

कदम कदम मिलाना है भारक सफल बनाना है

Marching Towards Business Excellence



ENQUIRY

TWO PART BID

BPC 0007

भारत हेवी इलेक्ट्रिकल्स लिमिटेड, भुवनेश्वर, ओडिशा - 751005 (भारत)

BHARAT HEAVY ELECTRICALS LIMITED, BHOPAL - 462022 (INDIA)
MATERIALS MANAGEMENT DIVISION

TIN NO. 23573600001 | ECC NO. AACB4146PXM009 | MPCT NO. HEL050100001S101179
PHONE: 91-755-2500100 (7 LINE) FAX: 91-755-2500023 WWW.BHEL.BHOPAL.COM

ENQUIRY NO E7293409
ENQUIRY DATE 06/01/20
ENQUIRY DUE DATE 30/01/20

SUPP NAME AND ADDRESS	SUPP CODE	REV CD	REV NO	REV DATE	NO OF CATY2	NO OF CATY3	ENQ NO OF ITEMS	INDENT NO
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0	1	0	NA	2	2	2		340694014
GUARANTEE CERTIFICATE		Y	SUPPLY CONDITION		TO BE PACKED SUITABLY ITEM SHOULD NOT BE DAMAGED DURING TRANSPORT.			
TEST CERTIFICATE		Y	TECHNICAL CONDITION		AS PER ANNEXURE ENCLOSED.			
INSTRUCTION BOOKLET		N						
SAMPLE		N						
GATE PASS		Y	INSPECTION CONDITION		AS PER POWERGRID APPROVED MQP.			

NOTE: QUOTE PRICE BOTH IN FIGURES & WORDS. IN CASE OF MISMATCH PRICE IN WORDS WILL BE VALID, QUOTATIONS NOT BEARING ENQUIRY NO AND DUE DATE LIABLE TO BE REJECTED.

SL NO	MATERIAL CODE	DESC	UNIT	ITEM QTY	QTY VR%	LOT NO	LOT QTY	DEST	DELIVERY DATE
1	TR4691203010	DRY TYPE NEUTRAL GROUNDING REACTORS AS PER ANNEXURE ENCLOSED	ST	2,000	0	1		806	30/04/20
2	TR469113002	400 OHM, 145KV DRY TYPE NGR AS PER ITEM 02 OF TECHNICAL ANNEXURE.	ST	2,000	0	1		806	30/04/20

REMARK [1]. SEALED QUOTATIONS ARE INVITED IN TWO PART BID SYSTEM (TECHNO-COMMERCIAL BID-PART: 1 & PRICE BID-PART: 2, SEPARATELY). [2]. ITEMS TO BE PROCURED ON INDIVIDUAL L-1 BASIS. [3]. ADDITIONAL ANNEXURE TO ENQUIRY REGARDING MAKE IN INDIA POLICY IS APPLICABLE. [4]. TOTAL QUANTITY IS 4 SETS. ITEMS ARE REQUIRED TO BE DISPATCHED DIRECTLY TO THE SITES. ENQ. ITEM-1, 2SETS TO BE SENT TO BHADLA (RAJASTHAN) AND ENQ. ITEM-2, 2 SETS TO JHATKARA (NEW DELHI). EXACT CONSIGNEE ADDRESS SHALL BE SUBMITTED BEFORE DELIVERY. [5]. PLEASE SUBMIT YOUR PRICE AS PER ATTACHED PRICE BID SCHEDULE. [6]. VENDORS TO SUBMIT QAF FOR POWERGRID APPROVAL. [7]. PLEASE SUBMIT PROFORMA OF VENDOR QUALIFICATION REQUIREMENT DULY FILLED, SIGN & SEAL ALONG WITH TECHNO COMMERCIAL OFFER (PART-1).

DRAWING	Y	PURCH SPEC	Y	CATALOGUE	Y	Quality Surveillance Plt	N	TWO PART BID	Y
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NOTE: BHEL, BHOPAL'S Standard Terms & Conditions BP200102/MM5533 rev02 for imports and BP200102/MM5527 rev03 for indigenous procurements form a part of this Enquiry. Bidders may obtain from us copies of these terms and conditions if not already available.

Note: During Bid Evaluation, No loading of price with regard to preferential payment of within 45 days will be made on vendore failing under MSMED ACT - OCT 06

Please submit your lowest quotation in sealed envelop essentially superscribed with ENQUIRY NO., DUE DATE AND PARTY'S NAME, so as to reach at TENDER ROOM, GROUND FLOOR, ADM BUILDING, BHEL, PIPLANI BHOPAL-462022 by 11.00 am of due date.		SPECIAL REMARK:		NAME: SHRI ASHISH MISHRA	
1. This is only a request for Quotation & not an order. 2. Small Scale industries should indicate SSI Regn. No. in Quotation/Invoice. 3. In case you are not making an offer against this Enquiry, we request you to post a regret letter. 4. Indian vendors to please indicate GSTIN on their quotation.		Documents Enclosed 1. Drawing 2. Catalogue 3. Purchase specification. 4. Quality Surveillance Plan.		DESIG: SR. ENGINEER 0755-250477 mashish@bhel.in	

RPT-160

ENQUIRY

आशीष मिश्रा
Sr. Engineer (MM-TCB)
वॉ. एच.ई.एल., भोपाल/B.H.E.L., BHOPAL

3

PRICE BID SCHEDULE FOR ENQ. 67293409

PI No-340694014

Item-1

(For POWERGRID Bhadla -II, Rajasthan)

SL NO	ITEM	Unit Price on FOR Bhadla- II basis	Quantity	Total Price
1.	600 Ohm Dry Type NGR including i. 1 set of Support Insulators- Porcelain. ii. 1 set Stainless Steel Support Structure iii. Terminal Connector iv. Charges of Tests as mentioned in Technical Annexure.		2 Sets	

Item-2

(For POWERGRID JHATIKARA, DELHI)

SL NO	ITEM	Unit Price on FOR Jhatikara, Delhi basis	Quantity	Total Price
1.	400 Ohm Dry Type NGR including i. 1 set of Support Insulators- Porcelain. ii. 1 set Stainless Steel Support Structure iii. Terminal Connector iv. Charges of Tests as mentioned in Technical Annexure.		2 Sets	

Please quote the price, exclusive of GST.

Item to be procured on individual L1 basis.

Seal and Signature of Bidder

②

FORM NO: TRE-2003A

Sheet 1 of 2 sheets

ANNEXURE TO INDENT	: 340694014
DESCRIPTION OF EQUIPMENT	: DRY TYPE NEUTRAL GROUNDING REACTORS
FOR REACTOR	: 110 MVAR, 765/√3 KV SHUNT REACTOR (For Item No- 1)
	: 80 MVAR, 765/√3 KV SHUNT REACTOR (For Item No- 2)
WORK ORDER NO.	: 69120A53001 (For Item No- 1); 69111A53001 (For Item No- 2)
LOA NO	: CC-CS/912-NR1/RT-3941/3/G5/NOA-I / 8886 dtd. 27.08.19 (Item-1)
	: KTL/765KV/RT/NOA-II/02 (II) dtd. 09.11.19 (Item-2)
CUSTOMER	: M/s POWERGRID

600 Ohm (Item No-1) & 400 Ohm (Item No-2) 145 kV Class Neutral Grounding Reactor as per below specification

	Parameter	Value	Bidder confirmation or data
A	Technical Parameters		
1.	Reference standard	IEC: 60076-6	
2.	Rated voltage	145 kV	
3.	Rated frequency	50 Hz	
4.	No. of phase	One	
5.	Type	Dry type air core Epoxy impregnated for outdoor application	
6.	Insulation	Graded	
7.	Max. continuous current (rms)	20 A	
8.	Rated short time current (rms) (60secs.)	240 A (however the NGR shall be designed for a current rating of 600 Amp rms short time current to ensure mechanical robustness which will be verified during design review.	
9.	Rated impedance at rated short time current and continuous current	600 Ohms -0 +10% Tol. (Item-1) 400 Ohms -0 +10% Tol. (Item-2)	
10.	Connection	Solidly connected between neutral of shunt reactor and ground	
11.	Insulation level for winding		
	Lightning Impulse withstand Voltage	Line / Ground- 550 kVp	
	One Minute Power Frequency withstand voltage	Line / Ground- 275 kVp	
12.	Pedestal insulator Type Minimum Creepage 1 min. Power frequency withstand voltage Lighting impulse withstand voltage	Porcelain/ Silicon rubber 438 mm 55 kVrms 125 kVp	

REV	DATE	ALT CKD	REV	DATE	ALT CKD	REV 00	NAME	SIGN	DATE
						PREP	S. DUTTA		25.11.19
						CKD	A.DAVE		26.11.19
DWI/TCB/TRE/010									

BHARAT HEAVY ELECTRICALS LIMITED, BHOPAL
TRANSFORMER ENGINEERING DEPARTMENT

FORM NO: TRE-2003A

Sheet 2 of 2 sheets

13.	Terminal Connector	3" IPS AI Tube	
14.	Mounting structure	Nonmagnetic material	
15.	The reactor shall be mounted high above ground level to allow free and safe access at ground level for personnel.	support structure height 2.55-meter excluding support insulator	
B	Testing requirement		
	Following routine tests shall be conducted on each NGR – • Measurement of winding resistance • Measurement of impedance at rated continuous current • Measurement of loss • Lightning impulse test • Appearance, construction and dimension check		
C	Other requirements		
1.	The neutral terminals of NGR shall be brought to the ground level by a brass/tinned copper grounding bar. The end of the brass/tinned copper bar shall be brought to the bottom of the tank, at a convenient point, for making bolted connection to Employer's grounding mat.		
D	Drawing requirement with bid		
	OGA Drawing Technical datasheet Rating plate drawing Duly filled, signed & sealed copy of this annexure		
F	Packing - The method of packing shall be such as to protect adequately the equipment with all its components parts against corrosion, dampness, heavy rain, breakage and vibration that might be encountered in transportation, handling & during storage at plant site.		
G	Inspection & Testing		
	• The supplier shall perform all tests as per clause B and inspections necessary to ensure that the material workmanship conform to the appropriate standards and the requirement of this specifications. • The purchaser at all times have reasonable access to the supplier's works to determine or access compliance with the provision of specification. The final tests on NGR shall be witnessed by BHEL or its customer POWERGRID or their authorized inspection agency. After confirmation of order, supplier to submit customer hold point clearance/interim inspection report & get it approved by M/s POWERGRID before commencing the manufacture of NGR. • Certified test reports and oscillogram shall be submitted for evaluation prior to dispatch of the equipment. • Copies of test reports shall be furnished after final approval.		
H	Vendor has to submit valid POWERGRID approval along with the bid. (If available)		
I	Vendor has to submit separate QA plan along with the bid.		

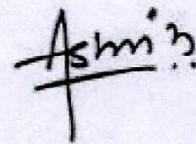
1. For this Procurement, Public Procurement (Preference to Make in India), Order 2017 dated 15.06.2017 & 28.05.2018 and subsequent Orders issued by the respective nodal ministries shall be applicable even if issued after issue of this NIT by but before finalization of contract/PO/WO against this NIT.

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

2. This has reference to Government of India Circular no. P-45021/2/2017-BE-II dt 15.06.2017 for Preference to Make in India and subsequent amendment issued thereon. A self certification complying the condition below may please be submitted on company letter head duly signed by competent authority alongwith Techno commercial offer.

- i. Procedure for preference to make in India shall be applicable in the tender as per Government circular no.P-45021/2/2017-BE-II DTD 15.06.17.

- ii. Minimum Local content shall be 50%. Please furnish details of location where this value addition has been done.



Sr Engineer - MMTCB

FOR ENQUIRY 07293409

Annexure IX

DECLARATION BY VENDOR

We declare that the following family firms or sister concern affiliates / subsidiary firms are participating in the tender No E.....:

1.0

2.0

3.0

.....

I, hereby declare on behalf of M/s and the family firms or sister concern affiliates / subsidiary firms listed above that we are not indulging in cartel formation for Enquiry No E.....

(.....)

For M/s

(Seal & Sign)

[Handwritten signature]