**ITEM: SUPPLY OF CONDUCTOR ROD & MS PLATES** 

**Drawings, Technical PQR & QAP: AS ATTACHED** 

**Quantity:** As per attached BOQ

#### **BILL OF MATERIAL (BOM):**

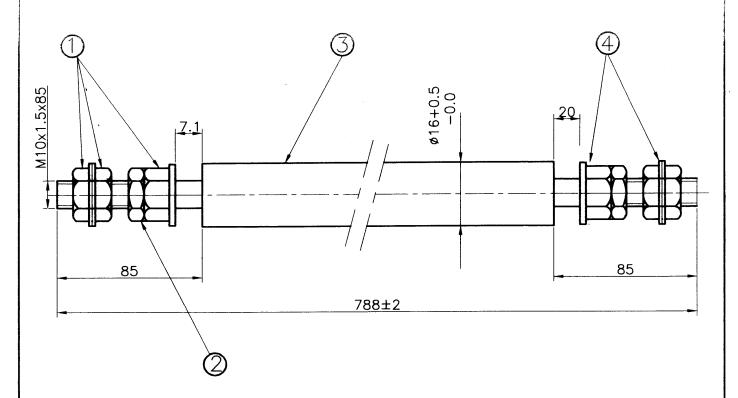
Sr. No.	BHEL Item Code	Description of Item/Specification	Quantity	UOM	Technical PQR & Drawings
1	124382	COND'R ROD-G-(WASHER & NUT) 49820519923/01	105	Nos	AS ATTACHED
2	122502	MS PLATE, DRG 4 982 05 19922 REV 00 (G)	210	Nos	AS ATTACHED

- Bidder to provide signed & Sealed GEM BID, Technical PQR, Technical specification & Annexure No. A/12303801/28.02.2024 with their offer.
- 2. <u>To get MSE preference</u>, bidder to choose MSE purchase preference on GEM portal during offer submission otherwise purchase preference shall not be applicable.
- 3. <u>To get MII preference</u>, bidder to choose MII purchase preference on GEM portal and bidder to submit signed local content declaration otherwise purchase preference shall not be applicable.
- 4. Item shall be manufactured as per attached drawings.
- 5. Delivery Schedule: Material shall be supplied to BHEL SBD MP Stores, Bangalore within 30 days from the date of PO.
- **6.** Delivery location: BHEL SBD MP Stores Bangalore-560012 as per GeM consignee.
- 7. Price basis: Price shall be firm till completion of the contract. No PVC is applicable. F.O.R. Destination basis inclusive of packing, forwarding & freight charges, testing (IF ANY), & insurance charges.
- **8.** Payment terms: Hundred Percent (100%) of basic price of the material supplied as per PO, along with 100% taxes & duties (as applicable) shall be payable on pro-rata as per following manner
  - (i) 45 days for Micro & Small Enterprises (MSEs)
  - (ii) 60 days for Medium Enterprises
  - (iii) 90 days for Non-MSME

from the date of receipt of goods at BHEL SBD and receipt of complete documents at BHEL SBD as specified in Clause No. 9 below subject to acceptance of materials. [i.e. date of acceptance of material or date of submission of complete set of documents (whichever is later) shall be considered for reckoning the due date of payment.]

- **9.** Documents to be Submitted by Vendor for payment:
  - Original GST compliant invoice. (Original for Buyer copy)
  - Copy of LR/ Delivery Challan for local supplier in place of LR
- **10.** Invoice to be made as per the prevailing GST format only. TDS Deductions applicable as per GST Law & TDS certificate shall be issued by BHEL in line with the latest amendment in GST Law.
- **11.** LD/Penalty: As per GeM general T&C.
- **12.** Guarantee period: As per GeM general T&C. Further, supplied material should be durable and vendor should guarantee for its durability for minimum three years in use.
- 13. Technical PQR- requirement i.e. Years of Past Experience of 01 year as per technical PQR.
- **14.** Past Experience shall be supply of 48% of bid quantity.
- **15.** Minimum Average Annual Turnover of the Bidders: Not applicable.
- **16.** Inspection, sample and Quality Clearance: As per QAP.

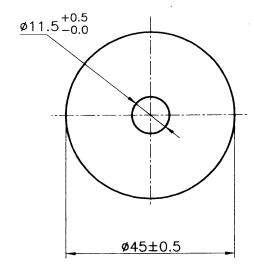
	UNPRICED BOQ FOR 12303801											
Item Number	Item Code Item Description			UOM	[PI mention only QUOTED]	Applicable GST %	HSN Code					
1	124382	COND'R ROD-G-(WASHER &NUT)49820519923/01	105	EA								
2	122502	MS PLATE , DRG 4 982 05 19922 REV 00 (G)	210	EA								

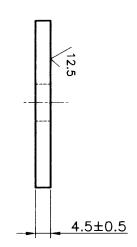


### NOTE:

- 1. ALL DIMENSIONS ARE AFTER HOT DIP GALVANIZE
- 2. TO BE GALVANIZED AFTER ALL MACHINING AND THREADING
- 3. SHARP CORNERS TO BE ROUNDED OFF BY R2
- 4. MATERAIL: MILD STEEL Gr. 'A' OF IS: 2062-1992 FOR CONDUCTOR ROD
- 5. NUTS TO BE CONFORM TO IS:1364(PART3)-2002.
- 6. LOCK NUT TO BE CONFORM TO IS:1364(PART4)-2003

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<u>ل</u> 4	REV	DATE	ALTERE	D A	-	4	PLAN	E WASH	ER(M10)	MILD ST	EEL		-	6
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2 0 2	. QTY	OF ITE	M No 2 W.	45 6		1	NUT(N	<b>4</b> 10)		MILD ST	EEL		-	6
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#### NOTE:

- 1. ALL DIMENSIONS ARE AFTER HOT DIP GALVANIZE
- 2. TO BE GALVANIZED AFTER ALL MACHINING
- 3. SHARP CORNERS TO BE ROUNDED OFF BY R2
- 4. MATERAIL: MILD STEEL Gr. 'A' OF IS: 2062-1992

F.										
REF		RHAR	RAT HEAVY E	I ECTRIC	TI 21A	١٠	NAME	SIGN	DATE	Ξ
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VENTORY	FO	MS PLATE FOR WALL BUSHING INSULATOR					4 982	05 19922		00
ź							SUB No.	No.OF S	HEETS	



## PRE-QUALIFICATION REQUIREMENTS

Ref. No.: SBD/Ins. Prodn /PQR-MP

Dt: 24/01/24

ITEM: CONDUCTOR ROD & MS Plate for Porcelain Insulators

P.R.No. 12303081

P.R. Total Qty: 315 Nos.

S. No.	BHEL qualification requirement	Documents Required
	I. PRE QUALIFICATION CRITERIA	
1	Vendor must be a manufacturer and doing business of supplying Fabricated components preferably to Insulator Manufacturers.  Vendor should have supplied 150 Nos. of similar galvanized components during the last 12 months.	Submitted / Not submitted (Vendor should provide documentary evidence by way of list of P.O., Invoice)
2	Material supplied should be durable and vendor should guarantee for its durability for minimum three years in use.	Acceptable / Not acceptable
3	Vendor should accept for pre despatch inspection of material as per BHEL drawings.	Vendor to confirm Acceptable / Not acceptable

Note: Vendors to indicate clearly for acceptance or non-acceptance against each point. Technical bid can be processed further only when points mentioned above are responded and required documents are submitted.

MANOJ KUMAR Sr. Mgr/Ins.Production



BHARAT HEAVY ELECTRICALS LIMITED SOLAR BUSINESS DIVISION PROF.C.N.R RAO CIRCLE, IISc POST MALLESHWARAM. BENGALURU-560012

#### STANDARD QUALITY ASSURANCE PLAN

ITEM: CONDUCTOR ROD

49820517423 REV01,49820509223 REV02,

QP NO.: EPD\_QP\_IP\_2022-23\_0003

**REV. NO.: 00** 

DATE: 28.06.2022

	EL-SBD MA	LLESHWARAM, BENG	ALURU-560	012	49821013023 R	-	7223 REVUZ,	PAGE <b>1</b> OF <b>2</b>				
SL. NO	ITEM/ COMPONENT	CHARACTERISTICS	CLASS	TYPE OF	QUANTUM DOCUMENT NO						ENCY	REMARKS
				CHECK	OF CHECK			RECORD		М	В	
1.	2.	3.	4.	5.	6.	7.	8.	9.	D *	**	10.	11.
Α	INSPECTION	BY SUPPLIER AT THE	IR WORKS									
<b>A.1</b>	Conductor Rod	Raw Material TC (Heat No, Chemical Composition, Mechanical Etc.)	Major	Documentati on	100%	IS 2062:2011,	IS 2062:2011,	Supplier TC	٧	V	V	
A.2		Visual	Major	Physical	100%	BHEL Drg./BHEL Spec	BHEL Drg./BHEL Spec	Inspection Report	٧	Р	V	
A.3		Gauge Inspection (as applicable)	Major	Physical	100%	Spec	эрес	Inspection Report	٧	Р	V	
A.4		Dimensions	Major	Physical	10 per 1000 & part thereof			Inspection Report	٧	Р	V	
A.5		Mass/ Thickness of Zinc coating by Elcometer	Major	Physical	Min 3 per 1000 & part thereof	IS 4759:1996, BHEL Spec./ BHE Drg.	IS 4759:1996, L BHEL Spec./ BHEL Drg.	Inspection Report	٧	Р	V	610 g/m <sup>2</sup> Unless mentione in BHEL Drg./ Spec/BHEL PO
A.6		Purity of Zinc Ingot used for Galvanizing	Major	Chemical	One sample per Ingot Lot	IS 209:1992	% Zinc ≥ 99.5	Manufacturer Test Certificate & Third party Lab Test report	٧	V	V	Vendor to give COC for Manufacturer TC for usage in BHEI PO
A.7		Adhesion Test	Major	Mechanical	Min 5 per 5000 & part thereof	IS 2629 : 1985/BHEL Spec BHEL Drg.	No peel off	Inspection Report	٧	Р	V	
В	PRE DISPATCH	INSPECTION AT VENDOR	RS WORKS/	INSPECTION AT	BHEL WORKS							
B.1	Conductor Rod	Visual	Major	Physical	IS:2500 PtI AQL 0.65%	IS 4759:1996, BHEL Drg./BHEL Spec	IS 4759:1996, BHEL Drg./BHEL Spec	Inspection Report	-	P/-	W/P	
B.2		Gauge Inspection (as applicable)	Major	Physical	IS:2500 PtI AQL 0.65%	IS 4759:1996, BHEL Drg./BHEL	IS 4759:1996, BHEL Drg./BHEL	Inspection Report	-	P/-	W/P	
B.3		Dimensions	Major	Physical	2 per 1000 & part thereof	Spec	Spec	Inspection Report	-	P/-	W/P	
00CU ** <b>M:</b>	MENTATION. MANUFACTURE	OS, INDENTIFIED WITH "T R/SUB-VENDOR, <b>B</b> : BHEL NESS AND <b>V:</b> VERIFICATI	/BHEL NOM			DHAI YA	VANJA	aditya kumar Santa	ounya SECALSLITO, ouriSED ter Namasika, Popilitaria Additica 1944/4FFAF12FDFAFA W1770CS8466D13FE2 onraditiya kumar moo		audh	Digitally signed by R Chau DN: cn=R Chaudhary, o=B ou=SBD, email=rcd@bhel. c=IN Date: 2022.06.28 17:01:21 +05'30'

R DHANANJAYA

**KUMAR MOURYA** 

**CHAUDHARY** 



# BHARAT HEAVY ELECTRICALS LIMITED SOLAR BUSINESS DIVISION PROF.C.N.R RAO CIRCLE, IISC POST MALLESHWARAM, BENGALURU-560012

#### STANDARD QUALITY ASSURANCE PLAN

ITEM: CONDUCTOR ROD

49820517423 REV01,49820509223 REV02, 49821013023 REV01 QP NO.: EPD\_QP\_IP\_2022-23\_0003

REV. NO.: 00 DATE: 28.06.2022

PAGE **2** OF **2** 

BITE-300				<del></del>								
SL. NO	ITEM/ COMPONENT	CHARACTERISTICS	CLASS	TYPE OF	QUANTUM	REFERENCE DOCUMENT	ACCEPTANCE NORMS	FORMAT OF RECORD		AG	ENCY	REMARKS
				CHECK	OF CHECK					M	В	
1.	2.	3.	4.	5.	6.	7.	8.	9.	D *	**	10.	11.
B.4		Mass/Thickness of Zinc coating by Elcometer	Major	Physical	Min 3 per 1000 & part thereof	IS 4759:1996, BHEL Spec./ BHEL Drg.	IS 4759:1996, BHEL Spec./ BHEL Drg.	Inspection Report	1	P/-	W/P	610 g/m <sup>2</sup> Unless mentioned in BHEL Drg./BHEL Spec/BHEL PO
B.5		Adhesion Test	Major	Mechanical	Min 5 per 5000 & part thereof	IS 2629: 1985/BHEL Spec./ BHEL Drg.	No peel off	Inspection Report	-	P/-	W/P	

#### Notes:

- 1. Material supplied shall be in line with BHEL Purchase Order, Technical Specification, Approved Drawings, applicable Standard References, or any other document/references.
- 2. For first time supply by the vendor, sample approval to be obtained before bulk manufacturing from BHEL Quality/Engg.
- 3. The SQAP shall be read in conjunction with BHEL Specification mentioned in Purchase Order and shall deem to include any additional tests as per the specification/Standard.
- 4. In case of any contradiction between this SQAP, BHEL Specifications the following precedence shall be followed:
  - 1st: BHEL Purchase Order Specification;
  - 2<sup>nd</sup>: This STANDARD QUALITY ASSURANCE PLAN & Applicable standard;
  - 3<sup>rd</sup>: Manufacturers plant standards
- 5. Packing shall be as per BHEL purchase order.
- 6. BHEL reserves the right for pre-dispatch inspection at vendor works by BHEL or BHEL nominated agency.
- 7. In case of pre-dispatch inspection, vendor shall raise the inspection call in the online portal URL: <a href="www.cqir.bhel.in">www.cqir.bhel.in</a> with inspection agency as BHEL SBD and shall upload Test Certificates, Internal inspection Report as per this SQAP in CQIR Portal. Final Pre dispatch inspection report must contain joint inspection report, internal inspection report & Test certificates duly signed by inspector.
- 8. Original Test Certificates, Internal Tests Report (Duly Sealed & signed) as per this SQAP shall be sent along with lot for review.

**LEGEND:** \*D: RECORDS, INDENTIFIED WITH "TICK" ( $\sqrt{}$ ) SHALL BE ESSENTIALLY INCLUDED BY VENDOR IN QA Digitally signed by R Chaudhan **RAMANNA** DN: cn=R Chaudhary, o=BHEL. aditya kumar DOCUMENTATION. DHANANJA Chaudhary Date: 2022.06.28 17:02:02 mourya \*\* M: MANUFACTURER/SUB-VENDOR, B: BHEL/BHEL NOMINATED INSPECTION AGENCY YΑ P: PERFORM W: WITNESS AND V: VERIFICATION. PREPARED BY: **REVIEWED APPROVED** BY: **ADITYA RAJNISH R DHANANJAYA KUMAR MOURYA CHAUDHARY**