

**Scope of work:** Pre-fabrication machining, fabrication, painting and supply of Aluminium items for **IP Busduct** as per following terms & conditions

1.	Raw material viz. Aluminium extrusion, Plate, Sheet, Flat etc. shall be supplied by BHEL under rule – 4 (5)(a) of CENVAT Credit Rule 2004 and consumables viz. Al. filler wire, spool, argon gas, paint, primer etc. are to be provided by fabricator.
2.	The rates to be quoted <b>F.O.R. BHEL, Rudrapur as well as Ex-Works</b>
	Rates to be quoted for ONE <b>YEAR</b> rate contract on labour basis, inclusive of preparation of components and all machining operations required including DP test from qualified inspector. The rates shall be valid and firm during the currency of rate contract. The rates should be quoted strictly in the format attached at <b>Annexure – II</b>
3.	The quoted rates shall be inclusive of Enamel Painting of minimum 65 micron OR Epoxy Painting minimum 50 Micron on external surface of enclosures and matt black paint as per Plant STD. no.: JS-56199 on internal surface of enclosure & external surface of conductor.
4.	No extra payment will be made for Epoxy painting up to 50 micron thickness. <b><i>Epoxy painting charges as per our process specification for above 50 micron thickness shall be paid extra for which rates are to be quoted per m<sup>2</sup> per coat per 25 micron thickness.</i></b>
5.	Applicable Drawings & Quality Assurance Plan (QAP) of BHEL shall be followed as per P.O. Sample QP no.:QP/BD/450 Rev: 02 (IPB) & QP/5107030 Rev: 01 (SPB) are enclosed for reference.
6.	<p><b>Packing &amp; Forwarding charges shall be EXCLUSIVE from</b> the basic fabrication rate. Packing shall be done as following:</p> <ol style="list-style-type: none"> <li>Finished items should be packed properly to avoid any damage during transit.</li> <li>Opening of the conductor &amp; enclosure shall be covered with polythene sheet. All holes shall be closed by cello tape or plastic cap. This will avoid ingress of dust on the conductor and enclosure.</li> <li>The silver plated portion shall be covered by wrapping with adhesive tape. Silver plated portion of conductor must be packed with wooden crate before putting inside the duct to avoid damage during transit.</li> <li>If slings are to be used to keep ducts in a position during loading on the truck and during transit, suitable material must be kept below slings to avoid abrasion on the surface of the items.</li> <li>Packing shall be done as per drawing no. Packing 006 (W.A. of IP Bus Duct) <b>attached herewith</b> and to take care during packing such that: <ul style="list-style-type: none"> <li>Both ends of ducts are covered by wooden plank to protect aluminium flanges during transit.</li> <li>Minimum 1000 to 1200 mm space to be maintained in between two planks along the length of Duct.</li> </ul> </li> <li>Supplier will put <b>identification marks</b> with punch on enclosure &amp; conductor at both ends in following sequence and fill with white paint: <ul style="list-style-type: none"> <li>WO No.</li> <li>PO No. &amp; PO Item No.</li> <li>Drg.No., Drg. Var.No.</li> <li>Drg. Item No.</li> <li>“Q” no.</li> </ul> </li> </ol>
7.	Availability of drawings / quality plan with latest revision must be ensured from Busduct Engineering, BHEL, Rudrapur before start of the work.
8.	The fabricator shall cut the sheets/plates etc. as per the cutting plan furnished by BHEL. In the

	absence of any cutting plan from BHEL, the fabricator shall cut the material in such a way that off cuts/scrap generation is minimum.								
9.	2% process loss shall be allowed as a non-returnable scrap without any deduction and 98% finished material with remaining off cuts or raw material shall be returned to BHEL Rudrapur. Chips, turning & Granules/ Powder generated during drilling, cutting and welding etc. shall be treated as non-returnable process loss. Such items shall not be accepted if returned as off cuts. Deductions will be made if off-cuts generated are not returned to BHEL.								
10.	Material collection and despatch of material from / to BHEL Rudrapur: (a) For raw material from BHEL to Sub-contractors's works: Freight & insurance shall be to <b>BHEL's A/c</b> . (b) For finished goods from Subcontractor's works to BHEL: Freight & insurance shall be to <b>BHEL's A/c OR Subcontractor's A/c</b> as per the R/C finalized i.e. Ex-Works OR F.O.R. BHEL Rudrapur								
11.	Silver Plating, wherever required shall be carried out by the silver plating parties (to be informed later) as below: (a) At Moradabad / Rudrapur: For Bareilly / U S Nagar based Vendors. (b) At Jhansi / Bhopal : For Vendors based at place other than Bareilly / U S Nagar) against our rate contract with them. To & Fro freight & Insurance from party's works to Silver Plating party's works shall be in party's scope irrespective of location of party and our silver plating supplier.								
12.	<b>SECURITY OF THE RAW MATERIALS ISSUED TO THE SUB CONTRACTOR:</b> Only the raw materials as indicated above will be issued by BHEL under the BHEL's Special Contingency Policy to the Contractor on loan basis (by weight) as per Central Excise rules, for which the contractor shall give the receipt. However, BHEL's special contingency policy does not absolve the contractor from the responsibility of safe custody and use of its material at their end. These raw materials will be returned by the contractor to BHEL, Rudrapur as finished goods by weight (enclosure, conductor etc.) after taking into consideration 2% process loss as indicated at cl. 10 above. In case of acceptance of PO, the Bank Guarantee at the following rates shall be submitted by the party towards the raw material issued by BHEL:								
	<table> <tr> <th><b><u>PSL value of material issued</u></b></th><th><b><u>Value of BG</u></b></th></tr> <tr> <td><i>Above Rs. 5.00 lakhs and upto Rs. 10 lakhs</i></td><td><i>Rs. 1.00 lakh</i></td></tr> <tr> <td><i>Above Rs. 10 lakhs and upto Rs. 50 lakhs</i></td><td><i>Rs. 5.00 lakhs</i></td></tr> <tr> <td><i>Above Rs. 50 lakhs</i></td><td><i>Rs. 10.00 lakhs</i></td></tr> </table> <i>Security deposit shall be refunded after successful completion of PO. The security deposit shall not carry any interest.</i>	<b><u>PSL value of material issued</u></b>	<b><u>Value of BG</u></b>	<i>Above Rs. 5.00 lakhs and upto Rs. 10 lakhs</i>	<i>Rs. 1.00 lakh</i>	<i>Above Rs. 10 lakhs and upto Rs. 50 lakhs</i>	<i>Rs. 5.00 lakhs</i>	<i>Above Rs. 50 lakhs</i>	<i>Rs. 10.00 lakhs</i>
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13.	<b>Payment terms :</b> 100% payment shall be made through e-transfer within 45 days of receipt and acceptance of material at our works. Payment shall be made based on Drawing weight. In no case interest for overdue period shall be borne by BHEL. Final payment will be made only after submission of Material Account Statement.								
14.	<b>Late Delivery Penalty:</b> The delivery of goods shall be made strictly as per time limit specified in delivery schedule. Failure to supply within this period will make the supplier liable to a penalty of ½% (half percent) of the price of the goods in arrears per week subject to maximum of 10% of the order value for the reasons attributable to the party. However, for the reasons beyond the control of the party or any other genuine reason, the party should apply to BHEL in writing for delivery extension before expiry of the delivery date.								
15.	The charges for radiographic testing of enclosure and conductor to be quoted as per clause 23.								
16.	General & Welding Notes : Refer Drg. No. 45415151874 Rev.00								
17.	<b>Deviation statement:</b> Deviation from the tendered scope, terms & conditions, if any, shall be clearly mentioned by the bidder in the format 'Schedule of Deviation' at <b>Annexure-III</b> only as								

	deviation mentioned elsewhere may not be considered.
18.	<p><b>BHEL reserves the following rights:</b></p> <p>(a) To enter into rate contract with more than one party. In such case, the original L-1 bidder will be awarded minimum <b>10%</b> of the work or his maximum capacity as per our delivery schedule whichever is lower. Distribution of work among the remaining bidders who accept the L-1 rates shall be done on the basis of their capacity and assessment of BHEL for supplies as per earlier performance.</p> <p>(b) To go for reverse auction with techno-commercially acceptable bidders without opening the sealed “Price Bids”, which shall be decided after techno-commercial evaluation.</p> <p>(c) To reject or accept any or all tenders or part thereof without assigning any reasons.</p> <p>(d) To extend the R/C period by 3 months.</p> <p>(e) To terminate the R/C by giving a notice of 15 days if the performance of the Vendor is found to be unsatisfactory.</p>
19.	5% of the total quantity may be assigned to Other New Developmental Vendors of local or nearby areas, if available, for the purpose of Vendor Development.
20.	Rate Contract shall be open for ordering up to <b>3 years</b> and for supplies up to 3 months after that.
21.	The rate contract can be extended for a period of 3 months.
22.	<b>Inspection:</b> Shall be done by BHEL QLY Deptt. or third party nominated by BHEL at Vendor’s works before dispatch. In the case of third party inspection for NTPC jobs, <i>charges</i> shall be payable extra. <b><i>For this purpose rates are to be quoted as %age of basic fabrication rate.</i></b> Vendor should give the inspection call in writing at least one week in advance. Vendor shall provide Test Certificates of Al. filler wire/spool used in TIG/MIG welding, and should have proper Identification Tags/Slips mentioning Order No., Item No., Material code & Qty. / Contents.
23.	<p>The charges for radiographic testing of enclosure and conductor shall be payable extra. <b><i>For the purpose rates are to be quoted as a %age of basic fabrication rate as below:</i></b></p> <p>(a) <b><i>With complete testing facilities arranged by BHEL</i></b></p> <p>(b) <b><i>With complete testing facilities arranged by Subcontractor</i></b></p>
24.	General & Welding Notes : Refer Drg. No. 45415151874 Rev.00
25.	<p>For calculating the landing cost to BHEL following “TO” freight shall be considered (as per our R/c for transportation):</p> <p>Local (50 km x Rs. 38.88 per km) ÷ 9000 = <b>Rs. 0.216 per kg.</b></p> <p>Bareilly (78 km x Rs. 69.53 per km) ÷ 15000 = <b>Rs. 0.3616 per kg.</b></p> <p>Kanpur (405 km x Rs. 40.78 per km) ÷ 15000 = <b>Rs. 1.10106 per kg.</b></p> <p>Jhansi (525 km x Rs. 40.78 per km) ÷ 15000 = <b>Rs. 1.4273 per kg.</b></p> <p>Bhopal (831 km x Rs. 31.33 per km) ÷ 15000 = <b>Rs. 1.7357 per kg.</b></p>
26.	<p>For calculating the landing cost to BHEL following “FRO” freight shall be considered, as per our R/c for transportation, considering 5 MT load in a trailer:</p> <p>Local (50 km x Rs. 116.03 per km) x 1.20 (for ODC) ÷ 6000 = <b>Rs. 1.1603 per kg.</b></p> <p>Bareilly (78 km x Rs. 116.03 per km) x 1.20 (for ODC) ÷ 6000 = <b>Rs. 1.81 per kg.</b></p> <p>Kanpur (405 km x Rs. 59.48 per km) x 1.20 (for ODC) ÷ 6000 = <b>Rs. 4.8179 per kg.</b></p> <p>Jhansi (525 km x Rs. 59.48 per km) x 1.20 (for ODC) ÷ 6000 = <b>Rs. 6.2454 per kg.</b></p> <p>Bhopal (831 km x Rs. 44.13 per km) x 1.20 (for ODC) ÷ 6000 = <b>Rs. 7.3344 per kg.</b></p>
27.	No “further subcontracting” of BHEL job work shall be allowed. If at any point of time during the currency of R/C it is found by BHEL that further subcontracting is being done by the Subcontractor(s), the R/C with said Subcontractor(s) will be terminated with immediate effect and BHEL will delist such Subcontractor(s).

**PRICE BID FORMAT AGAINST ENQUIRY NO.:** \_\_\_\_\_

**DUE FOR OPENING ON:** \_\_\_\_\_

**IP BUSDUCT**

Sl. No.	Description	Ex-Works (Rs./Kg.)	F.O.R. BHEL, Rudrapur (Rs. / Kg.)
1	Straight Enclosure		
2	Straight Conductor		
3	Tap-Off Enclosure		
3	Right Angle enclosure and conductor		
4	Z, E & UAT type Enclosure & conductor and Top & Bottom Chamber		
5	Wall Frame Assy. & Rain Hoods/Cover		

Other charges:

6	Wooden Packing charges (as a %age of basic fabrication rate)	%
7	Loading & Forwarding charges (as a %age of basic fabrication rate)	%
8	Epoxy painting charges for above 50 micron thickness (in per m <sup>2</sup> per coat per 25 micron thickness)	
9	Radiographic testing charges with BHEL's testing facility (as a %age of basic fabrication rate)	%
10	Radiographic testing charges with Subcontractor's testing facility (as a %age of basic fabrication rate)	%
11	Extra charges for 3 <sup>rd</sup> party inspection by NTPC	%
12	Any other Govt. levy / tax (as a %age of basic fabrication rate)	%

The above rates are inclusive of enamel painting up to 65 micron or epoxy painting up to 50 micron (ref. cl. 3 of terms & conditions).

**(Sign. & Seal of the Tenderer)**

**SCHEDULE OF DEVIATIONS (Enquiry \_\_\_\_\_, due on \_\_\_\_\_)**

<b>Sl. No.</b>	<b>Annexure no. &amp; clause no. of tender</b>	<b>As asked in the tender</b>	<b>As offered by the bidder</b>	<b>Reason(s) for deviation</b>

**Signature & seal of the bidder**

**QUANTITY FOR FABRICATION OF IP BUSDUCT FOR R/C FOR A PERIOD OF 1 YEAR:**

**IP BUSDUCT**

<b>Sl. No.</b>	<b>Description</b>	<b>% Off Total Weight</b>	<b>Weight in Kgs.</b>
1	Straight Enclosure	23	644000
2	Straight Conductor	18	504000
3	Tap-Off Enclosure	8	224000
3	Right Angle enclosure and conductor	40	1120000
4	Z, E & UAT type Enclosure & conductor and Top & Bottom Chamber	7	196000
5	Wall Frame Assy. & Rain Hoods/Cover	4	2800000
<b>Total Quantity</b>		<b>100</b>	<b>2800000</b>