

<b>PROJECT:</b>	<b>TANTRANSCO ARIYALUR</b>
<b>ITEM:</b>	<b>Supply of 800kV Bushing for Reactor</b>
<b>SUBJECT:</b>	<b>BID SPECIFIC ATC</b>

<b>1.</b>	For any <b>technical clarification</b> , please contact Mr. Jintu Gogoi, Dy. Manager (TBEM). Contact No. 0120-06748527; e-mail: jintugogoi@bhel.in
<b>2.</b>	For any <b>commercial clarification</b> , please contact Mr. Sandeep, Dy. Manager (TBMM). Contact No. 0120-6748540; e-mail: kumar.sandeep@bhel.in
<b>3.</b>	<b>Terms of Payment:</b>
(Supply & Services)	<p>As per GeM Bidding Documents (Payment due date shall be 90 days)</p> <p>Supply Payment:</p> <p>a) 100% of payment within 90 days from the date of receipt of complete invoice along with documents in 3 sets (original + 2 copies) as follows:</p> <ul style="list-style-type: none"> <li>• LR / GR duly endorsed by BHEL Site Official.</li> <li>• Material Receipt Certificate issued by BHEL Site Official.</li> <li>• GST Compliant Tax Invoice</li> <li>• Packing List (Case-wise)</li> <li>• Copy of Transit Insurance Certificate from underwriters.</li> <li>• Material Inspection Clearance Certificate (MICC) issued by BHEL Quality Management</li> <li>• Guarantee Certificate</li> <li>• Copy of Performance Bank Guarantee (PBG)</li> </ul> <p><b><i>Vendor has to submit the duly signed check-list along with Bill.</i></b></p>
<b>4.</b>	<b>Terms of Delivery:</b>
	As per GeM. However, unloading at site is in the scope of BHEL. Bidders to quote price accordingly.
<b>5.</b>	<b>Delivery Time:</b>
	<p>18 Weeks (126 days) from the date of PO by BHEL as per Activity schedule [(Annexure-A)]. Early Delivery is acceptable.</p> <p><b>Note:</b> In case, BHEL's delivery requirement is not met by vendor(s), then a chance may be given to all such vendors to review their quoted delivery schedule in line with BHEL's delivery requirement. However, if vendor fails to meet the requisite delivery plan, then BHEL reserves the right not to consider the offer of such vendor(s). Manufacturing for spares items shall be issued separately by BHEL.</p>
<b>6.</b>	<b>Prices:</b>
	The quoted prices shall be on <b>Firm basis including packing and forwarding charges</b> . Price to be quoted as inclusive of GST. i.e. Ex-Works + F&I + GST.
<b>7.</b>	<b>Liquidated Damage of delayed Delivery:</b>
	As per GeM terms and conditions.
<b>8.</b>	<b>Item &amp; BOQ:</b>
	<b>BOQ:</b> As per PO No. 158P020 Dated: 05.05.2018
<b>9.</b>	<b>Technical Specification:</b>
	As per PO No. 158P020 Dated: 05.05.2018. No permissible Technical Deviation has been envisaged. Bidders to quote as per Technical Specification.
<b>10.</b>	<b>Pre-Qualification Requirement:</b>
	As per approved drawings
<b>11.</b>	<b>MQP (Manufacturing Quality Plan):</b>
	MQP format is indicative only, however inspection shall be carried out as per approved Quality Plan. Supplier has to submit Quality Plan to BHEL for Customer approval.
<b>12.</b>	<b>Inspection:</b>

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Inspection shall be carried out as per customer as per approved Quality Plan.	
<b>13.</b>	<b>Destination / Delivery Location:</b>
BHEL C/o TANTRANSCO Substation Ariyalur Site, Ariyalur Vill. Post Sankarapuram, Taluk Dist. Villupuram, Tamilnadu GSTIN: 33AADCT4780AFZA  Contact Person: Sh. Vineet Kumar 9873525512	
<b>14.</b>	<b>Bill to Address:</b>
Bharat Heavy Electricals Limited-TBG, 10th Floor, Plot No.C-20/1A/1, Joy Tower, Sector-62, Noida-201301, U.P. <b>GSTN-09AAACB4146P2ZC</b>	

<b>15.</b>	<b>Guarantee Clause (Defect Liability Period):</b>
<b>The equipment / material supplied and services rendered (if applicable) shall be guaranteed to be free from all defects and faults in design &amp; engineering, material, workmanship &amp; manufacture and in full conformity with the Purchase Order / Contract, Technical Specifications &amp; approved drawings / data sheets, if any, "Eighteen (18) months from the date of last delivery.</b>	
<b>16.</b>	<b>Performance Bank Guarantee:</b>
Performance BG to be kept valid till the completion of guarantee period with 03 months claim period is extra.	
<b>17.</b>	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 found not available, Purchaser has right to reject such document from evaluation.
<b>18.</b>	<b>Acceptance of Offer:</b>
Bidder's offer will be technically acceptable subject to final acceptance of vendor by ultimate customer as approved supplier. Price Bid will be opened only for those bidders in respect of which vendor approval is received from WBPDC. Necessary credentials/documents to be submitted for approval by Customer as per format.	
<b>19.</b>	<b>Integrity Pact: Not Required</b>
<b>20.</b>	<b>Deviations:</b>
a) Technical Deviation: No Technical Deviation is envisaged. b) Commercial Deviation: No Commercial Deviation is envisaged.	
<b>21.</b>	All other terms & conditions shall be as per GTC of GeM

Signature & Seal of supplier

Date

Enclosure:

1. Activity Schedule (A)
2. Local Content Format
3. Technical & Commercial deviations sheet
4. BOQ

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## ACTIVITY SCHEDULE FOR MAIN ITEMS

## Annexure-A

SL. NO.	ACTIVITY	ACTIVITY TIME IN WEEKS
1.	Submission of documents necessary for getting manufacturing clearance Drawings, data sheets (In scope of vendor)	00
2.	Review and Approval of documents and issue of manufacturing clearance (In scope of BHEL)	01
3.	Manufacturing Time (In scope of vendor)	13
4.	Inspection (In scope of BHEL)	02
5.	Issue of MICC (In scope of BHEL)	01
6.	Dispatch (In scope of vendor)	01
		18 Weeks

**Note – 1** - Supplier to ensure every revised submission incorporating comments within 2 weeks from the date of comments by BHEL.

1. Inspection call to be issued 2 weeks in advance.
2. Supplier must ensure the completeness and correctness of the requisite documents before submission for approval. Delay in approval on account of incomplete / inadequate information shall be the responsibility of supplier.
3. Inspection call should be given in the prescribed format only. Inspection calls not in the prescribed format shall not be entertained.

Signature & Seal of Supplier

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### **Annexure-V**

<b>Item/Package Name :</b>	<b>BUSHING, 800kV</b>
<b>Enquiry No.:</b>	
<b>Project:</b>	<b>TANTRANSCO ARIYALUR</b>
<b>Type of project</b>	
<b>Percentage of Local Content</b>	<b>(Bidder to enter the applicable % of local content)</b>

**Format of Self certification regarding Local Content in line with PPP-MII order, 2017 & its revision dated 04.06.2020.**

**Date:.....**

I \_\_\_\_\_ S/o, D/o, W/o, \_\_\_\_\_ Resident of \_\_\_\_\_ hereby solemnly affirm and declare as under:

That I will agree to abide by the terms and conditions of the Public Procurement (Preference to Make in India) Order, 2017 (*hereinafter PPP-MII order*) of Government of India issued vide Notification No: P-45021/2/2017-BE-II dated 15/06/2017, its revision dated 04/06/2020 and any subsequent modifications/Amendments, if any.

That the information furnished hereinafter is correct to the best of my knowledge and belief and I undertake to produce relevant records before the procuring entity/BHEL or any other Government authority for the purpose of assessing the local content of goods/services/works supplied by me for ..... **(Enter the name of the Equipment/Item for Project).**

That the local content for all inputs which constitute the said goods/services/works has been verified by me and I am responsible for the correctness of the claims made therein.

That the goods/services/works supplied by me for ..... **(Enter the name of the Equipment/Item for Project)** contains.....% **(mention the Local content in %age)** Local Content.

That the value addition for the purpose of meeting the 'Minimum Local Content' has been made by me at ..... **(Enter the details of the location(s) at which value addition is made).**

That in the event of the local content of the goods/services/works mentioned herein is found to be incorrect and not meeting the prescribed supplier class categorization criteria as per said order, based on the assessment of procuring agency (ies)/BHEL/Government Authorities for the purpose of assessing the local content, action shall be taken against me in line with the PPP-MII order and provisions of the Integrity pact/ Bidding Documents.

I agree to maintain the following information in the Company's record for a period of 8 years and shall make this available for verification to any statutory authority.

- i. Name and details of the Local Supplier  
(Registered Office, Manufacturing unit location, nature of legal entity)
- ii. Date on which this certificate is issued

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## ***Annexure-V***

- iii. Goods/services/works for which the certificate is produced
- iv. Procuring entity to whom the certificate is furnished
- v. Percentage of local content claimed and whether it meets the Minimum Local Content prescribed
- vi. Name and contact details of the unit of the Local Supplier (s)
- vii. Sale Price of the product
- viii. Ex-Factory Price of the product
- ix. Freight, insurance and handling
- x. Total Bill of Material
- xi. List and total cost value of input used to manufacture the Goods/to provide services/in construction of works
- xii. List and total cost of input which are domestically sourced. Value addition certificates from suppliers, if the input is not in-house to be attached
- xiii. List and cost of inputs which are imported, directly or indirectly

For and on behalf of..... (Name of firm/entity)

**Authorized signatory (To be duly authorized by the Board of Directors)**

<Insert Name, Designation and Contact No.>

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### **SCHEDULE OF COMMERCIAL DEVIATION**

The following are the deviations/ variations exception from the General Terms and Conditions:

<b>SL. NO.</b>	<b>CLAUSE NO. OF TERMS AND CONDITIONS</b>	<b>STATEMENT OF DEVIATION</b>
	NIL DEVIATION	NIL DEVIATION

In case, this schedule is not submitted, it will be presumed that the equipment /material to be supplied under this contract is deemed to be in compliance with the General Terms and Conditions.

If there is NIL deviation, even then the format to be filled as NIL DEVIATION.

**Note :** 1. Continuation Sheets of like size and format may be used as per the Bidder's Requirement and shall be annexed to this schedule.

2. Deviation mentioned in this schedule shall only be considered.

**This Format is to be submitted in original duly signed by bidder.  
Reproduction of the same in any sort is not acceptable.**

Place: .....

Date : .....

Signature of the authorized representative of

Bidder's name

:.....

Designation:.....

..

Company

Seal:.....

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### **SCHEDULE OF TECHNICAL DEVIATION**

The following are the deviations/ variations exception from the Technical Specifications:

SL. NO.	CLAUSE NO. OF TERMS AND CONDITIONS	STATEMENT OF DEVIATION
	NIL DEVIATION	NIL DEVIATION

In case, this schedule is not submitted, it will be presumed that the equipment /material to be supplied under this contract is deemed to be in compliance with the Technical Specifications,

If there is NIL deviation, even then the format to be filled as NIL DEVIATION.

**Note : 1.** Continuation Sheets of like size and format may be used as per the Bidder's Requirement and shall be annexed to this schedule.

**2.** Deviation mentioned in this schedule shall only be considered.

**This Format is to be submitted in original duly signed by bidder.  
Reproduction of the same in any sort is not acceptable.**

Place: .....  
Date : .....

Signature of the authorized representative of

Bidder's name :.....  
Designation:.....


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<b>Item No.</b>	<b>Item Description</b>	<b>Item Quantity</b>	<b>Unit of Measure</b>	<b>Unit Price (Inclusive of F&amp;I &amp; GST)</b>	<b>GST % Applicable</b>
1	REACTOR: 800kV, 2500A, OIP Bushing	01	No	Mention as "Quoted"	Mention GST %

Signature & Seal of Supplier  
Date:

**Note : This procurement is reserved for OEM (M/s CG Power Industrial Solution Ltd.)**



	Document : LIST OF BUSHINGS	Issue Date : 18.05.2018
	Document N° : CGT3-LOB-14681E	Rev : 0
	CG Work Order N° : BH11068	Rev Date :

**1. LIST OF BUSHINGS**

Terminals	Bushing Drg No & Make	Rating
HV	3 SBD 330 - CGL	800kV 2500A 600 BCT OIP Bushing
HVN	3 SBD 432 - CGL	145kV 1250A 600 BCT OIP Bushing

Bushing drawings are attached



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ITEM DESCRIPTION

MATERIAL

FINISH

QTY.

1 HV TERMINAL

COPPER

NICKEL PLATED

1 NO.

2 OIL FILLING/SAMPLING VALVE

STEEL

NICKEL CHROME PLATED

1 NO.

3 CONSERVATOR

AL-ALLOY

---

1 NO.

4 OIL INDICATOR PRISMATIC

ALUMINIUM

---

1 NO.

5 AIR END PORC. INSULATOR

PORCELAIN

BROWN GLAZED

1 NO.

6 RATING PLATE

ALUMINIUM

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1 NO.

7 TEST TAP ASSLY.

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1 NO.

8 MOUNTING FLANGE

AL-ALLOY

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1 NO.

9 OIL END PORC. INSULATOR

PORCELAIN

BROWN GLAZED

1 NO.

10 BOTTEM END CAP

BRASS

NICKEL PLATED

1 NO.

11 AIR VENT PLUG

BRASS

NICKEL PLATED

1 NO.

12 CONDENSER CORE

OIL IMPREG.PAPER

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1 NO.

13 ---

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16 BOTTOM SHIELD

ALUMINIUM

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1 NO.

17 BOTTOM TERMINAL

BRASS

NICKEL PLATED

1 NO.

TECHNICAL DETAILS

TYPE: STEM TYPE CONDENSER BUSHING WITH OIL IMPREGNATED PAPER INSULATION.

RATED VOLTAGE(L-L) = 800 kV

RATED VOLTAGE(L-E) = 462 kV

RATED CURRENT = 2500 A

P.F. WITHSTAND VOLTAGE(DRY) = 970 kV

L.I. / S. I. WITHSTAND VOLTAGE = 2100 / 1550 kVp

TOTAL CREEPAGE DISTANCE (Min.) = 20000 mm

CANTILEVER WITHSTAND LOAD = 5000 N

REFERENCE STANDARD = IEC 60137:2008

TAN DELTA AT AMBIENT TEMPERATURE : < 0.004

PARTIAL DISCHARGE LEVEL AT Um : < 10 pC

TOTAL MASS = 3500 kg±10% TOTAL OIL QUANTITY= 600 Ltr. ±10%

REFER INSTRUCTION MANUAL FOR ERECTION & MAINTENANCE

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TEST TAP DETAIL

TYPICAL SHED PROFILE

BOTTOM TERMINAL DETAIL

BOTTOM SHIELD DETAIL

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