

Ref. Enquiry No.: PE/PG/BHU/E-6484/2020, Dated 31.07.2020

DUE DATE
10 Aug 2020
BY 02:00 PM

Dear Sir/ Ma'am

Subject: Open tender Enquiry for "EPR INSULATED FIRE SURVIVAL CABLES" for 1 x 660 MW BHUSAWAL TPS Project as per Technical Specification No. PE-TS-415-507-E006 REV 00.

BHEL invites your offers for Design, Manufacture, Inspection and testing at Manufacturer's works, proper packing and delivery to site of **EPR INSULATED FIRE SURVIVAL CABLE** as specified/ defined as per tender technical specifications ref. PE-TS-415-507-E006 Rev00, amendment & agreements till placement of order for **1 x 660 MW MAHAGENCO BHUSAWAL TPS**.

Your offer shall be submitted in two parts strictly as per Clause-2.0 of the "Instructions to Bidders" of GCC Rev. 07, in sealed cover for the below mentioned equipment/system.

Item Description – EPR INSULATED FIRE SURVIVAL CABLES			
Sl. No.	Project	TECHNICAL SPECIFICATIONS	Delivery completion schedule
1	1 x 660 MW BHUSAWAL TPS	PE-TS-415-507-E006 REV.00	As per annexure – II to NIT

Your best quotation/offer for the above requirement, in line with tender terms and conditions, should be submitted **online via e-procurement system**. It shall be the responsibility of the bidder to ensure that the tender is submitted **on or before the due date by 02:00 PM**. Part-I (techno-commercial) bids shall be opened at **03:00 PM** on the due date.

Note: 1. Detailed tender documents have been uploaded on following websites: -

<https://bhel.abcpocure.com>, www.bhel.com, www.bhelpem.com and www.eprocure.gov.in

Bidders are requested to upload their best offer on <https://bhel.abcpocure.com> only.

2. In case bidders are not interested to quote, please send us the regret by e-mail or letter.

ENQUIRY TERMS AND CONDITIONS:

1. Offers should be submitted/uploaded separately in two parts **online through e-procurement system** as follows:

Part-I: TECHNO-COMMERCIAL BID

Part-II: PRICE BID

For detailed instructions, please refer GCC Rev 07- Instructions to Bidders.

2. Bidders shall submit their offers meeting the requirements of the following tender documents indicated in BHEL PEM GCC Rev- 07 and other Terms and Conditions included in this Enquiry Letter. Weblink of GCC Rev 07 shall be as below, **bidders may download the GCC Rev 07 from the given weblink and go through the same before quoting: -**

<https://www.bhelpem.com/Documents/GCC/GCCRev07.pdf>

3. Bidders to note that following form the part of tender documents:
- General Conditions of Contract (GCC) Rev 07 comprising of: Instructions to Bidders and General Commercial Terms & Conditions
 - Technical Specifications
 - Technical PQR
 - Special Conditions of Contract (SCC Rev 01) of Bhusawal Project.
 - Enquiry terms & conditions (NIT)
 - Annexures I –III
 - PVC factor & formula
4. Any hidden conditions/deviations mentioned elsewhere in offer and standard pre-printed terms & conditions of the tenderers shall not be considered valid.

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5. Tenders shall be submitted strictly in accordance with the requirements of the above-mentioned tender documents. Deviations (Technical as well as Commercial), if any, shall be listed out separately in Annexure-II of GCC Rev-07 along with reasons for taking such deviations in the bidding format in E-Procurement portal. Any deviations (Technical as well as Commercial) not mentioned in the Annexure-II shall not be considered. Bidders to note all the points mentioned in "Notes" of Annexure-II of GCC Rev.07.
6. If any bidder has mentioned the term "Not Applicable" / "not required" / "not quoted" in BHEL price format, the same to be substantiated by the bidder. If such item is required to be supplied for system completion in future, same will be supplied free of cost by the successful bidder.
7. Purchaser shall be under no obligation to accept the lowest or any other tender and shall be entitled to accept or reject any/all tender(s) in part or full without assigning any reason whatsoever.
8. Tenderers must enclose the Quality Plan in the prescribed format, for approval. Equipment will be dispatched only after Purchaser's/Owner's inspection of the hold points specified in the approved Quality Plan and issue of Material Dispatch Clearance Certificate (MDCC).

9. Offers should be submitted separately in two parts **online through e-procurement system only**, however, all correspondence thereof, shall be addressed to the following persons and sent at the following address:

Mr. Mohit Kumar Dy. Engineer, PG-III E-mail: mohitgupta@bhel.in Ph. +91-120-4368832; Mob: 7503530406	Mr. Rahul Bhatnagar Sr. Engineer, PG-III E-Mail: rahulbhatnagar@bhel.in Ph. No. +91-120-4368727; Mob: 9654499303	Mr. Gaurav Jain Sr. Manager, PG-III E-Mail: gjain@bhel.in Ph. No. +91-120-4368835; Mob: 8800990290
M/s. Bharat Heavy Electricals Ltd., Project Engineering Management, PPEI Building, Plot No 25, Sector-16A, Noida-201301, U.P., INDIA		

10. Evaluation will be done on L1 (Total cost to BHEL excluding GST) basis.
11. **MODE OF EVALUATION FOR FINALISATION OF PRICES (REVERSE AUCTION): -**
"BHEL shall be resorting to Reverse Auction (RA) (Guidelines as available on www.bhel.com) for this tender. RA shall be conducted among all the techno-commercially qualified bidders. Price bids of all techno-commercially qualified bidders shall be opened and same shall be considered as initial bids of bidders in RA. In case any bidder(s) do(es) not participate in online Reverse Auction, their sealed envelope price bid along with applicable loading, if any, shall be considered for ranking."
12. **Govt. of India's Public Procurement Policy – Preference to Make In India Clause:** - "For this procurement, the local content to categorize a supplier as a Class I local supplier/ Class II local Supplier/ Non Local supplier and purchase preference to Class I local supplier, is as defined in Public Procurement (Preference to Make in India), (PPP-MII) Order 2017 dated 04.06.2020 issued by DPIIT. In case of subsequent orders issued by the nodal ministry, changing the definition of local content for the items of the NIT, the same shall be applicable even if issued after issue of this NIT, but before opening of Part-II bids against this NIT".
 - The local supplier at the time of tender, bidding, solicitation, shall be required to provide self-certification that as per the offered item, they meet the requirements of Class I local supplier/ Class II local Supplier/ Non Local supplier as per the provisions of PPP-MII Order of Govt of India and relevant circulars issued by nodal ministry w.r.t. above mentioned orders and shall give details of location(s) at which the local value addition is made as per enclosed **annexure –III to NIT /** revised formats which may be asked later.
 - Subject package is **divisible** in nature.
13. Bidder to note that this is a conditional Open Tender enquiry and the price bid (Part-II) opening/RA participation shall be subject to following condition: -
 - A) Meeting of Technical PQR
 - B) Techno-commercial qualification/recommendation of bidder by the BHEL-PEM.

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- C) Approval of vendor from end Customer (MAHAGENCO). Same shall be taken up by BHEL-PEM with customer based on the credentials/reference list/experience list. Bidders to submit the credentials as per MAHAGENCO sub vendor format for approval.

14. Delivery Completion schedule:

Refer Annexure-II for delivery schedule.

Following shall be made part of NIT.

- The end period specified is for completion of the deliveries. Deliveries to start progressively so as to meet the completion schedule.
- The delivery conditions specified are for contractual LD purposes, however BHEL may ask for early deliveries without any compensation thereof.
- Non-applicable drawings shall be decided during execution of the package.
- Wherever schedule of drawings/documents submission / re-submission is stipulated in the Technical Specifications, same shall be superseded by delivery specified in NIT.

15. **Payment terms** shall be as per clause no. 9.1 of General Commercial Terms and conditions of GCC Rev 07.

16. **Liquidated Damages:** - As per clause no. 16 of General Commercial Terms and conditions of GCC Rev 07.

17. Prices shall be variable as per price variation formulae, which is available at <https://www.bhelpem.com/Documents/GCC/Price%20Variation%20Formulae%20for%20Cables.pdf> The price shall be limited to +20% of total Ex-works price actually supplied (cable size wise) & -ve price variation shall be unlimited. (Refer Annexure-C of Enquiry)

18. Bidders to ensure that Third party/Customer issued certificates being submitted as proof of PQR qualification should have verifiable details of document/certificate issuing authority such as name & designation of Issuing Authority and its organization contact number and E-mail Id etc. In case the same is found not available, BHEL has the right to reject such document from evaluation.

19. **Freight:** - Bidders are required to quote freight percentage mandatorily. Average of percentage of freight quoted by techno commercial accepted bidders in subject tender shall be used to calculate freight factor at the time of reverse auction for evaluation purpose.

20. For bidders (who are not registered with BHEL-PEM) -Online Registration Portal is operational in BHEL. Registration in BHEL-PEM is not mandatory for this tender. However, Non-registered Vendors, who wish to apply for registration with BHEL-PEM, can apply through Online Registration Portal available at www.bhelpem.com → vendor section → Online Supplier Registration. All credentials and/or documents duly signed and stamped related to registration may be uploaded on the website and submit the application for registration.

21. All corrigenda, addenda, amendments, time extensions, clarifications etc. to the tender will be hosted on BHEL websites only (www.bhelpem.com, www.bhel.com & <https://bhel.abcpurchase.com>) under subject tender reference. Bidders are requested to visit our websites from time to time to keep themselves updated. Bidders may go through the Sellers' manual & Help documents provided on E-Procurement Portal website & obtain required Digital Signature Certificate for participating in the subject Tender. For Bidders' convenience, the Helpdesk Nos. of E-Procurement Portal are also listed below:

Name	Contact Nos.	e-mail ID	Role	Location
Mukunthan	+91 6353215001	Trichy.bhel@eptl.in	Support Executive	Trichy
Tej Singh	+91 6353215002	Bhopal.bhel@eptl.in	Support Executive	Bhopal
Sanjeev Kumar	+91 6353215003	Jhansi.bhel@eptl.in	Support Executive	Jhansi
Gaurav Panwar	+91 6353215004	Haridwar.bhel@eptl.in	Support Executive	Haridwar
Mallikarjun	+91 6353215005	Bengaluru.bhel@eptl.in	Support Executive	Bangalore
Avinash Govu	+91 6353215007	Hyderabad.bhel@eptl.in	Support Executive	Hyderabad
Swapnil Hamilton	+91 7940270549	swapnil.h@eptl.in	Support Executive	HO– Ahmedabad

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Hardik Oza	+91 7940270560	Hardik.oza@eptl.in	Support Executive	HO– Ahmedabad
Ankur Bhatt	+91 7940270590	ankur.bhatt@eptl.in	Support Executive	HO– Ahmedabad
Prashant Rajyaguru	+91 7940270545	prashant@eptl.in	AM-Implementation & Support	HO– Ahmedabad
Dharam Rathod	+91 7940270596	dharam@eptl.in	Mgr – Implementation & Support	HO– Ahmedabad
Pradip Parmar	+91 7940270532	pradip@eptl.in	SM – Implementation & Support	HO– Ahmedabad
Devang Patel	+91 7940270576	devang@eptl.in	SM – Implementation & Support	HO– Ahmedabad

22. If any bidder uploads price bid in the unpriced section (techno-commercial attachment page) of the tender in e-procurement, in that case bidder(s) shall only be responsible for such mistake and any consequences thereof. Hence all bidders are requested to be more careful at the time of uploading the Unpriced and Price Bid for Part-I and Part-II respectively to avoid mismatch.

23. Bidders to note that “This item /package/system falls under the list of items defined in para 3 of ministry of finance guideline date 20.09.16 (procurement of items related to public safety, health, critical security operations and Equipments etc.) & hence criteria of prior experience /turnover shall be same for all bidders including start-up /MSME”.

24. All other terms and conditions of SCC (Rev 01) of project, NIT & GCC (Rev 07) shall be applicable for the subject package.

25. Detailed offers are to be uploaded including the following along with the Price schedule as per BHEL format enclosed with NIT: -

- Acceptance of BHEL-PEM GCC Rev-07
- Acceptance of Special Conditions of Contract (SCC Rev 01) for the project.
- Technical & Commercial Deviations, if any along with Cost of withdrawal in bidding form
- Along with your offer, please submit a copy of this letter duly signed & stamped on each page as token of acceptance of terms & instructions conveyed.
- Un-Priced price format duly filled in ‘Quoted’ or ‘Q’ in each column/row in bidding form
- Filled Format of Certification reg. Local content (annexure –III)

All the above Tender Documents shall automatically become a part of the Order/Contract after its finalisation.

Thanking You

Yours faithfully,

For and on behalf of BHEL-PEM

Gaurav Jain

(Sr. Manager/PG-III/BHEL-PEM)

Enclosures:

1. Technical Specification No. PE-TS-415-507-E006, Rev00
2. Technical PQR
3. SCC Rev 01
4. BOQ - Annexure –I
5. Delivery completion cum Drawings/documents submission Schedule (Annexure –II)
6. Format of Certification reg. Local content (annexure –III)
7. PVC factors & formula (Annexure-C)
8. Performa for End customer approval

PROJECT:- 1 X 660 MW BHUSAWAL TPP
PACKAGE:- EPR INSULATED FIRE SURVIVAL CABLE
ENQUIRY NO.-PE/PG/BHU/E-6484/2020 DTD. 31.07.2020
BILL OF QUANTITIES (1.1kV EPR INSULATED FIRE SURVIVAL CABLES)

(A) MAIN SUPPLY

1.1 kV Fire Survival cable with stranded, compacted, plain/tinned annealed copper conductor, EPR insulation, HOFR Inner Sheath, round Copper Wire/ GS Round Wire Armour and HOFR Outer Sheath
 Generally conforming to IS :9968 (Part-1) and BHEL specification.

S.No.	Item code	Item name	UOM	Ordered Quantity	LOT-I QUANTITY	Drum Length	HSN CODE
A1	507-42001-A	3C - 2.5- GS ARMoured	MTR	2000	1000	500	8544
A2	507-42002-A	5C - 2.5- GS ARMoured	MTR	8500	4000	500	8544
A3	507-42004-A	1C - 400- GS ARMoured	MTR	2000	1500	500	8544
A4	507-42006-A	1C - 630- Cu ARMoured	MTR	3000	2500	500	8544
A5	507-42013-A	2C - 95- GS ARMoured	MTR	9500	6000	500	8544
A6	507-42015-A	3C-50 GS ARMoured	MTR	500	500	500	8544
A7	507-42016-A	3C-185 GS ARMoured	MTR	600	600	600	8544
A8	507-42019-A	2C-50 GS ARMoured	MTR	2500	1500	500	8544
A9	507-42021-A	2C-6 GS ARMoured	MTR	4000	2000	500	8544
A10	507-42022-A	2C-10 GS ARMoured	MTR	13000	8000	500	8544

NOTES :

- Quantities indicated above for S.No. (A) shall be known as Order Quantities. The variation in quantities of all sizes put together shall be limited to (-) 30% to (+) 30% of the total contract value derived on the basis of the Ordered quantities.
- The bidder shall indicate the unit price of each type and size of cables listed as per the BOQ-Cum-Price Schedule. The unit prices shall apply for adjustment of variation in quantity as stipulated above.
- Lot-I quantities indicated above shall be cleared for manufacturing along with PO. However, manufacturing of the cables shall be taken up by the successful bidder only after approval of technical and quality documentation. Subsequent lots shall be cleared for manufacture based on progress of engineering & site requirements.
- The standard drum length shall be 500 meters as indicated above except for item listed at S.No.A7 where the standard drum length shall be 600 meters. Tolerance on individual drum length shall be $\pm 5\%$.
- Overall tolerance on total dispatched quantity of each size shall be (-) 2% and (+) 0% except where the total ordered quantity is one single drum length of 500m or 600m, in which case it shall be -5%/0%. Cables consumed for testing and inspection shall be to bidder's account.
- For each individual cable size, one short length of not less than 200m may be accepted only in the final drum length to complete the supply (except where the total ordered quantity is one single drum length of 500m or 600m). The overall tolerance limits stipulated above shall continue to apply (in case short lengths are accepted).
- In case of the quantities of any one lot cleared by BHEL for manufacturing are manufactured and offered for inspection by successful bidder in more than one batch, BHEL reserves the right to witness type testing on all batches without any price implications.
- Bidder shall indicate unit price of cables inclusive of type test charges. No separate charges shall be payable for type tests.

Annexure-II of Tender Enquiry No.-PE/PG/BHU/E-6484/2020 Dtd. 31.07.2020 for Delivery Schedule for EPR INSULATED FIRE SURVIVAL CABLE - 1 X 660 MW BHUSAWAL TPP

Sl. No.	Package name	BHEL Drawing No	Drawing Title	Primary/Secondary	Drg Sch for Vendors	Standard Delivery Terms for Supply Portion
1	EPR INSULATED FIRE SURVIVAL CABLE	PE-V0-415-507-E601	TECHNICAL DATA SHEET - EPR INSULATED FIRE SURVIVAL CABLE	Primary	R-0 within 14 days from PO & subsequent revisions within 10 days of comments received from BHEL. BHEL shall furnish comments / approval on each submission within 18 days from receipt.	For Lot-1: Within Four (04) months from date of CAT-1 approval of Primary drawing/documents, subjected to drawing/document submission/re-submission schedule as stipulated, in case of any delay in submission/re-submission of Primary drawing/documents, then same shall be reduced from the given delivery period. Delay in BHEL's comments/approval beyond 18 days shall also be considered for delay analysis.
		PE-V0-415-507-E602	CROSSSECTIONAL Drawings for EPR INSULATED FIRE SURVIVAL CABLE	Primary		
		PE-V0-415-507-E603	QUALITY PLAN for EPR INSULATED FIRE SURVIVAL CABLE	Primary		
		PE-V0-415-507-E604	TYPE TEST CERTIFICATES - EPR INSULATED FIRE SURVIVAL CABLE	Secondary	Within 1 week after conduction of Type Test	For Subsequent Lots: Within 3 months from Lot clearance by BHEL.

Letter head of Company (<Rs. 10 Cr value)

Ref.....

Date.....

To,

Bharat Heavy Electricals Limited

PEM, PPEI Building, Plot No 25,

Sector -16A, Noida (U.P)-201301

Subject: - Certification regarding local content

Reference: Tender Enquiry No-.....

Name of Package:

Dear Sir,

We hereby certify that items offered by us of(package name).....for.....(Project Name/Rate contract)..... meets the requirement of minimum local content in line with Cl. No..... of NIT No..... dated..... and the Public Procurement (Preference to Make in India), Order 2017 dated-15.06.2017, 28.05.2018 & 29.05.2019.

We further confirms that details of location at which the local value addition is made will be our registered works at(address of the works)

Yours very truly

..... (authorized signatory of company)

..... (firm name)

authorized signatory
of company



PVC ANNEXURE

ANNEXURE-C

Price Variation Formulae
1 X 660 MW BHUSAWAL TPS
EPR INSULATED FIRE SURVIVAL CABLE

1. Prices shall be variable as per following PVC formulae as per IEEMA. The price shall be limited to +20% of total Ex-works price actually supplied (cable size wise) & -ve price variation shall be unlimited. PVC shall be limited for the metals for which rates published by IEEMA.

CABLE TYPE	CONDUCTOR	FORMULA	TABLE REF
LT EPR INSULATED SIRE SURVIVAL Cables	(Cu conductor,)	$P = P_0 + CuF (Cu - Cu_0) + CCFCu (CC - CC_0) + FeW (Fe - Fe_0) + ALF (Al - Al_0)$	as applicable as per IEEMA

Note:

- Quantity Variation:** The variation in quantities of all sizes for Main item (A) put together shall be limited to (-) 30% to (+) 30% of the total contract value derived on the basis of the Ordered quantities of main item (A).
- PVC shall be applicable for Order Qty. and subsequent lots.
- Base date for prices (as per IEEMA):

Initial Price:

Base date shall be **June-2020**

Final Price:

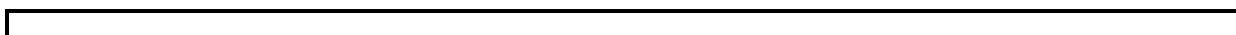
The first working day of month, one month prior to the **date of delivery**.

Note: The date of delivery is the date on which the cable is notified as being ready for inspection/dispatch (in the absence of such notification, the date of manufacturer's dispatch note is to be considered as the date of delivery) or the contracted delivery date (including any agreed extension thereto), whichever is earlier.

- PVC shall be payable within agreed contractual delivery period. In case of delay is attributable to vendor, for the payment purpose, the PVC shall be calculated based on rates applicable as on the date of expiry of contractual delivery date or actual delivery date, whichever is beneficial to BHEL.

Applicable Factors-

Factors/Cable Size	5C-2.5 (GS armoured)	2C-95 (GS Armd)	3C-2.5 (GS armd)	3C-50 (GS armd)	2C-6 (GS armd)	2C-10 (GS armd)	2C-50 (GS armd)	1C-630 (Cu armoured)	1C-400 (GS armd)	3C-185 (GS-armd)
CuF	0.117	1.802	0.07	1.348	0.112	0.174	0.898	6.012	3.703	5.279
CCFCu	0.206	0.389	0.157	0.311	0.234	0.280	0.685	0.469	0.372	0.738
FeW	0.342	1.085	0.289	0.79	0.348	0.392	0.661	----	----	2.09
ALF	-----	----	-----		-----	-----				



Maharashtra State Power Generation Company Limited			
Bhusawal Project (1x660MW)			
Proforma of Vendor Approval			
Sr. No.	Information/ Particulars required	Details furnished along with documents thereof	Remarks if any
1	Name of System /Package/Item:		
2	Name of agency on whom order for the main work is placed		
3	Approval for (Name of construction material)		
4	Name of the vendors specified in contract document for this material		
5	Name of the proposed Sub Contractor(Vendor)		
6	Reasons for asking new vendor		
7	Details of supporting documents in lieu of above reasons		
8	Specific requirement of material in terms of dia, size, quantity etc.		
9	When the material is required & for which structure		
10	Whether vendor is Partnership/ Pvt./Public Ltd. Company		
11	Particular of registration with Government		
	i) GST registration No.		
	ii) Company registration No. & Incorporation Certificate		
	iii) PF & ESIC Certificate.		
	iv) Pan No.		
12	Address of vendor's factory		
13	Contact No. of vendor's representative for additional information		
14	Production Business Area		
16	Average annual turnover for last three years as per CA's Certificate		
17	Name of Companies where the vendor is registered		
18	Details of orders completed last 3 years (Quantity & amount)		
19	Details of orders in hand (Quantity & amount)		
20	Maximum value & quantity of work executed during last 3 years		
21	Name of the reputed, well known clients to whom the vendor has supplied the material		
22	End users Performance Certificate (Name & documents) along with the relevant PO.		
23	Any additional information		
24	Recommendation		

M/s BHEL

Sub-Contractor