provision for online comparative statement with appropriate rights | E | | |
| Comml/110 | Provision for online Entry of Purchase order linked with tender system. | E | | |
| Comml/111 | Ability to generate unique CCN and allotment of CPC. CCN-Customer Contract No-Unique Number allotted for each Contract; CPC- Cutomer Project Code-Unique number allotted to an unit in a project. | E | | |
| Comml/112 | Ability to issue internal order. | E | | |
| Comml/113 | Ability to generate internal order amendment. | E | | |

| S.No. | Particulars | Essential / Desirable | Vendor Response | |
|---|---|---|---|---|
| | | | Offered ERP Product | If the response is SD, mention the Module Name which supports the requirement |
| Comml/114 | Ability to generate report on Pending list of orders for which price allocation is needed. | E | | |
| Comml/115 | Ability to generate alert on amendments in internal order to respective stakeholders. | E | | |
| Comml/116 | Ability to perform Price allocation/Scope split. | E | | |
| Comml/117 | Ability to make available customer order amendments online. | E | | |
| Comml/118 | Ability to make available details regarding internal order. | E | | |
| Comml/119 | Provision to make available Project related documents online. | E | | |
| Comml/120 | Ability check and notify on missing documents. Exhaustive checklist of documents must be available in the system,so that wherever documents are no attached alerts are generated | E | | |
| Comml/121 | Ability to link Project serial number with CCN | E | | |
| Comml/122 | Ability to intimate departments for meeting and online distribution of technical specifications | E | | |
| Comml/123 | Ability to generate Online release internal work order and alerts to respective stakeholders | E | | |
| Comml/124 | Ability to check for internal work order completeness | E | | |
| Comml/125 | Provision for escalation mechanism for tracking applicable product group main assembly(PGMA) generation | E | | |
| Comml/126 | Ability to generate alert on likely orders from sectors for advance manufacturing action(AMA) to system | D | | |
| Comml/127 | Ability to gnerate automatic issue of Sale order/Work order numbers in running serial numbers | E | | |
| Comml/128 | Ability to perform Price allocation. | E | | |
| Comml/129 | Ability to generate alert on change in scope to be generated. | D | | |
| Comml/130 | Ability to adjust advances against PO/CCN to be done. | E | | |
| Comml/131 | Ability to make available detailed Internal order online to all concerned bodies | E | | |
| Comml/132 | Ability to make available complete Data required during Contract Launching and release of work order | E | | |
| Comml/133 | Provision for creation and review of Reports | D | | |
| Comml/134 | Provision for uploading Critical to Quality online against which monitoring can be performed. List of items in the offer which are critical to quality is to be seperatly uploaded | D | | |
| Comml/135 | Ability to estimate estimated factory cost | E | | |
| Comml/136 | Provision for Price master data. To view the material rates for estimating cost consequences in case of replacement supplies | E | | |
| Comml/137 | Ability to generate work order online (including codified order number) | E | | |
| Comml/138 | Ability to handle different delivery dates in same work order(WO) for same shop | D | | |
| Comml/139 | Ability to generate automatic alert once WO created to respective stakeholders | E | | |
| Comml/140 | Ability to generate WO overdue alerts | E | | |
| Comml/141 | Ability to check on Road Permit requirement | E | | |
| Comml/142 | Provision for interface with PMX | D | | |
| Comml/143 | Ability to record cash flow | D | | |
| Comml/144 | Ability to interface with Power sector-Marketing, Industrial sector/International operations/Corp Finance/ Regional finance / commercial | D | | |
| Comml/145 | Ability to interface with customer billing system | D | | |
| Comml/146 | Provision for Finance and commercial interface for initiating write -off note for long outstanding debtors | E | | |
| Comml/147 | Provision to handle Bank guarantee/ Corporate Guarantee. | E | | |
| Comml/148 | Ability to generatePerforma invoice. | E | | |
| Comml/149 | Ability to link with Debtor Management System. Debtor Management Sysytem to be part of ERP solution. Debtors management is customerwise details of advances, outstanding and deffered payments.Offer must contain proper keys for integration with debtors | D | | |
| Comml/150 | Ability to generate monthly billing schedule with details of items to be billed. | D | | |
| Comml/151 | Ability to generate BG extension request based on online details of

o All invoices (paid and unpaid) submitted to the customer
o Likely completion date of the project | E | | |
| Comml/152 | Ability to generate Invoice based on online status of milestones | E | | |

| S.No. | Particulars | Essential / Desirable | Vendor Response | |
|---|---|---|---|---|
| | | | Offered ERP Product | If the response is SD, mention the Module Name which supports the requirement |
| Comml/153 | Provision for receiving payment from customer and allocating to units/regions | E | | |
| Comml/154 | Ability to generate Letter of Credit(LC) opening request by unit through marketing. | E | | |
| Comml/155 | Ability to record changes in proposal. | E | | |
| Comml/156 | Ability to store contract agreement data in data Base for future reference. | E | | |
| Comml/157 | Ability to upload approved Billing break up unit(BBU) on web. | E | | |
| Comml/158 | Ability to make available Centralized BBU with marketing online. | E | | |
| Comml/159 | Provision for Checklist (according to internal order) of documents required from customers and unit online. | E | | |
| Comml/160 | Quality plan, financial concurrence to be uploaded to system | E | | |
| Comml/161 | Ability to track current status of AMA/Stocks . | E | | |
| Comml/162 | Ability to divert material/product/packages at PGMA level depending on the requirement. | E | | |
| Comml/163 | Ability to maintain approved Vendors list. | E | | |
| Comml/164 | Ability to capture finance implications | E | | |
| Comml/165 | Ability to upload Product Manuals | E | | |
| **Post Order Commercial** | | | | |
| Comml/166 | Ability to identify Package and lock package list. Export package list finalisaion to be part of new ERP solution with the involvement of international operations.<br>All package list to be finalised along with priority serial number of dispatch.<br>Package list finalisaion to be part of new ERP soln (current scenario: Packaging conditions decided by engg & communicated to warehouse through shipping list or manual letter) | E | | |
| Comml/167 | Provision to update Milestone information for packages. | E | | |
| Comml/168 | Ability to make available external dimensions of package and gross weight. All package list to contain dimensions and weight of the job for planning of despatches | E | | |
| Comml/169 | Ability to make available PGMA list in system and forward applicable PGMA to commercial.<br>Applicable Product Group Main assemblies for a new project to be made available in the Project by Engg in new ERP system | E | | |
| Comml/170 | Provision for online availability of L2 Network from where it can be referred and further utilized to create a master L2  for Projects. | E | | |
| Comml/171 | Ability to transfer approved L2 network From Level1 (System Level) to Level 2 elements(Product level) | E | | |
| Comml/172 | Provision for L2 network generation after CCSR and consolidation through system | E | | |
| Comml/173 | Provision of Forward Scheduling is expected. | E | | |
| Comml/174 | Ability to make available Shop Capacity information. | E | | |
| Comml/175 | Provision to capture L1 information. | E | | |
| Comml/176 | Ability to generate BBU online | E | | |
| Comml/177 | Provision for online availability of contract price allocation and price break up for main supplies. | E | | |
| Comml/178 | Provision for online availability of approved BBUs for further utilization for customer billing etc. | E | | |
| Comml/179 | Ability to link Invoices with sale orders | E | | |
| Comml/180 | Provision to have checkpoints for Billing break up in case of away center fabrication, BOI, Mfg. items. Separate BBU for various production routes. Billing breakup units / Billable items must be identified for the planning of billing. | E | | |
| Comml/181 | Ability to handle Multi currency operations  and agency allocations. | E | | |
| Comml/182 | Ability to make available Current Exchange Rates. | E | | |
| Comml/183 | Ability to generate alerts on contract allocation price. Contract allocation price is the price allocated by marketing to a unit/division for raising customer bills. As billing in BHEL is distributed. | E | | |
| Comml/184 | Provision for Customer internal code number in despatch documents. Internal reference number given to customer orders. Provision to capture/link external customer product linkage no. | E | | |
| Comml/185 | Ability to generate alerts on changes in weights of the component from design to actual to respective stakeholders | E | | |

| S.No. | Particulars | Essential / Desirable | Vendor Response | |
|---|---|---|---|---|
| | | | Offered ERP Product | If the response is SD, mention the Module Name which supports the requirement |
| Comml/186 | Ability to receive online approval from customer and approved BBU to be in repository with version control and restricted access. | E | | |
| Comml/187 | Ability to take care of variations in asking rate and current rate. Exchange rate variation claims | E | | |
| **Project Management** | | | | |
| Comml/188 | Ability to provide authorization control. | E | | |
| Comml/189 | Ability to make available contract status report | E | | |
| Comml/190 | Ability to create conditional records. To match various payment terms, PKG-rate/Kg, DFD-Deferred | E | | |
| Comml/191 | Provision to make available latest figures regarding Cost, Excise, Sales tax etc online. | E | | |
| Comml/192 | Ability to create and forward mandatory spares list. | E | | |
| Comml/193 | Ability to colloborate on an Online platform. | E | | |
| Comml/194 | Ability to add WO, networks, activities | E | | |
| Comml/195 | Provision for terminal date for project, WO, Activity shifting | E | | |
| Comml/196 | Provision for Misc WO release- Notification, WO, Networks, BOM creation | E | | |
| Comml/197 | Ability to handle Re-diversion of Project transfers. | E | | |
| Comml/198 | Ability to generate commercial plan. | E | | |
| Comml/199 | Ability to capture data from Regions. | E | | |
| Comml/200 | Ability to generate report for despatch item and balance item. | E | | |
| Comml/201 | Ability to generate alert from L2 network | E | | |
| Comml/202 | Ability to generate Monthly report from manufacturing shop/MM for manufactured/procured item | E | | |
| Comml/203 | Ability to generate alert on contract amendments to respective stakeholders | E | | |
| Comml/204 | Ability to upload documents into system and  interface with document management system | E | | |
| Comml/205 | Ability to make avaialble Monitoring dates (Material clearance, purchase order placement date , production completion date, engineeringg. Document release date). | E | | |
| Comml/206 | Provision for dashboard with visualization for supply and billing | E | | |
| Comml/207 | Ability to make available Payment information online. | E | | |
| Comml/208 | Manufacturing hold at various stages required in system | E | | |
| Comml/209 | Ability to monitor contract status online. | E | | |
| Comml/210 | Ability to make available assembled orders (bulk) for Valves. | E | | |
| Comml/211 | Ability to make available Break up of billing according to milestones. | E | | |
| Comml/212 | Ability to generate intimation to respective stakeholders of milestone completion for raising bills | E | | |
| Comml/213 | Ability to track current billed status. | E | | |
| Comml/214 | Ability to link sale order and wbs elements is expected. | E | | |
| Comml/215 | Ability to send communication of inspection  to respective stakeholders | E | | |
| Comml/216 | Ability to make available Process wise check list of completion of each stage for a product | E | | |
| Comml/217 | Ability to track process completion | E | | |
| Comml/218 | Ability to keep a track of the Bond Closure and raise an alert if the Bond is not closed after the project completion. | E | | |
| Comml/219 | Ability to generate alerts on delays in contract review to respective stakeholders. | E | | |
| Comml/220 | Ability to raise MDR. Material Discrepancy report - raised by site in case of discrepancy betn physical and documents with workflow site->Unit->concerned unit dept->site | E | | |
| Comml/221 | Ability to track Site progress. | E | | |
| Comml/222 | Ability to reschedule plan | E | | |
| Comml/223 | Ability to track diversion of orders to be tracked through system. To keep track of finished goods diversions between projects. | E | | |
| Comml/224 | Provision for Meeting Management portal. System to capture all the minutes of the meeting, to conduct review and documentation | D | | |
| Comml/225 | Ability to generate various reports online. | E | | |
| **Project Engineering Coordination** | | | | |
| Comml/226 | Ability to store drawing across units/regions in a central repository | E | | |

| S.No. | Particulars | Essential / Desirable | Vendor Response | |
|---|---|---|---|---|
| | | | Offered ERP Product | If the response is SD, mention the Module Name which supports the requirement |
| Comml/227 | Ability to generate alerts to departments on exception reports | E | | |
| Comml/228 | Ability to generate alerts to customer for pending approvals | E | | |
| **Project Management (Site Coordination)** | | | | |
| Comml/229 | Ability to assist site to query and download\review the required documents. | E | | |
| Comml/230 | Ability to make available soft copies of shipping list desired by Customer/ Site | E | | |
| Comml/231 | Provision for site\regions' feedback for erectability analysis. Analysis to find out whether a despatched material from manf unit is erectable or not. A material is erectable if it was despatched as per delivery date and the the connected materials, T&P etc. are also available/erected at site. Challenge is to build the interdependency matrix of products/materials | E | | |
| Comml/232 | Provision for online disposition facility for site action report(SAR)/commissioning action report(CAR) should also be provided. | E | | |
| Comml/233 | Ability to track MDR/Open order items. | E | | |
| Comml/234 | Ability to track status of issue of MDCC. Material Depacth Clearance Cetificate issued by the customer/inspection agency allowing the materials to be despatched to site. For monitoing & billing and preparedness at site etc. | E | | |
| Comml/235 | Ability to generate MRC. Material Receipt certificate issued by site/customer, proof of material receipt at site, based on which an invoice is raised (Generally 5-15% of cost). MRC Invoices are also raised separately. | E | | |
| Comml/236 | Ability to intimate on Insurance to insurance agencies on despatch. | E | | |
| Comml/237 | Ability to make available invoice verification status from site online. | E | | |
| Comml/238 | Ability to monitor project cost. | E | | |
| Comml/239 | Provision for Notification, MDCC creation for Shop, DTS, Spares | E | | |
| Comml/240 | Ability to receive Road Permit Forms | E | | |
| Comml/241 | Ability to review Project and generate Periodical Project Report. | E | | |
| Comml/242 | Ability to make available updated Material Status online in Web with provision for Feedback from Customer/ Regions | E | | |
| Comml/243 | Ability to make available record of Force Majeure conditions if any online | E | | |
| Comml/244 | Project Repository expected | E | | |
| Comml/245 | Ability to capture for Critical Site requirements online | E | | |
| Comml/246 | Ability to match the data to meet the target for operation review. | E | | |
| Comml/247 | Ability to send Inspection request to Shop -> Quality through system to commercial and forwarded to customer through system | E | | |
| Comml/248 | Ability to generate request for road permit. | E | | |
| Comml/249 | Ability to track status of Road permit availability online. | E | | |
| Comml/250 | Ability to link Sent Road permit with lorry receipt | E | | |
| Comml/251 | Ability to link Queries/ complaints with respective WO | E | | |
| Comml/252 | Ability to interact with customer systems (BBU approval, docs exchange etc.) | E | | |
| Comml/253 | Ability to make available Shipping list online | E | | |
| Comml/254 | Ability to send inputs for FQP to regions online. Field quality plans to be made available for the regions | E | | |
| Comml/255 | Provision for Customer hold points and inspection plan through system | E | | |
| Comml/256 | Ability to track inspection reports sent to site | E | | |
| Comml/257 | Ability to generate erectability analysis report with inputs from site online. Analysis to find out whether a despatched material from manf unit is erectable or not. A material is erectable if it was despatched as per delivery date and the the connected materials are also available/erected at site. Challenge is to build the inter-dependency matrix of products/materials | E | | |
| Comml/258 | Ability to generate SAR, CAR online. Quality related issues at sites are called 'Site Action report;(SAR). Commissioning activity related are 'Commissioning Action Report'(CAR). Need to handle the issues, capture costs, give feedback to the concerned unit out of these systems. | E | | |
| Comml/259 | Ability to obtain Concurrence from sites through system | E | | |

| S.No. | Particulars | Essential / Desirable | Vendor Response | |
|---|---|---|---|---|
| | | | Offered ERP Product | If the response is SD, mention the Module Name which supports the requirement |
| Comml/260 | Ability to have a online Checklist to ensure that all certificates in order | E | | |
| Comml/261 | Provision to have all certificates online | E | | |
| Comml/262 | Ability to generate alerts for imports for start of journey | E | | |
| Comml/263 | Ability to track NS-3 Work Orders (Replacements at BHEL cost) and its cost implications. In case of materials to be supplied free-of-cost, units send materials under (Nature of Supply) NS-3, Status of these Free-supplies and their cost to be viewed in system. Every despatch to site will have a nature of supply i.e. Main Supply, Spares, Supplementary supplies, Replacement at customer/BHEL cost, Insurance claim, state design improvements, T&P or capital equipment etc. | E | | |
| Comml/264 | Ability to generate customised reports. | E | | |
| Comml/265 | Web interface. Reports in web interface. Reports should be made available to all offices throughout India on BHEL network. | E | | |
| Comml/266 | Ability to conductmanagement committee meeting(MCM) operations/projects review online. Online portals for review. Projects status report should be available online | E | | |
| Comml/267 | Provision for Escalation mechanism for projects | E | | |
| Comml/268 | Dashboards for alerts and reports | E | | |
| Comml/269 | Ability to Post Force Majeure conditions online. System to capture force Majeure conditions | E | | |
| Comml/270 | Ability to interact with sites on grievances. Provision to capture sites' concerns, immediate requirements | E | | |
| Comml/271 | Ability to provide Site status, critical site requirement and MDR from site | E | | |
| Comml/272 | Ability to make available Erection plan online | E | | |
| Comml/273 | Component level process status needed | E | | |
| Comml/274 | Site erection & commissioning network monitoring | E | | |
| Comml/275 | Ability to track conformance with commercial plan. | E | | |
| **Budget, MIRs and Customer Visits** | | | | |
| Comml/276 | Provision for budget exercise and fund management | E | | |
| Comml/277 | Centralized Repository providing latest information. | E | | |
| Comml/278 | Ability to generate Order book outstanding report automatically | E | | |
| Comml/279 | Ability to make available anticipated orders from sectors to units. | E | | |
| Comml/280 | Ability to make available Materials, indices, overhead rate through system. Indices released by RBI, BankOfJapan. These are used in PVC(PriceVariationclaims) factor calculation, which in turn are used in PVC Bill.Ability to store these indices & OH rates | E | | |
| **Billing and Cash Collection** | | | | |
| Comml/281 | Provision for online facility for supply related invoices, coordinated with BBU data. | E | | |
| Comml/282 | Ability to provide access to JV data for reversal of credits to commercial department. | E | | |
| Comml/283 | Ability to show contracts that will get affected due to external changes in PVC indices. Indices released by RBI, BankOfJapan. These are used in PVC(PriceVariationclaims) factor calculation, which in turn are used in PVC Bill.change of these would affect PVC Bills, in turn turnover | E | | |
| Comml/284 | Provision for Billing Support document Collection | E | | |
| Comml/285 | Provision for Billing due list | E | | |
| Comml/286 | Provision for Non-supply related invoices | E | | |
| Comml/287 | Provision for Reimbursement invoices | E | | |
| Comml/288 | Provision for Supplementary invoices | E | | |
| Comml/289 | Online Details from Business Sector and ROD for invoice status and cash collection intimation. | E | | |
| Comml/290 | Online Annexure required for PVC/ERV invoice. Indices released by RBI, BankOfJapan. These are used in PVC(PriceVariationclaims)/ERV (Exchange RateVariation) factor calculation, which in turn are used in PVC/ERV Bill. Annexures for these bills are also to be generated from ERP. | E | | |
| Comml/291 | Online DB details required for MRC annexure. Material receipts at site are confirmed by the Daybook(DB) entry at site. Certificate issued by site/customer for the receipt of materials at site is Material Receipt Certficate(MRC) | E | | |
| Comml/292 | Ability to make available Credit Note details online. | E | | |
| Comml/293 | Ability to perform accounting of Sundry Debtors. | E | | |
| Comml/294 | Ability to perform Consolidated Billing for the components of various shops | E | | |

| S.No. | Particulars | Essential / Desirable | Vendor Response | |
|---|---|---|---|---|
| | | | Offered ERP Product | If the response is SD, mention the Module Name which supports the requirement |
| Comml/295 | Provision for Items required to for bill to be available online | E | | |
| Comml/296 | Provision to generate proforma invoices through system (editable) | E | | |
| Comml/297 | Ability to make available Invoice Verification details from customer. Provision to capture the status of invoices at site, whether verified by customer ot not | E | | |
| Comml/298 | Ability to generate alerts on pending billing. | E | | |
| Comml/299 | Ability to generate alerts on missing/left out invoices. Generally Supply invoices are raised for 55% cost. Subsequently MRC, Frieght invoices are raised corresponding to Supply invoices. System to monitor completion of invoices for a consignment/consigments | E | | |
| Comml/300 | Ability to categorise/analyse Short payment through system | E | | |
| Comml/301 | Ability to generate Cash Collection intimation. | E | | |
| Comml/302 | Ability to map Cash Allocations from business sectors to invoices. | E | | |
| Comml/303 | Ability to generate PVC bill. Price Variation Claim (PVC)bill. Indices released by RBI, BankOfJapan or other agencies specified in PVC clauses of the contract, are used in PVC factor calculation, which in turn are used in PVC Bill. Differntial bill generated on the basis of price variation is called PVC bill | E | | |
| Comml/304 | Ability to send  Credit note request to be sent through system (Commercial -> Finance) | E | | |
| Comml/305 | Ability to track status on despatch, pending payment, etc. online | E | | |
| Comml/306 | Provision for Payment reporting | E | | |
| Comml/307 | Ability to generate billing at sale order level | E | | |
| Comml/308 | Ability to track consignments after despatch LR wise using DB number. Material receipts at site are confirmed by the Daybook(DB) entry at site. LR means Lorry Receipt. For each LR/LorryWayBill(LWB), DB entry details are to be maintained | E | | |
| Comml/309 | Ability to generate invoice automatically with checks and balances | E | | |
| Comml/310 | Ability to generate alerts on unbilled tonnage crossing critical value | E | | |
| Comml/311 | Ability to send material receipt from  Site to to Units. | E | | |
| Comml/312 | Ability to generate MRC invoicing automatically. Certificate issued by site/customer for the receipt of materials at site is Material Receipt Certficate(MRC). BHEL raises bills against the receipt of MRC on customer.(Generally 15% of cost) As soon as the MRc is uploaded in the system bill.Automatic bill to be genrated based on terms and conditions of the PO. | E | | |
| Comml/313 | Ability to trigger Freight invoice once MRC billing done. Certificate issued by site/customer for the receipt of materials at site is Material Receipt Certficate(MRC). BHEL raises bills against the receipt of MRC on customer.(Generally 15% of cost). As generally feight bills are admitted after MRC, it is Fright bill generation can be automated | E | | |
| Comml/314 | Ability to make available scanned copy of despatch documents online | E | | |
| Comml/315 | Ability to generate alerts on billing dues | E | | |
| Comml/316 | Ability to generate Freight at actuals. | E | | |
| Comml/317 | Ability to allocate advance according to orders for spares. | E | | |
| **Despatch** | | | | |
| Comml/318 | Ability to handle despatch programme for projects and Despatch mgmt. (Despatch details would not contain any budget amount. It would contain details like dispatch advice note, packing list, LR details, vehicle details,invoice etc) Multi horozon planning over the year wrt dispatches so that logistics can be planned while simultaneously capturing dispatch details like packing list LR etc. | E | | |
| Comml/319 | Ability to update despatch instruction online | E | | |
| Comml/320 | Ability to make available Despatch Details online | E | | |
| Comml/321 | Ability to make intimation and arrangement of Road Permits | E | | |
| Comml/322 | Freight/Package payment process to include Contract masters with zero date, termination date, percentage of business allocated to each Transporter/Packer | E | | |
| Comml/323 | Integration of Weigh Bridge with proposed Solution for directly recording weights | E | | |
| Comml/324 | Provision for Package Planning, transportation, and space. | E | | |
| Comml/325 | Ability to link Despatch planning with shop planning. | E | | |

| S.No. | Particulars | Essential / Desirable | Vendor Response | |
|---|---|---|---|---|
| | | | Offered ERP Product | If the response is SD, mention the Module Name which supports the requirement |
| Comml/326 | Provision for repository for documents generated from despatch process | E | | |
| Comml/327 | Ability to make available Site information online. | E | | |
| Comml/328 | Ability to link purchase order raised for advance manufacturing action with confirm order | E | | |
| Comml/329 | Provision for vendor master | E | | |
| Comml/330 | Ability to perform Transporter performance evaluation online. Based on a definite logic based on the issued guidelines, Trans Perf to be calculated and informed to all so as to plan better for the future | E | | |
| Comml/331 | Provision for workflow for sending payment request to finance. | E | | |
| Comml/332 | Ability to perform Vehicle planning and allocation of business. Ability to propose vehicles, lorry, truck based on the stock and dimensions. Vehicle demand to be generated automatically and to be vetted by the Logistics person for further process | E | | |
| Comml/333 | Ability to track vehicles. To track vehicle movement in system for the consignments being despatched from manf units. | E | | |
| Comml/334 | Ability to generate automatic alerts and reminders to customers. | E | | |
| Comml/335 | Ability to have a workflow based approach for tracking the movement of information from Manufacturing Unit to ROD to CHA to Customs for the registration activity and online debiting of same at the time of import. | E | | |
| Comml/336 | Ability to prepare Road Despatch Advice (RDA)/T-NOTE (incl. pass and tally) should be online | E | | |
| Comml/337 | B/E print out and TR6 Challan print out from customs | D | | |
| Comml/338 | Ability to make available destination information and consignee details to be at the order level. | E | | |
| Comml/339 | Provision for Checklist for contract creation in system. | E | | |
| Comml/340 | Ability to make available information on manufacture of each component. | E | | |
| Comml/341 | Provision for Bar-coding systems for tracking components. | E | | |
| Comml/342 | Ability to centralize Procurement process. | E | | |
| Comml/343 | Ability to generate mail trigger for over dimensions to managers. Alert mail to go in case of ODC consigments to the site incharge (also alers for shortshipments,transshipments etc). It is a part of planning process | E | | |
| Comml/344 | Ability to generate alert from manufacturing on the expected despatches | E | | |
| **Post COD & Reconciliation Activities** | | | | |
| Comml/345 | Provision for uploading punch point resolution for performance guarantee(PG) test. | E | | |
| Comml/346 | Ability to capture synchronisation event details. All the imp milestones while erection and commissioning to be captured from site as and when they happen. | E | | |
| Comml/347 | Ability to reconcile on monthly basis and remedial action to be taken eventually adding to project repository. | E | | |
| Comml/348 | Ability to archive Contract Documents | E | | |
| Comml/349 | Ability to intimate completion of projects to respective stakeholders. | E | | |
| Comml/350 | Ability to reconcile Bank Guarantee, Warranty, balance payment and financial data. | E | | |
| Comml/351 | Ability to track Checklist on completion on activities for a contract. | E | | |
| Comml/352 | Provision for Issue tracking system. | E | | |
| Comml/353 | Ability to generate alert on erection completion to respective stakeholders and trigger for PG test | E | | |
| Comml/354 | Provision for PG Test activities through system | E | | |
| Comml/355 | Ability to generate alerts once synchronisation is complete to be sent | E | | |
| Comml/356 | Ability to reconciel Material/Finance through system. | E | | |
| Comml/357 | Ability to disable post closing MDR,SAR,CAR. Material Discrepancy report - raised by site in case of discrepancy betn physical and documents with workflow site->Unit->concerned unit dept->site. Quality related issues at sites are called 'Site Action report;(SAR). Commissioning activity related are 'Commissioning Action Report'(CAR). Need to handle the issues, capture costs, give feedback to the concerned out of these systems. | E | | |
| Comml/358 | Ability to track surplus materials from sites. | E | | |
| Comml/359 | Ability to generate Invoice as a single bill to customer and supporting documents online. | E | | |

| S.No. | Particulars | Essential / Desirable | Vendor Response | |
|---|---|---|---|---|
| | | | Offered ERP Product | If the response is SD, mention the Module Name which supports the requirement |
| Comml/360 | Ability to provide information from project management group and business sectors on projects to be commissioned for the year | E | | |
| Comml/361 | Ability to genertate alerts on insurance proceeds | E | | |
| Comml/362 | Ability to track engineering issues to be dealt by FES. | E | | |
| Comml/363 | Provision to make available Punch list in system | E | | |
| Comml/364 | Provision for   Project closure till archiving after closing the statuatory audit requirements till minimum period of 8 years | E | | |

| S.No. | Particulars | Essential / Desirable | Vendor Response | |
|---|---|---|---|---|
| | | | Offered ERP Product | If the response is SD, mention the Module Name which supports the requirement |
| Srsk/0001 | Provision to ensure the safe handling and tracking of Hazardous Substance, Dangerous Goods, Wastage | E | | |
| Srsk/0002 | Provision to ensure the compliance of individual products with Restriction of Hazardous Substances RoHS | E | | |
| Srsk/0003 | Provision to ensure the fulfilment of environmental regulations for emissons management | E | | |
| Srsk/0004 | Provision to ensure the Industrial Hygiene and Safety | E | | |
| Srsk/0005 | Provision to ensure Occupational Health | E | | |
| Srsk/0006 | Provision for integrated approach to Governance, Risk and Compliances | E | | |
| Srsk/0007 | Provision to ensure compliance with corporate governance. | E | | |
| Srsk/0008 | Provision to standardize the identification, measuring and responding to operational risk | E | | |
| Srsk/0009 | Provision to identify the key risks and performance indicators | E | | |
| Srsk/0010 | Provision to users with privileged but controlled access | E | | |
| Srsk/0011 | Provision for identifying the user with conflicting role and authorizations for avoiding the risk | E | | |

| | TECHNICAL PARAMETER | RESPONSE |
|---|---|---|
| | **Architecture** | |
| 1 | Does the application system architecture support upgrading with minimum modifications / downtime? | |
| 2 | Ability to suitably map BHEL business need and modify without modifying any application source code, so that they are preserved during upgrades. | |
| 3 | Is the system's solution based on shared and reusable architectures, that is, applications, systems and infrastructure are characterised as service-oriented, component-based & reusable? | |
| 4 | Does the  system provide for multi-tiered architectures? | |
| 5 | Does the  system support interoperability to the extent that business processes, application and data can be shared and integrated across the enterprise with potential business partners? | |
| 6 | Does the  system provide application architectures that are highly granular and loosely coupled? | |
| 7 | Does the system provide web based interface for client access? | |
| 8 | Does the solution architecture provide end to end horizontal and vertical scalability? | |
| | **Integration** | |
| 9 | The Solution shall provide an application architecture which can be integrated with third party / legacy applications using a middleware/ EAI /EDI technology - applications as detailed in the RFP (Integration). | |
| 10 | The solution should have a component to integrate(two-way) with atleast IBM Lotus Notes, Microsoft Exchange, & Zimbra and other standard / open /cloud based mail messaging solutions. | |
| 11 | Ability to integrate/ interface with industry standard software like CRM, SCM, SRM, etc. | |
| 12 | Can the system import and export data to/from Project management software like Microsoft Project, Primavera etc? | |
| 13 | Can the system be integrated with the LDAP system? | |
| 14 | Ability to interface with Bar Code, SMS Gateway, GPS, RF devices, & RFID Systems | |
| 15 | Availability of framework and tools to develop custom adapters in the product. | |
| | **ERP Solution** | |
| 16 | The solution architecture should have Production, Development and Quality Assurance/ test environments | |
| 17 | The solution shall be Unicode compliant | |
| 18 | The solution should be IPv6 compliant | |
| 19 | Ability to connect ERP database through ODBC, OLEDB, JDBC and through native drivers | |

| | TECHNICAL PARAMETER | RESPONSE |
|---|---|---|
| 20 | The solution should have the ability to modify the ports such that there is no clash with any other software e.g. Anti Virus, Firewall, other office applications | |
| 21 | Ability to support multi currency and multi time-zone operations | |
| 22 | Capability to tailor the error messages | |
| 23 | The system should cater for multiple companies, divisions and departments | |
| 24 | Ability to design different custom views of data to be accessed by different users or group of users according to their data access authorization.  Views should provide high graphical interface and should support drag and drop feature for data fields for easy on-line design of the view contents. | |
| 25 | Ability of the solution to provide XML based web-services which can be used by other applications | |
| 26 | Ability to support third party load and stress testing tools (like Loadrunner, Silk Performer etc) | |
| 27 | Ability to provide input forms and reports in localised legal language i.e. Hindi etc. | |
| **Mobility** | | |
| 28 | The solution should support mobile application development & deployment for enterprise mobility | |
| 29 | Ability of central administration, management of mobile application, users | |
| 30 | Ability to integrate with mobile OS (Android/Windows/iOS) and should support for publishing dashboard reports onto mobile. | |
| **Data Migration** | | |
| 31 | The solution shall be able to import/export data from various databases and formats (text, excel, CSV, XML etc) | |
| 32 | Import Data Wizard to import Master/Transactional Data and Control Settings in selected file formats to easily convert data from other applications. | |
| **Workflow** | | |
| 33 | Ability to utilize integral workflow capabilities for routing, knowing status and be able to view the document flow with duration at each level. | |
| 34 | Ability to support standard work flow languages | |
| 35 | Workflow integration with Messaging / Mobile Solutions | |
| **Data warehousing (DW) and ETL Tool** | | |
| 36 | Capability of ETL tool to extract, transform and load data from disparate source systems and perform the necessary transformations to establish a common format | |
| 37 | Does the ETL tool support on-line and batch data extraction, transformation and loading | |
| 38 | Is data warehousing tool an integral part of ERP | |

| | TECHNICAL PARAMETER | RESPONSE |
|---|---|---|
| 39 | Does the ETL tool have user friendly GUI for the users to handle ETL processes, such as modify data feeds, change of business logic used for data ETL, modify ETL parameters, create / edit / execute large number of transformation rules | |
| 40 | Does the solution include a data mining tool that provides bottom up, discovery driven data analysis | |
| 41 | Does the solution include a tool to expedite data mapping process from source systems to the DWH objects | |
| 42 | Does the solution include Rule based data cleansing / enhancement tool | |
| **Document Management** | | |
| 43 | Does the application provide for secure storage and retrieval of documents like Spreadsheets, Word documents, AutoCAD, PDF files, OLE objects etc.based on authorizations? | |
| 44 | Interface with Industry standard PLM & Collobaration software | |
| 45 | Does the system allow documents to be shared? | |
| 46 | Can Document's effective dates (To-From) be defined? | |
| 47 | Does the system support Automated and Manual version control with a record of change history and status? | |
| 48 | Does the system support check in/check out of the document? | |
| 49 | Does the system provide facility for different type of workflow on the documents? | |
| 50 | Does the System provide for sequential and parallel review of various documents with status control? | |
| 51 | Does the system provide the facility to search documents based on various search criteria including content? | |
| 52 | Does the system provide facility for indexing of document? | |
| 53 | Does the system support Engineering change management? | |
| 54 | Does the system support Archiving of documents? | |
| 55 | Does the system support Digital Signature? | |
| 56 | Is there an in-built document viewer for common file formats (like pdf, doc, docx, dwg, tiff, 3D etc.)? | |
| 57 | Does the system provide access and print control at viewer level? | |
| 58 | Does the system support building of document hierarchy? | |
| **On-Line Help** | | |
| 59 | Can the users access online documentation? | |
| 60 | Does the system have Integrated tutorial documentation tool? | |
| **User Friendly Capabilities** | | |

| | TECHNICAL PARAMETER | RESPONSE |
|---|---|---|
| 61 | Ability to set up business rules like threshold limits and notify exceptions / alert / reminders to users. | |
| 62 | Ability to attach soft copy of documents to master and transaction records | |
| 63 | Ability of the solution to provide query/ messaging facilities through: IVRS on intercom telephones, Mobile SMS based application, Feedback triggers similar to telebanking | |
| **Reporting Capabilities** | | |
| 64 | Access to data and report based on user responsibilities (Roles based access to reports) | |
| 65 | The Solution should provide user friendly interfaces for transactions, screen navigation, query, generation of reports, data exports, etc. | |
| 66 | Ability to generate report output directly in excel, pdf, text, Lotus Work sheet, XML or such other file types and mail to specific mailing lists | |
| 67 | The solution should support sections, tables, pivots, charts, graphs, etc. | |
| 68 | The user should be able to browse through metadata for detailed information on objects of ERP to build adhoc reports | |
| 69 | The user should be able to create custom objects / formulas for repeated use in reporting tool | |
| 70 | The solution should provide standard report templates | |
| 71 | Ability to schedule reports to run at periodic intervals | |
| 72 | Ability to send reports electronically like email/fax etc. to other users | |
| 73 | Ability to view reports through web, mobile devices | |
| 74 | Ability to prioritize reports while execution | |
| 75 | Ability of reporting both at unit level and company level | |
| 76 | Ability to provide comprehensive dashboards for senior management | |
| 77 | Ability to archive reports and use in Document management | |
| 78 | Ability to terminate generation of reports based on resource limits | |
| 79 | Ability to allow users the following for creating their own views or reports with ease: Selection of columns, Apply filters and sort orders, Summation, Drill down / drill up, Averaging, User defined periods, Suppression of zero prints, Ability to round , On-line preview / view, Variable width, User defined columns, User defined rows, Arithmetic calculation facilities, Variable print format (e.g. A3/A4) | |
| 80 | The solution should have a GUI tool to build reports | |
| 81 | Is conditional formatting possible, based on thresholds of data ranges for any cell in the report | |
| **Web Portals** | | |
| 82 | The application should be accessible from Web-interfaces enabling the user to operate the system with the help of standard Internet-browser. | |

| | TECHNICAL PARAMETER | RESPONSE |
|---|---|---|
| 83 | Does the portal support personalization and role based access | |
| 84 | Ability to integrate the web portal with ERP solution | |
| 85 | Ability to publish and subscribe facility for web content delivery | |
| 86 | Ability to support redundant single sign on server | |
| 87 | Does the portal allow multiple portlets to be displayed | |
| 88 | Is single sign on to other components possible through portal | |
| 89 | Does the tool allow automatic indexing and searching portal | |
| 90 | Does the solution provide a tool for content management | |
| **Security and Controls** | | |
| 91 | Ability to support authentication by use of User IDs, passwords, encryption, tokens, PIN codes and timeouts | |
| 92 | The system should assign and enforce access rights to users for accessing certain data and functions within the application appropriate to their position and job roles. | |
| 93 | Complete / Customized audit trail for all types of transactions on application level | |
| **User Access and Security** | | |
| 94 | Ability to allow definition of rules for password composition and password encryption as per BHEL password policy | |
| 95 | Ability to configure the number of permissible unsuccessful log-in attempts. | |
| 96 | Ability to handle data updating/deletion/creation only through application layer by restricting users to access the database directly. | |
| 97 | Ability to provide access level security for Entry forms at Field level - allow, read only, Hide and at Transaction level - allow / deny | |
| 98 | Ability to provide access level security for reports at Field level - show / hide and at Transaction level - allow / deny | |
| 99 | Ability to provide authorization by transaction type | |
| 100 | Ability to provide authorization by user name | |
| 101 | Ability to provide idle / session time out. | |
| 102 | Ability to encrypt password while passing on wire | |
| 103 | Ability to support 2 factor authentication for users connecting to ERP from internet | |
| 104 | Centralized repository of all identification and access control data | |
| 105 | Support access control to individual or groups of applications. | |
| 106 | Ability to provide restriction on maximum execution time on any transaction | |
| 107 | Ability to provide user login with time restriction | |
| **Disaster Recovery** | | |
| 108 | Ability of the solution to support DR with synchronous replication of data | |

| | TECHNICAL PARAMETER | RESPONSE |
|---|---|---|
| 109 | Is there any recovery processing provided in the event of software, hardware or data failure? | |
| 110 | Ability to support high availability archirecture / infrastructure to ensure solution availability in case of hardware failure | |
| | **Hardware** | |
| 111 | The application should be natively built based on 64 bit operating system and shall support 64bit CPU architectures (RISC/ EPIC) | |
| 112 | The Solution design should support load balancing at the application layer | |
| 113 | The Solution should include tools / mechanism for System, Database administration, performance measurement and tuning activities along with reporting. | |
| | **Back up and Restore** | |
| 114 | Integrated tools to manage Database backup and restore | |
| 115 | Solution should support third party backup tools like IBM Tivoli, HP Data Protector etc | |
| 116 | The solution should be capable of supporting full, incremenatal, on-line, and off-line data backup and restoration | |
| | **Operational** | |
| 117 | Ability to access the application over network having high latency (e.g. VSAT) | |
| 118 | Provision for version control mechanism of Source Code. | |
| 119 | Provision for Centralised Role and user management & administration for the solution. | |
| 120 | Provision of a centralised tool for management of devlopments across landscape like moving ,monitoring & troubleshooting. | |
| 121 | Provision for data archiving with tools. | |
| 122 | Centralised system monitoring/dashboard engine for entire solution, including DB health check,memory management,transactoin load analysis etc., | |
| 123 | Provision for automated deployment of support patches/packages considering current patch levels and DB,OS versions. | |
| 124 | Provision for data transfer between different systems of the landscape like configuration data along with master data,based on particular period/financial period/ particular business node /company code data/specific business process etc., | |
| 125 | Provision for offline data entry and interactive forms. | |
| 126 | Integrated Devlopment Environment. | |
| 127 | Ability to perform periodic system health check & reporting by OEM. | |
| 128 | Is the system compatible with 3rd party system monitoring package, application diagnostic tools such as HP Open View, BMC Remedy, CA-Unicentre, IBM Policy Director, CA-Wiley or other Network Management software etc? | |

## Annexure # 3 Existing Software

### Annexure # 3.1 Existing Engineering Software

| S. No. | Software Name |
|---|---|
| 1. | Wrench |
| 2. | AutoCAD |

### Annexure # 3.2 Existing Applications – SAP ERP

| General | Hyderabad | Trichy | EDN Bangalore | EPD Bangalore |
|---|---|---|---|---|
| **Functional version** | 6.0 | 4.7 | 4.7 | 4.7 |
| **Modules** | PS, MM, FI,CO, PP, SD, QM, PM | PS, MM, FI,CO, PP, SD, QM, PM | PS, MM, FI,CO, PP, SD, QM, PM | MM, FI,CO, PP, SD, QM |
| **Advanced Modules** | • SAP Business Suite Developer<br>• SAP Business Suite Professional<br>• SAP GRC Access Control Package<br>• SAP Supplier Relationship Management<br>• SAP XI<br>• SAP NetWeaver MDM, suppliers<br>• SAP NetWeaver MDM, products<br>• SAP NetWeaver MDM, customers<br>• Test Data Migration Server<br>• Adobe Interactive Forms<br>• BO Developmet<br>• BO Concurrent Users | Not Available | Not Available | Not Available |
| **Technical version** | 6.0 | 6.0 | 6.0 | 6.0 |
| **No of Licenses** | 850 | 975 | 250 | 54 |
| **Year of implementation** | 2009 | 2001 (First implementation) | 2003 | 2004 |

## Annexure # 3.3 Existing SAP Licenses

| Sl.No. | LICENSE TYPE | NO. OF LICENSES PURCHASED | PURCHASE DATE | Unit |
|---|---|---|---|---|
| 1 | SAP Business Suite | 100 | 12/21/2001 | HPEP, Hyderabad |
| 2 | SAP Business Suite | 600 | 12/27/2007 | |
| 3 | OPTISUITE Modules | 8 Modules | 7/14/2008 | |
| 4 | SAP Business Suite | 150 | 2012 | |
| 5 | mySAP.com | 100 | 07-02-2001 | Trichy |
| 6 | mySAP.com | 200 | 22-07-2002 | |
| 7 | mySAP.com | 100 | 10-02-2005 | |
| 8 | mySAP.com | 300 | 2012 | |
| 8 | mySAP.com | 200 | 2012 | |
| 9 | mySAP Business Suite | 75 | 7/3/2006 | |
| 10 | Professional | 100 | 6/6/2003 | EDN, Bangalore |
| 11 | Professional | 50 | 21/06/2004 | |
| 12 | Professional | 60 | 24/09/2005 | |
| 13 | Professional | 40 | 18/02/2008 | |
| 14 | SAP-ESS & PAYROLL | 2000 + 3000 | 30/10/2004 | |
| 15 | Named User Licenses | 54 | 01.09.2003 | EPD, Bangalore |
| 16 | Professional User (HCM) | 200 | 29.06.2006 | Corporate Office |
| 17 | Employee Self Service (ESS) | 17000 | 29.06.2006 | |
| 18 | Manager Self Service (MSS) | 3000 | 29.06.2006 | |
| 19 | Payroll Records | 43000 | 29.06.2006 | |

Note:    1) Licenses listed above from Sl.No. 1 to Sl.No. 15 are covered under 1 main EULA. These Licenses were procured at different stages directly from OEM. There is appendix to main EULA for different units.
2) Licenses listed above from Sl.No. 16 to Sl.No. 19 are covered under separate EULA. These Licenses were procured directly from OEM.

## Annexure # 3.4 Existing Oracle Database Licenses

Following is Owner's existing inventory of Oracle Database licenses which are under ATS (Annual Technical Support):

| License Metric | Quantity |
|---|---|
| Oracle Database Enterprise Edition - Processor Perpetual | 52 |
| Oracle Database Enterprise Edition - Named User | 553 |

# Annexure #4 Overview of Functions
## Material Management

- Supplier Development

    o Vendor Registration

    o Supplier Performance Rating

    o Material Category Creation & Updation

    o Change in Vendor Details

    o Reactivation of Vendor Profile

- Material Procurement

    o Indenting

    o Tendering

    o Receipt and opening of Tenders

    o Comparative Statement Of tenders

    o Ordering

    o Rate Contracts

    o Techno Commercial MOUs

    o Insurance Declaration

    o Co-ordination

    o Reverse Auction

    o E-Procurement:

        ▪ e-Procurement as part of 'ONE-BHEL' - ERP project should have PKI enabled solution having compliance to extant CVC guidelines and IT Act 2000.

        ▪ The e-Procurement solution shall be work-flow based.

        ▪ The e-Procurement solution must comply to CVC Circular No. 01/01/2012 dated 12.01.2012 for abidance of 'Guidelines for compliance to Quality requirements of e-Procurement Systems' dated 31st August, 2011 notified by Department of Electronics & Information Technology (DeitY), Ministry of Communications & Information Technology [DIT/STQC Guidelines].

- - The solution shall also be certified by STQC for compliance to above guidelines.

  - Further, guidelines/instructions issued by Government from time to time relating to e-procurement solution shall be adhered to.

  - The cost of e-Procurement solution shall be inclusive of any certification charges.

  - Creation & Updation of PMD

  - Local Purchase

- Import Group

  - Obtain advance authorization for Physical & Deemed Exports

  - Project Import

  - EPCG Licence (export promotion capital goods)

  - Utilization of Duty Concessions Schemes other than DEEC, EPCG & Project Import (e.g. Defence certificate, Power certificate, Director General of Hydro Carbon, R&M, Lift Irrigation scheme)

  - Custom Clearance Activity at Units

  - LC Opening

  - Invalidation of Advance License for Purchase from Indigenous Supplier

  - Revalidation of Advance License

- Material Receipt, Clearance & Issue

  - Receipt of Material (Door delivery)

  - Receipt of Material (Collection by Central Receiving Stores)

  - Processing of Rejected Material

  - Insurance

  - Excise Duty Processing

  - Transporter Bill

  - Scrap Disposal

  - Scrap Disposal (hazardous Waste - non saleable)

  - Managing Stock items

- o Material returned from shop and sub-contractors

  - o Material to site (MTS) (Bought Out Items)

  - o Material Issue

- Sub-Contracting

  - o Indenting

  - o Tendering

  - o Receipt and opening of Tenders (As per MM module)

  - o Preparation of CST (As per MM module)

  - o Ordering (As per MM module)

  - o Issue of Material, Tools, Gauges etc.

  - o Inspection

- Material Planning & Inventory Control

  - o Preparation & Monitoring of Material Budget

  - o Preparing MIRs

  - o Monitoring & Review

- Accounting of material for cases where material is delivered to sub-contractor directly from Vendor

  - o Copper Accounting

### *Quality*

- Quality Audit (product/process/system at MUs/sites/vendor works)

- Field Quality Plan

- Manufacturing Quality Plan

  - o Preparation of Log sheet

- Vendor Quality Plan

- Quality Management System Audit as per ISO-9001

- Process for QMER

- TQM Implementation for Business Excellence

- Process for Root cause analysis (RCA)

- Site Action Request (SAR) / CAR Handling

- Quality Circle

- Quality training

- Inspection at Project Sites (Quality Checks as per FQP/Drawings)

- Non Conformance Reporting (NCR System)

- Cost of Rework and Rejection

- Document Management System -All Quality Records & Documents, Standards,(Knowledge Management Portal)

- System for feedback to Internal and External agencies on Product/System Quality

- Process for Incoming Goods Inspection

- Stores Exit Inspection (to Shop, SC & CDC)

- Pre Dispatch/Packing Inspection

- Sub Contract & Source Inspection

- In-Process Inspection at shop

- Process for Process /Operator Certifications (ASME/IBR/API etc.)

- Process/Operator Certifications (NDT/Welder /Brazing Qualification etc)

- Material Testing

- Calibration

- NDT (Non-destructive testing)

- Process for Measurement of Quality Health Index

- Performance Testing of Equipment and Components at Shop Floor

- Process of incorporating quality requirements in purchase/sub-contract indents /PO files

## Engineering

- Proposal Engineering

- Engineering Inputs
- Pre-order activities
- Post –order activities

- Contract Engineering Coordination
  - Contract Engineering
  - Contract documentation

- Design Documentation
  - Integration with AutoCAD drafting Software
  - Detailed Design
  - Repair Procedure
  - Project Documentation
  - Customer/ In-house Training

- Material Procurement
  - Material Planning
  - Material Indents
  - Technical Scrutiny of Purchase/ Vendor Development Files
  - Support to MM Departments

- Spares Documentation
  - Spares Documentation

- Quality Documentation
  - Engineering Quality Documentation
  - Support to QS

- Product Development
  - Product Development / Improvements
  - Technical Collaborations

- Knowledge Management

- o Knowledge Management

- Residual Life Assessment (RLA), Up-rating, & Renovation & Modernization (R&M)

- Shop & Site Support

*Marketing*

- Business Development

- Preparation and submission of offer

- Post Bid Activities

- Issue of Internal Order

- Realisation of Advance, milestone Payment

- Contract Management (Projects Products-As Applicable)

- Complaint Management (for domestic product marketing)

- Contract Closing

- Generation of Reports for Management

*Manufacturing*

- L3 Level Planning

  - o Support for Budget Finalization (Process owner Central Planning)

  - o Planning for main work orders and all other work orders viz. Spares/repair/AMA etc.

- L4 Level Planning-Manufacturing Shops

  - o Managing raw/ semi-finished material

  - o Manufacturing in shop/ subcontracting

    - ▪ Subcontracting related activities

    - ▪ Shop manufacturing related activities

  - o Management of shop sub-stores

    - ▪ Shop Sub-stores

  - o Management of Blanks

- o Managing rejections

- o Managing Diversions during jobs in process

- o Managing Manufacture of Deviated Components

- L5 Level Planning-Operation- Wise Planning

- Management of Handing Over Of Finished Goods/ Packages/ Boxes by Shops

- Management of Tooling's and Miscellaneous Items in Shops

  - o Special Tooling's

    - For manufacturing of tools in shop

    - For manufacturing of tools through outsourcing

  - o Repeat Special Tooling

    - Against new design (product)

    - To maintain minimum inventory level of shop stores tooling's

    - Replacement of tooling's issued to shops permanently

  - o Tooling-jigs and fixtures, machine consumables

    - First time requirement

    - Repeat ordering/ requirement

  - o Auto Indenting/ Purchase Requisition (meant for multiple users)

  - o Management of Tool Crib/ Shop Tooling Stores

  - o Management of Misc/ Other Indirect Items in Shops

*Technology*

- Manufacturing Feasibility

- Process Planning

- Time Estimation (Norming)

- Identification & Ordering of Standard / Special Tools & Tool proving with involvement of JTE & concerned shop

- Support for Procurement of Capital Items / Minor Capital items / Shop Accessories Purchase

- Support for Procurement of Capital Items / Minor Capital items / Shop Accessories Purchase

- Identification & Qualification of special processes & issue of certificates to qualified personnel (BPS, WPS etc.)

- Identification of requirement of technological materials (not covered in engineering documentation) & raise MPR by (Material Planning and Control) MCX department

- Based on production program of next year, Project wise issue of list of special tools and lists of special tools requiring calibration

- Preparation of technological instructions whenever necessary

- Assistance to the shop personnel towards technology absorption / trouble shooting

- Preparation & proving / establishment of CNC programmes for CNC machines for different components

- Vetting of technical documents received from outsourcing vendors

- Additional Activities

### *Commercial*

- Pre Order Commercial

    o Pre Tendering Process

    o Distribution and Review of Tender document

    o Preparation of Offer

    o Post offer activities (till the order is finalized)

        - Post offer activities – technical

        - Post Order activities

    o Post order activities (till handing over to Unit/Region Commercial /PMG/OPC)

        - Obtaining internal order

        - Unit Internal Order (WO)

        - Handing over to Unit Contract Management

        - Post order Financial Activities

    o Advance actions

- ■ Advance engineering actions

- ■ Advance manufacturing actions

- o Diversion of  Orders

- o Miscellaneous activities

  - ■ Miscellaneous other activities

- Post Order Commercial

  - o Product Group Identification & Packaging Activities

  - o Preparation of L2 Network

  - o Preparation of Billing Break-up

  - o Project Management

  - o Project Engineering Coordination

  - o Project Mgmt. (Site Coordination)

  - o Budget, MIRs and Customer Visits

  - o Billing and Cash Collection

  - o Despatch

  - o Transportation

  - o Post COD & Reconciliation Activities

*Finance*

- Costing

  - o Labour / Factory Expenses (FE) Costing

  - o Material Costing

  - o Engineering Costing

  - o OIP, WIP (including Engineering WIP) and FG Costing

  - o Product Costing

  - o Cost Audit (wherever applicable)

  - o Revision of Rates (for Sales Quotation)

- o R&D Expenditure

- o Rejection &Rework

- o Cost Investigation

- o Vetting of Cost Estimation

- o AS-7 Accounting (for purpose of revenue recognition)

- o Closing of Monthly/Quarterly/Annual accounts of Cost Section

- o Cost Plus Pricing

- o Provision for Short Supplies

- Insurance Claims

  - o Arranging Insurance Policies

  - o Settlement of insurance claims

- Sales Tax

  - o Sales tax payment, Return, VAT Audit

  - o Collection of forms

  - o Returns, Assessments and Appeals

  - o Adjustment of Input Tax Credit

  - o Entry Tax

  - o Exit Tax

- Excise

  - o CENVAT  Entries

  - o Excise Duty payment

  - o Service Tax

  - o Attending to Excise Authorities

  - o Excise & Service tax Audit

  - o Returns & Assessments

  - o WCT/VAT Assessment

- o Export

- o Others

- Account Receivables

    - o Excise Billing

    - o Commercial Billing

    - o Inter Unit Billing

    - o Export Billing

    - o Raising of Other and Supplementary invoice/Credit Note

    - o PVC Billing

    - o MRC Billing

    - o Mile Stone (Deferred) Billing

    - o Final Deferred Billing

    - o Freight & Insurance Billing

    - o Billing for Services

    - o Customer Billing (Erection, Commissioning and After Sales Service)

    - o BOI Billing

    - o Check List &Monthly JV

    - o Collection

    - o Collection received from customer

    - o Reconciliation of 419 Account

    - o Inter-Unit Dispute

    - o PLA Reconciliation

    - o Generation of MIRs

    - o Bank Guarantee

    - o Outward Freight Bill Payment

- Cash Management

- o Planning for funds

- o Coordination with Bank

- o Issuing of cheques / EFT Remittances

- o Cash Disbursement

- o Bank Reconciliation

- o Report & MIRs

- o Audit of A/Cs of Cash Section (Internal / Statutory / Govt.) – Discussed and to be covered under Audit

- Books & Budget

  - o Preparation of accounts

  - o Inter-unit Accounting

  - o Budget, BO, Strategic Plan, Flash Results Preparation

  - o Monthly / Quarterly results

  - o Capital budgeting & MIRs

  - o Additional Activities

- Assets  Accounting

  - o Fixed Assets

  - o Depreciation

- Export Incentive

  - o Export Incentive

- Account payable

  - o SRV Pricing

  - o SIT Accounting

  - o Review of advances & recoveries

  - o Accounting of CENVAT Credit

  - o Capitalization of Assets

  - o Material with Fabricators (including copper)

- Store Accounting (PSL)
  - Store Accounting (PSL)
  - Stock verification
  - Scrap disposal
  - Bill Processing for Payment - ROD Material Services
- Purchase-Finance
  - Purchase Files and Works Files
- Foreign Purchase
  - Establishment of LC
  - Accounting & Pricing of SRV for imported material
  - Payment to vendors- LC/CAD bills-received intimation from Bank
  - Payment of consultancy/ royalty / technical know-how fee / testing
  - Bank Guarantee / FDR Monitoring
  - Payment of Miscellaneous bills
- Bills processing for payment
  - Bills processing for payment – Direct outside
  - Payment & Accounting of Entry Tax and TDS
  - Bills processing for payment – Bank Bills (LSC/LC)
  - Issue of Concessional Sales Tax Forms to Vendors
  - Bills processing for payment – Inward Transportation
- Works Bills Accounting
  - Works Bill processing (Both Running Contracts & Contingent)
- Misc. Bills Accounting
  - Payment and Adjustment of Imprest / Departmental Advance
- PF/EPS  accounting & bill passing  (To Be Covered under SAP HR Project)
- Employee payments & accounting (To Be Covered under SAP HR Project)

- Preparation of salary bills

- Remittance after moERnthly payroll

- Payment of ICWAI trainees, ad-hoc Nurses & ad-hoc doctors

- Payment of stipend to trainees

- Other activities & payments

- Review of payroll

- Annual Statements

- Misc duties

- Expired employees payment

- Inter unit transactions

- Reports, returns & MIRs

- Monthly reconciliation

- Audit of accounts

- PS Regions - General Ledger

  o Cash/Cheques Receipts

## *Maintenance*

- Breakdown Maintenance

- Procurement of spares/services

- Reconditioning, Retrofitting, Upgradation, Overhauling, Major repairs

  o Identification

  o In house

  o External Agency

- Preventive Maintenance

  o In house

  o External (AMC)

- Condemnation/ Surplus

- Budgetary Planning & Control

- Emergency/ Local purchase

- Shift management

- Factory Civil Construction/Electrical Installation & Maintenance

- Log Book Maintenance

- Transport – Car pooling & Billing process

- Instrumentation / Instrument calibration

- Overall Equipment Efficiency (OEE)

- Energy Services

- Facility Engineering (Design Bureau, CMW, Lifting Tackles, etc)

- Telecom Services

- Erection and Commissioning of Plant & Machinery

- HSE - Health, Safety & Environment

- Statutory Compliance

### *Planning and Development*

- Units

  - Long Range Planning

  - Technical planning (Engineering & Manufacturing), to be covered in manufacturing module

  - 3 Years Broad Objectives

  - Annual Planning/Budget

  - Annual Planning: Capital Budget

  - Formulation of BSC of Units

- Business Sectors

  - Preparation of Strategic Plan of the Business Sector

  - Preparation of Broad Objectives

- o Preparation of Order Booking Budget

- o Preparation of Half Yearly Plan

- o Preparation of Pre MCM Agenda

- o Preparation of MCM Agenda

- o Formulation of BSC of the company and the Business Sector

- o Annual Planning: Capital Budget

- o Provide input for AS 7

- o BG/CG (only done in SSBG)

- o Reporting

- System Integrators

  - o Long Range Planning

    - Strategic Plan Development (5 years perspective)

    - Strategic Plan Development (2-5 years perspective)

  - o Annual Budgeting

  - o Project Budgeting

  - o Engineering Planning

## *Productivity & Management Services*

- Productivity

  - o Suggestion Scheme

  - o IMPRESS

  - o BHEL Excel Awards

- Management Services

  - o Standard Procedures

  - o Resource Planning of Indirect Materials

  - o Departmental Procedure

  - o Information Sharing

- Layout Planning

- Manpower Planning (Applicable in Regions)

- Technical Training (Applicable in Regions)

## Annexure #5 Technical Evaluation Methodology

The Bidder's technical solution proposed in the Technical Evaluation bid document will be evaluated as per the requirements specified in the RFP and adopting the following evaluation criteria:

| Sl. No. | Evaluation Criteria | Total Marks | Minimum Marks (Cut-off) |
|---------|---------------------|-------------|-------------------------|
| 1 | Functional Requirement Specifications (FRS) | 20 | >=16 (80%) |
| 2 | Technical Requirement Specifications (TRS) | 10 | >=8 (80%) |
| 3 | Client Citations | 20 | >=12 (60%) |
| 4 | Proposed Solution | 10 | >=8 (80%) |
| 5 | Project Implementation approach & methodologies | 20 | >=16 (80%) |
| 6 | Proof of concept (POC) | 20 | >=16 (80%) |

Each Bidder will be assessed & given marks on parameters of the Evaluation Criteria as mentioned above & detailed in below section. The summation of marks given to each bidder will give the total technical score for each bidder. The Bidder needs to secure minimum marks on each of the evaluation criteria to qualify for the next stage. Failing to secure minimum marks in any of the criteria mentioned above shall lead to technical rejection of the Bid and Bidder.

Bidder's Normalized Technical score will be calculated by the following formula:

***Normalized Technical Score of a Bidder = {Technical Score of that Bidder / Score of the Bidder with the highest technical score) X 100} (adjusted to 2 decimals)***

The Bidder should qualify in each of the evaluation criteria and secure overall score of atleast **80 percentile** to qualify for the next stage of evaluation.

The Bidder is required to submit all required documentation in support of the specified evaluation criteria. Each of the above Technical evaluation criteria has been detailed out below along with the scoring methodology:

Example: The following table illustrates how the score will be calculated for Technical Evaluation:

| Evaluation criteria | Max score | Bidder-1 Raw score | Bidder-2 Raw score | Bidder-3 Raw score |
|---------------------|-----------|--------------------|--------------------|--------------------|
| Functional Requirement specifications (FRS) | 20 | 18 | 14 | 16 |
| Technical requirement specifications (TRS) | 10 | 9 | 8 | 8 |
| Client citations | 20 | 18 | 18 | 16 |

| | | | | |
|---|---|---|---|---|
| Proposed Solution | 10 | 9 | 10 | 10 |
| Project Implementation approach & methodologies | 20 | 16 | 20 | 16 |
| Proof of Concept (POC) | 20 | 20 | 16 | 16 |
| Total | 100 | 90 | 86 | 82 |

Bidder-1 has the highest raw score of 90. Bidder-1 normalized score is 100.

Bidder-2 is disqualified as its FRS marks 14 are less than FRS cut-off 16.

Score of Bidder-3 = 82/90 *100 = 91.11

# *Functional requirement specifications (FRS)*

The Owner intends to assess the capability of Bidders in implementing 'ONE-BHEL' Integrated Solution functional capabilities for ERP Product. The weightage assigned to **Functional requirement Specifications (FRS) is 20 marks.**

Each functional requirement across the functional areas mentioned in **Annexure #1 Functional Requirement Specifications** has been assigned priority as defined below to denote relative significance of the functionalities of the proposed solution for conducting business of the Owner.

*The FRS response of the Bidder has to be certified by the ERP Product OEM w.r.t. the coverage of the solution through standard ERP, customization and 3ʳᵈ Party software/solution.*

*Wherever the FRS criteria is met through customization or 3ʳᵈ Party solution, the ERP Product OEM should certify that the functionality cannot be met through Standard ERP or its Add-On engine.*

| Priority | Marked as | Weightage |
|---|---|---|
| Essential | E | 3 |
| Desirable | D | 1 |

### *Response for priorities marked as Essential (E)*

The Bidder has to give adequate response, for each of the functional requirement and the bidder response shall be any of the following 3 options –

| Bidder response | Details | Marks Assigned for Response |
|---|---|---|

| | | |
|---|---|---|
| SD | Supported as delivered out of the box - Standard Product Feature | 10 |
| SC | Supported by Customization / Custom objects - Change in source code | 6 |
| ST | Supported by a 3rd party solution | 3 |

"Not Available" option is not available to the requirements which are marked as "Essential (E)" requirements

***Response for priorities marked as Desirable (D)***

The Bidder has to give response for each of the functional requirement as to how the particular requirement will be met. The response shall be any of the following 4 options -

| Bidder response | Details | Marks Assigned for Response |
|---|---|---|
| SD | Supported as delivered out of the box - Standard Product Feature | 10 |
| SC | Supported by Customization / Custom objects- Change in source code | 6 |
| ST | Supported by a 3rd party solution | 3 |
| NA | Not Available | 0 |

Score for each functional requirement (marked as either Essential or Desirable) will be calculated as the product of weightage for priority and marks assigned for response to each of the functional requirement. The marks thus obtained for each of the functional requirement will be aggregated & the total raw score than will be denominated by maximum score possible for all functional requirements & output of that will be multiplied with 20. The following formulae will be used to get the Functional requirement specification score of a Bidder:

***Functional requirement specification score of a Bidder = {Total raw score for functional requirements scored by Bidder / Maximum marks possible for all functional areas) X 20} (adjusted to 2 decimals)***

The entire bid will be considered as Non-responsive & will be liable for rejection in case:

- The Bidder's Technical requirement specification score as calculated above is less than 80% (<80%).

- The Bidder does not respond to any of the functional requirement

- The Bidder chooses "Not Available" option for any Essential requirement

- The Bidder chooses any option other than that mentioned for the priority

**Example:** The following table illustrates how the score will be calculated for Functional requirement specification:

| Functional Requirements | Priority | Bidder response | Calculated scores |
|---|---|---|---|
| Requirement-1 | E | SD | 3*10 = 30 |
| Requirement-2 | E | SC | 3*6 = 18 |
| Requirement-3 | E | SD | 3*10 = 30 |
| Requirement-4 | D | ST | 1*3 = 3 |
| Requirement-5 | D | SD | 1*10=10 |
| Requirement-6 | D | SC | 1*6= 6 |
| Total Score | | | 97 |
| Maximum marks possible | | | 120 (3*10*3 + 1*10*3) |
| Functional requirement specification score | | | (97/120)*20 = 16.17 |

## Technical requirement specifications (TRS)

The Owner intends to assess Integrated Solution technical capabilities for offered ERP Product. The weightage assigned to **Technical requirement Specifications (TRS) is 10 marks.**

Each technical requirement across the technical areas mentioned in **Annexure # 2 Technical Requirement Specifications** will be of same importance and carry equal weightage. The Bidder has to respond to each of the technical requirement and the response will be any of the following 2 options:

| Bidder response | Detail | Marks Assigned for Response |
|---|---|---|
| A | Available | 2 |
| NA | Not-Available | 0 |

The marks given on the basis of the response given by the Implementation partner for each of the technical requirement will be aggregated & the total raw score than will be denominated by maximum score possible for all technical requirements & output of that will be multiplied with 10. The following formulae will be used to get the Technical requirement specification score of a Bidder:

***Technical requirement specification score of a Bidder = {Total raw score for technical requirements scored by Bidder / Maximum marks possible for all technical areas) X 10} (adjusted to 2 decimals)***

The entire bid will be considered as Non-responsive & will be liable for rejection in case:

- The Bidder's Technical requirement specification score as calculated above is less than 80% (<80%).

- The Bidder does not respond to any of the technical requirement

- The Bidder chooses any option other than that mentioned for the priority

**Example:** The following table illustrates how the score will be calculated for Technical requirement specification:

| Technical Requirements | Bidder response | Calculated scores |
|---|---|---|
| Requirement-1 | A | 2 |
| Requirement-2 | A | 2 |
| Requirement-3 | A | 2 |
| Requirement-4 | A | 2 |
| Requirement-5 | NA | 0 |
| Requirement-6 | A | 2 |
| Total score | | 10 |
| Total raw score | | 10 |
| Maximum marks possible | | (2*6) = 12 |
| Technical requirement specification score | | (10 / 12) * 10 = 8.33 |

## *Client citations*

The Owner has requested Implementation partner to show its capabilities of implementing offered ERP product across related and other industries. The weightage assigned to **Client citations is 20 marks** which will be assigned across following areas -

| S.No. | Citation area | Citation Detail | Maximum Marks |
|---|---|---|---|
| 1 | Global Implementation Experience | The Bidder will get 3 marks for providing 1 (One) citation of minimum 3000 licenses / 2 marks for providing 2 (Two) citations of minimum 1500 licenses/ 1 mark for providing 3 (Three) citations of minimum 1000 licenses. | 3 marks |
| 2 | Implementation of ERP Functions | The Bidder shall get 2 marks for providing single citation covering implementation of all the following functions: Sales, Marketing & Dispatch, Project Management, Material Management, Production Management, Financial Management & costing, Engineering, Quality & Plant Maintenance. The Bidder shall get 1 mark for providing 2 (two) OR 3 (three) citations | 2 marks |

| S.No. | Citation area | Citation Detail | Maximum Marks |
|-------|---------------|-----------------|---------------|
| | | jointly covering implementation of all the following functions: Sales, Marketing & Dispatch, Project Management, Material Management, Production Management, Financial Management & costing, Engineering, Quality & Plant Maintenance. | |
| 3 | Implementation in Engineering & Manufacturing industry | The Bidder shall get 1 mark per citation of offered ERP product Implementation in Engineering & Manufacturing industry with atleast 500 licenses. *Note:- The Bidder can provide maximum of 3 such citations.* | 3 marks |
| 4 | Implementation in Engineering, Procurement, Installation & commissioning Sector | The Bidder shall get 1 mark per citation of offered ERP product Implementation in Engineering, Procurement, Installation & commissioning Sector with atleast 500 licenses. *Note:- The Bidder can provide maximum of 3 such citations.* | 3 marks |
| 5 | Current implementation experience | The Bidder shall get 1 mark per citation related to the implementation of the offered ERP product in last 5 years with at least 500 licenses in each of the implementation. *Note:- The Bidder can provide maximum of 3 such citations.* | 3 marks |
| 6 | Large implementation Experience | The Bidder shall get 1 mark per citation related to the implementation of the offered ERP product in India with at least 1000 licenses in each of the implementation. *Note:- The Bidder can provide maximum of 3 such citations.* | 3 marks |
| 7 | Multi location Implementation Experience | The Bidder shall get 1 mark per citation related to the implementation of the offered ERP product in a company with multiple locations (minimum 5 locations). | 3 marks |

| S.No. | Citation area | Citation Detail | Maximum Marks |
|---|---|---|---|
|  |  | *Note:- The Bidder can provide maximum of 3 such citations.* |  |
| **Total** | | | **20** |

**Note:**
- Technical upgrades and rollouts would not be considered.
- The Self-service licenses will not be considered.
- All the citations are required w.r.t. the ERP implementations where Implementation Partner is the Primary implementation partner in an arrangement (Consortium / Teaming / Others) where more than one partners are part of the bidding proposal OR the Bidder is the sole implementation party.
- The details of contact person in the Client organizations referred in citations must be provided by Bidder for each of the citation.
- Owner reserves the right to independently verify the customer certificate for which Bidder has to facilitate.
- Citations with only Human resource, Customer relationship management & Finance functions will not be considered for evaluation purpose

The Bidder needs to provide detailed citations in the format defined in the **Annexure #15 Citations** for each of the areas mentioned above.

**Example:** The following table illustrates how the score will be calculated for Citations:

| Citation area | Max score | Bidder-1 Citation (Nos.) | Bidder-2 Citation (Nos.) | Bidder-3 Citation (Nos.) |
|---|---|---|---|---|
| Area-1 | 3 | 3 | 2 | 2 |
| Area-2 | 2 | 1 | 2 | 1 |
| Area-3 | 3 | 1 | 2 | 3 |
| Area-4 | 3 | 1 | 3 | 1 |
| Area-5 | 3 | 1 | 1 | 1 |
| Area-6 | 3 | 1 | 1 | 3 |
| Area-7 | 3 | 2 | 2 | 3 |
| Bidders' Score (Out of 20) | 20 | 10 | 13 | 14 |

As per Minimum cut-off marks (60%) for Client Citations section of Technical evaluation, Bidder-1 will not qualify for this section.

## *Proposed Solution*

Each qualified Bidder shall be invited by the owner for a meeting for presenting its proposed Solution at a date, time & venue determined and communicated in advance. The evaluation

shall be carried out by Owner's designated Committee / Group and the entire process shall be video-graphed. The weightage assigned to Proposed Solution is **10 marks** & the bidders shall be assessed on the following:

| Sl. No. | Parameter | Maximum Marks | Marks Evaluation |
|---|---|---|---|
| 1 | Understanding of Owner's requirement:<br>• The Bidder has to present the entire solution (Software Bill of Material) for meeting Owner's Functional & Technical Requirements. | 5 | **5 marks** – Excellent.<br>**4 marks** – Very Good.<br>**3 marks** – Good.<br>**2 marks** – Average. |
| 2 | Understanding of Owner's requirement:<br>• Details of third party solutions proposed to be implemented if any, their description and the purpose.<br>** Excluding Industry standard integration adaptors/connectors. | 2 | **2 marks –** No Third party solution(s).<br>**1 mark -** Third party solution(s) are there. |
| 3 | Hardware Landscape with sizing for the 'ONE-BHEL' solution. | 3 | **3 marks** – Very Good.<br>**2 marks** – Good.<br>**1 mark** – Average. |

## *Project Implementation approach & methodologies*

Each qualified Bidder shall be invited by the owner for a meeting for presenting its proposed Project implementation approach and methodologies at a date, time & venue determined and communicated in advance. The evaluation shall be carried out by Owner's designated Committee / Group and the entire process shall be video-graphed. The weightage assigned to Project Implementation approach & methodologies is **20 marks** & the bidders shall be assessed on the following:

| Sl. No. | Parameter | Maximum Marks | Marks Evaluation |
|---|---|---|---|
| 1 | Methodology and Expertise in business process re-alignment (BPR) & design. | 3 | **1 mark** – Acceptable presentation / document by Bidder.<br>**2 marks** – Additional 1 mark if the Bidder provides evidence(s) of having successfully followed the similar approach in its prior |

| | | | successful ERP implementation projects. **3 marks** – Additional 1 mark if the Bidder for the above evidences provides access to Owner to verify, of having successfully followed the similar approach in its prior successful ERP implementation projects. |
|---|---|---|---|
| 2 | Methodology and approach along with tools and processes provided for addressing data conversion and migration requirements and ensuring the quality of the migrated data through multi-step validation. | 3 | **1 mark** – Acceptable presentation / document by Bidder. **2 marks** – Additional 1 mark if the Bidder provides evidence(s) of having successfully followed the similar approach in its prior successful ERP implementation projects. **3 marks** – Additional 1 mark if the Bidder for the above evidences provides access to Owner to verify, of having successfully followed the similar approach in its prior successful ERP implementation projects. |
| 3 | Complete details with total & phase wise time period, methodologies, processes & controls of the complete "Change Management" across all levels in Owner's entire establishment. | 3 | **1 mark** – Acceptable presentation / document by Bidder. **2 marks** – Additional 1 mark if the Bidder provides evidence(s) of having successfully followed the similar approach in its prior successful ERP implementation projects. **3 marks** – Additional 1 mark if the Bidder for the above evidences provides access to Owner to verify, of having successfully followed the similar approach in its prior successful ERP implementation projects. |
| 4 | | 3 | **1 mark** – Acceptable presentation / document by Bidder. **2 marks** – Additional 1 mark if the Bidder provides evidence(s) of having successfully followed the |

| | | | similar approach in its prior successful ERP implementation projects.<br>**3 marks** – Additional 1 mark if the Bidder for the above evidences provides access to Owner to verify, of having successfully followed the similar approach in its prior successful ERP implementation projects. |
|---|---|---|---|
| 5 | Methodology for Project Governance for:<br>• Governance Mechanism.<br>• ERP Project Management.<br>• Escalation / issue resolution.<br>• Risk Management & Mitigation plan.<br>• Mechanisms to monitor the project timelines.<br>• Change control and estimation.<br>• Quality Management.<br>• Blueprinting capability and methodology. | 3 | **1 mark** – Acceptable presentation / document by Bidder.<br>**2 marks** – Additional 1 mark if the Bidder provides evidence(s) of having successfully followed the similar approach in its prior successful ERP implementation projects.<br>**3 marks** – Additional 1 mark if the Bidder for the above evidences provides access to Owner to verify, of having successfully followed the similar approach in its prior successful ERP implementation projects. |
| 6 | Support and Maintenance covering:<br>• Bill of services offered under support and maintenance.<br>• Team structure to deliver the services.<br>• Mechanism for Escalation process.<br>• Methodology for Application & Infrastructure Support.<br>• Methodology for Incident and Problem Management.<br>• Methodology for Change / Release Configuration Management.<br>• Methodology for Overall Service Level Management.<br>• Methodology for Helpdesk Support. | 2 | **1 mark** – Acceptable presentation / document by Bidder.<br>**2 marks** – Additional 1 mark if the Bidder provides evidence(s) of having successfully followed the similar approach in its prior successful ERP implementation projects. |

Integration Approach with Owner's Engineering & PLM software and SAP-HR

| 7 | Availability of pre-configured Industry specific configuration templates in the ERP Product. | 3 | **3 marks -** Available.<br>**1 marks –** Not available. |
|---|---|---|---|

## *Proof of concept (POC)*

The Bidder shall create the Proof of Concept (POC) for 'ONE-BHEL' project to assess the product & implementation partner capabilities. The Proof of Concept needs to be executed / demonstrated by each of the qualified Bidders.

The weightage assigned to Proof of Concept (POC) is **20 marks**. **The POC document will only be shared with the Bidders who have qualified through the Pre-Qualification Criteria (ref. 5.4)**. The bidder should start working on the POC immediately after the release of POC document as per the schedule mentioned in POC document. In case of any discrepancy in FRS response and the capability shown in POC, the POC will prevail and the FRS marks would be recalculated.

## Annexure # 6 Bidder Queries

| Company Name | |
|---|---|
| Date | |

Query Details:

| S. No. | Page No | Section (Name & No. | Sub Section (Name & No.) | Statement as per tender document | Query by bidder | Reason for Query |
|---|---|---|---|---|---|---|
| 1 | | | | | | |
| 2 | | | | | | |
| 3 | | | | | | |
| 4 | | | | | | |
| 5 | | | | | | |
| 6 | | | | | | |
| 7 | | | | | | |

## *Annexure # 7 Bid Cover Sheet*

Date:
To:
Mr. <Contact Person Name>
    <Complete Address)
Dear Sir,
Ref.: Your Tender no._____

The undersigned Bidder ("the Bidder") hereby acknowledges receipt of the Request for Proposal in respect of the above tender.

We agree to abide by this bid, which consists of this letter and Attachments hereto, for a period of 180 (One hundred & eighty) days from the date fixed for opening of bids as stipulated in the bidding documents.

The Bidder hereby proposes to supply the Services as described in the Bid Documents for the prices stated in such Bid Documents upon the terms and conditions contained in the Request for Proposal.

The address of the Bidder to which any notices / references that may be issued in accordance with the Request for Proposal may be sent is:

*[Please complete all details in the space provided]*

| | |
|---|---|
| **Company Name:** | |
| **Contact Name:** | |
| **Position:** | |
| **Address:** | |
| **Mobile:** | |
| **Telephone:** | |
| **Fax Number:** | |
| **Email Address:** | |

Name and Designation of Signatory:

Name of Company:

Address:

**Note:** *This form has to be signed by authorized signatory.*

# Annexure # 8 Bank Guarantee (BG) Format

**(*To be executed on Non-Judicial Stamp Paper of appropriate value*)**

............................................................................................... (*Name of the Bank*)

Address ...................................................................................................................

Guarantee No. .......................................

A/c Messrs ................................................................................... (*Name of Contractor*)

Date of Expiry .......................................

Limit to liability (*currency & amount*) ..........................................................................

Contract No. .............................................................................................................

For ................................................................................................. (*Name of Facilities*)

**Subject** : **Performance Bank Guarantee**.

Date ................................. 200..

To

.....................................................

.....................................................

.....................................................

[*Name and Address of Employer*]

Dear Sir,

We refer to the Contract Agreement (hereinafter called the "Contract") Reference No. .................... Dated ............. between you and M/s. (*Name of the Contractor*) (hereinafter called the "Contractor"). Whereas the Contractor has undertaken to produce a Bank guarantee under the Contract including any amendment thereto, to secure its obligations to you for the performance of the Contract including the guarantees and warranty of the Facilities & the equipment supplied.

1. We .......................................... (*Name of the Bank*) do hereby expressly irrevocably and unreservedly undertake to unconditionally pay to you merely on your written demand, without referring it to the contractor and without protest and demur an amount not exceeding ................................ (*currency and amount*). Any such demand made on us shall be conclusive as regards the amount due and payable by us under this guarantee. However, our liability under this guarantee shall be restricted to an amount not exceeding ......................

2. Notwithstanding anything to the contrary we agree that your decision as to whether the Contractor has committed a breach of any terms and conditions of the contract shall be final and binding on us and we shall not be entitled to ask you to establish your claim or claims under this Guarantee but shall pay the same forthwith without any objection or excuse.

3. We undertake to pay to you any money so demanded notwithstanding any dispute or disputes raised by the Contractor(s) / Contractor(s) in any suit or proceeding pending before any court or Tribunal or arbitration relating thereto, our liability under these presents being absolute and unequivocal. The payment so made by us under this Guarantee shall be a valid discharge of our liability for payment thereunder.

4. This guarantee shall come into force from the date of issue of this guarantee and shall remain revocably valid and inforce initially upto_____ and the same shall be extended further until the expiry of the Defect Liability Period of the said Contract.

5. This guarantee shall not in any way be affected by you taking any securities from the Contractor or by the winding up, dissolution, insolvency or death as the case may be of the Contractor. We shall not be entitled to proceed against the assets of the Contractor at your site

6. In order to give full effect to the Guarantee herein contained, you shall be entitled to act as if we were your principal debtors in respect of all your claims against the Contractor, hereby guaranteed by us as aforesaid and we hereby expressly waive all our suretyship and other rights, if any, which are in any way inconsistent with the above or any other provisions of this Guarantee.

7. This guarantee is in addition to any other guarantee or guarantees given to you by us.

8. This guarantee shall not be discharged by any change in the constitution of the Contractor or us, nor shall it be affected by any change in your constitution or by any amalgamation or absorption thereof or therewith but will ensure for and be available to and effaceable by the absorbing or amalgamated company or concern.

9. Notwithstanding anything contained herein before our liability under this guarantee is restricted upto a sum ............. (**currency and amount**) and shall expire on ............. unless a claim or demand is made on us in writing within three months of the expiry date all your rights shall be forfeited and we shall stand relieved and discharged from our liabilities hereunder.

10. We have full power to sign this guarantee under the delegations of powers and notification made under general regulation and resolutions in this regard.

Yours faithfully

Dated ......... day of ............... 201_

For ...............................................

(**Name of the Bank**)

## Annexure # 9 Pre-Qualification Eligibility Form
## Annexure # 9.1 ERP Product Vendor

| Sl. No. | Parameter | Mandatory Qualification Description | Evidence required | Compliant (YES/NO) |
|---|---|---|---|---|
| 1. | Global Annual Financial Turnover | The ERP Product Vendor must meet BOTH the following criteria for at least 2 years out of the last 3 years:<br><br>1. Global Annual turnover of at least INR 2000 Crores per year.<br>2. The company should be profit making. | Audited financial statements for the last three financial years. | |
| 2. | Indian Annual Financial Turnover | The ERP Product Vendor must meet ALL criteria stated below for at least 2 years out of the last 3 years:<br><br>1. Annual turnover from Indian Business of at least INR 400 Crores per year.<br>2. Annual turnover of at least INR 80 Crores per year from ERP Business in India.<br>3. The company should be profit making. | Audited financial statements for the last three financial years.<br><br>OR<br><br>Statutory auditor's certificate for the last three financial years | |
| Experience | | | | |
| 3. | Globally Accepted ERP Product | The offered ERP product should have been implemented in 5 different countries in last 8 years. This should be 5 independent installations (for different clients) with at least 1000 licenses in each installation.<br><br>Reference date shall be 31st March 2014. | Purchase Order / Work Order / Completion certificate for each implementation<br><br>OR<br><br>Customer case studies in public domain along with self-certification of ERP product OEM from authorized signatory. (Self-certification should | |

| Sl. No. | Parameter | Mandatory Qualification Description | Evidence required | Compliant (YES/NO) |
|---|---|---|---|---|
| | | | be supported by Board resolution empowering the authorized signatory to sign on behalf of the company) OR Client certificates issued by authorized signatory/competent authority of the client and should mandatorily include: clear reference of broad scope of work undertaken by bidder, no. of licenses applicable for the implementation, modules covered in the implementation, date of implementation (completion date). | |
| 4. | Implementation in related industry globally | The offered ERP product should have been implemented for at least 3 operational global application customers in heavy equipment Engineering and Manufacturing sectors with at least 500 licenses in each installation. | Purchase Order / Work Order / Completion certificate for each implementation OR Customer case studies in public domain along with self-certification of ERP product OEM from authorized signatory. (Self-certification should be supported by Board resolution empowering the authorized signatory to sign on behalf of the company) OR Client certificates issued by authorized signatory/competent authority of the client and should mandatorily include: clear reference of broad scope of work undertaken by bidder, no. of licenses applicable for the implementation, modules covered in the implementation, date of implementation (completion date). | |

| Sl. No. | Parameter | Mandatory Qualification Description | Evidence required | Compliant (YES/NO) |
|---|---|---|---|---|
| 5. | Implementation in Engineer To Order (ETO) type of Industry in India | The offered ERP product should have been implemented for at least 1 operational application customer in ETO type of Industry in India. | Purchase Order / Work Order / Completion certificate for each implementation<br><br>OR<br><br>Customer case studies in public domain along with self-certification of ERP product OEM from authorized signatory. (Self-certification should be supported by Board resolution empowering the authorized signatory to sign on behalf of the company)<br><br>OR<br><br>Client certificates issued by authorized signatory/competent authority of the client and should mandatorily include: clear reference of broad scope of work undertaken by bidder, no. of licenses applicable for the implementation, modules covered in the implementation, date of implementation (completion date). | |
| 6. | Implementation in Engineering, Procurment & Construction (EPC) Industry in India | The offered ERP product should have been implemented for at least 1 operational application customer in EPC type of Industry in India. | Purchase Order / Work Order / Completion certificate for each implementation<br><br>OR<br><br>Customer case studies in public domain along with self-certification of ERP product OEM from authorized signatory. (Self-certification should be supported by Board resolution empowering the authorized signatory to sign on behalf of the company)<br><br>OR<br><br>Client certificates issued by authorized | |

| Sl. No. | Parameter | Mandatory Qualification Description | Evidence required | Compliant (YES/NO) |
|---|---|---|---|---|
| | | | signatory/competent authority of the client and should mandatorily include: clear reference of broad scope of work undertaken by bidder, no. of licenses applicable for the implementation, modules covered in the implementation, date of implementation (completion date). | |
| 7. | Implementation experience in India | The offered ERP Product should have at least 10 installations in India with at least 500 licenses in each installation in last 8 years. Reference date shall be 31st March 2014. | Purchase Order / Work Order / Completion certificate for each implementation OR Customer case studies in public domain along with self-certification of ERP product OEM from authorized signatory. (Self-certification should be supported by Board resolution empowering the authorized signatory to sign on behalf of the company) OR Client certificates issued by authorized signatory/competent authority of the client and should mandatorily include: clear reference of broad scope of work undertaken by bidder, no. of licenses applicable for the implementation, modules covered in the implementation, date of implementation (completion date). | |
| 8. | Experience in Indian PSU | The offered ERP product should have been implemented for at least 1 Indian Public sector customer / Government department with licenses greater than 500 each in a single implementation. | Purchase Order / Work Order / Completion certificate for each implementation OR Customer case studies in public domain along with self-certification of ERP product OEM from | |

| Sl. No. | Parameter | Mandatory Qualification Description | Evidence required | Compliant (YES/NO) |
|---|---|---|---|---|
| | | | authorized signatory. (Self-certification should be supported by Board resolution empowering the authorized signatory to sign on behalf of the company)<br><br>OR<br><br>Client certificates issued by authorized signatory/competent authority of the client and should mandatorily include: clear reference of broad scope of work undertaken by bidder, no. of licenses applicable for the implementation, modules covered in the implementation, date of implementation (completion date). | |
| Technical | | | | |
| 9. | India specific Tax Compliance | The offered ERP product must incorporate the Indian taxation requirements and is also capable of incorporating future changes therein | Provide self-certificate from authorized signatory stating how the product will incorporate future changes, as & when applicable. Self-certification should be supported by Board resolution empowering the authorized signatory to sign on behalf of the company | |
| 10 | Integration Capability | The offered ERP product should be capable of integrating inter-alia with the following -<br><br>• Auto CAD<br>• SAP-HCM<br>• Market standard Engineering automation & Product Life Cycle management software. | 1. Compliance certificate by authorized signatory certifying that the vendor shall comply with BHEL requirement.<br>2. Provide the list of Customers where Offered ERP product is integrated with SAP-HCM.<br>3. Provide the list of PLM software which can be integrated with the Offered ERP product. | 4. |

| Sl. No. | Parameter | Mandatory Qualification Description | Evidence required | Compliant (YES/NO) |
|---|---|---|---|---|
| Others | | | | |
| 11 | Registration In India | The company should have registered office in India | Registration certificate | |
| 12 | Research & Development Centre in India | The company should have at least one Research & Development Centre for offered ERP product in India from last 3 years as on 31st March 2014 and with minimum 500 employees. | Provide self-certificate containing the address of the Research & Development Centre | |
| 13 | Product Partners | The offered ERP Product Vendor should have at least 5 certified implementation partners in India. | Provide self-certificate along with Implementation Partner names | |
| 14 | Training Centres | The company should have its own training center in India with the center having the capacity of imparting training 3-4 batches at a single center in parallel with not more than 15-20 participants per batch. | Provide self-certificate with location and address. | |
| 15 | Client Satisfaction | The offered ERP Product Vendor should not have been black listed by PSU and/or Govt. of India. | Provide undertaking from company's authorized signatory | |

**Note**:

1) Technical upgrades and rollouts would not be considered.
2) All self-certificates must be signed by the Authorized signatory, unless specified otherwise.
3) The Self-service licenses will not be considered.
4) Definition in Section 2 to be referred for words used in table(s) above.

## *Annexure # 9.2 Implementation Partner*

| Sl. No. | Parameter | Mandatory Qualification Description | Evidence required | Compliant (YES/NO) |
|---|---|---|---|---|
| Financial | | | | |
| 1. | Global Annual Financial Turnover | The Implementation Partner must meet ALL criteria stated below for at least 2 years out of the last 3 years:<br><br>1. Global Annual turnover of more than INR 2000 Crores per year.<br>2. Global Annual turnover of at least INR 400 Crores per year from offered ERP product Implementation Business<br>3. The Company should be profit making. | Audited financial statements for the last three financial years.<br><br>OR<br><br>Statutory auditor's certificate for the last three financial years. | |
| Note:- ERP Product Implementation Business is defined as implementation, roll-out, support & functional upgrade work conducted by the bidder including ERP license costs and related Hardware costs, if these are attributable to the turnover of the company. | | | | |
| 2 | Indian Annual Financial Turnover | The Implementation Partner must meet ALL criteria stated below for at least 2 years out of the last 3 years:<br><br>1. Annual turnover from Indian Operations of more than INR 500 Crores per year.<br>2. Annual turnover of at least INR 100 Crores per year from ERP product Implementation Business.<br>3. The company should be profit making at least for 2 years out of the last 3 years. | Audited financial statements for the last three financial years.<br><br>OR<br><br>Statutory auditor's certificate for the last three financial years. | |

| Sl. No. | Parameter | Mandatory Qualification Description | Evidence required | Compliant (YES/NO) |
|---|---|---|---|---|
| Note : -ERP Product Implementation Business is defined as implementation, roll-out, support & functional upgrade work conducted by the bidder including ERP license costs and related Hardware costs, if these are attributable to the turnover of the company. | | | | |
| Experience | | | | |
| 3 | Global Implementation Experience | The Implementation Partner must have implemented offered ERP product for at least (1) one implementation having minimum 3000 licenses. OR<br><br>The Implementation Partner must have implemented offered ERP product for at least (2) two implementations having minimum 1500 licenses each.<br><br>OR<br><br>The Implementation Partner must have implemented offered ERP product for at least (3) three implementations having minimum 1000 licenses each. | Completion certificate from the Customer for each complete implementation, mandatorily including: clear reference of broad scope of work undertaken by bidder & date of implementation (completion date).<br><br>**AND**<br><br>**(A)** Satisfactory performance certificate from the customer's authorized signatory certifying that the implementation is functioning satisfactorily.<br><br>**OR**<br><br>**(B)** In the event that the requirement under sl. no. **(A)** above is not available, then correspondence from the customer stating that such certification cannot be given due to administrative / other reasons together with: **(i)** Self certification from authorized signatory certifying satisfactory performance **(ii)** access to the Owner/ PwC (within 7 days of request from the Owner/ PwC) for validation from the | |

| Sl. No. | Parameter | Mandatory Qualification Description | Evidence required | Compliant (YES/NO) |
|---------|-----------|-----------------------------------|-------------------|--------------------|
| | | | customer's authorized signatory (including valid contact details) so as to enable the Owner to verify such information as required above.<br><br>*Annexure # 15 Citations duly filled in with the required details.* | |
| 4 | Implementation of ERP Functions | The Implementation Partner must have implemented each of the following function in not more than three (3) implementations considered together for the offered ERP product :<br><br>Sales, Marketing & Dispatch, Project Management, Material Management, Production Management, Financial Management & costing, Engineering, Quality& Plant Maintenance. | Completion certificate from the Customer for each complete implementation, mandatorily including: clear reference of broad scope of work undertaken by bidder & date of implementation (completion date).<br><br>**AND**<br><br>**(A)** Satisfactory performance certificate from the customer's authorized signatory certifying that the implementation is functioning satisfactorily.<br><br>**OR**<br><br>**(B)** In the event that the requirement under sl. no. **(A)** above is not available, then correspondence from the customer stating that such certification cannot be given due to administrative / other reasons together with: **(i)** Self certification from authorized signatory certifying satisfactory performance **(ii)** access to the Owner/ | |

| Sl. No. | Parameter | Mandatory Qualification Description | Evidence required | Compliant (YES/NO) |
|---|---|---|---|---|
| | | | PwC (within 7 days of request from the Owner/ PwC) for validation from the customer's authorized signatory (including valid contact details) so as to enable the Owner to verify such information as required above. *Annexure # 15 Citations duly filled in with the required details.* | |
| 5 | Implementation in Engineering & Manufacturing industry | The Implementation Partner must have implemented offered ERP product in at least 1 company in Engineering & Manufacturing sector with atleast 500 licenses. | Completion certificate from the Customer for each complete implementation, mandatorily including: clear reference of broad scope of work undertaken by bidder & date of implementation (completion date). **AND** **(A)** Satisfactory performance certificate from the customer's authorized signatory certifying that the implementation is functioning satisfactorily. **OR** **(B)** In the event that the requirement under sl. no. **(A)** above is not available, then correspondence from the customer stating that such certification cannot be given due to administrative / other reasons together with: **(i)** Self certification from | |

| Sl. No. | Parameter | Mandatory Qualification Description | Evidence required | Compliant (YES/NO) |
|---|---|---|---|---|
| | | | authorized signatory certifying satisfactory performance **(ii)** access to the Owner/ PwC (within 7 days of request from the Owner/ PwC) for validation from the customer's authorized signatory (including valid contact details) so as to enable the Owner to verify such information as required above. *Annexure # 15 Citations duly filled in with the required details.* | |
| 6 | Implementation in Engineering, Procurement, Installation & commissioning Sector | The Implementation Partner must have implemented the offered ERP product in at least 1 company in Engineering, Procurement, Installation & commissioning Sector with atleast 500 license in each installation. | Completion certificate from the Customer for each complete implementation, mandatorily including: clear reference of broad scope of work undertaken by bidder & date of implementation (completion date). **AND** **(A)** Satisfactory performance certificate from the customer's authorized signatory certifying that the implementation is functioning satisfactorily. **OR** **(B)** In the event that the requirement under sl. no. **(A)** above is not available, then correspondence from the customer stating that such certification cannot be | |

| Sl. No. | Parameter | Mandatory Qualification Description | Evidence required | Compliant (YES/NO) |
|---------|-----------|-----------------------------------|-------------------|--------------------|
| | | | given due to administrative / other reasons together with: **(i)** Self certification from authorized signatory certifying satisfactory performance **(ii)** access to the Owner/ PwC (within 7 days of request from the Owner/ PwC) for validation from the customer's authorized signatory (including valid contact details) so as to enable the Owner to verify such information as required above.<br><br>*Annexure # 15 Citations duly filled in with the required details.* | |
| 7 | Current implementation experience | The Implementation Partner must have implemented offered ERP product for at least 5 (Five) Customers in last 8 years with at least 500 licenses in each implementation.<br><br>Reference date shall be 31st March 2014. | Completion certificate from the Customer for each complete implementation, mandatorily including: clear reference of broad scope of work undertaken by bidder & date of implementation (completion date).<br><br>**AND**<br><br>**(A)** Satisfactory performance certificate from the customer's authorized signatory certifying that the implementation is functioning satisfactorily.<br><br>**OR**<br><br>**(B)** In the event that the requirement under sl. no. **(A)** above is not available, | |

| Sl. No. | Parameter | Mandatory Qualification Description | Evidence required | Compliant (YES/NO) |
|---------|-----------|-----------------------------------|-------------------|--------------------|
| | | | then correspondence from the customer stating that such certification cannot be given due to administrative / other reasons together with: **(i)** Self certification from authorized signatory certifying satisfactory performance **(ii)** access to the Owner/ PwC (within 7 days of request from the Owner/ PwC) for validation from the customer's authorized signatory (including valid contact details) so as to enable the Owner to verify such information as required above. *Annexure # 15 Citations duly filled in with the required details.* | |
| 8 | Indian Government / Indian PSU experience | The Implementation Partner in the last financial year must have revenue of more than INR 50 Crores from software business with the Indian Government / Indian PSU. | Audited financial statement for the last financial year. OR Statutory auditor's certificate for the last financial year. | |
| 9 | Large implementation Experience | The Implementation Partner must have executed at least 1 offered ERP product implementation project in India with at least 1000 licenses. | Completion certificate from the Customer for each complete implementation, mandatorily including: clear reference of broad scope of work undertaken by bidder & date of implementation (completion date). | |

| Sl. No. | Parameter | Mandatory Qualification Description | Evidence required | Compliant (YES/NO) |
|---|---|---|---|---|
| | | | **AND** | |
| | | | **(A)** Satisfactory performance certificate from the customer's authorized signatory certifying that the implementation is functioning satisfactorily. | |
| | | | **OR** | |
| | | | **(B)** In the event that the requirement under sl. no. **(A)** above is not available, then correspondence from the customer stating that such certification cannot be given due to administrative / other reasons together with: **(i)** Self certification from authorized signatory certifying satisfactory performance **(ii)** access to the Owner/ PwC (within 7 days of request from the Owner/ PwC) for validation from the customer's authorized signatory (including valid contact details) so as to enable the Owner to verify such information as required above. | |
| | | | *Annexure # 15 Citations duly filled in with the required details.* | |
| 10 | Multi location Implementation Experience | The Implementation Partner must have implemented offered ERP product in at least 1 company with multiple locations (minimum 5 locations). | Completion certificate from the Customer for each complete implementation, mandatorily including: clear reference of broad scope of work undertaken by bidder | |

| Sl. No. | Parameter | Mandatory Qualification Description | Evidence required | Compliant (YES/NO) |
|---|---|---|---|---|
| | | | & date of implementation (completion date).<br><br>**AND**<br><br>**(A)** Satisfactory performance certificate from the customer's authorized signatory certifying that the implementation is functioning satisfactorily.<br><br>**OR**<br><br>**(B)** In the event that the requirement under sl. no. **(A)** above is not available, then correspondence from the customer stating that such certification cannot be given due to administrative / other reasons together with: **(i)** Self certification from authorized signatory certifying satisfactory performance **(ii)** access to the Owner/ PwC (within 7 days of request from the Owner/ PwC) for validation from the customer's authorized signatory (including valid contact details) so as to enable the Owner to verify such information as required above.<br><br>*Annexure # 15 Citations duly filled in with the required details.* | |
| 11 | Project Value | The Implementation Partner must have implemented offered ERP product during | Audited financial statement for the last financial year | |

| Sl. No. | Parameter | Mandatory Qualification Description | Evidence required | Compliant (YES/NO) |
|---|---|---|---|---|
| | | the last 8 years worth: | OR | |
| | | At least 3 jobs with each worth over INR 25 Crores | Statutory auditor's certificate for the last financial year | |
| | | Or | | |
| | | At least 2 jobs with each worth INR 30 Crores | | |
| | | Or | | |
| | | At least 1 job worth INR 60 Crores | | |
| | | Reference date shall be 31st March 2014. | | |
| Others | | | | |
| 12 | Quality Certifications | The Implementation Partner must have following valid certificates:<br>• Level 5 SEI CMMi OR ISO 9001:2008 certification<br>• ISO 27001/27002 certification / IB clearance | Provide copy of certificate. | |
| 13 | Support Centre/ Centre of Excellence | The Implementation Partner must have a 24x7 support center / Centre of Excellence for offered ERP product in India functional with effect from 3 (three) years as on 31st March 2014 and with a minimum of 200 | Provide self-certificate from company's authorized signatory containing the address of the Support Centre. | |

| Sl. No. | Parameter | Mandatory Qualification Description | Evidence required | Compliant (YES/NO) |
|---|---|---|---|---|
| | | employees. | | |
| 14 | Trained consultants | The Implementation Partner must have at least 300 full time consultants of the offered ERP product on its current payroll in India with experience on implementation of all the major modules out of which at least 50 consultants must be certified on by offered ERP product. | Provide self-certificate from company's authorized signatory. | |
| 15 | Product partnership | The Implementation Partner must have an active existing implementation partnership with the offered ERP product. | Recognition status should be verifiable through information available in public domain on offered ERP Product OEM website. | |
| 16 | Client Satisfaction | The Bidder Company should not have been black listed by a Public Sector Undertaking, and/or any instrumentality of the Government of India. | Provide undertaking from company's authorized signatory. | |

*Note*:

1) *Technical upgrades and rollouts would not be considered.*
2) *All self-certificates must be signed by the Authorized signatory, unless specified otherwise.*
3) *The Self-service licenses will not be considered.*
4) *Definition in Section 2 to be referred for words used in table(s) above.*

# Annexure # 10 Techno-commercial Bid Covering Letter

Date:

To:

Mr. <Contact Person Name>

    <Complete Address)

Dear Sir,

Ref.: Your Tender no._____

Having examined the RFP, the receipt of which is hereby duly acknowledged, we, the undersigned, offer to provide the professional services as required and outlined in the RFP for the 'ONE BHEL' project of the Bharat Heavy Electricals Limited. To meet such requirements and provide such services as required are set out in the RFP:

We attach hereto the technical response as required by the RFP, which constitutes our proposal.

We further undertake, if invited to do so by you, and at our own cost, to attend a clarification meeting at a place of your choice, for the purpose of reviewing our Bid and duly noting all amendments and additions thereto, and noting omissions there from that you may require.

We undertake that, if our proposal is accepted, to adhere to the implementation plan or such adjusted plan as may subsequently be approved by you.

If our bid is accepted, we undertake to provide a Security Deposit & Contract Performance Bond in the form, in the amount, and within the time specified in the bidding documents.

Until a formal Contract is prepared and executed between us, this bid, together with your written acceptance thereof and your notification of award shall constitute a binding Contract between us.

We confirm that the information contained in this proposal or any part thereof, including its exhibits, schedules, and other documents and instruments delivered or to be delivered to the BHEL is true, accurate, and complete. This proposal includes all information necessary to ensure that the statements therein do not in whole or in part mislead the BHEL as to any material fact.

We understand that you are not bound to accept the lowest or any bid you may receive and in-turn we will not have any rights to raise any claim, whatsoever it may be, due to or arising out of rejection of our bids.


Date:

Name and Designation of Signatory:

Name of Company:

Address:

*Note: This form has to be signed by authorized signatory.*

## *Annexure #11 No Deviation Certificate*

This is to certify that our offer is exactly in line with your tender enquiry/RFP (including annexures & amendments) no. _____ dated _____. This is to expressly certify that our offer contains no deviation whatsoever either in direct or indirect form.

Date:

Name and Designation of Signatory:

Name of Company:

Address:

*Note: This form has to be signed by authorized signatory.*

## Annexure #12 Schedule of Delivery

The entire project is expected to be completed within 36 months from the start date of the project. The bidder is expected to furnish their milestone dates in details as below in-line with owner's implementation plan as mentioned in section 3.3.

***\*\* All activities as mentioned in section 3.3 needs to be covered.***

| Activity No. | Activity Description | Scheduled date of delivery / completion | Scheduled date of acceptance |
|---|---|---|---|
|  |  |  |  |
|  |  |  |  |
|  |  |  |  |
|  |  |  |  |
|  |  |  |  |

Name and Designation of Signatory:

Name of Company:

Address:

*Note: This form has to be signed by authorized signatory.*

## Annexure #13 Resource Deployment Plan

## Annexure #13.1 Resource Deployment Plan (ERP Product OEM)

The Bidder needs to fill the below Resource Deployment Plan (From ERP Product OEM) which it plans to deploy during the entire project.

These resources are minimum resource compliance requirement & those which are over and above the minimum resource compliance requirement as specified by Owner in <mark>Section 7.6</mark> of this RFP document.

| Project Phase | Manager | | | Leads | | | Consultants | | | Total |
|---|---|---|---|---|---|---|---|---|---|---|
| | No. of Days (a) | No. of Resources (b) | Total days A=(a*b) | No. of Days (a) | No. of Resources (b) | Total days B=(a*b) | No. of Days (a) | No. of Resources (b) | Total days C=(a*b) | A+B+C |
| Planning | | | | | | | | | | |
| Project Preparation | | | | | | | | | | |
| Business Blueprint | | | | | | | | | | |
| Realization | | | | | | | | | | |
| Phase-I locations Final Preparation, Go-Live, Implementation Support and Sustenance | | | | | | | | | | |

| Project Phase | Manager | | | Leads | | | Consultants | | | Total |
|---|---|---|---|---|---|---|---|---|---|---|
| | No. of Days (a) | No. of Resources (b) | Total days A=(a*b) | No. of Days (a) | No. of Resources (b) | Total days B=(a*b) | No. of Days (a) | No. of Resources (b) | Total days C=(a*b) | A+B+C |
| Support | | | | | | | | | | |
| Phase-II locations Final Preparation, Go-Live, Implementation Support and Sustenance Support | | | | | | | | | | |
| Phase-III locations Final Preparation, Go-Live, Implementation Support and Sustenance Support | | | | | | | | | | |
| Business Intelligence & Dashboards – Corporate MIRs | | | | | | | | | | |
| Support Services | | | | | | | | | | |

## Annexure #13.2 Resource Deployment Plan (Implementation Partner Bidder)

The Bidder needs to fill the below Resource Deployment Plan (From Implementation Partner Bidder) which it plans to deploy during the entire project.

These resources are minimum resource compliance requirement & those which are over and above the minimum resource compliance requirement as specified by Owner in <mark>Section 8.2</mark> of this RFP document.

| Project Phase | Manager | | | Leads | | | Consultants | | | Total |
|---|---|---|---|---|---|---|---|---|---|---|
| | No. of Days (a) | No. of Resources (b) | Total days A=(a*b) | No. of Days (a) | No. of Resources (b) | Total days B=(a*b) | No. of Days (a) | No. of Resources (b) | Total days C=(a*b) | A+B+C |
| Planning | | | | | | | | | | |
| Project Preparation | | | | | | | | | | |
| Business Blueprint | | | | | | | | | | |
| Realization | | | | | | | | | | |
| Phase-I locations Final Preparation, Go-Live, Implementation Support and Sustenance Support | | | | | | | | | | |
| Phase-II locations | | | | | | | | | | |

| Project Phase | Manager | | | Leads | | | Consultants | | | Total |
|---|---|---|---|---|---|---|---|---|---|---|
| | No. of Days (a) | No. of Resources (b) | Total days A=(a*b) | No. of Days (a) | No. of Resources (b) | Total days B=(a*b) | No. of Days (a) | No. of Resources (b) | Total days C=(a*b) | A+B+C |
| Final Preparation, Go-Live, Implementation Support and Sustenance Support | | | | | | | | | | |
| Phase-III locations Final Preparation, Go-Live, Implementation Support and Sustenance Support | | | | | | | | | | |
| Business Intelligence & Dashboards – Corporate MIRs | | | | | | | | | | |
| Support Services | | | | | | | | | | |

## Annexure #14 Team Profiles – CVs

| S. No | Item | Details | | |
|---|---|---|---|---|
| 1. | Name | | | |
| 2. | Specify role to be played in the project | | | |
| 3. | Current job title | | | |
| 4. | Under minimum resource compliance requirement (YES / NO) | | | |
| 5. | Experience in yrs. (Provide details regarding name of organizations worked for, Designation, responsibilities, tenure etc.) | | | |
| 6. | Name of Organization | From | To | Designation/ Responsibilities |
| | | | | |
| | | | | |
| 7. | Number of years with the Current Organization | | | |
| 8. | Current job responsibilities | | | |
| 9. | Skill sets | | | |
| 10. | Educational Background, Training / Certification including institutions, % of marks, specialization areas etc. | | | |
| | Degree (including subjects) / Training / Certifications | Year of Award of Degree | University | % of marks |
| | | | | |

**Certification:** I, the undersigned, certify that to the best of my knowledge and belief, these data correctly describe me, my qualifications, and my experience.

Day/Month/Year:

[Name and Signature of staff member]

## Annexure #15 Citations

| S. No | Item | Details |
|---|---|---|
| **A. General Information** | | |
| 1 | Customer Name | |
| 2 | Details of Contact Person<br><br>Name:<br>Designation:<br>Email:<br>Phone:<br>Fax:<br>Mailing Address: | |
| **B. Project Details** | | |
| 3 | Name of the project | |
| 4 | Government/Non-Government / PSU | |
| 5 | Start Date & End Date | |
| 6 | Current Status (work in progress, completed) | |
| 7 | Contract Tenure | |
| 8 | Geographical Coverage (No. of locations the project covers) | |
| 9 | Effort involved in person-months in each phase with average/peak number of resources deployed in each phase | |
| **C. Size of the project** | | |
| 10 | Order Value of the project (in lakhs) | |
| 11 | Capital Expenditure involved (in lakhs) | |
| 12 | Total cost of the services provided (by the Bidder in lakhs) | |
| 13 | Total Cost of services (provided by the Partners in lakhs) | |

| 14 | Please provide Customer certificate for the executed scope | |
|---|---|---|

**D. Brief description of scope of project**

| Highlight the Key Result Areas expected and achieved |
|---|
| List of modules and sub-modules implemented |
| Narrative description of Project including technology deployed: |
| Description of actual services provided by your staff within the assignment: |

### Annexure #16 Total Price

| Sl.No. | Price Bid Line Item | Base price in INR | VAT % | VAT Amount | CST % | CST Amount | Service Tax % | Service Tax Amount | Other Taxes % | Other Taxes Amount | Total Price (In INR) | Total Amount in words | Remarks |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | License & Annual Technical Support Price (Annexure #17.1 OR 17.2) | | | | | | | | | | | | |
| 2 | Implementation Price (Annexure #20) | | | | | | | | | | | | |
| 3^ | Man-power Price for Implementation Partner (Annexure # 18.1) | | | | | | | | | | | | |
| 4^ | Man-power Price for Solution Expert Consulting Services (Annexure # 18.2) | | | | | | | | | | | | |
| 5^ | Certification Training Price (Annexure #19) | | | | | | | | | | | | |
| 6 | Post Go-Live Support Price (Annexure #29) | | | | | | | | | | | | |
| | **TOTAL PRICE (X)** | | | | | | | | | | | | |
| 7.A | Minimum guaranteed CENVAT credit on account of Service Tax | | | | | | | | | | | | |
| 7.B | Input Tax credit on account of VAT | | | | | | | | | | | | |
| | **TOTAL   Y (7.A + 7.B)** | | | | | | | | | | | | |
| | **TOTAL QUOTED PRICE (X - Y)** | | | | | | | | | | | | |

** *Any existing tax/duty not mentioned here will not be entertained at a later date*

** *All import related duties shall be borne by the Bidder*

** *All expenses related to travelling, lodging, boarding and other expenses have to be borne by the Bidder.*

** *The Bidder's resources can be located at any of the Owner's location during the execution of the Project.*

** *CST against C Form to be indicated. In case AP VAT is applicable, same shall be indicated.*

| | A | B | C | D | E | F | G | H | I |
|---|---|---|---|---|---|---|---|---|---|
| 1 | | | **Annexure #17.1 (License & ATS Cost for SAP ERP)** | | | | | | |
| 2 | SI. No. | Type of License | Parameter | Start of the Realization Phase | Actual Start of Phase-I Final Preparation Phase | Actual Start of Phase-II Final Preparation Phase | Actual Start of Phase-III Final Preparation Phase | Actual Completion of Phase-III rollouts & Sustenance Support | TOTAL |
| 3 | 1 | SAP-ERP Transaction Users | No. of Licenses (a) | 300 | 2050 | 1000 | 1525 | 1000 | 5875 |
| 4 | | | License Price per Unit in INR (b) | | | | | | |
| 5 | | | License Price in INR (a x b) | | | | | | |
| 6 | | | ATS Percentage | | | | | | |
| 7 | | | ATS Price in INR {(ATS Period in Months X ATS Percentage X License Price)/12} | | | | | | |
| 8 | | | ATS Period in Months | 42 | 36 | 28 | 20 | 12 | 138 |
| 9 | 2 | SAP-ERP Medium Users | No. of Licenses (a) | | | 1000 | 800 | 1000 | 2800 |
| 10 | | | License Price per Unit in INR (b) | | | | | | |
| 11 | | | License Price in INR (a x b) | | | | | | |
| 12 | | | ATS Percentage | | | | | | |
| 13 | | | ATS Price in INR {(ATS Period in Months X ATS Percentage X License Price)/12} | | | | | | |
| 14 | | | ATS Period in Months | | | 28 | 20 | 12 | 60 |
| 15 | 3 | Business Partners | No. of Licenses (a) | | | 5000 | 5000 | 5000 | 15000 |
| 16 | | | License Price per Unit in INR (b) | | | | | | |
| 17 | | | License Price in INR (a x b) | | | | | | |
| 18 | | | ATS Percentage | | | | | | |
| 19 | | | ATS Price in INR {(ATS Period in Months X ATS Percentage X License Price)/12} | | | | | | |
| 20 | | | ATS Period in Months | | | 28 | 20 | 12 | 60 |
| 21 | 4 | Add-on Engines ** Break-up of Add-on engines to be provided in Annexure #17.3 | Price in INR | | | | | | |
| 22 | | | ATS Percentage | | | | | | |
| 23 | | | ATS Price in INR {(ATS Period in Months X ATS Percentage X License Price)/12} | | | | | | |
| 24 | | | ATS Period in Months | | | | | | |
| 25 | 5 | 3rd party products / software ** Break-up of 3rd party products / software to be provided in Annexure #17.4 | Price in INR | | | | | | |
| 26 | | | ATS Percentage | | | | | | |
| 27 | | | ATS Price in INR {(ATS Period in Months X ATS Percentage X License Price)/12} | | | | | | |
| 28 | | | ATS Period in Months | | | | | | |
| 29 | 6 | Annual Technical Support for Owner's existing SAP Licenses (2129 nos.) | Owner's existing SAP licenses | | 975 | | 1154 | | 2129 |
| 30 | | | ATS Percentage | | | | | | |
| 31 | | | ATS Price in INR | | | | | | |
| 32 | | | ATS Period in Months | | 36 | | 20 | | 56 |
| 33 | | | **Total License Price in INR (X = I5 + I11+ I17 + I21 + I25)** | | | | | | |
| 34 | | | **Total License Price (X) in Words** | | | | | | |
| 35 | | | **Total Annual Technical Support Price in INR (Y = I7 + I13 + I19 + I23 + I27 + I31)** | | | | | | |
| 36 | | | **Total Annual Technical Support Price (Y) in Words** | | | | | | |
| 37 | | | **Total Price in INR (Z=X+Y)** | | | | | | |
| 38 | | | **Total Price in Words** | | | | | | |
| 39 | | | | | | | | | |
| 40 | | | *For ATS - Amount to be quoted as per Owner's license deployment plan and for the period starting from first license procurement to end of Post Go-Live Support phase.* | | | | | | |

| | A | B | C | D | E | F | G | H | I |
|---|---|---|---|---|---|---|---|---|---|
| 1 | | | **Annexure #17.2 (License & ATS Cost for <u>NON-SAP ERP</u>)** | | | | | | |
| 2 | **Sl. No.** | **Type of License** | **Parameter** | **Start of the Realization Phase** | **Actual Start of Phase-I Final Preparation Phase** | **Actual Start of Phase-II Final Preparation Phase** | **Actual Start of Phase-III Final Preparation Phase** | **Actual Completion of Phase-III rollouts & Sustenance Support** | **TOTAL** |
| 3 | | | No. of Licenses (a) | 300 | 3025 | 1000 | 2675 | 1000 | 8000 |
| 4 | | | License Price per Unit in INR (b) | | | | | | |
| 5 | 1 | ERP Transaction Users | License Price  in INR (a x b) | | | | | | |
| 6 | | | ATS Rate (% of License Price) | | | | | | |
| 7 | | | ATS Price in INR {(ATS Period in Months X ATS Percentage X License Price)/12} | | | | | | |
| 8 | | | ATS Period in Months | 42 | 36 | 28 | 20 | 12 | 138 |
| 9 | | | No. of Licenses (a) | | | 1000 | 800 | 1000 | 2800 |
| 10 | | | License Price per Unit  in INR (b) | | | | | | |
| 11 | 2 | ERP Medium Users | License Price  in INR (a x b) | | | | | | |
| 12 | | | ATS (% of License Price) | | | | | | |
| 13 | | | ATS Price in INR {(ATS Period in Months X ATS Percentage X License Price)/12} | | | | | | |
| 14 | | | ATS Period in Months | | | 28 | 20 | 12 | 60 |
| 15 | | | No. of Licenses (a) | | | 5000 | 5000 | 5000 | 15000 |
| 16 | | | License Price per Unit  in INR (b) | | | | | | |
| 17 | 3 | Business Partners | License Price in INR (a x b) | | | | | | |
| 18 | | | ATS (% of License Price) | | | | | | |
| 19 | | | ATS Price in INR {(ATS Period in Months X ATS Percentage X License Price)/12} | | | | | | |
| 20 | | | ATS Period in Months | | | 28 | 20 | 12 | 60 |
| 21 | | Add-on Engines | Price in INR | | | | | | |
| 22 | 4 | ** Break-up of Add-on engines to be provided in Annexure #17.3 | ATS (% of Add-on Engines License Price) | | | | | | |
| 23 | | | ATS Price in INR {(ATS Period in Months X ATS Percentage X License Price)/12} | | | | | | |
| 24 | | | ATS Period in Months | | | | | | |
| 25 | | 3rd party products / software | Price in INR | | | | | | |
| 26 | 5 | ** Break-up of 3rd party products / software to be provided in Annexure #17.4 | ATS (% of 3rd party products / software License Price) | | | | | | |
| 27 | | | ATS Price in INR {(ATS Period in Months X ATS Percentage X License Price)/12} | | | | | | |
| 28 | | | ATS Period in Months | | | | | | |
| 29 | | | **Total License Price in INR (X = I5 + I11+ I17 + I21 + I25)** | | | | | | |
| 30 | | | **Total License Price in Words** | | | | | | |
| 31 | | | **Total Annual Technical Support Price in INR (Y = I7 + I13 + I19 + I23 + I27)** | | | | | | |
| 32 | | | **Total Annual Technical Support Price in Words** | | | | | | |
| 33 | | | **Total Price in INR (Z=X+Y)** | | | | | | |
| 34 | | | **Total Price in Words** | | | | | | |
| 35 | | | | | | | | | |
| 36 | | | *For ATS - Amount to be quoted as per Owner's license deployment plan and for the period starting from first license procurement to end of Post Go-Live Support phase.* | | | | | | |

## Annexure #17.3 (BOM for 'ONE-BHEL' Solution)

The Bidder has to provide the detailed Bill of Material (BOM) for the entire 'ONE-BHEL' solution, covering list of Add-on Engines based on responses to FRS & TRS requirements of the Owner.

** The ERP product OEM shall certify the entire 'ONE-BHEL' solution BOM with explicit confirmation regarding non-availability of standard ERP functionalities wherever 3rd Party software is included in the solution (as also captured in FRS responses).

| Sl. No. | Item | License Unit | Numbers (a) | Rate Per Unit (b) | Cost (a X b) |
|---------|------|--------------|-------------|-------------------|--------------|
| 1 | <Add-on Engines -1> | | | | |
| 2 | <Add-on Engines -2> | | | | |
| 3 | <Add-on Engines -3> | | | | |
| 4 | … | | | | |

## Annexure #17.4 (BOM for 'ONE-BHEL' Solution)

The Bidder has to provide the detailed Bill of Material (BOM) for the entire 'ONE-BHEL' solution, covering list of 3rd Party software (if any) based on responses to FRS & TRS requirements of the Owner.
** The ERP product OEM shall certify the entire 'ONE-BHEL' solution BOM with explicit confirmation regarding non-availability of standard ERP functionalities wherever 3rd Party software is included in the solution (as also captured in FRS responses).

| Sl. No. | Item | License Unit | Numbers (a) | Rate Per Unit (b) | Cost (a X b) |
|---|---|---|---|---|---|
| 1 | <3rd Party Software -1> | | | | |
| 2 | <3rd Party Software -2> | | | | |
| 3 | <3rd Party Software -3> | | | | |
| 4 | … | | | | |

## Annexure #18 Manpower Price

The Owner wants the Bidder to provide the price of additional man-power which owner may use and pay on actuals Owner certified days. Such unit rates shall remain valid & firm till the end of Contract period.

## Annexure #18.1 Manpower Price for Implementation partner

| S. No. | Component | Person-days (A) | Rate per day per person or man day Rate in INR (B) | Base Price in INR (A)x(B) | Total amount in words |
|---|---|---|---|---|---|
| 1 | Functional Resource | 400 | | | |
| 2 | Technical Resource | 100 | | | |
| TOTAL | | | | | |

## Annexure #18.2 Manpower Price for Solution Expert Consulting by ERP Product OEM

| S. No. | Component | Person-days (A) | Rate per day per person or man day Rate in INR (B) | Base Price in INR (A)x(B) | Total amount in words |
|---|---|---|---|---|---|
| 1 | Functional Expert Resource | 400 | | | |
| 2 | Technical Expert Resource | 100 | | | |
| TOTAL | | | | | |

## Annexure #19 Certification Training Price

| No of participant considered for training (A) | Training Rate per participant in INR (B) | Training Price in INR (A)x(B) = D | Certification Rate in INR (per Participant) (C) | Certification Price in INR (A)x(C) = E | Total amount in INR in words (D+E) |
|---|---|---|---|---|---|
| 150 | | | | | |

Notes:

- Training duration shall be 15 days or as per ERP Product OEM training curriculum, whichever is more.
- The certification training includes the certification training Price and one time examination Price which will be paid on actuals
- Payment for training as per the requirement above of any additional number of participants will be on actuals.
- Maximum size of the batch should not exceed 25 participants
- The Bidder shall plan for concurrent training sessions at multiple location

## Annexure #20 Implementation Price

| S. No. | Price Components | Price in INR | Total amount in words |
|--------|------------------|--------------|-----------------------|
| 1 | 'ONE-BHEL' ERP Solution Implementation Price, includes:<br>• Implementation Price<br>• Customizations<br>• Custom developments<br>• Implementing 3rd Party Solutions<br>• Testing (Unit, integration, Performance)<br>• ERP Product OEM reviews<br>• 'ONE-BHEL' Project related Trainings (end users, power users etc. but excluding owner's central core team certification training.<br>• Go-Live<br>• Implementation Support & Sustenance Support<br>• All Resource deployment Prices (ERP Product OEM and Implementation Partner)<br>• Integration with Engineering software like AutoCAD<br>• Integration with SAP-HCM<br>• Any other associated prices related to deliveries & scope of works as mentioned in sections 7, 8 & 9 and not mentioned as a separate price format to be filled by the Bidder.<br><br>***Note:** The implementation Price should include the Price required to maintain minimum resource compliance requirement from Implementation partner (as specified in* **Section 8.2.2 Minimum Resource Deployment**) *and ERP Product OEM (as specified in* **Section 7.6.2 Minimum Resource Deployment**) | | |

# *Annexure #21 Non-Disclosure Agreement*

## Confidentiality Agreement

This **CONFIDENTIALITY AGREEMENT ("Agreement",** which expression shall unless it be repugnant to the subject or context thereof, include all schedules and amendments thereof made from time to time) is made on the date set out in Schedule   ) hereof (the " **Effective Date**") between the person (s) named in Schedule   hereof (the " **Receiving Party**") of the One Part.

### And

**BHEL LIMITED**, a company incorporated under the companies Act, 1956 and a banking company within the meaning of the banking Regulation Act. 1949 and having its registered office at / its corporate office at BHEL Towers, ------------------------- and the Zonal branch/branch office at_____ ("**BHEL**", which expression shall, unless it be repugnant to the subject or context thereof, include its successors and assigns) of the Other Parts.

The Receiving Party and BHEL are hereinafter collectively referred to as "Parties and individually as a "Party",

**PREAMBLE:**

(i)     BHEL is considering a project involving --------- (Insert Company Name & brief description of Project), the   Receiving Party (" the Project" ), as more particularly specified in detail in Schedule 2 of this agreement for which BHEL will divulge certain information to the Receiving Party which at  present is confidential and not in the public domain.

(ii)    BHEL intends that the aforesaid information be kept confidential as between the Receiving Party and BHEL and the Receiving Party undertakes and declares that it shall not divulge, publish or reproduce the same before and person except in accordance with the terms of this Agreement.

THEREFORE, IN COSIDERATION OF BHEL making available such confidential information as aforesaid to the Receiving Party, the Parties agree as follow

(1) For the purpose of this Agreement, "AFFILIATE" of BHEL shall mean and include:

(a) Any company which is holding company or subsidiary of BHEL, or
(b) A person under the control of or under common control with BHEL, or
(c) Any person, in more than 26% of the voting securities of which BHEL has a direct or beneficial interest.
For the purpose of this Affiliate and Agreement, "control" together with grammatical variations when used with respect to any Person, means the power to direct the management and policies of such Person, directly or indirectly, Whether through the owner ship of the vote carrying Securities, by contract or

otherwise however; and "Person" means the company, corporation, a partnership, trust or any other entity or organization or other body Whatsoever.

(2) The Receiving Party hereby agrees that all the confidential, proprietary or trade secret information relating to BHEL including without limitation, information regarding the business operations, financial information, customer information and marketing strategies of BHEL and any notes, compilations, studies, interpretations, presentations, correspondence or other writing made available to the receiving Party by BHEL whether in physical or electronic form, whether after the effective date or prior to the execution of this agreement, and in specifically marked " **CONFIDENTIAL"**, INCLUDING any verbal indication that has been documented in writing and marked as "**Confidential Information**". The receiving Party agrees that all the confidential Information shall be treated as absolute secret and the receiving Party shall not disclose to any person such information otherwise than in accordance with the terms of this Agreement. The Receiving Party will impose a similar duty of confidentially on any person to whom the Receiving Party is permitted to transfer such information in accordance with the terms hereof.

(3) The receiving Party shall not, without the prior written consent of BHEL, display or disclose all or any part of the confidential Information, in any manner or circumstances whatsoever, to any person or any third party and all Confidential Information contained herein shall be used by the receiving Party, directly or indirectly solely for the purpose of considering, evaluating and effecting the Project. The receiving Party shall not use the Confidential Information in any way detrimental to BHEL.

(4) The receiving Party hereby represents that any employee or any official of the Receiving Party who will be given access to the Confidential Information on behalf of the Receiving Party has executed/ shall execute appropriate non-disclosure contracts with the receiving Party for adequate protection of the confidential information belonging to BHEL and/or its Affiliates against disclosure or exploitation. The receiving Party shall forthwith make available a copy of such contracts as and when required BHEL.

(5) The receiving party shall maintain a record of entities/persons to which the Confidential Information has been disclosed. This record shall be promptly made available to BHEL upon request.

(6) Without limiting the above, the Receiving Party further undertakes:
   (i) Not to disclose that the confidential Information is or has been or will be made available or that evaluation of the Confidential Information is being or has been or will be made.
   (ii) Not to make copies of, or reproduce or display in any form and by any process, all or any of the Confidential Information, except in the form of notes or memoranda, whether in physical or electronic form, made by Receiving Party employees/ officials during their evaluation of the Confidential Information;
   (iii) To limit the access to the Confidential Information solely to those of its directors, officials or employees who have reason to require access only on a "**need to know**" basis;
   (iv) To ensure that each of such director, official or employee referred to in Clause 6 (iii) hereinabove, to whom the Confidential Information is disclosed, observes strictly, the restrictions as to use and disclosure contained herein;
   (v) To return all Confidential Information to BHEL forthwith and within a period of 10 days upon request by BHEL or upon the Receiving Party or BHEL

deciding not to proceed with the Project. Should BHEL permit the destruction of such Confidential Information, the Receiving Party shall destroy the Confidential Information, within the period as may be specified by BHEL and shall provide BHEL with written notice that such destruction has been carried out.

(vi)     To use the Confidential Information solely for the purpose of considering, evaluating and effecting the Project as specified in Schedule 2 hereto and to take all steps necessary to protect the secrecy of the Confidential Information from falling into the public domain or into the possession of unauthorized persons.

(vii)    To keep confidential the fact of existence of discussions between the Receiving Party and BHEL concerning the Project, unless otherwise required by law and not make any private or public announcement or statement concerning or relating to the Project.

7. The restriction on use and disclosure set out above shall not apply to any Confidential Information which at the date of its disclosure to the Receiving Party is public knowledge or which subsequently becomes public knowledge other than by way of a breach of the terms of this Confidentiality Agreement; Or was available to the Receiving Party prior to its disclosure to the Receiving Party by BHEL under the terms of this Agreement; Party by BHEL under the terms of the Agreement: or is required to be disclosed by way of a legal process regulation or Government order, decree, regulation or rule; Provided herein after that for the purposes of the above section, such circumstances as defined above shall be tangibly proved to the satisfaction of BHEL in order to qualify as an exception under this category.

8. The Receiving Party agrees that all Confidential Information shall remain the property of BHEL or its Affiliates and that BHEL may use such confidential information for many purposes without any obligation to the Receiving Party. Nothing contain herein shall be construed as granting or implying any transfer to rights (including license rights ) to the Receiving Party in the Confidential Information.

9. The Receiving Party agrees and understands that by the furnishing or making available of the confidential information, neither BHEL nor any of its agents are making any representation or warranty express or implied as to the accuracy or completeness of the confidential information. BHEL shall not be liable to the Receiving Party or any other person to use of the confidential information.

10. The Receiving Party shall immediately notify BHEL of any known or suspected breaches of this Agreement and shall give BHEL full corporation in any search or security.

11. If either party decodes that it does not wish to proceed with the Project, such party will promptly advice the other party shall forthwith return all confidential information to BHEL and shall not retain any copies of the same, in any form whatever. The receiving Party shall further certify compliance with this clause to BHEL forthwith in writing.

12. The Receiving Party hereby agrees to forth indemnify and hold harmless BHEL and its Affiliates from and against any claim and loss or damages, liability (including the legal fees) arising out of or in connection with any unauthorized or any other breach of

the terms and conditioning contained in this Agreement. This clause shall survive the termination or expiration of this Agreement.

13. The Receiving Party acknowledges that any breach of the terms and conditions of this agreement may cause BHEL irreparable damages for which recovery of money damages would be inadequate. Therefore, the Receiving Party agrees that BHEL or its nominee (in BHEL's sole discretion) shall be entitled, in addition to any other remedies available to it, to seek injunctive relief and/or from its employees/officials, or otherwise to protect its rights, under this Agreement.

14. in the event the Receiving Party is required to disclose Confidential Information upon an action, subpoena or order of a court of competent jurisdiction or of any requirement of legal process regulation or governmental order, decree, regulation or rule, the Receiving Party will immediately notify BHEL of its having received a request to so disclose (alongwith the terms and circumstances thereof), and consult with BHEL on action or steps to be taken in response to such request and shall finally execute any such request in accordance with the satisfaction of BHEL.

15. This Agreement shall be binding upon and shall inure for the benefit of the heirs (if applicable), successors and assigns of the Parties hereto.

16. This Agreement represents the entirety of the agreement of the Parties relating to the disclosure of the Confidential Information and shall not be waived, amended or assigned by either Party except by prior written consent of the other Party. No failure or delay by any party in exercising any right, power or privilege hereunder shall operate as a waiver thereof nor shall any single or partial exercise of any right, power or privilege. The rights and remedies herein provided shall be cumulative and not exclusive of any rights or remedies provided by law.

17. This Agreement may be executed in counterparts, each of which shall be deemed an original, but all of which taken together shall constitute one and the same agreement.

18. If any provision of this Agreement is determined to be unenforceable for any reason, then the remaining provisions hereof shall remain unaffected and in full force and effect.

19. This Agreement, the relationship between the Parties and all rights and obligations arising from any act done or required to be done under this Agreement and the terms herein shall be governed by and construed in accordance with the laws in India. The courts at Mumbai shall have the jurisdiction to try any matters arising out of or in connection herewith.

20. Nothing in this Agreement shall obligate either Party to consummate any transaction discussed as a result hereof.

21. This Agreement shall become binding on the Parties from the Effective Date and shall be in force such tenure as specified in Schedule I and shall remain in force for the entire term of the Project Notwithstanding anything contained herein, the obligations of Receiving Party Under this Agreement to retain secrecy of the Confidential Information shall however survive and be continuing until the Confidential information disclosed by BHEL is no longer confidential and is in public domain without any breach of the terms and conditions hereof by the Receiving Party.

22. Unless otherwise provided herein, all notices or other communications under or in connection with this Agreement shall be given in writing and may be sent by personal delivery or post or courier or facsimile at the address as specified in Schedule I hereto. Any such notice or other communication will be deemed to be effective if sent by personal delivery, when delivered, if sent by post, 4 (four) days after being deposited in the post and if sent by courier, one day after being deposited with the courier, and if sent by facsimile, when sent (on receipt of a confirmation to the correct facsimile number).

23. For the avoidance of the doubt, the owner hereby reserves the right at all times to file for / oblige for any applicable copyright / patent and / or any other licenses as applicable and to this effect the Receiving Party hereby undertake to ensure that there is no infringement of the owner's Intellectual Property Interest (IPR) at any time.

## SCHEDULE I

1. **Effective Date:**_____ **day of** _____ **(Month).20_____ (year)**

2. **The Receiving Party:**

   _____, a company registered under the provisions of the Companies Act, 1956, and having its Registered Office at _____.

   The expression" Receiving Party" shall, unless it be repugnant to the subject or context thereof, include its successors and permitted assigns.

3. Tenure:---- Years
4. Address for Notices:
   If to BHEL:
   BHEL Limited,
   BHEL Towers,
   Siri Fort
   New Delhi 110049
   Facsimile Number:
   Tel No.:
   Attn:

   If to the Receiving party:
   [Address]
   Facsimile Number:
   Tel No.:
   Attn:

SCHEDULE 2

PROJECT

IN WITNESS WHEREOF, the Parties have caused the Agreement to be executed in the manner hereinafter appearing.
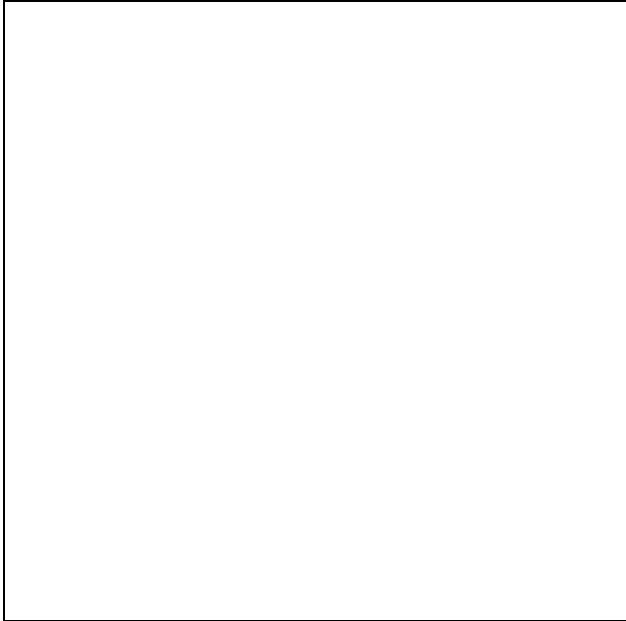
In the presence of:

1)

2)

AND

Signed and Delivered by BHEL
LIMITED, the within named BHEL by the
Hand of _____, its
Authorized official in the presence of:

1) _____;

2) _____.

# Annexure #22 Penalty

The Penalty applicable to the Bidder shall be independent of the Security Deposit and the Contract Performance Bond submitted by the successful Bidder.

| S. No. | Parameter | Penalty | Ceiling |
|---|---|---|---|
| 1. | Non-Availability of license | If the Bidder is not able to provide the license within 4 weeks of requisition by the Owner, the payment to the Bidder will be liable for deduction @0.5% of the total license price for delay of each week or part thereof. | Total price of Licenses as per the Owner's requisition. |
| 2. | Non-Availability of required & agreed man-power from Implementation partner / ERP product OEM | If the Bidder is not able to provide the required & agreed man-power from ERP product OEM **(Section 7.7 Resources for Solution Expert Consulting Services)/** Implementation Partner **(Section 5.8 Resources for Amendments & Variations)** within 15 days from the scheduled date of deployment, the payment to the Bidder shall be liable for deduction at the rate of INR 1,00,000 (One Lac) per manpower resource per day. | Total price as per **Annexure # 18.1 OR 18.2**, as applicable. |
| 3. | Non-Adherence to overall Project timelines | If the Bidder fails to achieve the completion of project within defined duration, the payment to him will be liable for deduction @0.5% of the total contract price for delay of each week or part thereof. | 10% of the total contract price. |
| 4. | Non-Adherence to Milestone timelines | If the Bidder fails to achieve the completion of any milestone within defined duration, the payment to him will be liable for deduction @0.5% of the milestone payment for delay of each week or part thereof. | Total payment linked to the respective milestone. |
| 5. | Non-Adherence to minimum resource requirement | If the Bidder fails to deploy the minimum resources as mentioned in **Section 7.6 Minimum Resource Deployment and/ or 8.2 Minimum Resource Deployment** from the date the Contract becomes effective, the payment to the Bidder shall be liable for deduction at the rate of INR 1,00,000 (One Lac) per manpower resource shortfall for each day. | Total Implementation Price as per **Annexure # 20**. |

| S. No. | Parameter | Penalty | Ceiling |
|---|---|---|---|
| 6. | Non-compliance or non-implementation of corrections arising out of periodic Quality Audits. | If the Bidder fails to deliver the recovery compliances or implementation of corrections arising out of periodic Quality Audits, the payment to the Bidder will be liable for deduction @0.5% of the total Implementation Price for each non-compliance. | Total Implementation Price as per **Annexure # 20**. |

| 7. | Penalties for non-adherence to Helpdesk SLA parameters. | |
|---|---|---|

| **Severity of Violation** | **Measurement** |
|---|---|
| Critical | The Critical defects should be resolved within 90 Minutes from the time of reporting full details.<br><br>For the calculation of penalty, the Owner will calculate the number of violations by the Bidder every month. The calculation will be done as per the following table:<br><br>**% defects resolved within 90 Minutes** \| **No. of Violations considered**<br>&lt;100% & >=95% \| 0<br>&lt; 95% & >= 90% \| 1<br>&lt; 90% & >= 85% \| 2<br>&lt; 85% \| 3 |
| Urgent | The Urgent defects shall be resolved within 4 Hours from the time of reporting full details.<br><br>This service level will be monitored on a monthly basis.<br><br>For the calculation of penalty, the Owner will calculate the number of violations by the Bidder over the Quarter. The calculation will be done as per the following table:<br><br>**% defects resolved within 4 Hours** \| **No. of Violations considered**<br>&lt;100% & >=95% \| 0<br>&lt; 95% & >= 90% \| 1<br>&lt; 90% & >= 85% \| 2<br>&lt; 85% \| 3 |

**Critical table:**

| % defects resolved within 90 Minutes | No. of Violations considered |
|---|---|
| <100% & >=95% | 0 |
| < 95% & >= 90% | 1 |
| < 90% & >= 85% | 2 |
| < 85% | 3 |

**Urgent table:**

| % defects resolved within 4 Hours | No. of Violations considered |
|---|---|
| <100% & >=95% | 0 |
| < 95% & >= 90% | 1 |
| < 90% & >= 85% | 2 |
| < 85% | 3 |

| S. No. | Parameter | Penalty | Ceiling |
|---|---|---|---|
| | High | The High defects shall be resolved within 2 days from the time of reporting full details.<br><br>This service level will be monitored on a monthly basis.<br><br>For the calculation of penalty, the Owner will calculate the number of violations by the Bidder over the Quarter. The calculation will be done as per the following table:<br><br>| % defects resolved within 2 Days | No. of Violations considered |<br>|---|---|<br>| < 100% & >= 90% | 1 |<br>| < 90% & >= 80% | 2 |<br>| < 80% | 3 | | |

1. Monthly performance evaluation will be conducted by the Owner.

2. Penalty Calculations - The framework for Penalties, as a result of not meeting the Service Level Targets is as follows:
   a) The performance will be measured monthly for each of the defined service level metric against the minimum / target service level requirements and the violations will be calculated accordingly.

   b) The number of violations in the reporting period for each level of severity will be totalled and used for the calculation of Penalties.

   c) Penalty applicable for each of the Critical, Urgent, & High severity violations is INR 10,000 (INR Ten thousand) per violation.

   d) For violation calculation every month, the defects closing date in that particular month will be considered.

Note: The total cumulative penalty for the above shall not exceed 10% of the total Contract Price.

# Annexure #23 Resource Deployment Declaration

This is to certify & irrevocably confirm that we shall deploy:

- Minimum resources during the entire duration of the 'ONE BHEL' project as mentioned in **Section 7.6 & 8.2.**
-  Human Resources proposed for the project as mentioned in **Annexure # 14 Team Profiles – CVs**

Date:

Name and Designation of Signatory:

Name of Company:

Address:

*Note: This form has to be signed by authorized signatory.*

## Annexure #24 Proof of Concept

The Bidder would be required to carry out a demonstration of Proof of Concept (POC) of the proposed ERP application to meet the requirements of the Owner, as defined in this RFP document on a no cost no commitment basis. This POC will be on live demo system.

The weightage assigned to Proof of Concept (POC) is **20 marks**. **<u>The POC document will only be shared with the Bidders who have qualified through the Pre-Qualification Criteria (ref. 5.4)</u>**. The bidder should start working on the POC immediately after the release of POC document as per the schedule mentioned in POC document. In case of any discrepancy in FRS response and the capability shown in POC, the POC will prevail and the FRS marks would be recalculated.

# Annexure #25 Consortium Agreement

<div align="center">

**CONSORTIUM AGREEMENT**

</div>

**PART II – PREAMBLE**

This Consortium AGREEMENT is made this **(insert month), (insert Year)** by and between (insert party of first part), a corporation incorporated in India**/(insert Country of registration in case of International Company)** under the Companies Act 1956/**(insert incorporating statute)** and having its registered office at **(insert address)** (herein after referred to as "---" which expression shall unless repugnant to the context or the meaning thereof be deemed to include its successors & permitted assigns) and **(insert party of second part)**, a company listed in **(insert Country of registration)** and incorporated under (insert incorporating statute), having its registered office at **(insert address)** (herein after referred to as "----" which expression shall unless repugnant to the context or the meaning thereof be deemed to include its successors & permitted assigns).

WHEREAS, Bharat Heavy Electricals Limited (hereinafter referred to as the "Owner"), the state-owned Indian utility/ a company incorporated in India under the Companies Act 1956, having its registered office at Siri Fort, New Delhi has invited competitive bids from pre-qualified bidders for the execution of the Tender for Selection of ERP Product & Implementation Partner

and

WHEREAS, **(insert party of the first part)**, among other things is in the business of **(insert description of main business)**;

WHEREAS, **(insert party of the second part)**, among other things is in the business of **(insert description of main business)**;

WHEREAS, **(insert party of the first part)** and **(insert party of the second part)**, desire to enter into an agreement for the purpose of (i) signing and entry into force of the contract with and for the Owner and (ii) good performance and faithful execution of the contract for the Owner for the Scope of Work (as defined in Annexure 25A & 25B of this agreement) and warranty as applicable in accordance with the aforementioned proposal with the Owner, and

AND WHEREAS, **(INSERT PARTY OF THE FIRST PART)** and **(insert party of the second part)**, desire to enter into a Consortium arrangement whereby (i) with respect to the Owner, **(INSERT FIRST PARTY NAME)**, shall act as the Consortium Leader with portions of the work to be assigned to **(INSERT SECOND PARTY NAME)**, and (ii) with respect to each other, the internal relationship between **(INSERT PARTY OF THE FIRST PART)** and **(INSERT PARTY OF THE SECOND PART)**, they define their respective rights and obligations and respective scopes of work in the manner prescribed below and

NOW THEREFORE, in consideration of the premises and mutual covenants set forth herein, the PARTIES hereto hereby agree to undertake as follows:

## PART II – DEFINITIONS

For the purpose of this Agreement, the following words and phrases shall have the following meanings:

1. **"Agreement"** – shall mean this document, being this consortium agreement and all its appendices.
2. **"Owner"** – shall mean the product owners and/or the ultimate customer/principal for whom the present works are being carried out. For the purposes if this agreement, the term Owner shall mean Bharat Heavy Electricals Limited (BHEL).
3. **"Consortium"** – shall mean an unincorporated temporary association of **(INSERT PARTY OF THE FIRST PART)** and **(INSERT PARTY OF THE SECOND PART)**, responsible to the Owner through its identified leader/representative, for the purpose of, signing, executing and performing the Contract with and for the Owner for the defined  obligations herein.
   By "Consortium" is meant: all parties to this Agreement.
4. **"Contract"** – shall mean the document or documents (including all amendments and appendices thereto) executed by and between the Consortium and the Owner which defines the rights and obligations of the parties thereto with respect to the obligations/scope of work mentioned in Annexure 25A & 25B.
5. **"Default"**- shall mean any breach of terms and conditions contained herein and/or breach or inconsistencies with the Owner's terms defined in the Contract.
6. **"Tender Documents"** – shall mean the request for bids issued by the Owner and its designated project consultant (Price Waterhouse Coopers), and any further amendments thereto.
7. **"Project"** – shall mean the entire work to be performed by the parties to this agreement as mentioned in the obligations/scope of work mentioned in Annexure 25A and warranty of the products and services to be provided under the Contract.
8. **"Parties"** – shall mean the parties executing this Agreement that is **(INSERT PARTY OF THE FIRST PART)** and **(INSERT PARTY OF THE SECOND PART).**
9. **"Party"** – shall mean one of the PARTIES
10. **"Third Party"** – shall mean any party other than one of the PARTIES defined above.
11. **"Scope of work"** – shall mean, obligations defined for each PARTY, the sum total of that Party's supply of products and services as set forth in Annexure 25A & 25 B of this agreement.
12. **"Proportionate Share"** – shall mean for each PARTY, the percentage or fraction represented by the ratio of prices of the party's SCOPE OF WORK to the PROJECT price as defined in **Annexure** of the agreement.
13. **"Schedule"** – shall mean the PROJECT SCHEDULE as set forth in **Annexure** to this Agreement.
14. **"Leader"** – shall mean (INSERT PARTY NAME), in connection with both the commercial aspects, and the technical aspects of the Project, the single point contact of the Project and the liability holder on behalf of the entire Consortium. For the avoidance of doubt the Leader shall remain directly accountable and liable to the Owner at all times, for the execution of the entire Scope of Work as defined in this

Agreement and Annexure 25A and 25B hereafter on behalf of the Parties to this Consortium and shall have the meaning ascribed to it additionally in the clause—herein below.

15. The **"Proposal"** – shall mean the formal offer together with any amendments or modifications thereto which may subsequently be offered to the Owner.

## PART III – RELATIONSHIP OF THE PARTIES ENCLOSURES
1. The following enclosures are an integral part of this Agreement:
   - Scope Division Matrix as enclosed at Annexure 25A & 25B.
   - Price, Cost/Divisions as enclosed at Annexure 25C
2. The relevant enclosures hereto shall be kept up-to-date and amendments, if any thereto shall be executed by the Parties as a result of agreed amendments to the Contract or agreed internal variations/modifications and shall be so recorded in writing and shall constitute an integral part of this Agreement.

## ORDER OF PRECEDENCE
1. In the event of a conflict and/or contradiction of the terms between this Agreement and its Annexure, the terms and conditions contained in this agreement shall prevail.
2. In the event of a conflict and/or contradiction of the terms between this Agreement and the Contract (by and between Parties and the Owner), the terms and conditions of the Contract shall prevail and supersede the terms of this Agreement. For the avoidance of doubt, in the absence of clarity in the Contract, nothing contained herein shall contravene the terms of the tender circulated by the Owner.

## LEGAL STATUS
This Agreement shall relate solely to the Project and shall not extend to other activities or be construed to create a partnership or any other form of legal entity. Nor shall it be construed as creating or requiring any ongoing or continuing relationship or commitment among the parties hereto other than the obligations expressly set forth in this Agreement. There shall be no profit or loss sharing. For the avoidance of doubt, sharing of liability for Cost shall not apply herein.

## PRINCIPLES OF COOPERATION

## RELATIONSHIP WITH THE OWNER
1. The Parties, through the Leader, shall be responsible to the Owner for the performance of the Scope of Work under the Contract at all times. To this effect, the Parties shall execute and discharge all obligations as listed herein and more particularly described in Annexure 25A & 25B in good faith through the Leader of the Consortium as identified and defined in clause---- in this Agreement. Notwithstanding anything contained in this agreement, the Parties hereby understand and acknowledge that the principle of cooperation for the purposes of this agreement with respect to the relationship of Parties with the Owner shall at all times be governed by an overall responsibility to the Owner in order to give effect to the

primary intention of the Owner's objective, respecting at all times, the Owner's right to receive a composite, complete and functional Project and/or product and/or solution.

## LEAD PARTY OF THE CONSORTIUM

1. **(Insert Party leader name)**, (Hereinafter referred to as the "Leader") is hereby appointed by the Parties to be the chief point of contact and is tasked to liaise with the Owner on behalf of the consortium members to facilitate coordination of the Parties to the Contract. Such Party shall at all times be the single point of contact responsible to the Owner in the discharge of obligations under the Contract.

2. For the avoidance of doubt, in the bid to the Owner, there shall be no concealment of facts/information/data which may harm the Owner in any manner or cause damage to the Owner's interests in the Project. In the event of such concealment, the Leader defined here above shall bear such liability towards the Owner.

3. The Leader defined here above shall at all times, in addition to the roles defined herein above shall also be the liability holder of the Project on behalf of the entire Consortium. For the avoidance of doubt the Leader shall remain directly accountable and liable to the Owner at all times, for the execution of the entire Scope of Work as defined in this Agreement and Annexure A and B hereafter on behalf of the Parties to this Consortium. To this effect, the Owner shall at all times have complete recourse and the right to recovery through the Leader for the execution of the entire Project.

4. For the purposes of this clause, the Leader shall take on the entire liability towards the Owner under the Contract and for performance of the Project. **(INSERT PARTY OF THE SECOND PART)** shall only be liable for its obligation to the Owner as listed herein or in the Contract.

## RELATIONS BETWEEN THE PARTIES

1. This Agreement regulates the relationship between the Parties, for this Project, during its validity. No Party shall without prior written consent in each case from the Party(ies) concerned create obligations, accept commitments or waive rights on behalf of any other Party(ies).

2. Each Party shall comply with the Contract and in particular the Leader shall perform having regard to the Contract and this Agreement and shall engage such personnel and perform such services as may be required therefore in recognition of the Owner's right to receive wholesome and satisfactorily rendered products and services and mentioned under Scope Division Matrix in Annexure 25A and 25B.

## COMPLETENESS

1. Having due regard to the character, objectives and scope of the Project, the Parties acknowledge that the Consortium is obliged to deliver a Project which is complete and functional.

2. Save as otherwise provided herein, should any work not be defined expressly in the Scope Division Matrix in Annexure 25A and 25B but be necessary and incidental to

perform the Contract, such work shall be delivered to the Owner promptly and to that effect performed by the Leader without any additional cost and impact to Owner.

## **PURPOSE**

1.  In the event of award of Contract by the Owner, the Project shall be carried out in accordance with the terms and conditions of the Contract and this Agreement, which defines the rights and obligations of the respective Parties here to.

2. The Parties hereby enter into an agreement for inter alia, the purpose of, (i) entering into a Contract with the Owner based on the proposal, which Contract shall be signed by the Owner and the Consortium, (ii) performing such Contract and (iii) defining the rights and obligations between the Parties in connection with performance of the Contract, and for no other purpose.

3. Upon the signing of this Agreement, each Party will appoint by a written notice to the other Party a "representative(s)" fully authorized by such Party to act on its behalf in connection with all matters arising under this Agreement. In the event of a change in its nominated "representative(s)", such change shall only take effect when accompanied by an advance written notice to the other Party at the least one (1) month prior to the date when such change takes effect. Any representative not an employee of a Party shall be subject to approval by the other Party.

4. Nothing contained in this Agreement is intended nor shall it be construed as creating a partnership or joint venture among the Parties nor is anything contained in this Agreement intended.
5. Any individually owned property that each Party may provide for use in connection with the performance of its respective Scope of Work shall remain the individual property of said Party.
6. Unless specifically provided otherwise herein, no Party (nor its representative) shall be deemed to be a representative, agent or employee of the other Party, by contract, by employment or for any purpose whatsoever.
7. No Party shall have the authority or right nor shall any Party hold itself out as having the authority or right to assume, create or undertake any obligation of any kind whatsoever, expressed or implied, on behalf of or in the name of any other Party without the express prior written consent to the other Parties or Party as the case may be.
8. No Party shall have the authority or right nor shall any Party hold itself out as having the authority or right to accept service of any legal process addressed to or intended for any other Party or Parties.
9. Each Party shall provide its own working capital for the execution of the project. No party shall have the right to borrow money on behalf of or in the name of any other Party nor shall any Party pledge the credit of any other Party without the express prior written consent of the other Party nor shall any Party pledge its letter of credit under the Contract or the Agreement as collateral for any loan obtained by such Party.

10. Each Party will be solely responsible for all costs and expenses incurred by it in connection with any discussions or negotiations with the Owner or other third parties in connection with the Contract.

## PART IV – SCOPES OF WORK

1. All of the work, responsibilities and requirements for the performance of the Project are hereby divided and allocated among the Parties in accordance with **Annexure 25A & 25B** which is attached hereto and deemed to be an integral part of this Agreement. The division and allocation of the work for the Project for each Party set forth in **Annexure 25A & 25B** shall constitute said Party's Scope of Work.

2. It is understood and agreed to that each of the parties' Scope of Work as more fully described in **Annexure 25A & 25B** is intended to cover the following broad categories of responsibility in connection with the Project.

**(INSERT PARTY OF THE FIRST PART):** Scope of work for ERP Product Vendor required under the contract as mentioned in Annexure 25A.

**(INSERT PARTY OF THE SECOND PART):** Scope of work for Implementation Partner required under the contract as mentioned in Annexure 25B to this Agreement.

## COMMON SCOPES OF WORK BETWEEN PARTIES: COMMON OBLIGATIONS

1. Each Party shall make their efforts to secure the award of the Contract. No Party shall, however, have a claim against any other Party arising out of a failure to secure the award of the Contract for the Project.
2. Each Party shall forward the purpose of the Consortium in cooperation with the other Parties:

   a) No changes, additions or modifications to the proposal after its submission and no agreement with the Owner containing such changes, additions or modifications shall be made unless agreed by the Owner in writing.
   b) For the avoidance of doubt, all consent mentioned herein above shall be express consent in writing based on mutual agreement between the Parties.

3. The Leader shall on behalf of the Consortium, ensure that satisfactory performance parameters of 'ONE-BHEL' ERP initiative will be successfully implemented.

1. The offer price quoted by each party in the tender for the project shall be firm lump sum prices which shall fully cover each party's scope of the work and the contractual obligations specified herein under as well as all the requirements specified in the Owner's tender.
2. It is the common understanding of the parties that (INSERT PARTY NAME), shall be responsible for the payment of all types of taxes, duties including withholding tax, income tax, etc. imposed and applicable. Such payment of tax shall be made to the relative authorities by (INSERTPARTY NAME).

3. All of the above procedures shall be governed by the Owner's understanding of payment terms.
4. For the purposes of this Agreement, any disputed payments, if applicable shall be addressed to the Owner only through the Leader of the Consortium and shall in any event, not be a cause for suspension of the work under the Contract. For the avoidance of doubt, all such claims shall be addressed to the Owner at the end of the Project.

## B. CONTRACT NEGOTIATIONS AND BANK GUARANTEE OBLIGATIONS

1. The Parties shall jointly negotiate the Contract with the Owner and each Party agrees to have its fully authorized representative (s) present at all the pre-Contract meetings and discussions with the Owner.
2. In the event of successful award by the Owner, the resulting Contract between the Parties and the Owner shall be signed by all the Parties to the Consortium or by the Leader of the Consortium for and on behalf the parties to the Consortium.
3. Each Party assumes the obligation of fulfilling all work, including timely deliveries and completion of its scope of supply, and any guarantee or warranty workmanship, material or performance given by it, if any for its scope of work under the Contract.
4. In the event any Party foresees any delay in the timely performance of its Scope of Work as described in the Schedule, the Leader shall strive to ensure that the Owner's Project time schedules are not disturbed and to that effect shall ensure that the affected portion of work is carried out by other means in a manner to cure the interruption caused expeditiously.
5. As required by the Owner, the Leader shall establish the required bank guarantees or bonds for the benefit of the Owner to secure the return of progress payments, good performance of the Contract as well as the Good performance of its participation in the bidding process.

## PART V – CONTRACT PERFORMANCE PHASE

### SCHEDULE
The Parties agree to prepare and execute the Schedule for the Project in accordance with the requirements of the Owner. It is essential for effective Contract performance that the parties remain aware, at all times, of the time interfaces and interactions of their respective Scopes of Work. These interfaces and interactions shall be mapped and linked with milestones prescribed by the Owner.
The Schedule shall be attached hereto as **Annexure** and shall be deemed to be an integral part of this Agreement.

### MANAGEMENT
1. The Leader's functions shall include but not be limited to:
   a) Arranging meetings between the Parties with the Owner.
   b) Arranging meetings between the Parties.
   c) Transmitting copies of all correspondence and documents to and from the Owner.

2. All communications between the parties and the Owner shall be made through the Leader except for communications relating to the License Agreement.
3. In the event of any question or dispute among the Parties, such dispute shall be resolved by and between the Party representatives .and in case of that which cannot be resolved by mutual agreement of the Parties, it is specifically agreed that any such work will be carried out expeditiously in accordance with the decision of the Steering Committee to be appointed by the Parties. However, in any event, the proceedings under the Steering Committee shall not prevent or delay the implementation of the Project.

## TAXES

The Leader, shall have full and sole responsibility for the payment of any taxes, duties fees or assessments of any nature whatsoever including penalties and interest, if any, levied in connection with the Contract (including any personal income taxes levied or imposed on any of the employees or personnel or any of its subcontractor's employees or personnel),.

## DELAYS AND COSTS DUE TO DELAYS

In the event any Party for any reason whatsoever causes, either willfully or negligently, any delay or default in the performance of the Contract, particularly the performance of the project in accordance with the Schedule, the Leader shall be responsible on behalf of the Consortium, to the Owner to make good any delay damages levied by the Owner notwithstanding recoveries from the other Party in a manner that is agreed upon between the Parties.

## PATENTS

The Leader agrees to indemnify and save harmless the Owner against any loss or damage that may result from such claims by way of issuance of indemnities in favor of the Owner. (**Insert Second Party Name**) shall additionally provide Indemnification to the Owner as per the terms of the License Agreement to be signed between (**Insert Second party/OEM**) and Owner.

## BANKRUPTCY, INSOLVENCY, DISSOLUTION, READJUSTMENT OF DEBT, LIQUIDATIONREORGANISATION ETC.

The following provisions shall, in any event, be given effect
1. In the event that any Party (herein "Such Party"):
   a) makes a petition or applies for or arranges for the appointment of a trustee, liquidator or receiver, or commences any proceeding relating to itself under any bankruptcy, reorganization, arrangement, insolvency, readjustment of debt, dissolution or liquidated or similar law of any jurisdiction, now or hereafter in effect or otherwise, or shall be adjudicated bankrupt or insolvent, or
   b) if any petition or application for the appointment of a trustee, liquidator or receiver of Such Party is filed against Such Party and any bankruptcy, reorganization, arrangement, insolvency, readjustment of debt, dissolution or liquidated or

commenced against Such Party and Such Party indicates its approval thereof, consent thereto or acquiescence therein, or an order is entered appointing any such trustee, liquidator or receiver, then and in any such event:

i. Such Party (and/or its receiver, trustee, liquidator or custodian) shall cease to have any further decision making authority under this Agreement and the approval or authority of Such Party as otherwise may have been required under this agreement shall not be required.

ii. The other Party shall have the right to take over and complete Such Party's Scope of Work and in so doing, the other Party shall be entitled to have assigned to them all of such Party's account receivable and payments from the Owner in connection with the Project.

iii. For purposes of allocating the costs of completing Such Party's obligations under this Agreement and for purposes of allocating the reimbursement by Such Party pursuant to (v) below, the remaining Party agree such allocations shall be made in accordance with the ratio of remaining Party's Proportionate Share, as it bears to the total of the Proportionate Shares of all the remaining Party.

iv. Such Party shall be fully responsible for and shall remain liable for all additional costs incurred in the completion of its Scope of Work.

v. For the avoidance of doubt, nothing contained herein shall affect the smooth functioning of the Project within its scheduled timelines.

## INSURANCE

1. The Leader shall be responsible for arranging insurance coverage in the amounts required by the Contract.
2. The "underwriters" and the terms of all insurance policies arranged by the Leader in accordance with the Contract with the Owner shall be approved by the other Parties.
3. The Leader hereby waives any rights of subrogation it may have against the other Party.

**WARRANTY AND GUARANTEE** The following procedure will apply to Owner complaints related to warranty deficiencies under the Contract.

1. Parties shall provide the warranty for their respective Scope of Work as identified in this agreement to Owner. If the Owner alleges deficiencies in any product or services supplied under the Contract, the Leader shall, after consultation with the Steering Committee and its written consent, convey the Parties' response to the Owner regarding such alleged deficiencies.
2. The Leader shall be responsible to the Owner for correction of overall warranty deficiencies in the performance of the Contract or provide agreed remedies to the Owner as per the terms in Contract. If the alleged deficiencies are in (INSERT PARTY OF THE FIRST PART)'s Scope of Work, (INSERT PARTY OF THE FIRST PART) shall correct the deficiency at its expense. If the alleged deficiencies are in (INSERT PARTY OF THE SECOND PART),'s Scope of Work, (INSERTPARTY OF THE SECOND PART), shall correct the deficiencies at its expense. Provided

hereinafter that the ( Insert Second Part/OEM) shall continue to be responsible to provide remedies and Warranties, as applicable to the Owner as per the terms of License Agreement to be signed between Owner & ( Insert Second Part/OEM)


## PART VI – LIABILITY AND INDEMNIFICATION
## A. LIABILITY AND INDEMNIFICATION WITH RESPECT TO CLAIMS OF THE OWNER ANDTHIRD PARTIES

Except as expressly provided otherwise herein, the Leader agrees to indemnify as follows:

The Leader (Indemnifying Party), on behalf of the Consortium, agrees to indemnify and hold the Owner (Indemnified Party) harmless from any claim made against the Indemnified Party by the Parties or any other third parties to the degree that such claim arises in connection with the said Project for any breach or default of this Agreement or the Contract or is due to the indemnifying Party's fault or negligence. In the event that claims are made by third parties under infringement of Intellectual Property Rights and/or noncompliance of applicable laws and regulations/licenses, the Indemnifying Party shall hold harmless, the Owner and bear the cost of all legal consequences arising out of the above and/or imposed upon the Owner. To this effect, the Leader hereby agrees to submit an indemnity/indemnities in favor of the Owner establishing the above.

For the avoidance of doubt, notwithstanding what is contained hereinabove, the (**Insert the second part/OEM**) shall provide Indemnification to the Owner for any IPR (**Intellectual Property Rights**) for its Scope of Work as per the terms of the License Agreement.


## PART VII – DISPUTES

1. In the event of any disputes between the parties under this Agreement, such disputes shall be settled if possible by friendly negotiation. If settlement cannot be reached by negotiation then the dispute shall be finally settled by arbitration.

2. Each Party shall have the right by giving notice to the other party to refer the dispute or controversy to arbitration any time without recourse to common or commercial courts. The notice shall identify the name and the address of the arbitrator appointed by the party giving notice and the points of dispute. Within thirty (30) days after receipt of such notice the other party shall give notice to the first party of the appointment and name and address of the second arbitrator. The two arbitrators so appointed shall appoint a third arbitrator within sixty (60) days after the appointment of the second arbitrator. If the other party fails to appoint the second arbitrator within thirty (30) days after receipt of notice of the appointment of the first arbitrator, or if the two arbitrators appointed by the parties fail to appoint a third arbitrator within sixty (60) days after the appointment of the second arbitrator, the decision of the the Courts in Delhi shall be final and binding upon the parties. The seat of arbitration shall be in New Delhi, India. The arbitration shall be conducted in the English language, in accordance with the Arbitration and Conciliation Act, 1996. In arriving at their decision, the arbitrators shall consider the pertinent facts and circumstances and be guided by the terms and conditions of this Agreement, and the

Governing law shall be Laws of India. The decision of the arbitrators /the Arbitral Award shall contain the reasons for the decision and shall be final and binding upon all parties. All claims which the parties have against each other under this Agreement at the time of the demand for arbitration shall be consolidated and tried at the conclusion of the Project so as to cause no hindrance/interruption to the execution of the Project and its time schedules. For all purposes, an arbitration award shall be considered to be "legally binding" when it has been issued pursuant to the procedure set forth in this Part. The arbitral award, if any, shall be enforceable in any court of competent jurisdiction.

3. Notwithstanding anything contained hereinabove, with regard to the terms contained in the License Agreement and their related obligations contained in this agreement or Contract the following provision shall only apply for the resolution of any Disputes between the parties. In the event of any dispute or disagreement between the parties arising out of or relating to this agreement (the "dispute"), the parties will endeavor to resolve the dispute in accordance with this section. Either party may invoke this section by providing the other party written notice of its decision to do so, including a description of the issues subject to the dispute. Each party will appoint a Vice President to discuss the dispute and no formal proceedings for the judicial resolution of such dispute, except for the seeking of equitable relief, may begin until either Vice President concludes, after a good faith effort to resolve the dispute, that resolution through continued discussion is unlikely. The parties shall refrain from exercising any termination right and shall continue to perform their respective obligations under the ordering document and this Agreement while the parties endeavor to resolve the dispute under this section, provided that, any party alleged to be in breach promptly makes good faith efforts to cure the breach and pursues the cure in good faith.

## PART VIII –GENERAL PROVISIONS
## A. CONFIDENTIALLY OF CORRESPONDENCE, DATA, DOCUMENTS AND DRAWINGS

1. Each of the Parties agree to keep confidential all information received from another Party and the Owner in connection with the Project marked and/or identified as Confidential.
2. Each of the Parties also agrees not to make use of such information for any purposes other than (i) to further the purpose of the Consortium and (ii) to perform its Part of Scope of the Project.
3. This undertaking shall be valid until a period of 3 (three) years after the expiration of this Consortium Agreement and the Contract with the Owner.
4. This undertaking shall also survive the termination of the Contract with the Owner for a period of 3 (three) years from the date of disclosure.
5. This obligation of confidentiality shall not apply to the following portions of information if and to the extent that the receiving Party can prove/satisfy by documentary evidence, to the satisfaction of the Owner that such information:
    I.   was known by the receiving Party prior to disclosure hereunder and was not acquired directly or indirectly from the disclosing Party; or

II.    is in the public domain or comes into the public domain through no fault of the receiving Party; or

III.    is independently developed by a party; or

IV.    is legally required by a governmental or judicial authority.

## B. CORRESPODNENCE AND NOTICES

Notices required under this Agreement shall be signed by the duly authorized representative of the party initiating such notice and shall be either delivered to an officer or authorized representative of the Party to whom it is directed, or sent by mail, postage prepaid, to the following addresses (which may be written notice from the Party in question):

<div align="center">

PT (INSERT PARTY OF THE SECOND PART),

ATTENTION: Mr.

(Insert regd. Address)

ATTENTION: Mr.

</div>

## C. WAIVER

No Party hereto shall be deemed to have waived any provision of this Agreement unless such waiver shall be in writing and signed by such Party and specifying the extent and nature of such waiver.  No waiver shall be deemed to be continuing waiver so stated in writing.

## D. ADDITIONAL PARTIES

No entity shall become a party to this Agreement without the prior written consent of all the Parties with a prior written intimation and approval of the Owner.

## E. ASSIGNMENT

No Party may assign or delegate this Agreement or any of its rights or obligations under this Agreement or the Contract, without the prior written consent of the other Party. Nothing herein shall prevent any Party from placing or permitting the placing of orders on others for the supply of goods or services within such Party's Scope of Work, provided that the placing of such orders shall not in any way relieve such Party from any of its obligations under this Agreement or the Contract.

## F. APPLICABLE LAW

This Agreement shall be governed by and construed in accordance with the Laws of India.

## G. FORCE MAJEURE

All the events specified in the CONTRACT as events of "Force Majeure" shall be "Force Majeure" cases under this AGREEMENT. Neither Party shall be responsible for failure

or delay of performance if caused by: an act of war, hostility, or sabotage; act of God; pandemic, government restrictions (including the denial or cancellation of any export, import or other license); Consequently, either PARTY cannot invoke the "Force Majeure" clause to limit its responsibilities vis-à-vis the other PARTY, except in case that or within the limits in which this "Force Majeure" case falls within the definition provided hereinabove.

## H. TERMS OF AGREEMENT

This Agreement shall commence as of the day and year when the last of the Parties have signed it and shall terminate upon occurrence of any of the events listed below:

1. The Proposal to the Owner for the Project has been officially or unofficially rejected or expires by its own terms as of a given date unless such term if extended by agreement of all the Parties; or
2. A Contract for the Project has been awarded to another bidder; or
3. The Owner advises that no award to any bidder will be made or the Owner abandons the Project; or
4. The Contract with the Owner has been fully performed in accordance with its terms and conditions, and all rights and liabilities with respect to the Owner or third parties have terminated or expired, or
5. The Contract has been legally terminated by the Owner or by mutual agreement; or

For the avoidance of doubt, termination for convenience does not apply to this Agreement. Any termination hereunder shall attract forfeiture of the Performance Guarantees and/or faithful bid performance security deposited to the Owner.


## I. ENTIRE AGREEMENT

1. This Agreement contains the entire agreement among the Parties with respect to the subject matter hereof and supersedes any and all prior understanding, correspondence or agreements (oral or written) among the Parties. The rights and remedies of the Parties as stated in this Agreement are to the exclusion of any other rights or remedies that may be available at law or inequity.
2. If any provision of this Agreement is or becomes invalid, such invalidity shall not affect the other provision of this Agreement. If the invalidity of one or more provisions or any other circumstance concerning the performance of this Agreement reveals a situation not provided for in this Agreement, the Parties shall jointly seek an arrangement having a valid legal and economic effect which will cover the scope of any missing provision in a manner reasonably direct to the purpose of this Agreement.


## J. AMENDMENTS

No change, amendment or modification of this Agreement shall be valid or binding upon the Parties unless such change, amendment or modification shall be in writing and duly executed by all Parties with prior intimation to the Owner.


## K. TITLES

Heading titles contained herein shall in no way be construed as limiting the intent of the subject matter they introduce as shall not be used in construing this Agreement.

## L. NUMBER OF ORIGINALS

This Agreement shall be executed in two counterparts, each of which shall be deemed as original.

## M. ASSIGNMENT AND TRANSFERABILITY

Neither Party shall assign in whole or in part its duties, rights, obligations or responsibilities to third parties with respect to the Owner or other Parties without prior written consent from the other party and more particularly, the prior written consent of the Owner. Provided hereafter that the rights and obligations of a Party under this Consortium Agreement shall not be assigned or transferred during the pendency of the Project.

## N. SUBCONTRACTING

Nothing contained in this Agreement shall create a right to further subcontract Scope of Works for the Project either in whole or in part thereof.

## O. REVIEW AND APPORAVALS

Any information, review and/or approval to be provided be the parties to each other under this Agreement shall take place within a reasonable time so as not to interfere with the progress of the Work under the Contract.


IN WITNESS WHEREOF, the Parties hereto have caused this Agreement to be executed by their respective authorized representatives.

**For (INSERT PARTY OF THE FIRST PART)**

_____                        _____
Name:                                                                   Name of the witness:

**For (INSERT PARTY OF THE SECOND PART)**

_____                        _____
Name:                                                                   Name of the witness:

Obligations of ERP Product OEM as per Tender Document

## ANNEXURE 25B

Obligations of Implementation Partner as per Tender Document

**ANNEXURE 25C**
**PRICE SCHEDULES**

# BOND OF FAITHFUL CONTRACT PERFORMANCE/PERFORMANCE GUARANTEE

**To: Bharat Heavy Electricals Limited (Beneficiary)**

**(Insert Address)**

**Date:**

We, (insert first class Bank name) ,hereinafter referred to as the Principal Obligor (mention regd. office and incorporation statute) do hereby beg to inform you that, we irrevocably and unreservedly guarantee, upon the request of your Successful Bidder  (Insert **successful** bidder name), a company incorporated under (mention incorporating statute), participating in this Project/Awarded Tender together with (Insert Consortium Partner name)  a company incorporated under (mention incorporating statute), having its seat or domiciled in (insert registered address of both partners and country of registration), with each of its members bearing joint and several responsibility towards BHEL (the beneficiary), waiving expressly and unreservedly the right to claim any exceptions, statutory or otherwise and our right of objections of all kinds, including the Principal Obligor's non-individual objections and/or particularly, the Successful Bidder's other objections. Renouncing all our rights deriving from the above, we hereby undertake that we are severally responsible to you as Principal Obligors with a sum of up to (insert amount in words and figures) for the exact fulfillment of every and all obligations assumed by your said Successful Bidder for good performance of the CONTRACT (entered into in pursuance of the Purchase Order and Tender No.--- for Selection of ERP Product & Implementation Partner entered into with you, the contents of which are known to us and a copy of which was delivered to us, its reception being confirmed by the confirmation herein.

This present Guarantee refers to the obligations deriving from the performance in the aforementioned CONTRACT in its entirety and shall be valid up to the date on which all obligations are successfully discharged under the CONTRACT.  In the event, as a consequence of the above guarantee, you decide, in your sole opinion/discretion and according to your free and uncommitted judgment and unilateral decision that the said Successful Bidder is in default or breach with regard to any obligation/duty of any kind or nature undertaken by him by virtue of the above CONTRACT, we are hereby assuming the obligation to pay forthwith to you, immediately upon your first demand without any objection, the guaranteed sum, either in total or in part, according to your instructions, WITHOUT any authorization, action or consent of the Successful Bidder being required for such payment nor any opposition, exception, objection or recourse to arbitration and/or Courts to be eventually pursued/instituted by the above Successful Bidder shall be taken into consideration.

We further declare that our present guarantee shall remain in full force and effect, until any and all obligations assumed by the Successful Bidder by virtue of his performance in the above CONTRACT and its supplements are fulfilled but however not later than 5 years from the date of

issue of the Purchase Order in the above Bid/ Tender No.--- will have been fulfilled, to the satisfaction of the Beneficiary and this letter/Bond of Guarantee be returned to us together with a declaration from you releasing us from the present guarantee expressly. Further, we declare that we SHALL extend the validity of this guarantee, at your request, made in writing prior to the expiry date of this guarantee.

This Guarantee shall be governed by the laws of India.

Authorized Signatory

ISSUING BANK WITH SEAL

# INTEGRITY PACT

## Between

Bharat Heavy Electricals Ltd. (BHEL), a company registered under the Companies Act 1956 and having its registered office at "BHEL House", Siri Fort, New Delhi – 110049 (India) hereinafter referred to as "The Principal", which expression unless repugnant to the context or meaning hereof shall include its successors or assigns of the ONE PART

## and

_____, (description of the party along with address), hereinafter referred to as "The Bidder/ Contractor" which expression unless repugnant to the context or meaning hereof shall include its successors or assigns of the OTHER PART

## Preamble

The Principal intends to award, under laid-down organizational procedures, contract/s for

_____

_____

_____. The Principal values full compliance with all relevant laws of the land, rules and regulations, and the principles of economic use of resources, and of fairness and transparency in its relations with its Bidder(s)/ Contractor(s).

In order to achieve these goals, the Principal will appoint Independent External Monitor(s), who will monitor the tender process and the execution of the contract for compliance with the principles mentioned above.

# Section 1 – Commitments of the Principal

1.1 The Principal commits itself to take all measures necessary to prevent corruption and to observe the following principles:-

1.1.1 No employee of the Principal, personally or through family members, will in connection with the tender for, or the execution of a contract, demand, take a promise for or accept, for self or third person, any material or immaterial benefit which the person is not legally entitled to.

1.1.2 The Principal will, during the tender process treat all Bidder(s) with equity and reason. The Principal will in particular, before and during the tender process, provide to all Bidder(s) the same information and will not provide to any Bidder(s) confidential / additional information through which the Bidder(s) could obtain an advantage in relation to the tender process or the contract execution.

1.1.3 The Principal will exclude from the process all known prejudiced persons.

1.2 If the Principal obtains information on the conduct of any of its employees which is a penal offence under the Indian Penal Code 1860 and Prevention of Corruption Act 1988 or any other statutory penal enactment, or if there be a substantive suspicion in this regard, the Principal will inform its Vigilance Office and in addition can initiate disciplinary actions.

# Section 2 – Commitments of the Bidder(s)/ Contractor(s)

2.1 The Bidder(s)/ Contractor(s) commit himself to take all measures necessary to prevent corruption. He commits himself to observe the following principles during his participation in the tender process and during the contract execution.

2.1.1 The Bidder(s)/ Contractor(s) will not, directly or through any other person or firm, offer, promise or give to the Principal or to any of the Principal's employees involved

in the tender process or the execution of the contract or to any third person any material, immaterial or any other benefit which he / she is not legally entitled to, in order to obtain in exchange any advantage of any kind whatsoever during the tender process or during the execution of the contract.

2.1.2   The Bidder(s)/ Contractor(s) will not enter with other Bidder(s) into any illegal or undisclosed agreement or understanding, whether formal or informal. This applies in particular to prices, specifications, certifications, subsidiary contracts, submission or non-submission of bids or any other actions to restrict competitiveness or to introduce cartelization in the bidding process.

2.1.3   The Bidder(s)/ Contractor(s) will not commit any penal offence under the relevant IPC/ PC Act; further the Bidder(s)/ Contractor(s) will not use improperly, for purposes of competition or personal gain, or pass on to others, any information or document provided by the Principal as part of the business relationship, regarding plans, technical proposals and business details, including information contained or transmitted electronically.

2.1.4   The Bidder(s)/ Contractor(s) will, when presenting his bid, disclose any and all payments he has made, and is committed to or intends to make to agents, brokers or any other intermediaries in connection with the award of the contract.

2.2   The Bidder(s)/ Contractor(s) will not instigate third persons to commit offences outlined above or be an accessory to such offences.

## Section 3 – Disqualification from tender process and exclusion from future contracts

If the Bidder(s)/ Contractor(s), before award or during execution has committed a transgression through a violation of Section 2 above, or acts in any other manner such as to put his reliability or credibility in question, the Principal is entitled to disqualify the Bidder(s)/ Contractor(s) from the tender process or take action as per the separate "Guidelines on Banning of Business dealings with Suppliers/ Contractors". framed by the Principal.

## Section 4 – Compensation for Damages

4.1  If the Principal has disqualified the Bidder from the tender process prior to the award according to Section 3, the Principal is entitled to demand and recover the damages equivalent Earnest Money Deposit/Bid Security.

4.2  If the Principal has terminated the contract according to Section 3, or if the Principal is entitled to terminate the contract according to section 3, the Principal shall be entitled to demand and recover from the Contractor liquidated damages equivalent to 5% of the contract value or the amount equivalent to Security Deposit/Performance Bank Guarantee, whichever is higher.

## Section 5 – Previous Transgression

5.1  The Bidder declares that no previous transgressions occurred in the last 3 years with any other company in any country conforming to the anti-corruption approach or with any other Public Sector Enterprise in India that could justify his exclusion from the tender process.

5.2 If the Bidder makes incorrect statement on this subject, he can be disqualified from the tender process or the contract, if already awarded, can be terminated for such reason.

## Section 6 – Equal treatment of all Bidders/ Contractors/ Sub-contractors

6.1 The Bidder(s)/ Contractor(s) undertake(s) to obtain from all subcontractors a commitment consistent with this Integrity Pact and report Compliance to the Principal. This commitment shall be taken only from those sub-contractors whose contract value is more than 20 % of Bidder's/ Contractor's contract value with the Principal. The Bidder(s)/ Contractor(s) shall continue to remain responsible for any default by his Sub-contractor(s).

6.2 The Principal will enter into agreements with identical conditions as this one with all Bidders and Contractors.

6.3 The Principal will disqualify from the tender process all bidders who do not sign this pact or violate its provisions.

## Section 7 – Criminal Charges against violating Bidders/ Contractors /Sub-contractors

If the Principal obtains knowledge of conduct of a Bidder, Contractor or Subcontractor, or of an employee or a representative or an associate of a Bidder, Contractor or Subcontractor which constitutes corruption, or if the Principal has substantive suspicion in this regard, the Principal will inform the Vigilance Office.

## Section 8 –Independent External Monitor(s)

8.1 The Principal appoints competent and credible Independent External Monitor for this Pact. The task of the Monitor is to review independently and objectively, whether and to what extent the parties comply with the obligations under this agreement.

8.2 The Monitor is not subject to instructions by the representatives of the parties and performs his functions neutrally and independently. He reports to the CMD, BHEL.

8.3 The Bidder(s)/ Contractor(s) accepts that the Monitor has the right to access without restriction to all contract documentation of the Principal including that provided by the Bidder(s)/ Contractor(s). The Bidder(s)/ Contractor(s) will grant the monitor, upon his request and demonstration of a valid interest, unrestricted and unconditional access to his contract documentation. The same is applicable to Sub-contractor(s). The Monitor is under contractual obligation to treat the information and documents of the Bidder(s)/ Contractor(s) / Sub-contractor(s) with confidentiality.

8.4 The Principal will provide to the Monitor sufficient information about all meetings among the parties related to the contract provided such meetings could have an impact on the contractual relations between the Principal and the Contractor. The parties offer to the Monitor the option to participate in such meetings.

8.5 As soon as the Monitor notices, or believes to notice, a violation of this agreement, he will so inform the Management of the Principal and request the Management to discontinue or take corrective action, or heal the situation, or to take other relevant action. The Monitor can in this regard submit non-binding recommendations. Beyond this, the Monitor has no right to demand from the parties that they act in a specific manner, refrain from action or tolerate action.

8.6 The Monitor will submit a written report to the CMD, BHEL within 8 to 10 weeks from the date of reference or intimation to him by the Principal and, should the occasion arise, submit proposals for correcting problematic situations.

8.7 The CMD, BHEL shall decide the compensation to be paid to the Monitor and its terms and conditions.

8.8 If the Monitor has reported to the CMD, BHEL, a substantiated suspicion of an offence under relevant IPC / PC Act, and the CMD, BHEL has not, within reasonable time, taken visible action to proceed against such offence or reported it to the Vigilance Office, the

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Monitor may also transmit this information directly to the Central Vigilance Commissioner, Government of India.

8.9 The number of Independent External Monitor(s) shall be decided by the CMD, BHEL.

8.10 The word 'Monitor' would include both singular and plural.

## Section 9 – Pact Duration

9.1 This Pact begins and shall be binding on and from the submission of bid(s) by bidder(s). It expires for the Contractor 12 months after the last payment under the respective contract and for all other Bidders 6 months after the contract has been awarded.

9.2 If any claim is made / lodged during this time, the same shall be binding and continue to be valid despite the lapse of this pact as specified as above, unless it is discharged/ determined by the CMD, BHEL.

## Section 10 – Other Provisions

10.1 This agreement is subject to Indian Laws and jurisdiction shall be registered office of the Principal, i.e. New Delhi.

10.2 Changes and supplements as well as termination notices need to be made in writing. Side agreements have not been made.

10.3 If the Contractor is a partnership or a consortium, this agreement must be signed by all partners or consortium members.

10.4 Should one or several provisions of this agreement turn out to be invalid, the remainder of this agreement remains valid. In this case, the parties will strive to come to an agreement to their original intentions.

10.5 Only those bidders/ contractors who have entered into this agreement with the Principal would be competent to participate in the bidding. In other words, entering into this agreement would be a preliminary qualification.

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For & On behalf of the Principal                 For & On behalf of the Bidder/ Contractor

(Office Seal)                                              (Office Seal)

Place----------------------

Date----------------------

Witness: _____          Witness: _____

(Name & Address) _____          (Name & Address)_____

_____          _____

| Project Phase | Deliverables | Payment(%) | Implemented Locations | Schedule | Criteria for Payment |
|---|---|---|---|---|---|
| Project Preparation | Section 9.12.1 | NIL | - | Actual Completion | Acceptance of all deliverables by Owner. |
| Business Blueprint | Section 9.12.2 | 10% | | Actual Completion | Acceptance of all deliverables by Owner. |
| Realization | Section 9.12.3 | 5% | | Actual Completion | Acceptance of all deliverables by Owner. |
| Phase-I Final Preparation & Go-Live | Section 9.12.4, 9.12.5 | 9% | HEP Bhopal, RMSG (Previously PDX, Bhopal) | Actual Completion | Acceptance of all deliverables by Owner. |
| Phase-I Final Preparation & Go-Live | Section 9.12.4, 9.12.5 | 9% | HEEP, Haridwar<br>CFFP, Haridwar | Actual Completion | Acceptance of all deliverables by Owner. |
| Phase-I Final Preparation & Go-Live | Section 9.12.4, 9.12.5 | 9% | HPBP Trichy<br>SSTP Trichy<br>Thirumayam Plant<br>IVP Goindwal<br>HPVP, Visakhapatnam | Actual Completion | Acceptance of all deliverables by Owner. |
| Phase-I Final Preparation & Go-Live | Section 9.12.4, 9.12.5 | 5% | **Power Sector**<br>Marketing, New Delhi<br>PEM – Project Engineering Management, Noida<br>One of the 4 PS regions including all its sites<br>Project Management Group, New Delhi<br>**Others**<br>Industry sector New Delhi<br>International operations New Delhi<br>Spares & Services Business group, New Delhi | Actual Completion | Acceptance of all deliverables by Owner. |
| Phase-I Final Preparation & Go-Live | Section 9.12.4, 9.12.5 | 4% | **Corporate Functions**<br>CEPD – Corporate Engineering and Product Development<br>Corporate Finance<br>Corporate Monitoring<br>Corporate MM<br>CMT&IP – Corporate Manufacturing Technology & Investment Planning<br>Corporate Planning & Development<br>Corporate Quality<br>Advanced Research Projects | Actual Completion | Acceptance of all deliverables by Owner. |
| Phase-II Final Preparation & Go-Live | Section 9.12.4, 9.12.5 | 5% | BAP Ranipet | Actual Completion | Acceptance of all deliverables by Owner. |
| Phase-II Final Preparation & Go-Live | Section 9.12.4, 9.12.5 | 5% | Jhansi | Actual Completion | Acceptance of all deliverables by Owner. |
| Phase-II Final Preparation & Go-Live | Section 9.12.4, 9.12.5 | 5% | EMRP Mumbai<br>HERP Varanasi<br>IP, CSU Jagdishpur<br>CFP Rudrapur | Actual Completion | Acceptance of all deliverables by Owner. |

| Project Phase | Deliverables | Payment(%) | Implemented Locations | Schedule | Criteria for Payment |
|---|---|---|---|---|---|
| Phase-II Final Preparation & Go-Live | Section 9.12.4, 9.12.5 | 5% | Corporate Functions<br>Corporate R&D, Hyderabad<br>CMG, New Delhi<br>**Power Sector**<br>PSHQ – Power sector head quarter, New Delhi<br>Balance PS regions including all their sites<br>**System Integrators**<br>ISG – Industrial systems group – Bangalore<br>TBG – Transmission Business group – Delhi<br>**Others**<br>ROD – Regional operations division (HQ - New Delhi and Offices)<br>Industrial operations<br>HRDI, Noida | Actual Completion | Acceptance of all deliverables by Owner. |
| Phase-III Final Preparation & Go-Live | Section 9.12.4, 9.12.5 | 9% | HPEP Hyderabad unit<br>PESD Hyderabad | Actual Completion | Acceptance of all deliverables by Owner. |
| Phase-III Final Preparation & Go-Live | Section 9.12.4, 9.12.5 | 5% | EDN Bangalore<br>EPD Bangalore | Actual Completion | Acceptance of all deliverables by Owner. |
| Business Intelligence & Dashboards – Corporate MIRs | Section 9.13 | 10% | Owner's all locations & Corporate | Actual Completion | Acceptance of all deliverables by Owner. |
| Center of Excellence | Section 9.14 | 5% | Owner's central location | Actual Completion | Acceptance of all deliverables by Owner. |
| | | | | | |

*Security Deposit & Contract Performance Bond will be retained by the Owner till the Completion of Post Go-Live Support (section 8.8.2) period or 48 months from start of Project, whicever is later, as certified by Owner.*

*\*\* Security Deposit & Contract Performance Bond shall be invoked by the Owner in case of:*
*(a) Non-performance of any scope of Contract entered into with the Owner till commencement of Post Go-Live Support (section 8.8.2) period, duly certified by the Owner*
*(b) Non-provision of support services during Post Go-Live Support (section 8.8.2) period  (ref. section 8.8)*
*(b) Non-rectification of problems arising during Post Go-Live Support (section 8.8.2) period (ref. section 8.8)*

*\*\* Owner reserves the right to change the roll-out locations during final discussion with Successful Bidder depending on the ease of roll-out and geographical constraints without any implications on overall timeframe & payments.*

## Annexure #29 Post Go-Live Support Price

| S. No. | Component | Price in INR | Total amount in words |
|--------|-----------|--------------|-----------------------|
| 1 | Post Go-Live Support Price for a period of 1 (One) year after the completion of sustenance support for Business Intelligence & Dashboards - CORPORATE MIRs or after expiry of 36 months from start of Project, whichever is later. | | |
| TOTAL | | | |

## Annexure #30 License Price Percentage (%)

| S. No. | Component | Percentage (%) of Total Price |
|---|---|---|
| 1 | License Price (ERP licenses, add-on engines & 3$^{rd}$ party software, if any) | |

## Terms & Conditions of Reverse Auction

Against this enquiry for the subject item/ system with detailed scope of supply as per enquiry specifications, BHEL may resort to "REVERSE AUCTION PROCEDURE" i.e., ON LINE BIDDING (THROUGH A SERVICE PROVIDER). The philosophy followed for reverse auction shall be English Reverse (No ties).

1. For the proposed reverse auction, technically and commercially acceptable bidders only shall be eligible to participate.

2. Those bidders who have given their acceptance for Reverse Auction (quoted against this tender enquiry) will have to necessarily submit 'online sealed bid' in the Reverse Auction. Non-submission of 'online sealed bid' by the bidder for any of the eligible items for which techno-commercially qualified, will be considered as tampering of the tender process and will invite action by BHEL as per extant guidelines in vogue.

3. BHEL will engage the services of a service provider who will provide all necessary training and assistance before commencement of on line bidding on internet.

4. In case of reverse auction, BHEL will inform the bidders the details of Service Provider to enable them to contact & get trained.

5. Business rules like event date, time, bid decrement, extension etc. also will be communicated through service provider for compliance.

6. Bidders have to fax the Compliance form (annexure IV) before start of Reverse auction.  Without this, the bidder will not be eligible to participate in the event.

7. In line with the NIT terms, BHEL will provide the calculation sheet (e.g., EXCEL sheet) which will help to arrive at "Total Cost to BHEL" like Packing & forwarding charges, Taxes and Duties, Freight charges, Insurance, Service Tax for Services and loading factors (for non-compliance to BHEL standard Commercial terms & conditions) for each of the bidder to enable them to fill-in the price and keep it ready for keying in during the Auction.

8. Reverse auction will be conducted on scheduled date & time.

9. At the end of Reverse Auction event, the lowest bidder value will be known on auction portal.

Annexure #31 Reverse Auction Guidelines

10. The lowest bidder has to fax/e-mail the duly signed and filled-in prescribed format for price breakup including that of line items, if required, (Annexure VII) as provided on case-to-case basis to Service provider within two working days of Auction without fail.

11. In case BHEL decides not to go for Reverse Auction procedure for this tender enquiry, the Price bids and price impacts, if any, already submitted and available with BHEL shall be opened as per BHEL's standard practice.

12. Bidders shall be required to read the "Terms and Conditions" section of the auctions site of Service provider, using the Login IDs and passwords given to them by the service provider before reverse auction event. Bidders should acquaint themselves of the 'Business Rules of Reverse Auction', which will be communicated before the Reverse Auction.

13. If the Bidder or any of his representatives are found to be involved in Price manipulation/ cartel formation of any kind, directly or indirectly by communicating with other bidders, action *as per extant BHEL guidelines*, shall be initiated by BHEL and the results of the RA scrapped/ aborted.

14. The Bidder shall not divulge either his Bids or any other exclusive details of BHEL to any other party.

15. In case BHEL decides to go for reverse auction, the H1 bidder(s) (whose quote is highest in online sealed bid) may not be allowed to participate in further RA process.

**Business Rules for Reverse Auction**

This has reference to tender no **{tender number….date…}**. BHEL shall finalise the Rates for the supply of {*item name*} through Reverse Auction mode. BHEL has made arrangement with M/s. {*Service provider*}, who shall be BHEL's authorized service provider for the same. Bidders should please go through the guidelines given below and submit acceptance of the same.

The technical & commercial terms are as per (a) BHEL Tender Enq. No. {…} dated {...}, (b) Bidders' technical & commercial bid (in case of two part bid) and (c) subsequent correspondences between BHEL and the bidders, if any.

1. **Schedule for reverse auction:** The Reverse Auction is tentatively scheduled on {*date*}:
   - **Online Sealed Bid:-**
   ● {*Start Time*:
   ● *Close Time:* }
   - **Online Reverse Auction:-**
   ● {*Start Time*:
   ● *Close Time:*}

2. **Auction extension time:** If a bidder places a bid in the last {…} minutes of closing of the Reverse Auction and if that bid gets accepted, then the auction's duration shall get extended automatically for another {…} minutes, for the entire auction (i.e. for all the items in the auction), from the time that bid comes in. Please note that the auto-extension will take place only if a bid comes in those last {…} minutes and if that bid gets accepted as the lowest bid. If the bid does not get accepted as the lowest bid, the auto-extension will not take place even if that bid might have come in the last {…} minutes. In case, there is no bid in the last {…} minutes of closing of Reverse Auction, the auction shall get closed automatically without any extension. However, bidders are advised not to wait till the last minute or last few seconds to enter their bid during the auto-extension period to avoid complications related with internet connectivity, network problems, system crash down, power failure, etc.

   The above process will continue till completion of Reverse Auction.

   Complaints/ Grievances, if any, regarding denial of service or any related issue should be given in writing thru e-mail/ fax to M/s. {Service provider} with a copy to BHEL within 15 minutes from the initial closing time of Online Reverse Auction.

3. **Bid price:** The Bidder has to quote the F.O.R. destination Price inclusive of Packing & Forwarding charges, all the routine & type tests as per tender scope, ED + cess, CST against C-form, Freight (bidder to provide original Freight paid receipt), insurance charges, etc. including loading (if indicated by BHEL due to deviations in commercial terms) for the Items specified. Details are as shown in Excel Sheet for calculation of Landed cost.

Note: For the consideration of L1 bidder, the bid value shall be reduced by loading amount, if applicable.

4. **Bidding currency and unit of measurement:** Bidding will be conducted in {*Indian Rupees* per *Unit*} of the material as per the specifications {...}

   In case of foreign currency bids, exchange rate (TT selling rate of State Bank of India) as on scheduled date of tender opening (Part-I bid in case of two part bid) shall be considered for conversion in Indian Rupees.

5. **Validity of bids:** Price shall be valid for {... *days*} from the date of reverse auction. These shall not be subjected to any change whatsoever.

6. **Lowest bid of a bidder**: In case the bidder submits more than one bid, the lowest bid at the end of Online Reverse Auction will be considered as the bidder's final offer to execute the work.

7. **Post auction procedure**: BHEL will proceed with the Lowest Bid in the Reverse Auction for further processing.

8. **Procedure of Reverse Auctioning**

   i. **Online Sealed Bid:** This duration of online sealed bid will be *{…}* minutes. All bidders to submit their online sealed bids during this period.

   ii. **Online Reverse Auction**: The 'opening price' i.e. start price for RA and 'bid decrement' will be decided by BHEL.

   iii. If BHEL decides the lowest online sealed bid as the starting price, then the lowest bidder in online sealed bid shall be shown as current L1 automatically by the system and no acceptance of that price is required. System shall have the provision to indicate this bid as current L1.

   iv. Bidders by offering a minimum bid decrement or the multiples thereof can displace a standing lowest bid and become "L1" and this continues as an iterative process.

   v. After the completion of the online reverse auction, the Closing Price (CP) shall be available for further processing.

9. If no bid is received in the auction system/ website within the specified time duration of the online RA, then BHEL will scrap the online reverse auction process and proceed with the conventional mode of tendering (opening of the envelope sealed bids earlier submitted by the bidders).

In cases where no bidder accepts the start price, the RA may be treated as failed and sealed envelope price bids of all the techno-commercially qualified bidders shall be opened and the tender processed accordingly. Wherever the techno-commercially acceptable bidder(s) had agreed to participate in the RA and had failed to submit the online sealed bid, the envelope sealed bids of such bidder(s) shall not be entertained.

Wherever, the evaluation is done for individual items of the package, and no bid is received for some of the item(s), RA will be considered as failed for these item(s), re-reverse auction/ retendering will be conducted for these items.

10. Only those bidders who have submitted the 'online sealed bid' within the scheduled time shall be eligible to participate further in RA process. However, the H1 bidder(s) (whose quote is highest in online sealed bid) may not be allowed to participate in further RA process.

11. Any commercial/ technical loading shall be intimated to bidders prior to RA. The excel sheet provided in this regard shall cover all these aspects. Commercial/ technical loading if any, shall be added by the respective bidder in its price during online sealed bid & Online Reverse Auction. Modalities of loading & de-loading shall be separately intimated to the bidders.

12. Computerized reverse auction shall be conducted by BHEL (through M/s {*Service Provider*}), on pre-specified date, while the bidders shall be quoting from their own offices/ place of their choice. Internet connectivity shall have to be ensured by bidders themselves.

During the RA if a bidder is not able to bid and requests for extension of time by fax/ e-mail/ phone then time extension of additional 15 minutes will be given by the service provider provided such requests come before 5 minutes of auction closing time. However, only one such request per bidder can be entertained.

Despite this extension if bidder fails to upload his prices due to extreme case of failure of Internet connectivity, (due to any reason whatsoever may be) it is the bidders' responsibility/ decision to send fax communication immediately to M/s. {*Service provider*}, furnishing the price the bidder wants to bid online with a request to the service provider to upload the faxed price on line so that the service provider will up load that price on line on behalf of the Bidder. It shall be noted clearly that the concerned bidder communicating this price to service provider has to solely ensure that the fax message is received by the service provider in a readable/ legible form and also the Bidder should simultaneously check up with service provider about the clear receipt of the price faxed. It shall also be

clearly understood that the bidder shall be at liberty to send such fax communications of prices to be up loaded by the service provider only within the closure of Bid time and under no circumstance it shall be allowed beyond the closure of Bid time /reverse auction. It shall also be noted that the service provider should be given a reasonable required time by the bidders, to upload such prices online and if such required time is not available at the disposal of the Service provider at the time of receipt of the fax message from the bidders, the service provider will not be uploading the prices and either BHEL or the service provider are not responsible for this unforeseen circumstances. In order to ward-off such contingent situation bidders are requested to make all the necessary arrangements/ alternatives whatever required so that they are able to circumvent such situation and still be able to participate in the reverse auction successfully. Failure of power or loss of connectivity at the premises of bidders during the Reverse auction cannot be the cause for not participating in the reverse auction. On account of this, the time for the auction cannot be extended and neither BHEL nor M/s. {*Service provider*} is responsible for such eventualities.

13. Proxy bids: Proxy bidding feature is a pro-bidder feature to safe guard the bidder's interest of any internet failure or to avoid last minute rush. The proxy feature allows bidders to place an automated bid in the system directly in an auction and bid without having to enter a new amount each time a competing bidder submits a new offer. The bid amount that a bidder enters is the minimum that the bidder is willing to offer. Here the software bids on behalf of the bidder. This obviates the need for the bidder participating in the bidding process until the proxy bid amount is decrementally reached by other bidders. When proxy bid amount is reached, the bidder (who has submitted the proxy bid) has an option to start participating in the bidding process.

The proxy amount is the minimum amount that the bidder is willing to offer. During the course of bidding, the bidder cannot delete or change the amount of a proxy bid.

Bids are submitted in decrements (decreasing bid amounts). The application automates proxy bidding by processing proxy bids automatically, according to the decrement that the auction originator originally established when creating the auction, submitting offers to the next bid decrement each time a competing bidder bids, regardless of the fact whether the competing bids are submitted as proxy or standard bids. However, it may please be noted that if a manual bid and proxy bid are submitted at the same instant manual bid will be recognized as the L1 at that instant.

In case of more than one proxy bid, the system shall bid till it crosses the threshold value of 'each lowest proxy bid' and thereafter allow the competition to decide the final L1 price.

Proxy bids are fed into the system directly by the respective bidders. As such this information is privy only to the respective bidder(s).

14. Bidders are advised to get fully trained and clear all their doubts such as refreshing of Screen, quantity being auctioned, tender value being auctioned etc.

15. M/s. {*Service provider*}, shall arrange to demonstrate/ train the bidder or bidder's nominated person(s), without any cost to bidders. M/s. {*Service provider*}, shall also explain the bidders, all the rules related to the Reverse Auction/ Business Rules Document to be adopted along with bid manual. Bidders are required to give their compliance on it before start of bid process.

16. Successful bidder shall be required to submit the final prices, quoted during the Online Reverse Auction in *Annexure - VII* after the completion of auction to M/s. *Service provider* besides BHEL, duly signed and stamped as token of acceptance without any new condition other than those already agreed to before start of auction.

17. Any variation between the final bid value and that in the confirmatory signed price breakup document will be considered as tampering the tender process and will invite action by BHEL as per extant guidelines in vogue.

18. Bidders' bid will be taken as an offer to execute the work/ supplies the item as per enquiry no. *{…}* dt. *{…}*. Bids once made by the bidder, cannot be cancelled/ withdrawn and bidder shall be bound to execute the work as mentioned above at bidder's final bid price. Should bidder back out and not execute the contract as per the rates quoted, BHEL shall take action as per extant guidelines in vogue.

19. Bidders shall be assigned a **Unique User Name** & **Password** by BHEL or M/s*. {Service provider}. Bidders* are advised to change the Password and edit the information in the Registration Page after the receipt of initial Password from BHEL/ M/s. {*Service provider}* to ensure confidentiality. All bids made from the Login ID given to the bidders will be deemed to have been made by the bidders/ bidders' company.

20. Bidders shall be able to view the following on their screen along with the necessary fields during Online Reverse Auction:

a. Leading (Running Lowest) Bid in the Auction (only total price of package)
b. Bid Placed by the bidder
c. Start Price
d. Decrement value

21. After receipt of the system report from the Service Provider after completion of the Online Reverse Auction, BHEL will decide upon the winner. BHEL's decision on award of contract shall be final and binding on all the Bidders.

22. BHEL reserves the right to cancel the Reverse Auction process/ tender at any time, before ordering, without assigning any reason.

23. BHEL shall not have any liability to bidders for any interruption or delay in access to the site irrespective of the cause. In such cases, the decision of BHEL shall be binding on the bidders.

24. Other terms and conditions shall be as per bidder's techno-commercial offers and other correspondences, if any, till date.

25. Bidders are required to submit their acceptance to the terms/ conditions/ modalities before participating in the Reverse Auction in the process compliance Form as per *Annexure-IV*.

26. BHEL can decide to extend, reschedule or cancel any Auction with prior intimation to all bidders.

27. If there is any clash between this business document and the FAQ available, if any, in the web site of M/s. {*Service provider*} the terms& conditions given in this business document will supercede the information contained in the FAQs. Any changes made by BHEL/ service provider (due to unforeseen contingencies) after the first posting shall be deemed to have been accepted if the bidder continues to access the portal after that time.

**Process Compliance Form**
**(The bidders are required to print this on their company's letterhead and sign, stamp before faxing)**

To
- M/s. {*Service provider*
- *Postal address}*

**Sub:  Agreement to the Process related Terms and Conditions**
Dear Sir,
This has reference to the Terms & Conditions for the Reverse Auction mentioned in the RFQ document for {Items} against BHEL enquiry/ RFQ no.{………} dt. {…….}
This letter is to confirm that:
1) The undersigned is authorized official/ representative of the company to participate in RA and to sign the related documents.
2) We have studied the Reverse Auction Terms & Conditions and the Business rules governing the Reverse Auction as mentioned in your letter and confirm our agreement to them.
3) We also confirm that we have taken the training on the auction tool and have understood the functionality of the same thoroughly.

4) We also confirm that, in case we become L1 bidder, we will email/ fax the price confirmation & break up of our quoted price (including that of line items) as per *Annexure - VII* within **two** working days (of BHEL) after completion of RA event, besides sending the same by registered post/ courier both to M/s. BHEL and M/s. {*Service provider.}*
We, hereby confirm that we will honor the Bids placed by us during the auction process.

With regards

Signature with company seal

Name –
Company / Organization
Designation within Company / Organization
Address of Company / Organization

- Sign this document and Fax it to M/s *{Service provider}* at *{….….}* prior to start of the Event.

- Attach a signed copy of the RFQ document along with the Agreement Form/ Process Compliance form and send to M/s. {*Service provider}*

## RA price confirmation and breakup

**To**

- **M/s.** *Service provider*
- *Postal address*

CC: M/s BHEL
      *{Unit-*
      *Address-}*
Sub: **Final price quoted during Reverse Auction and price breakup**

Dear Sir,

We confirm that we have quoted.

**Rs.{_____}     for item covered under tender enquiry No. {...} dt.{…}**

Total price of the items covered under above cited enquiries is inclusive of *{Packing & forwarding, E.D., C.S.T., freight and insurance charges upto {…………} District,{………..} State and Type Test Charges etc., (exclusive of service tax), other as per NIT}*

as our final landed prices as quoted during the Reverse Auction conducted today *{date}* which will be valid for a period of {_____} days.

The price break-up including that of line items is as given below.

                                                   ========
Total                                       -      Rs.
                                                   ========

Thanking you and looking forward to the valuable order from BHEL.

Yours sincerely,

For _____

**Name:**
**Company:**
**Date:**
**Seal:**

# Annexure #32 Mobile Applications

List of Mobile Applications:

1. Inventory Management:
   i. Material receipts against Purchase Orders and issuance
   ii. Materials availability checks/status
   iii. To perform physical and cycle counts quickly and with greater accuracy
   iv. Pre-pick materials and issue, return or transfer goods electronically
   v. Speed receipt and back-order reporting to and from shipping/receiving
   vi. Receipt & Issue posting at Shop, Stores & Shipping
   vii. Material re-ordering alert when crossing the low/high availability limits
   viii. Gross inventory summary
   ix. Critical high value item shortage or surplus

2. Manager Applications:
   i. Ability of Generic workflow approvals from different business processes with a simple user interface, and a baseline for creating own approvals.
   ii. Approve requests like Leave, Travel, Timesheets, Requisitions, Payments, and Quality Checks etc.
   iii. Alerts for high priority emails, advance payments and HCM interface for regular business function requirement.
   iv. Long Lead/Critical Purchase Requisition(Indent) Status
   v. Engineering Documentation Status

3. Tracking Applications:
   i. Tracking of Purchase Orders, Shipments etc.
   ii. Assets within the company
   iii. Status change of Vendor Blocks
   iv. Material tracking

4. Finance:
   i. Access all relevant financial data for a customer – and even drill down to a single invoice
   ii. Real-time insight into accounts receivable
   iii. Account payable transactions for defined process and account type
   iv. Real Time WIP (Work In Progress) status
   v. Vendor Payment Status

5. Project Management:
   i. Project management with key features provided from the ERP solution's Project Management.

6. Business Intelligence & dashboards:
   i. Material status & Production status
   ii. Slippage of milestone or critical activities
   iii. Diversion of orders and change of top level plan

7. Quality:
   i. Ability to create quality issue on a mobile device, right when the issue is detected - SAR (Site Action Report), CAR (Customer Action Report), NCR (Non-Conformance Report) and MDR (Material Discrepancy Report) for defined activities

      ii.     Attach pictures with quality issues
      iii.    Dimension recording & clearance
      iv.    Inspection Call Booking and clearance
      v.     Quality clearance of package

8. Lookup Applications:
      i.     Employees, Customers, Materials, Purchase Orders, Vendors etc.

9. Production/Manufacturing:
      i.     Production Stage confirmation - Shop/vendor works
      ii.     Offer of stage inspection of an operation written in docket by shop
      iii.    Clearance of offer by Quality Center (QC)
      iv.    Clearance of Diversion by agencies
      v.     Customer inspection and test plan
      vi.    Job status for assembly dockets and completion

10. Maintenance
      i.     Machine break-down booking, resolution comments & closing
      ii.     Critical machines availability, loading and operator status

11. General
      i.     Visitors Gate Pass management system
      ii.     Background job scheduling/Authorisation controls for users
      iii.    High value Payment Alerts
      iv.    Vehicle IN/OUT at Gate entries by Security
      v.     Application to ensure Dispatched package delivery at site
      vi.    Access all relevant financial data summaries for (a) Unit (eg. Bhopal, Haridwar, Trichy etc), (b) Project, (c) Customer, (d) between 2 dates
      vii.    Applications Access (especially internet facing) through One time Password (OTP) on mail/mobile.
      viii.   Transport vehicle inside factory and its detail like driver, company and loading status

12. Alerts / Early Warning System
      i.     Raw material receipt, Min order quantity, Inspection report
      ii.     Project Milestone activities
      iii.    ODC Consignments despatch
      iv.    Pro-active alerts on critical Project Management activities
      v.     Total Package value dispatched everyday alert
      vi.    Two way messaging for all identified applications of this list with defined key to access data with security and authenticity
      vii.    Vehicle booking status and details
      viii.   Goods transit status for sites to concerned
      ix.    Billing details,
      x.     Cash Collection details,
      xi.    New Customer Order / Work-order Release
      xii.    Vendor Payment Status
      xiii.   DCA (Design Change Advice) Alert.
      xiv.   BG (Bank Guarantee) Expiry alert (Vendor BG/ Customers)
      xv.   Notification Alerts

13. Outsourcing
      i.     Gate entry for raw material collection, Finished Goods delivery
      ii.     Vendor Pass issue at security gate
      iii.    Bill details

# *Annexure #33 ERP Product OEM Certificate*

Date:

To:

Mr. <Contact Person Name>

   <Complete Address)

Dear Sir,

Ref.: Your Tender no._____

1.  The total 'ONE-BHEL' Solution proposed by the Implementation Partner is reviewed & vetted and meets all FRS & TRS requirements as specified in the Tender document.

2.  The contracted Licenses price(s), covering Transaction Users, Medium Users & Business Partners all add-on engines & ATS percentage will be valid for a period of 5 (five) years from the date of signing the First License buying agreement.

3.  Add-on engines have sufficient provision to meet the functionality & business requirement keeping the ERP user licenses required by BHEL.

4.  BHEL has exchange or swap rights for the ERP licenses and add-ons, permitting the future trade-in of unused licenses or add-ons in exchange for more usable licenses or add-ons of the same value with same discount being applicable.

5.  Transaction & Medium User licenses offered to BHEL shall have the right to use all the modules of the ERP (Finance, Materials Management, Inventory, Maintenance, Project Management, HR and DMS).

6.  Wherever BHEL's required functionality cannot be met using our standard ERP solution & add-on engines, 3rd Party software is included in the 'ONE-BHEL' Solution (as also captured in FRS responses),.

7.  All review & audit reports as specified in the Tender document shall be submitted directly to BHEL.


Date:

Name and Designation of Signatory:

Name of Company:

Address:

*Note: This form has to be signed by authorized signatory.*