SUB: Procurement of "SOLID CARBIDE CENTER DRILL"

NIT-Notice Inviting Tender

	etails of Notice Inviting Ter	
Sl. No.	Issue	Description
1.	Item details	As per Enquiry Annexure : L/6433/1/2733D1
2.	Issue of Tender	From BHEL eProcurement website
	Documents	https://eprocurebhel.co.in/nicgep/app
		(Tender documents will be available for downloading from BHEL e
		Procurement website till due date of submission)
3.	Due Date Of Offer	Date: 04.06.2022, Time: 13:45 hrs
	Submission	https://eprocurebhel.co.in/nicgep/app
		Offer to be submitted in online only through e-procuremen
		Portal.
		(Bidders are requested to visit website to view corrigendum,
		addenda/ amendments/ extension/ modification etc. before
		submitting offer).
4.	Opening of Tender	Date: 04.06.2022, Time: 14.00 Hrs
	(Techno-Commercial	Notes:
	Bid)	This tender being an e-tender, it shall be opened online only
		through the E-Procurement Portal. Participating bidders may
		witness the Opening online only.
5.	Cost of Tender	INR 2000.00 (If hard copy of tender document is required from
		BHEL)
6.	EMD (Earnest Money	Nil
	Deposit)	
7.	Schedule Of Pre-Bid	Not Applicable
	Discussion	
8.	Last Date of Seeking	Date: 03.06.2022, Time: 17.00 Hrs
	Clarification	Along with soft version also, addressing to undersigned & to other
		as per contact address given below.
		Bidders may consider to seek clarifications on the e-tender portal
		https://eprocurebhel.co.in/nicgep/app
9.	Intogrity Pact & Dotails	Not Applicable
9.	Integrity Pact & Details of Independent External	
	Monitor (IEM)	
10.	Make in India	For this procurement, Public procurement (preference to Make in
10.		India), Order 2017 dated 15.06.2017, 28.05.2018, 29.05.2019 &
		04.06.2020 and subsequent orders issued by the respective noda
		ministry shall not be applicable.
11.	Restrictions under rule	All provisions of order no F.No.6/18/2019-PPD of department of
	144 (xi) of General	Expenditure(DoE) shall be applicable for this tender enquiry (Orde
	Financial Rule (GFRs)	copy is available at <u>https://doe.gov.in/procurement-policy</u>
	2017	divisions). Accordingly, any bidder from a country which shares
		land border with India (except the countries to which the Gol ha
		extended lines of credit or in which the Gol is engaged in
		development projects for which list is available a
		https://www.mea.gov.in/) will be eligible to bid in this tender on
		if the bidder is registered with the Competent Authority a

Updated list of the countries to which lines of credit have extended or in which development projects are undertak available on the Ministry of External affairs w (https://www.mea.gov.in/). For the purpose of this order, definition of Bidder from a c which shares a land border with India shall be same as define the Annex III of the said order. Registration with the competent authority as stipulated in the order is responsibility of bidder. Bidder has to submit a certificate certifying following alon offer: "I have read the clause regarding restrictions on procuremer a bidder of a country which shares a land border with India; I that bidder (ken are
order is responsibility of bidder. Bidder has to submit a certificate certifying following alon offer: "I have read the clause regarding restrictions on procuremer a bidder of a country which shares a land border with India; I that bidder (•
offer: "I have read the clause regarding restrictions on procurement a bidder of a country which shares a land border with India; I that bidder (he said
a bidder of a country which shares a land border with India; I that bidder (ng with
India evidence of valid registration by the Competent Au shall also be attached along with offer.12.E-InvoiceVendor Contract clause regarding GST ITC and provision	l certify such a vith the
0 0 1	
	for E-
E-invoicing under GST is being implemented w.e.f. 01.04.20 all the taxable persons having turnover more than Rs. 50 Cr been specified by the Govt. that it is mandatory to mention unique Invoice Reference No. (IRN) and QR code as generate Govt. portal on a Tax Invoice. Based on such information, G as claimed by BHEL in GST Returns shall be matched wi corresponding details uploaded by supplier in E-invoicing Sys In case the vendor /contractor delays or fails to provide documents as per the Purchase order / Work Order at the t submitting Tax invoice to BHEL, any subsequent financial BHEL on account of vendor/contractor shall be to vend contractor's account. BHEL has further right to take necessar to protect its interest at the time of release of payment further requires inclusion of IRN and QR code on tax invo announced by Govt. of India w.e.f. 01.04.2021.	r. It has a valid ed from GST ITC ith the stem. all the time of loss to dor's / ry steps nt. This
13. Reverse Auction Not applicable	
	portal

Please submit your offer only for the above requirement subject to our **GENERAL INSTRUCTIONS AND STANDARD TERMS & CONDITIONS (GISTC: Version June-21, Rev: 06).** Please visit our site <u>www.hwr.bhel.com</u> for General Instructions and Standard Terms & Conditions (GISTC) for Tender Enquiries. All the bidders/vendors must ensure compliance of these GISTC. GISTC can also be referred by login to B2B Portal for Registered Vendors.

Tender Fee - INR 2000.00 (If hard copy of tender document is required from BHEL) EMD –Not Applicable

E-Procurement Portal Inputs

Procedure for Submission of Offer for E – Tender-Procedure for Submission of Tender is available in the "Bidder Manual for BHEL Bidders" at E-tender portal https://eprocurebhel.co.in/nicgep/app. Terms and conditions mentioned therein shall form integral part of the NIT and bidders shall abide by the same.

1. Hardware and Software requirements for participating in e-tender

Please refer the website for the minimum system requirements and setting document for Bidders under the link: https://eprocurebhel.co.in/nicgep/app

2. Digital Signature

To know the procedure for obtaining Digital Signature Certificate (DSC), suppliers who are not having the DSC are advised to visit our website http://www.bhel.com/home.php/Tender Notifications/Sample Checklist.

3. NIC portal Helpdesk Contacts

For any technical related queries please call at 24 x 7 Help Desk Number 0120-4001 002 0120-4200 462 0120-4001 005 0120-6277 787 International bidders are requested to prefix 91 as country code

<u>Email Support</u> Address: A) For any Issues or Clarifications relating to the published tenders, bidders are requested to contact the respective Tender Inviting Authority Technical - <u>support-eproc@nic.in</u>

4. Note

Offers/tenders submitted in the E-tender portal shall only be considered for further evaluation. Offers sent by FAX / E-mail / any mode other than E-tender would not be entertained.

The Tenderers must submit their Tenders, as detailed below:

SPECIAL NOTE: All documents to be submitted should be uploaded in respective places in the E-Tender portal as per the list mentioned given in this NIT. BHEL shall not be responsible for incomplete documents. For new vendors not registered with us **(Applicable only for open tender)**, kindly furnish copy of following documents:

- Company Name and Address Proof.
- GST Number (Scan Copy of Acknowledgement)
- PAN Copy
- MSME Certificate (UAN, Udyam if Any)

Commercial Term & Condition Compliance

Tender Reference No.	L/6433/2021/2733/D1, Due date: 04.06.2022		
Item Description	SOLID CARBIDE CENTER DRILL		
Vendor Name			
Quotation Reference no.	Date		

<u>SI.</u>	Techno-Commercial terms	Vendor
<u>No.</u>		Confirmation
1.	Please specify whether you are manufacturer or Trader of the item.	
2.	Material will be supplied as per BHEL Specification mentioned in enquiry.	
	Manufacturing, Testing and Certification will be as per ordering specification, if not	
	accepted, then mention deviation.	
3.	For Indian Bidder, Delivery Terms:	
	(BHEL Standard term: FOR Destination means CPS/HEEP/ BHEL Haridwar)	
	For Foreign Bidder, Delivery Terms: CIF Nhava Sheva Sea Port.	
	If any other delivery terms (FCA/FOB etc), Pl. mention	
4.	For Indian Bidder, Despatch mode: (BHEL Standard term: Through BHEL approved	
	transporter only)	
	For Foreign Bidder, Despatch mode : SEA/AIR	
5.	Origin of Despatch	
6.	Freight Charges	
	Loading shall be done as per extent rules of BHEL-Haridwar, if Freight is	
-	mentioned as 'To Pay'	
7.	Packing Charges ➤ Loading shall be done as per extent rules of BHEL-Haridwar, if Packing	
	charges is 'Extra'	
8.	Forwarding Charges	
	Loading shall be done as per extent rules of BHEL-Haridwar, if Forwarding	
	charges is 'Extra'.	
9.	Delivery Period in weeks/months (Lead Time from PO date)	
10.	Payment term: "100% payment after receipt & acceptance of material at BHEL	
	HEEP Haridwar".	
	If vendor deviates from BHEL's standard payment term, loading on	
	account of deviation in standard payment term shall be done as per extent	
	rules of BHEL-Haridwar (Refer GISTC)	
11.	Bank Charges	
	If BHEL's Standard Payment terms accepted then bank charges not	
	applicable, otherwise please mention	
12.	Rate of GST (CGST/SGST/IGST) extra in % (for Indian Bidder only)	
13.	Test certificate (if applicable) as per Specification shall be provided.	

14.	Guarantee Certificate (if applicable) shall be provided	
15.	Liquidated Damages (LD) for Late Deliveries shall be applicable @0.5% per week or	
	part thereof on the value of respective delayed supplies subject to maximum of	
	10% of the value of respective delayed supplies. If vendor do not mention	
	anything about LD clause in their offer, then it shall be presumed to be acceptable.	
	No further clarification shall be asked in this regard after opening of techno-	
	commercial bid part-1.	
	If vendor don't accept this clause, then loading shall be done as per extent rules of	
	BHEL-Haridwar.	
16.	Quotation Validity	
	As per NIT, Validity is 90 days from techno-commercial bid opening date.	
17.	Currency (Pl. mention unit of Currency as mentioned in offer)	
18.	The evaluation currency for this tender shall be INR.	
	(Currency exchange rate at time of Part-1 Bid to be considered)	
19.	Are you registered under Micro Small Enterprises (MSE vendor)? if Yes then	
	provide Udyam Certificate (for Indian Bidder only)	
20.	Any other comments (like any other charges, order to be placed on etc.)	
21.	BHEL reserve the right to change the quantity/ Part quantity at the time of	
	ordering.	
22.	Vendor to ensure that their quoted rates are not more than those quoted for any	
	other customer including other BHEL units.	
23.	Vendor to declares that they will not enter into any illegal or undisclosed	
	agreement or understanding, whether formal or informal with other Bidder(s).	
	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.	
	In case, the Bidder is found having indulged in above activities, suitable action	
	shall be taken by BHEL as per extant policies/ guidelines.	
24.	Remaining terms and condition shall be as per latest General Instructions and	
	Standard Terms & Conditions for bidding against Tender Enquiry (GISTC) For	
	Bidders (Version June-2021, Rev: 06).	
25.	Vendor to quote best possible delivery in the offer. Early delivery acceptable.	
	Delivery schedule is not sacrosanct.	
26.	Technical requirements/acceptance criteria cum PQR (Pre-Qualifying	
	Requirement) are as per Annexure -2 & Material Properties are as per	
	Annexure-1. Vendor to ensure compliance of each and every points of Annexure-1	
27	& Annexure-2 and submit offer accordingly.	
27.	In case of any difference in conditions quoted above & elsewhere in the offer,	
	terms quoted above shall be treated as final and binding on vendor.	

Enquiry Annexure : I	L/ 6433/1/2733D1
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M/S. OPEN TENDER BHEL	DUEDATE	04-06-2022
HARIDWAR249403	Vendor Code	00001
INDIA		
-		
SL MATERIAL CODE QUANTITY UNIT LOTNO	LOT DELIVERY QTY SCHEDULE	
1 TLMW62762435 50 NO 1 SOLID CARBIDE CENTER DRILL TIP DIA 2.5 MM, SHANK DIA 6.3 MM, WITHOUT FLAT,OAL=45 MM, NUMBER OF FLUTES=2,RIGHT HAND CUTTING,DOUBLE ENDED,HAVING POINT GEOMETRY WITH RELIEVED CONE,POINT ANGLE=120 DEGREE, TIALN COATED OR EQUIVALENT, REST DIMENSIONS SHOULD BE AS PER ISO 866:2016(E) TYPE A. N.STD:- SIZE: - DIM.: -	50 31/07/22	
** IMPORTANT: This enquiry is 2 part tender. Techno-Commerce Bids (Part-2) should be submitted in separate envelopes. The be submitted in a common sealed envelope. Techno-Commercial Technical Specification, Drawings Technical documents, Cata payment terms, delivery period, Validity of offer, Replica price bid without price part) etc. The confirmation to the must be submitted alongwith Techno-Commercial bid.	hese two envelopes s l Bid shall contain alogues, taxes & dut of Price Bid (Copy	should detailed ties, of
<pre>Special Instructions: 1.Vendor to quote best possible delivery in the offer.Early Delivery schedule is not sacrosanct. 2. Technical requirements/acceptance criteria cum PQR (Pre- Requirement) are as per Annexure -2 & Material Properties a Vendor to ensure compliance of each and every points of Ann & Annexure-2 and submit offer accordingly. 3. Liquidated Damages (LD) for Late Deliveries shall be app week or part thereof on the value of respective delayed sup maximum of 10% of the value of respective delayed supplies mention anything about LD clause in their offer, then it so be acceptable. No further clarification shall be asked in to opening of techno-commercial bid part-1.</pre>	-Qualifying are as per Annexure- nexure-1 plicable @0.5% per pplies subject to . If vendor do not hall be presumed to	
Page No 1		

L/ 6433/1/2733D1

Make in India), .2020 and subsequent

MATERIAL CODE ITEM DESCRIPTION	QUANTITY	UNIT	LOTNO	
4. For this procurement, P Order 2017 dated 15.06.201 orders issued by the respe 5. Rest terms and condition Standard Terms & Condition Indian Bidders (Version Ju	7,28.05.2018 ctive nodal n shall be a s for biddin	,29.05. ministry s per la g agains	2019 & 04.06.2 shall not be test General 2	2020 and subsequ applicable. Instructions and
General Instructions: Please visit our site www. General Instructions and S				

of C) for Tender Enquiries. All the bidders/vendors must ensure compliance of latest GISTC. Terms & Conditions printed overleaf of this Standard Tender enquiry format are null & void. For this procurement, Public Procurement (Preference to Make in India), Order 2017 dated 15.06.2017 & 28.05.2018 and subsequent Orders issued by the respective Nodal Ministry shall be applicable even if issued after issue of this NIT but before finalization of contract / PO / WP against this NIT. In the event of any Nodal Ministry prescribing higher or lower percentage of purchase preference and/ or local content in respect of this procurement, same shall be applicable. Default purchase preference under Make in India order shall be 20% to suppliers with default minimum local content of 50% for all items / works / services. For further details, please refer latest version of GISTC. Procurements where the Estimated value to be procured is less than Rs. 5 lakhs shall be exempted from Public Procurement (Preference to Make in India), Order 2017 dated 15.06.2017 & 28.05.2018 Kindly produce GeM seller Id with documentary proof along with your Bids/offers for case Value more than 25 Lacs.

ATUL KUMAR ENGINEER (PPX-T)

Page No 2

Annexure-I

Material Properties

	Elements	Material wise composition (in % weight)					
Symbol		X12CrMoWVNbN10-1-1			X22CrMoV12-1-1		
С	Carbon	0.11 - 0.13	0.17-0.23	0.17 - 0.22	0.18 - 0.24		
Si	Silicon	< 0.12	<0.05	0.10 - 0.60	0.10 - 0.50		
Mn	Manganese	0.40 - 0.50	0.4-0.9	0.30 - 0.80	0.30 - 0.80		
Р	Phosphorous	< 0.010	< 0.025	< 0.030	< 0.020		
S	Sulphur	< 0.005	<0.015	< 0.020	< 0.020		
Cr	Chromium	10.2 - 10.6	10-11.5	12.5 - 14.0	11 - 12.5		
Мо	Molybdenum	1.00 - 1.10	0.5-0.8	-	0.80 - 1.20		
Ni	Nickel	0.70 - 0.80	0.2-0.6	0.30 - 0.80	0.30 - 0.80		
w	Tungsten	0.95 - 1.05	-	-	-		
v	Vanadium	0.15 - 0.25	0.1-0.3	· -	0.25 - 0.35		
AI	Aluminium	< 0.010	<0.02	-	-		
N	Nitrogen	0.045 - 0.06	0.05-0.1	-	-		
Nb	Niobium	0.04 - 0.06	0.25-0.55	-	-		
Ti	Titanium	-	-	-	-		
Cu	Copper	-		-	-		
Ti+Al	Titanium+Aluminium	-	-	-	-		
Со	Cobalt		-	-	-		
В	Boron	-	-	-	-		
Propertie	25:						
	Property		Value				
	Property	X12	X19	X20	X22		
0.2% Yiel	d Strength	750 - 830 MPa	>780	> 600	> 700		
Tensile St	rength	870 - 970 MPa	900-1050	800 - 950	900 - 1050		
% Elonga	tion (l=5d)	> 14	>12	> 15	> 11		
RA (%)		> 55	>40	> 50	> 35		
Impact Ei	nergy (J)	< 50	>20	> 20	> 20		
Hardness	(HB)	270 - 310	265-310	< 280	265 - 310		

(DIPANKAR SIDOW) E3-TRASNOS.

5	MPR :- 20			NEXURE	- 2
	ACCEPTANCE CRITERIA FOR SUPPLY OF DOUBLE SIDED COATED CARBIDE	CENTRE DRILL HAVING	PILOT DIA 2	.5 MM	
SERIAL NUMBER	REQUIREMENTS OF DUG	REQUIRED	OFFERED		REMARKS
.0	REQUIREMENTS OF BHEL:-				
1.1	Item Description:- Solid carbide double ended center drills are required for centre drilling on end faces of rectangular bars for blade milling with following details (refer drawing below): 1) Pilot diameter: 2 5 mm., Shank diameter: 6.3 mm without flat, 2) OAL=45 mm. 3) Number of flutes=2 4) Right hand cutting, double ended, 5) Point angle=120 degree, 7) Coating TiAIN or better. 8) Material code of the drills shall be properly marked on the shank of the cutter. 9) Rest dimensions should be as per ISO 866:2016(e) type A. Vendor to submit technical drawings consisting grade, coating , geometries etc. alongwith the offer. $\frac{4^{d_1}{k_{12}} + \frac{d_1}{m_1} + \frac{k}{m_2} + \frac{m_1}{m_1} + \frac{m_2}{m_2} + \frac{m_1}{m_1} + \frac{m_2}{m_1} + \frac{m_1}{m_2} + \frac{m_1}{m_1} + \frac{m_2}{m_1} + \frac{m_1}{m_2} + \frac{m_1}{m_1} + \frac{m_2}{m_1} + \frac{m_2}{m_1} + \frac{m_1}{m_1} + \frac{m_2}{m_1} + \frac{m_2}{m_1} + \frac{m_2}{m_1} + \frac{m_1}{m_1} + \frac{m_2}{m_1} $	Vendor to accept, confirm and submit			
	Purpose & Application:- Required centre drills will be used in existing CNC 5 axis milling machines for manufacturing of turbine blades at BHEL Haridwar. The work piece materials will be: X12CrMoVVNbN10-1-1 X19CrMoVNbN 11 1 X20Cr13 X22CrMoV12-1-1 Material properties are as per annexure 1.	Vendor to accept, confirm and submit			
	Dy. Mgr. WPMANPS Tech.	DIPANKAR SH E3-TBM &	-		

SERIAL NUMBER	REQUIREMENTS OF BHEL	REQUIRED	OFFERED	DEVIATION	REMARKS
2.0	TRIAL AND EVALUATION OF PRODUCT SAMPLES AFTER PLACEMENT OF PURCHASE ORDER:				
2.1	Lowest bidder shall supply 3 number of centre drills as per Purchase Order at least one month before scheduled delivery date for evaluation of their products as per criteria mentioned in clause 2.3 of this tender specification. Vendor shall supply rest of tools only after clearance from BHEL on the basis of sample tools supplied by them after PO placement.				
		4			
	In case of failure in trial, damaged/consumed tools will be taken back by vendor without any financial implication on BHEL. For this, vendor must confirm explicitly to take tools back themselves irrespective of the condition and quality of the materials.	Vendor to accept			
	Input Material, Machine Details, operations, acceptance criteria: (a) Input Material:- Rectangular blanks of materials as per annexure 1. (b) Available clamping System:- Coolant driven angle head (Make: Eltool 1-877-435-8665) (c) Machine Details:- CNC 5-Axis 1 spindle machine of M/s Liechti Make (Model: Turbo mill 800g)				
	 (d) Operating Parameters :- Feed 7 mm/min to 9 mm /min , RPM- approx. 1900. (e) Acceptable Tool Life:- The offered drills must complete drilling operation of minimum 15 numbers of blank per side of center drill. (g) BHEL will consider the life of drills as long as the point of the drill remains intact. 	Vendor to accept			
2.4 f	If the quality of the items supplied after sample approval is found inadequate or any deviation is found from approved sample, the total supply is liable for rejection as per GEM practice.	Vendor to accept/agree			
3.0 F	PRE QUALIFYING CONDITIONS				
f	Only OEM or OEM authorised vendors can quote who are supplying coated carbide centre drills for previous 3 years or more (from the date of opening of the tender). In case of OEM authorised vendors, authorisation certificate from OEM should be submitted along with offer.	Vendor to accept/agree			
r F C	Name, email ID & contact details of the customer where same or similar carbide centre drills have been supplied are required to be submitted by the vendor. PO copy of the supply having quantity not less than 20 numbers is required to be submitted. Offer without this document shall be rejected. However in the submitted PO copy, offered price may be concealed by suitable means.	Vendor to submit details			

Sandip Checkinsborry

()IDANKAR SHOW)

SERIAL NUMBER	REQUIREMENTS OF BHEL	REQUIRED	OFFERED	DEVIATION	REMARKS
3.3	 Reference purchase orders of similar items supplied to BHEL Haridwar (The items should have been successfully accepted), or successful performance certificate/ trial / acceptance report duly signed by customer of same or similar type of centre drills from BHEL or from other reputed manufacturer as mentioned in clause 3.2 for manufacturing jobs of high alloy steels having high Chromium content(minimum 10% or more) is required. The successful performance certificate/ trial / acceptance report must contain details of work piece/ job along with main dimensions and should be satisfying the following conditions: 1) The referred material should be of high alloy steels having high chromium content (minimum 10% or more) 2) Operating parameters & tool life (Feed, cutting speed) should be same or higher than that of mentioned in clause 2.3. Offer without this document will be rejected. 	Vendor to submit details			
3.4	The OEM should be ISO 9001:2008 or equivalent certified for manufacturing and supplying carbide tools. Copy of valid certificate should be submitted along with the offer at the time of opening of tender. Offer without this certificate shall be rejected.	Vendor to submit details			
3.5	BHEL reserves the right to verify the information provided by vendor. In case the information provided by vendor is found to be false/ incorrect, the offer shall be rejected.	Vendor to submit details			

Jandip Chakraborty Dy. Mamager, Tom &NOS. Tech

DIPANKAR CHOW B3, NBS& TBM