

# **BID-Supporting Docs-Lighting** **Poles-Bhusawal**

- 1-Technical Requirement
- 2- Technical PQR
- 3- Quality plan
- 4- Delivery Schedule
- 5- Vendor approval Performa
- 6- all Other Documents

**1X660MW BHUSAWAL TPS**  
**BOQ CUM PRICE SCHEDULE OF LIGHTING POLES**

S. No.	ITEM CODE	DESCRIPTION	UNIT	QUANTITY
1	558-14011-A	POLES TYPE PS1 (PAINTED)	NOS	110
2	558-14012-A	POLES TYPE PS2 (PAINTED)	NOS	200
3	558-14010-A	POLES TYPE PF2 (PAINTED)	NOS	65


	<b>PRE-QUALIFICATION REQUIREMENTS FOR POLES &amp; HIGH MASTS</b>	PE-PQ-999-558-E004
		REVISION NO. 01    DATE    18/03/2017
		SHEET NO. 1 OF 1

**ITEMS :** POLES & HIGH MASTS

**SCOPE :** Supply : YES; Erection & Commissioning : NO

<b>A.</b>	<b>For Poles</b>
	Vendor should be a manufacturer of lighting poles as per relevant IS. In case the vendor is not a manufacturer, the vendor to furnish the following documents:
1.0	a) Undertaking / agreement from OEM of offered make for support in design, manufacture, inspection & testing of poles. b) Credentials of the manufacturer of offered make to meet the PQR requirements of S. no. A-2.0 to 4.0 below. c) Vendor's Credentials to meet S. no. A-5.0.
2.0	Availability of test reports of lighting poles conducted at Govt. Lab/ Govt. approved Independent lab or witnessed by third party as per relevant IS.
3.0	Capacity of manufacturing 50 lighting poles per month.
4.0	Manufactured and supplied at least 100 lighting poles in one or more orders.
5.0	Minimum two (2) nos. purchase orders for lighting poles shall be submitted which should not be more than five (5) years old from the date of application for registration or date of techno- commercial bid opening (as applicable) for establishing continuity in business.
<b>B.</b>	<b>For High Masts</b>
	Vendor should be a manufacturer of high masts as per relevant IS. In case the vendor is not a manufacturer, the vendor to furnish the following documents:
1.0	a) Undertaking / agreement from OEM of offered make for support in design, manufacture, inspection & testing of masts. b) Credentials of the manufacturer of offered make to meet the PQR requirements of S. no. B-2.0 to 3.0 below. c) Vendor's Credentials to meet S. no. B-4.0.
2.0	Availability of test reports of high masts conducted at Govt. Lab/ Govt. approved Independent lab or witnessed by third party as per relevant IS.
3.0	Manufactured and supplied at least 5 nos. high masts in one or more orders.
4.0	Minimum two (2) nos. purchase orders for high masts shall be submitted which should not be more than five (5) years old from the date of application for registration or date of techno- commercial bid opening (as applicable) for establishing continuity in business.

<b>PREPARED BY</b> <i>Devendra Singh</i> <b>NAME:</b> DEVENDRA SINGH <b>DESIGNATION:</b> SR. ENGINEER	<b>REVIEWED BY</b> <i>Rajesh R. Goyal</i> <b>NAME:</b> Rajesh R. Goyal <b>DESIGNATION:</b> Asst. Engr	<b>APPROVED BY</b> <i>Meena Keshi</i> <b>NAME:</b> Meena Keshi <b>DESIGNATION:</b> GM
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	<b>PRE-QUALIFICATION REQUIREMENTS FOR POLES &amp; HIGH MASTS</b>	PE-PQ-999-558-E004
		REVISION NO. 01    DATE    18/03/2017
		SHEET NO. 1 OF 1

**NOTES:**

1. For cases involving both lighting poles and high masts, the vendor can offer lighting poles of one make and high masts of another make meeting criteria above and accordingly furnish documents for credentials to meet PQR as at S.no. A & B.
2. For cases involving only lighting poles, PQR as at S.no. A (and not B) only are applicable. For cases involving only high masts, PQR as at S.no. B (and not A) only are applicable.
3. Consideration of offer shall be subject to customer's approval of bidders, if applicable.
4. Bidder to submit all supporting documents in English. If documents submitted by bidder are in language other than English, a self-attested English translated document should also be submitted.
5. Any other project specific requirement shall be as per Annexure-I and bidder shall submit relevant supporting documents.
6. Notwithstanding anything stated above, BHEL reserves the right to assess the capabilities and capacity of the bidder/collaborators to perform the contract, should the circumstances warrant such assessment in the overall interest of BHEL.
7. After satisfactory fulfillment of all the above criteria/ requirement, offer shall be considered for further evaluation as per NIT and all the other terms of the tender.

PREPARED BY <i>Devendra Singh</i> NAME: <b>DEVENDRA SINGH</b> DESIGNATION: <b>SR. ENGINEER</b>	REVIEWED BY <i>R. Goyal</i> NAME: <b>R. Goyal</b> DESIGNATION: <b>AGM</b>	APPROVED BY <i>Meena Kesri</i> NAME: <b>Meena Kesri</b> DESIGNATION: <b>GM</b>
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## ANNEXURE – I

### PROJECT SPECIFIC CRITERIA AGAINST ENQUIRY

#### PROJECT: 1x660MW BHUSAWAL TPS

1. Bidder should have supplied/provided **LIGHTING POLES** for at least one thermal power plant of 500 MW or above capacity which has completed one year of commercial operation and the equipment supplied should have completed the contractual guarantee period or should have supplied **LIGHTING POLES** of rating/type/size as required under the contract to any power plant.
2. **LIGHTING POLES** shall be in successful operation for similar duty condition and similar application for minimum one (1) year as on 06.08.2018.
3. In support of above criteria, along with bid, bidder to submit credentials for scrutiny & approval.
4. In case of any conflict of project specific PQR with main PQR, vendor to furnish document meeting the stringent requirement between the main PQR and project specific PQR.

**Rahul Kumar Shrivastava**  
Digitally signed by Rahul Kumar Shrivastava  
DN: cn=Rahul Kumar Shrivastava, o=BHEL, ou=PEM, email=rkshrivastava@bhel.in, c=IN  
Date: 2021.04.07 18:21:35 +05'30'

**Rahul Kumar Shrivastava**  
[Dealing Engineer]

**KANHAIYA KUMAR A KUMAR**  
Digitally signed by KANHAIYA KUMAR  
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**Kanhaiya Kumar**  
[Controlling Officer]

**okumar**  
Digitally signed by okumar  
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**Omkar Kumar**  
[Section Head]


**DEBASISA RATH**  
Debasisa Rath  
[DH-Electrical]  
Digitally signed by DEBASISA RATH  
DN: cn=DEBASISA RATH ELECTRICAL LIMITED, ou=BHEL, ou=PEM, postalCode=201001, st=UTTAR PRADESH, c=IN  
Date: 2021.04.20 16:06:47 +05'30'

### GEM PARAMETERS FOR LIGHTING POLES

		For BOQ Item Code 558-14011-A POLES TYPE PS1 (PAINTED)	For BOQ Item Code 558-14012-A POLES TYPE PS2 (PAINTED)	For BOQ Item Code 558-14010-A POLES TYPE PF2 (PAINTED)
1	Type of steel poles	Swaged (SP)	Swaged (SP)	Swaged (SP)
2	Coating on the tubular steel poles	Bitumen coated as per Clause 13.1 of IS 2713 part1/1980		
3	Length of Tubular steel poles (Metre)	11	13	11
4	Designation of Tubular steel poles as per table 2 of IS 2713/80 Part-2 with amdt No 1	410SP-51	410SP-67	410SP-51

### ADDITIONAL PARAMETERS

		For BOQ Item Code 558-14011-A POLES TYPE PS1 (PAINTED)	For BOQ Item Code 558-14012-A POLES TYPE PS2 (PAINTED)	For BOQ Item Code 558-14010-A POLES TYPE PF2 (PAINTED)
1	Tubular steel poles shall be conforming to IS 2713/80 (Part-1&2) with amdt No-1 latest	Yes		
2	Grade of steel tube	YST 240 as per IS 1161/ 1998		
3	Base plates	Base plates- Required, Base Plate shall be as per clause 15 of IS 2713(Part-1)/1980		
4	Bracket Arm	Street Lighting Pole for one luminaire with 1200mm bracket arm, 15 Deg. Upward from horizontal axis.	Street Lighting Pole for one luminaire with 1800mm bracket arm, 15 Deg. Upward from horizontal axis.	Flood Lighting Pole with suitable mounting arrangement for two flood light luminaires and fixing hole to turn fixture by 5 Deg.
5	i) Availability of Type Test Reports of the product from Central Govt/NABL/ILAC accredited Lab showing compliance to the specification  ii) Test report and approvals to be furnished to the buyer on demand	i) Yes  ii) Yes		
6	Junction Box: - i) Enclosure Material ii) Enclosure Thickness iii) Degree of Protection iv) Surface Treatment v) Termination vi) Earthing	Junction Box: External i) Enclosure Material: CRCA ii) Enclosure Thickness: 2 mm iii) Degree of Protection: IP-55 (Weather proof) iv) Surface Treatment : Hot Dip Galvanised (Zn coating 460gm/m2 min Wt, 70 Micron Average Thickness) v) Provided with four (4) ways stud type terminals, each terminal suitable for terminating up to two nos. of 3.5Cx50 mm2 stranded aluminium conductors & with one no.6A HRC fuse and link/ MCB. vi) The junction boxes shall be provided with two earthing terminals suitable for 14SWG GI earthing wires.		
7	i) Cable Gland of Nickel Plating, Brass, Double Compression Type ii) Size Suitable for Cable Size: iii) Cable lugs of Tinned Copper, Crimping Type	i) Cable Gland of Nickel Plating, Brass, Double Compression Type: Yes ii) Size Suitable for Cable Size: 3.5Cx25/50 Sq.mm Al Armoured iii) Cable lugs of Tinned Copper, Crimping Type : Yes		
8	Painting & Coating	The pole shall be coated with bituminous preservative paint on inside as well as embedded outside surface. Exposed surface shall be coated with two coats of metal primer (comprising red oxide and zinc chromate in synthetic medium)		
9	Provision for earthing of poles	Provision for earthing shall be provided for poles at a height 1 metre above the ground (MS flat size shall be informed during detailed engineering). The pole shall be earthed at two points.		

	MANUFACTURER / BIDDER / SUPPLIER NAME & ADDRESS		STANDARD QUALITY PLAN				SPEC. NO : PE-RC-999-558-E004, R0	DATE:
			CUSTOMER :		QP NO.: PE-QP-999-558-E004, REV.01	DATE: 20.03.2021		
			PROJECT:		PO NO.:	DATE:		
			ITEM: POLE (SWAGED/STEPPED)		SYSTEM: POLES & MAST	SECTION:	SHEET 1 OF 4	

SL NO.	COMPONENT & OPERATIONS	CHARACTERISTICS	CLASS	TYPE OF CHECK	QUANTUM OF CHECK		REFERENCE DOCUMENT	ACCEPTANCE NORMS	FORMAT OF RECORD		AGENCY			REMARKS	
					M	C/N			9	*	D	M	C		N
1	2	3	4	5		6	7	8			**				


1.0 RAW MATERIAL

1.1	Steel Tube	(a) Chemical composition	Major	Chemical Analysis	Sample: IS-4711, Annex-A		IS-2713, IS:228	IS-2713, IS:228	INSPN REPORT, TEST CERTIFICA TES	✓	P	V	V	
1.2		(b) Physical Properties	Major	Physical tests	Sample: IS 4711, Table-2		IS-2713, IS:1161 & IS : 1608	IS-2713, IS : 1161 & IS : 1608	INSPN REPORT, TEST CERTIFICA TES	✓	P	V	V	COLD BEND TEST NEED NOT BE CARRIED OUT

2.0 IN PROCESS INSPECTION

2.1	Galvanization	Temperature of bath	Major	Measurement	Continuous		IS-2629	IS-2629	QC Record		P/ V	-	-	
2.2		Dross	Major	Visual	Periodic		IS-2629	IS-2629	QC Record		P/ V	-	-	
2.3		Rate of immersion	Major	Visual	100%		IS-2629	IS-2629	QC Record		P/ V	-	-	
2.4		Surface finish	Major	Visual	100%		IS-2629	Free from burrs, roughness, slag flux, stain etc.	QC Record		P/ V	-	-	

BHEL				BIDDER/ SUPPLIER				FOR CUSTOMER REVIEW & APPROVAL				
ENGINEERING		QUALITY		Sign & Date	Seal	Doc No:	Sign & Date			Seal		
Prepared by:	Sign & Date	Name	Checked By:	Sign & Date	Name	Reviewed by:	Sign & Date			Seal		
Reviewed by:	PRAVEEN DUTTA	HARI CHAND	Reviewed By:	Ritesh Kumar Jaiswal	Suman Nakwal	Approved by:						

	MANUFACTURER / BIDDER / SUPPLIER NAME & ADDRESS		STANDARD QUALITY PLAN				SPEC. NO : PE-RC-999-558-E004, R0	DATE:
			CUSTOMER :	QP NO.: PE-QP-999-558-E004, REV.01	DATE: 20.03.2021			
			PROJECT:	PO NO.:	DATE:			
			ITEM: POLE (SWAGED/STEPPED)	SYSTEM: POLES & MAST	SECTION:	SHEET 2 OF 4		

SL NO.	COMPONENT & OPERATIONS	CHARACTERISTICS	CLASS	TYPE OF CHECK	QUANTUM OF CHECK		REFERENCE DOCUMENT	ACCEPTANCE NORMS	FORMAT OF RECORD	AGENCY			REMARKS
1	2	3	4	5	M	6	C/N	7	8	9	*	D	**

3.0 FINAL INSPECTION


3.1	Lighting Pole	Workmanship & Finish	Major	Visual	Sample: 20%	same as 6M	BHEL Approved Drawing/ IS-2713, IS 1161	BHEL Approved Drawing/ IS-2713, IS 1161	Inspection Report	✓	P	W	W
3.2		Dimensions	Major	Visual & Measurement	Sample: 20%	same as 6M	BHEL Approved Drawing/ APPD DRG/ APPD DATASHEET/ IS-2713	BHEL Approved Drawing/ APPD DRG/ APPD DATASHEET/ IS-2713	Inspection Report	✓	P	W	W
3.3		Weight	Major	Visual & Measurement	Sample: 20%	same as 6M	BHEL Approved Drawing/ APPD DRG/ APPD DATASHEET/ IS-2713	BHEL Approved Drawing/ APPD DRG/ APPD DATASHEET/ IS-2713	Inspection Report	✓	P	W	W
3.4		Tests as per IS-2713 Cl. No 10.0 a) Tensile test and chemical analysis for	Critical	Physical Tests	Sample: IS-2713	same as 6M	IS-2713	IS-2713	Inspection Report	✓	P	W	W

BHEL			
ENGINEERING		QUALITY	
Prepared by:	HARI CHAND	Name	Suman Nakwal
Reviewed by:	PRAVEEN DUTTA	Checked By:	Ritesh Kumar Jaiswal

BIDDER/ SUPPLIER	
Sign & Date	Seal


FOR CUSTOMER REVIEW & APPROVAL			
Doc No:	Sign & Date	Name	Seal
Reviewed by:			
Approved by:			



	<b>MANUFACTURER / BIDDER / SUPPLIER NAME &amp; ADDRESS</b>		<b>STANDARD QUALITY PLAN</b>				SPEC. NO. : PE-RC-999-558-E004, R0		DATE:			
							CUSTOMER :		QP NO.: PE-QP-999-558-E004, REV.01		DATE: 20.03.2021	
							PROJECT:		PO NO.:		DATE:	
							ITEM: POLE (SWAGED/STEPPED)		SYSTEM: POLES & MAST		SECTION:	

SL NO.	COMPONENT & OPERATIONS	CHARACTERISTICS	CLASS	TYPE OF CHECK	QUANTUM OF CHECK		REFERENCE DOCUMENT	ACCEPTANCE NORMS	FORMAT OF RECORD	AGENCY			REMARKS		
1	2	3	4	5	M	C/N	7	8	9	*	D	M	C	N	REMARKS
		Sulphur and phosphorus, b) Deflection test, c) Permanent set test, and d) Drop test.													
3.5		Galvanizing (as applicable )	Major	Measurement	Sample: IS4759 (Table-2)		Rando m	BHEL Approved Drawing/ data sheet/IS2629,26 33,4759	Inspection Report	✓	P	W	W		
3.6		a. Paint shade (painting as applicable) b. Painting thickness(painting as applicable)	Major	Visual	Sample: 20%		same as 6M	BHEL Specification	Inspection Report	✓	P	W	W		
3.7		Marking	Major	Visual	Sample: 20%		same as 6M	IS 2713 Cl. 13	Inspection Report	✓	P	W	W		
4.0	Accessories (including Steel Pole Junction boxes, MS plate, fixing brackets, pipe reducer, Cable glands,	Physical	MA	Visual	1 Lot	--	Approved datasheet/ Dwg.	Approved datasheet/ Dwg.	Inspection Report	✓	P	V	-		Witness of Quantity as per BOQ

BHEL						FOR CUSTOMER REVIEW & APPROVAL				
ENGINEERING			QUALITY			BIDDER/ SUPPLIER				
Prepared by:	HARI CHAND	Name	Hari Chand	Checked By:	Suman Nakwal	Sign & Date	Seal	Doc No:		
Reviewed by:	PRAVEN DUTTA	Name	Praveen Dutta	Reviewed By:	Ritesh Kumar Jaiswal	Sign & Date	Seal	Reviewed by:	Sign & Date	Name
								Approved by:		Seal

	MANUFACTURER / BIDDER / SUPPLIER NAME & ADDRESS		STANDARD QUALITY PLAN				SPEC. NO : PE-RC-999-558-E004, R0	DATE:
			CUSTOMER :	QP NO.: PE-QP-999-558-E004, REV.01	DATE: 20.03.2021			
			PROJECT:	PO NO.:	DATE:			
			ITEM: POLE (SWAGED/STEPPED)	SYSTEM: POLES & MAST	SECTION:	SHEET 4 OF 4		

SL NO.	COMPONENT & OPERATIONS	CHARACTERISTICS	CLASS	TYPE OF CHECK	QUANTUM OF CHECK		REFERENCE DOCUMENT	ACCEPTANCE NORMS	FORMAT OF RECORD	AGENCY			REMARKS
1		3	4	5	M	6	7	8	9	*	**		
						C/N				D	M	C	N
	cable lugs, gland plates, Foundation bolts, PVC grommet & rubber for wiring hole, nuts, bolts, screws etc.												
5.0	Packing	Soundness of packing & Labelling with packing list	MA	Visual	100%	100%	BHEL Spec	BHEL Spec	Log book/ Packing list	✓	P	W	-
													Applicable for all accessories items supplied as loose items.

Notes:

1. BHEL reserves the right for conducting repeat test, if required.
2. In case of foreign supplier, all test certificates shall be furnished by the supplier, duly witnessed/ verified by supplier's TPI.
3. Project specific Quality Plan to be developed based on customer requirement.
4. Latest revision/ year of issue of all the standards (IS/ ASME/ IEC etc.) indicated in QP shall be referred.
5. Material shall be packed suitably in order to avoid damage during transit and also during storage at site in tropical climate conditions.
6. For export job, packing shall be as per BHEL seaworthy packing specification.
7. Photographs of items duly placed inside the box just before the final packing and photographs of the box just before dispatch to be sent to BHEL purchase group for review before issuing MDCC.

**LEGENDS:**  
\*RECORDS, IDENTIFIED WITH "TICK"(✓) SHALL BE ESSENTIALLY INCLUDED BY SUPPLIER IN QA DOCUMENTATION,  
\*\* MI: SUPPLIER/ MANUFACTURER/ SUB-SUPPLIER, C: MAIN SUPPLIER/ BHEL/ THIRD PARTY INSPECTION AGENCY, N: CUSTOMER,  
P: PERFORM, W: WITNESS, V: VERIFICATION, AS APPROPRIATE  
MA: MAJOR, MI: MINOR, CR: CRITICAL

BHEL			
ENGINEERING		QUALITY	
Prepared by:	HARI CHAND	Checked By:	Suman Nakwal
Reviewed by:	Praveen Dutta	Reviewed By:	Ritesh Kumar Jaiswal
Sign & Date		Sign & Date	
Seal		Seal	
Doc No:		FOR CUSTOMER REVIEW & APPROVAL	
Reviewed by:		Name	
Approved by:		Seal	

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

## **GEM Tender-BHUSAWAL-Poles - RISK & COST PURCHASE CLAUSE- Annexure-II**

BHEL reserves the right to terminate the contract or withdraw portion of work and get it done through other agency, at the risk and cost of the contractor after due notice of a period of 14 days' by BHEL in any of the following cases:

- i) If the Seller/Contractor fails to deliver the goods or materials or any instalment thereof within the period(s) fixed for such delivery or the Seller's poor progress of the supply/ services vis-à-vis delivery/execution timeline as stipulated in the Contract, backlog attributable to seller including unexecuted portion of supply does not appear to be executable within balance available period;
- ii) Delivers goods or materials not of the contracted quality and failing to adhere to the contract specifications;
- iii) Withdrawal from or repudiation/ abandonment of the supply/ services by Seller before completion as per contract or if the Seller refuses or is unable to supply goods or materials covered by the Order/Contract either in whole or in part or otherwise fails to perform the Order/Contract;
- iv) Non-supply by the Seller within scheduled completion/delivery period as per Contract or as extended from time to time, for the reasons attributable to the Seller;
- v) Termination of Contract on account of any other reason (s) attributable to Seller.
- vi) Assignment, transfer, subletting of Contract without BHEL's written permission resulting in termination of Contract or part thereof by BHEL.
- vii) If the Seller be an individual or a sole proprietorship Firm, in the event of the death or insanity of the Seller;
- viii) If the Seller/Contractor being an individual or if a firm on a partnership thereof, shall at any time, be adjudged insolvent or shall have a receiving order for administration of his estate made against him or shall take any proceeding for composition under any Insolvency Act for the time being in force or make any assignment of the Order/Contract or enter into any arrangement or composition with his creditors or suspend payment or if the firm dissolved under the Partnership Act;
- ix) If the Seller/Contractor being a company is wound up voluntarily or by order of a Court or a Receiver, Liquidator or Manager on behalf of the debenture holders and creditors is appointed or circumstances shall have arisen which entitles the Court of debenture holder and creditors to appoint a receiver, liquidator or manager;
- x) Non-compliance to any contractual condition or any other default attributable to Seller.

Such defaulting vendor/Seller shall not be eligible to participate in re-tendering conducted on account of risk purchase made due to fault of such vendor/Seller.

### **3.1 Risk & Cost Amount against Balance Work:**

Risk & Cost amount against balance work shall be calculated as follows:

$$\text{Risk \& Cost Amount} = [(A-B) + (A \times H/100)]$$

Where,

A= Value of Balance scope of Work (\*) as per rates of new contract

## **GEM Tender-BHUSAWAL-Poles - RISK & COST PURCHASE CLAUSE- Annexure-II**

B= Value of Balance scope of Work (\*) as per rates of old contract being paid to the contractor at the time

of termination of contract i.e. inclusive of PVC & ORC, if any.

H = Overhead Factor to be taken as 5

In case (A-B) is less than 0 (zero), value of (A-B) shall be taken as 0 (zero).

### **3.2 \* Balance scope of work (in case of termination of contract):**

Difference of Contract Quantities and Executed Quantities as on the date of issue of Letter for 'Termination of Contract', shall be taken as balance scope of Work for calculating risk & cost amount.

Contract quantities are the quantities as per original contract. If, Contract has been amended, quantities as per amended Contract shall be considered as Contract Quantities.

Items for which total quantities to be executed have exceeded the Contract Quantities based on drawings issued to contractor from time to time till issue of Termination letter, then for these items total Quantities as per issued drawings would be deemed to be contract quantities.

Substitute/ extra items whose rates have already been approved would form part of contract quantities for this purpose.

Substitute/ extra items which have been executed but rates have not been approved, would also form part of contract quantities for this purpose and rates of such items shall be determined in line with contractual provisions.

However, increase in quantities on account of additional scope in new tender shall not be considered for this purpose.

NOTE: In case portion of work is being withdrawn at risk & cost of contractor instead of termination of contract, contract

quantities pertaining to portion of work withdrawn shall be considered as 'Balance scope of work' for calculating Risk &

Cost amount.

### **3.3 LD against delay in executed work in case of Termination of Contract:**

LD against delay in executed work shall be calculated in line with LD clause no. 16 of GCC, for the delay attributable to

contractor. For limiting the maximum value of LD, contract value shall be taken as Executed Value of work till termination

of contract.

Method for calculation of LD against delay in executed work in case of termination of contract" is given below.

i. Let the time period from scheduled date of start of work till termination of contract excluding the period of

Hold (if any) not attributable to contractor = T1

ii. Let the value of executed work till the time of termination of contract = X

**GEM Tender-BHUSAWAL-Poles - RISK & COST PURCHASE CLAUSE- Annexure-II**

iii. Let the Total Executable Value of work for which inputs/fronts were made available to contractor and were

planned for execution till termination of contract = Y

iv. Delay in executed work attributable to contractor i.e.  $T2 = [1-(X/Y)] \times T1$

v. LD shall be calculated in line with LD clause (clause 16) of the Contract for the delay attributable to contractor taking "X" as Contract Value and "T2" as period of delay attributable to contractor.

**3.4. Recoveries arising out of Risk & Cost and LD or any other recoveries due from Contractor**

Without prejudice to the other means of recovery of such dues from the Seller recoveries from the Seller on whom risk & cost has been invoked shall be made from the following:

- a) Dues available in the form of Bills payable to seller, SD, BGs against the same contract.
- b) Dues payable to seller against other contracts in the same Region/Unit/ Division of BHEL.
- c) Dues payable to seller against other contracts in the different Region/Unit/ division of BHEL.

In-case recoveries are not possible with any of the above available options, Legal action shall be initiated for recovery against contractor.

## 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: Bid No.- ..

Name of Package: .LIGHTING POLES

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. .... 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

**An undertaking regarding Model Clauses (To be provided alongwith bid)**

Reference:

**RA/Bid no:**

**Item: LIGHTING POLES**

**Project: 1 X 660 MW BHUSAWAL TPP**

**TO WHOM SO IT MAY CONCERN**

This is with reference to Ministry of Finance circular dated 23.07.20 reg. restriction under rule 144 (xi) of GFR.

“I have read the clause regarding restrictions on procurement from a bidder of a country which shares a land border with India. I hereby certify that M/s .....is not from such a country and is eligible to be considered against Bid/RA no: .....”

Sign & Signature

Date:

Place: