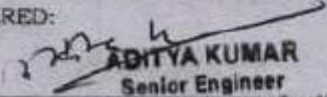
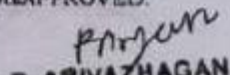


Technical Specifications

SL. No	Description and Technical Specification of the item	QTY	UNIT	Delivery
1	Eco Cr -E NON SYNT SMAW ELECTODE 3.15/3.2 MM ASME SEC.II-C, SFA-5.13, CLASS Eco Cr-E NON SYNTHETIC SMAW ELECTRODE AS PER WCPI-253/01. Diameter - 3.15 mm/3.2 mm Length - 300-400 mm.	250.00	KG	120 DAYS

Technical Specification - WCPI-253/01

	BHARATH HEAVY ELECTRICALS LIMITED TIRUCHIRAPALLI-620 014 WELDING TECHNOLOGY CENTRE	Doc. Number:	Revision:																				
		WCPI - 253	01																				
		Date: 21.10.2022																					
Welding Consumable Purchase Instruction		Page 01 of 04																					
PURCHASE INSTRUCTION FOR NONSYNTHETIC SMAW ELECTRODE ASME SEC.II.C, SPA-5.13, CLASS ECoCr-E.																							
1.1 SCOPE:																							
1.2	This purchase instruction prescribes the requirements for a Non Synthetic Shielded Metal Arc Welding Electrode that conforms to ASME SEC II, Part C, SPA-5.13, and ECoCr-E.																						
2.0 GENERAL:																							
2.1	Electrodes shall be supplied in sizes and quantities as specified in the Purchase Order.																						
2.2	The Electrode shall comply with requirements called for in the latest edition and Addenda (Applicable on the date of issue of Purchase order) of ASME Sec II C, SPA-5.13, Class ECoCr-E and all Tests, Acceptance criteria etc. referred in this document shall be in accordance with this. Additional requirements specified in this document are also to be complied.																						
2.3	The Electrode shall be suitable for Hard facing overlay of Carbon steel, Low Alloy Steel Valve components for high Pressure, high temperature service.																						
2.4	The Electrode shall be of the Non-Synthetic type with a fully alloyed core wire.																						
3.0 CHEMICAL COMPOSITION:																							
3.1	The chemical composition of the undiluted weld metal deposited using the Electrode shall be as follows.																						
	<table border="1"><tr><td>Carbon</td><td>0.15-0.40%</td><td>Chromium</td><td>24.0-29.0%</td></tr><tr><td>Manganese</td><td>1.50%</td><td>Molybdenum</td><td>4.50-6.50%</td></tr><tr><td>Cobalt</td><td>Remainder</td><td>Iron</td><td>5.00%</td></tr><tr><td>Tungsten</td><td>0.50%</td><td>Silicon</td><td>2.0%</td></tr><tr><td>Nickel</td><td>2.0-4.0%</td><td>Other Elements Total</td><td>1.00%</td></tr></table>	Carbon	0.15-0.40%	Chromium	24.0-29.0%	Manganese	1.50%	Molybdenum	4.50-6.50%	Cobalt	Remainder	Iron	5.00%	Tungsten	0.50%	Silicon	2.0%	Nickel	2.0-4.0%	Other Elements Total	1.00%		
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PREPARED:  ADITYA KUMAR Senior Engineer Welding Technology Centre BHEL, TRICHY - 620 014.		REVIEWED&APPROVED:  R. ARIVAZHAGAN Senior Manager Welding Technology Centre BHEL TRICHY - 620 014.																					

Seal and Signature of authorized signatory

Date



4.0 USABILITY:

- 4.1 The Electrodes with DCEP shall operate smoothly without excessive spatter and shall produce a thin and easily detachable slag even in multi layer weld deposits.
- 4.2 The Electrodes shall produce welds that after being machined/Ground are free from Surface and Sub surface defects as deducted by a Dye Penetrant test.

5.0 HARDNESS REQUIREMENTS:

- 6.0 The average hardness of a 2 layer Weld deposited using the Electrode, measured at a thickness of 3mm from the base metal shall be 20-32 HRC.

7.0 SIZE, COVERING, ARC END & GRIP END AND IDENTIFICATION:

7.1 SIZE:

Electrodes shall be supplied in diameters and lengths as specified in the Purchase order.

7.2 COVERING:

The core wire and covering shall be free of defects that would interfere with uniform deposition of weld metal.

The covering shall be concentric to the core wire to ensure that no finger riling occurs during Welding.

7.3 Arc End & Grip End:

The Arc end of each Electrode shall be sufficiently bare and covering sufficiently tapered to permit easy striking of the Arc. The Grip end shall be bare for a length that is sufficient to provide electrical contact with the Electrode Holder.

Seal and Signature of authorized signatory

Date



7.4 IDENTIFICATION:

All electrodes shall be identified by providing at least one imprint of the Electrode Classification near the grip end. The numbers and letters of the imprint shall be of bold block type and of a size large enough to be legible.

The ink used for imprint shall provide sufficient contrast with the electrode covering so that the imprint shall remain legible after drying and welding.

7.0 PACKING AND MARKING OF PACKAGES:

7.1 PACKAGING:

Electrodes in standard quantity shall be wrapped tightly in a corrugated paper and then packed in moisture proof polythene bags and sealed. These shall be further packed either in hermetically sealed containers or in cardboard packets and then packed in polythene bags and sealed.

The number of electrodes per packet shall be such that the Net weight of each packet does not exceed 5 Kg. Packets shall be further packed in cardboard cartons each weighing not more than 25kg. Each carton shall contain electrode packets of one size and batch only.

Electrode cartons shall be shipped in wooden crates lined with waterproof material. Net weight of each crate shall not exceed 1000kg.

7.2 Marking of Packages:

The following product information shall be legibly marked/labeled on the outer side of each packet/container.

- a) AWS Specification and Classification designation.
- b) Supplier's Name and Brand.
- c) Size, Quantity of Electrodes and Net weight.
- d) Batch No and Date of manufacture.

Seal and Signature of authorized signatory

Date



8.0 CERTIFICATION AND TESTING:

- 8.1 Each consignment of electrodes shall be from one Batch only.
- 8.2 Batch/Lot classification shall be Class C1 of SFA-5.01 Filler metal procurement guidelines of ASME Sec.II-C.
- 8.3 The level of testing shall be Schedule -K of SFA 5.01 Filler metal procurement guidelines of ASME Sec.II-C.
- 8.4 Three copies of Test certificates giving details of following tests done for compliance to this Purchase Instruction and ASME Sec.II.C, SFA-5.13, Class ECoCr-E shall be sent.
- a) Chemical composition of Weld Metal
 - b) Test for Usability as per sl no. 4.0
 - c) Test for Hardness requirements

The testing authority shall certify that supplies made against the Batch conforms to the requirements of the Latest Edition and Addenda (Applicable on the date of issue of purchase order) of ASME Sec II C, SFA-5.13, ECoCr-E and this Purchase instruction.

=====

Seal and Signature of authorized signatory

Date

Sl. No.	Pre –Qualification Criteria – PR 0141420491	Bidder remark
1	Bidder shall be a manufacturer of the Quoted item or an authorized dealer of the same. If the offer is quoted by agent, letter of authorization or agreement duly signed by the manufacturer is required to consider the offer. (Specify: Manufacturer/Authorised Dealer)	
2	Principle Supplier shall successfully experiences for supplying of welding consumables (SMAW Electrode) to any govt. Organisation/PSUs/Public Ltd./Company/Reputed Industries etc. Purchase order copies or related document to be submitted along with offer to consider the offer. Note: Successful experience means – supplied and accepted.	
3	Quoted Welding Consumables brand name.	
4	Mill address (manufacturing address).	
5	Mill capacity quoted welding shall be provided along with offer.	
6	Manufacturer shall submit manufacturing process flow chart (Raw material to finished product).	

Sl. No.	Pre –Qualification Criteria - PR 0141420491	Bidder remark
7	Manufacturer (Principle Supplier) shall submit a valid ISO 9001 certificate or Quality management system certificate or Written down procedure for SMAW electrode inspection or ISO 45001 certificate or Written procedure for ISO 9001 or Written procedure for SMAW electrode manufacturing.	
8	Shall confirm to Technical specification as per Tender.	
9	Vendor should give confirmation to BHEL's Technical Specification. Any deviation from the Specification are to be mentioned in the "Bidder remark Space". If There is no deviation vendor should indicate "No Deviation".	
10	Quoted Diameter and length details.	
11	Kindly arrange to provide seal and sign on WCPI Copy(WCPI 253 Rev: 01) for confirmation.	

Annexure – A- Special Conditions for GeM Enquiry

The terms and condition mentioned in this document are applicable in addition to the Buyer Added Bid Specific Additional Terms & Conditions and GeM General Terms and Conditions. Bidders shall furnish pointwise confirmation/details.

<u><i>To be filled by bidder</i></u>		
Description of the item/Equipment:		
GeM Tender No. & Date		
Name of the firm (Bidder)	:	
Address	:	
<u>Contact person 1</u> Name: Designation: Office Phone: Mobile: e-mail:	<u>Contact person 2</u> Name: Designation: Office Phone: Mobile: e-mail:	
Sl	Terms and conditions/Details required	Vendor's confirmation
1.	Indicate the MSME status of the bidder. MICRO/SMALL/MEDIUM/Non-MSME. Note: Udyam certificate to be uploaded in proof of above. If it is indicated as "For availing benefits of Priority Sector Lending(PSL) ONLY" in Udyam certificate, then no MSME benefit will be considered for this tender.	
2.	Payment terms shall be as per clause 9 of Buyer Added Bid Specific Additional Terms & Conditions for this tender. Confirm your acceptance for the payment terms relevance to your MSME status indicated above.	
3.	Liquidated Damages shall be as per clause 18 of Buyer Added Bid Specific Additional Terms & Conditions. Confirm your acceptance.	
4.	Offers from Indigenous supplier will be considered only if they have a valid GST registration certificate. Please Indicate the GST registration number. If any specific exemption is available, a declaration with due supporting documents need to be furnished for considering the offer.	GST No. _____
5.	Performance Bank Guarantee: Not Applicable	
6.	HSN Code for the quoted items	HSN CODE : _____
7.	Rate quoted in GeM portal should be on FOR destination basis inclusive of all taxes, P&F, freight etc. Transit Insurance is under Supplier scope. Please indicate how much GST percentage is included in quoted price.	GST in %: _____
8.	All the terms and conditions in Buyer Added Bid Specific Additional Terms & Conditions of this tender are read, understood and agreed by the vendor without any deviation. Vendor to confirm.	
9.	Duly filled, signed and stamped copies of the annexures as indicated in clause 31 of Buyer Added Bid Specific Additional Terms & Conditions of the enquiry are to be provided in the letter head of the Supplier. Please fill the annexures with GeM enquiry number, Item description and your company name wherever required. Also please Tick the appropriate option wherever required.	
10.	There will not be any RA (Reverse Auction). Hence suppliers to quote their best price while submitting their offer itself.	

Vendor's Seal & Signature

CHECK LIST

NOTE: - Suppliers are required to fill in the following details in their Letterhead and no column should be left blank

A	Name and Address of the Supplier		
B	GSTN No. the Supplier (Place of Execution of Contract / Purchase Order)		
C	Details of Contact person for this Tender	Name: Mr./ Ms. Designation: Telephone No: Mobile No: Email ID:	
D	EMD DETAILS	Not applicable	
E	DESCRIPTION	APPLICABILITY (BY BHEL)	ENCLOSED BY BIDDER
i.	Whether Pre - Qualification Criteria is understood and provided proper supporting documents.	Applicable/ Not Applicable	YES / NO
ii.	Whether all pages of the Tender documents including annexures, appendices etc are read and understood	Applicable/ Not Applicable	YES / NO
iii.	Audited Balance Sheet and profit & Loss Account for the last three years	Applicable/ Not Applicable	YES / NO
iv.	Copy of PAN Card & GST registration	Applicable/ Not Applicable	YES / NO
v.	Submission of Udyam certificate as specified in Tender (applicable in case of MSME supplier)	Applicable/ Not Applicable	YES / NO
vi.	Offer forwarding letter / tender submission letter as per Annexure – 2	Applicable/ Not Applicable	YES / NO
vii.	Submission of Certificate of No Deviation as per Annexure – 3	Applicable/ Not Applicable	YES / NO
viii.	Declaration regarding Insolvency/ Liquidation/ Bankruptcy Proceedings as per Annexure – 4	Applicable/ Not Applicable	YES / NO
ix.	Declaration by Authorized Signatory as per Annexure – 5	Applicable/ Not Applicable	YES / NO
x.	Declaration by Authorized Signatory regarding Authenticity of submitted Documents Annexure – 6	Applicable/ Not Applicable	YES / NO
xi.	Submission of Non-Disclosure Certificate as per Annexure – 7	Applicable/ Not Applicable	YES / NO
xii.	Submission of Integrity Pact as specified in Tender as per Annexure – 8	Applicable/ Not Applicable	YES / NO
xiii.	Declaration confirming knowledge about Site Conditions as per Annexure – 9	Applicable/ Not Applicable	YES / NO

xiv.	Declaration reg. Related Firms & their areas of Activities as per Annexure – 10	Applicable/ Not Applicable	YES / NO
xv.	Declaration for relation in BHEL as per Annexure – 11	Applicable/ Not Applicable	YES / NO
xvi.	Declaration reg. minimum local content in line with revised public procurement as per Annexure – 12	Applicable/ Not Applicable	YES / NO
xvii.	Declaration regarding compliance to Restrictions under Rule 144 (xi) of GFR 2017 as per Annexure – 13	Applicable/ Not Applicable	YES / NO
xviii.	Bank Account Details for E-Payment as per Annexure – 14	Applicable/ Not Applicable	YES / NO
xix.	Power of Attorney for submission of tender as per Annexure – 15	Applicable/ Not Applicable	YES / NO
xx.	Proforma of Bank Guarantee for Earnest Money as per Annexure – 16	Applicable/ Not Applicable	YES / NO

NOTE: Strike off 'YES' or 'NO', as applicable. Tender not accompanied by the prescribed **above applicable documents** are liable to be summarily rejected.

DATE:

**Sign. of the AUTHORISED SIGNATORY
(With Name, Designation and Company seal)**

CERTIFICATE OF NO DEVIATION

(To be Typed & submitted in the Letter Head of the Company/Firm of Bidder)

To,

(Write Name & Address of Officer of BHEL inviting the Tender)

Dear Sir,

Subject: **No Deviation Certificate**

Ref: 1) GeM Bid No:

2) All other pertinent issues till date

We hereby confirm that we have not changed/ modified/materially altered any of the tender documents as downloaded from the website/ issued by BHEL and in case of such observance at any stage, it shall be treated as null and void.

We also hereby confirm that we have neither set any Terms and Conditions and nor have we taken any deviation from the Tender conditions together with other references applicable for the above referred GeM Bid.

We further confirm our unqualified acceptance to all Terms and Conditions, unqualified compliance to Tender Conditions.

We confirm to have submitted offer in accordance with tender instructions and as per aforesaid references.

Thanking you,

Yours faithfully,

**(Signature, date & seal of
authorized representative of the
bidder)**

Date:

Place:

UNDERTAKING

(To be typed and submitted in the Letter Head of the Company/Firm of Bidder)

To,

(Write Name & Address of Officer of BHEL inviting the Tender)

Dear Sir/Madam,

Sub: DECLARATION REGARDING INSOLVENCY/ LIQUIDATION/ BANKRUPTCY PROCEEDINGS

Ref: GeM Bid Specification No:

I/We, _____ declare that, I/We am/are not admitted under insolvency resolution process or liquidation under Insolvency and Bankruptcy Code, 2016, as amended from time to time or under any other law as on date, by NCLT or any adjudicating authority/authorities

**Sign. of the AUTHORISED SIGNATORY
(With Name, Designation and Company seal)**

Place:

Date:

DECLARATION BY AUTHORISED SIGNATORY OF BIDDER

(To be typed and submitted in the Letter Head of the Company/Firm of Bidder)

To,

(Write Name & Address of Officer of BHEL inviting the Tender)

Dear Sir,

Sub: **Declaration by Authorised Signatory regarding Authenticity of submitted documents.**

Ref: 1) GeM Bid No. & Date:

2) All other pertinent issues till date

I/We, hereby certify that all the documents submitted by us in support of possession of "Qualifying Requirements" are true copies of the original and are fully compliant required for qualifying / applying in the bid and shall produce the original of same as and when required by Bharat Heavy Electricals Limited.

I / We hereby further confirm that no tampering is done with documents submitted in support of our qualification as bidder. I / We understand that at any stage (during bidding process or while executing the awarded contract) if it is found that fake / false / forged bid qualifying / supporting documents / certificates were submitted, it would lead to summarily rejection of our bid / termination of contract. BHEL shall be at liberty to initiate other appropriate actions as per the terms of the Bid / Contract and other extant policies of Bharat Heavy Electricals Limited.

Yours faithfully,

**(Signature, Date & Seal of Authorized
Signatory of the Bidder)**

Date:

NON-DISCLOSURE CERTIFICATE

(To be Typed & submitted in the Letter Head of the Company/Firm of Bidder)

I/We understand that BHEL, Trichy is committed to Information Security Management System as per their Information Security Policy.

Hence, I/We M/s who are submitting offer for providing Supply/services to BHEL, Trichy against GeM Bid No..... hereby undertake to comply with the following in line with Information Security Policy of BHEL, Trichy.

- To maintain confidentiality of documents & information which shall be used during the execution of the Contract.
- The documents & information shall not be revealed to or shared with third party which shall not be in the business interest of BHEL, Trichy.

**(Signature, date & seal of Authorized
Signatory of the bidder)**

Date:

DECLARATION

Date: _____

To,

(Write Name & Address of Officer of BHEL inviting the Tender)

Dear Sir/ Madam,

Sub: Details of related firms and their area of activities

Please find below details of firms owned by our family members that are doing business/ registered for same item with BHEL, _____ (NA, if not applicable)

1	Material Category/ Work Description	
	Name of Firm	
	Address of Firm	
	Nature of Business	
	Name of Family Member	
	Relationship	
2	Material Category/ Work Description	
	Name of Firm	
	Address of Firm	
	Nature of Business	
	Name of Family Member	
	Relationship	
...		

Note: I certify that the above information is true and I agree for penal action from BHEL in case any of the above information furnished is found to be false.

Regards,

(_____)

From: M/s

Supplier
Code:

Address:

DECLARATION FOR RELATION IN BHEL

(To be typed and submitted in the Letter Head of the Company/Firm of Bidder failing which the offer of Bidder is liable to be summarily rejected)

To,

(Write Name & Address of Officer of BHEL inviting the Tender)

Dear Sir,

Sub: Declaration for relation in BHEL

Ref: 1) GeM Bid Specification No:

I/We hereby submit the following information pertaining to relation/relatives of Proprietor/Partner(s)/ Director(s) employed in BHEL

Tick (✓) any one as applicable:

1. The Proprietor, Partner(s), Director(s) of our Company/Firm DO NOT have any relation or relatives employed in BHEL

OR

2. The Proprietor, Partner(s), or Director(s) of our Company/Firm HAVE relation/relatives employed in BHEL and their particulars are as below:

i.

ii.

**(Signature, Date & Seal of
Authorized Signatory of the Bidder)**

Note:

1. Attach separate sheet, if necessary.
2. If BHEL Management comes to know at a later date that the information furnished by the Bidder is false, BHEL reserves the right to take suitable against the Bidder/Contractor.

**DECLARATION REGARDING MINIMUM LOCAL CONTENT IN LINE WITH
REVISED PUBLIC PROCUREMENT (PREFERENCE TO MAKE IN INDIA), ORDER
2017 DATED 04TH**

JUNE, 2020 AND SUBSEQUENT ORDER(S)

(To be typed and submitted in the Letter Head of the Entity/Firm providing certificate as applicable)

To,

(Write Name & Address of Officer of BHEL inviting the Tender)

Dear Sir,

Sub: Declaration reg. minimum local content in line with Public Procurement (Preference to Make in India), Order 2017-Revision, dated 04th June, 2020 and subsequent order(s).

Ref: 1) GeM Bid Specification No:

2) All other pertinent issues till date

We hereby certify that the items/works/services offered by.....
(specify the name of the organization here) has a local content of _____ % and this meets the local content requirement for '**Class-I local supplier**' / '**Class II local supplier**' ** as defined in Public Procurement (Preference to Make in India), Order 2017-Revision dated 04.06.2020 issued by DPIIT and subsequent order(s).

The details of the location(s) at which the local value addition is made are as follows:

- | | |
|----------|----------|
| 1. _____ | 2. _____ |
| 3. _____ | 4. _____ |

Thanking you,
Yours faithfully,

**(Signature, Date & Seal of
Authorized Signatory of the
Bidder)**

**** - Strike out whichever is not applicable.**

Note:

1. Bidders to note that above format, duly filled & signed by authorized signatory, shall be submitted along with the techno-commercial offer.
2. In case the bidder's quoted value is in excess of Rs. 10 crores, the authorized signatory for this declaration shall necessarily be the statutory auditor or cost auditor of the company (in the case of companies) or a practising cost accountant or practicing chartered accountant (in respect of suppliers other than companies).
3. In the event of false declaration, actions as per the above order and as per BHEL Guidelines shall be initiated against the bidder.

DECLARATION REGARDING COMPLIANCE TO RESTRICTIONS UNDER RULE 144 (xi) OF GFR 2017

(To be typed and submitted in the Letter Head of the Entity/ Firm providing certificate as applicable)

To,

(Write Name & Address of Officer of BHEL inviting the Tender)

Dear Sir,

Sub: Declaration regarding compliance to Restrictions under Rule 144 (xi) of GFR 2017

Ref: 1) GeM Bid Specification No:
2) All other pertinent issues till date

I have read the clause regarding restrictions on procurement from a bidder of a country which shares a land border with India. I certify that _____ (**SPECIFY THE NAME OF THE ORGANIZATION HERE**), is not from such a country/ has been registered with the Competent Authority (*attach valid registration by the Competent Authority, i.e., the Registration Committee constituted by the Dept. for Promotion of Industry and Internal Trade (DPIIT).*

I hereby certify that we fulfil all requirements in this regard and is eligible to be considered.

Thanking you,

Yours faithfully,

**(Signature, Date & Seal of
Authorized Signatory of the Bidder)**

Note: Bidders to note that in case above certification given by a bidder, whose bid is accepted, is found to be false, then this would be a ground for immediate termination and for taking further action in accordance with law and as per BHEL guidelines.