

Technical Specifications

SL. No	Description and Technical Specification of the item	QTY	UNIT	Delivery
1	ER 347Si GMAW WIRE DIA.0.8MM. ASME SEC.II.C, SFA-5.9 ER347Si STAINLESS STEEL WIRE FOR GMAW AS PER WCPI-160/07. DIAMETER OF THE WIRE = 0.8mm WEIGHT OF THE SPOOL = 10 Kg / 12.5 Kg.	3,600.00	KG	120 DAYS



BHARATH HEAVY ELECTRICALS LIMITED
TIRUCHIRAPALLI-620 014
WELDING TECHNOLOGY CENTRE

Doc. Number: WCPI – 160

Revision No.: 07

Date: 01.10.2013

WELDING CONSUMABLE PURCHASE INSTRUCTION FOR
GMAW WIRE AS PER ASME.SEC.II.C SFA-5.9,ER347Si

1.0 GENERAL:

- 1.1 The wire shall comply with the requirements specified in the latest edition and addenda (applicable on the date of issue of purchase order) of ASME Sec.II.C.SFA-5.9, ER347Si. All tests, acceptance criteria shall be in accordance with this. Additional requirements specified in this document shall also be complied.
- 1.2 The wires shall be supplied in sizes and quantities as specified in the purchase order.
- 1.3 The wires are intended for use as a welding electrode for butt-welding of tubes in pulsed GMAW process with Argon plus 5% to 20% Co₂ gas shielding in automatic straight tube butt welding machine and orbital TIG welding machine with 100 % Argon shielding for radiographic quality high pressure boiler components.

2.0 CHEMICAL COMPOSITION:

The chemical composition of the wire shall conform to ASME SEC.II.C SFA-5.9, ER347Si.

3.0 RADIOGRAPHIC SOUNDNESS & USABILITY:

- 3.1 The wire when used as an electrode in GMAW with Argon plus 5% to 20% Co₂ or orbital welding with 100% Argon shall deposit a weld metal that flows freely, uniformly without sputtering or other defects and shall exhibit excellent wetting characteristics.
- 3.2 The resultant weld metal shall be smooth, uniform with no visible evidence of cracks, porosity or other defects and shall meet the radiographic soundness requirements as per ASME SEC.II.C SFA-5.9, ER347Si.

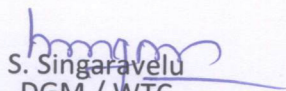
4.0 SIZE:

The wire shall be supplied in diameter 0.8/0.9/1.0mm as specified in the purchase order. The tolerance on diameter shall be as per SFA-5.02.

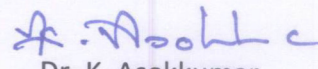
5.0 FORM & WEIGHT:

The wire shall be precision layer wound in ISO 644 BS300/ ISO 644 B300/S300 and/or S100 plastic spools and the net weight of the wire shall be 10/12.5/15Kg and/or 700g-1000g respectively as specified in the purchase order. The spools shall meet the clause 4.3.4 of SFA-5.02.

Prepared:


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DGM / WTC

Reviewed & Approved:


Dr. K. Asokkumar
AGM/WTC



6.0 FINISH & UNIFORMITY:

The wire shall meet the requirements of clause 4.2 of SFA-5.02.

7.0 WINDING REQUIREMENTS:

The wire shall meet the requirements of clause 4.4 of SFA-5.02.

8.0 IDENTIFICATION :

The wire shall meet the requirements of clause 4.5.2 & 4.5.5 of SFA-5.02.

9.0 MARKING:

The wire shall meet the requirements of clause 4.6 of SFA-5.02.

10.0 PACKAGING:

10.1 The wire should be completely devoid of moisture or any other foreign material with adequate sealing in suitable cartons to ensure no deterioration in the electrode quality during transportation by sea or long duration storage.

10.2 The cartons shall be packed in waterproof boxes with crates so as to protect them from damage during shipment and storage under normal conditions. Weight of each crate shall not exceed 1000kg. The cartons shall have product information as per clause 4.6 of SFA-5.02

11.0 TESTING & CERTIFICATION:

11.1 Each consignment of electrodes supplied shall be from one batch only.

11.2 Batch /lot classification shall be Class S1 as per SFA-5.01 filler metal procurement guidelines of ASME Sec.II.C. (Latest edition and addenda).

11.3 The level of testing shall be Schedule K as per SFA-5.01 filler metal procurement guidelines of ASME Sec.II.C (Latest edition and addenda).

11.4 Three copies of original test certificates in English countersigned by inspecting authority (latest) approved by IBR of the country of origin giving details of the tests done in compliance with this purchase instruction and ASME SECII C SFA-5.9, ER347Si shall be sent. In addition, test certificate shall contain purchase order number, quantity and customer name.

11.5 The testing authority shall certify that supplies made against the batch conform to the requirements of the latest edition & addenda (applicable on the date of issue of purchase order) of ASME Sec.II.C.SFA-5.9, ER347Si.

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Clause 11.4 read as

Three copies of original test certificates in English countersigned by inspecting authority (latest) approved by IBR of the country of origin giving details of the tests done in compliance with this purchase instruction and ASME SEC IIC SFA-5.9, ER347Si shall be sent. In addition, test certificate shall contain purchase order number, quantity and customer name.

(OR)

Three copies of original test certificates in English countersigned by inspecting authority (latest) approved by IBR giving details of the tests done in compliance with this purchase instruction and ASME SEC IIC SFA-5.9, ER347Si shall be sent. In addition, test certificate shall contain purchase order number, quantity and customer name.

(OR)

Three copies of original test certificates in English countersigned by manufacturer giving details of the tests done in compliance with this purchase instruction and ASME SEC IIC SFA-5.9, ER347Si shall be sent. In addition, test certificate shall contain purchase order number, quantity and customer name (Valid IBR Certificate is required along with supply).

Sl. No.	Pre –Qualification Criteria – PR 0136677264	Bidder remark
1	If Bidder is a manufacturer, Confirm “Yes or, No” in bidder remark.	
2	Bidder shall be a manufacturer of the Quoted items 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. Tender Enquiry details must available on Letter of authorization or agreement to consider the offer.	
3	Quoted Welding Consumables Brand Name/Product Name	
4	Quoted Product Catalogue	
5	Manufacturing Plant Address / Mill Address	
6	Manufacturer/Bidder shall submit manufacturing process flow chart (Raw material to finished product) along with offer for Quoted Item.	
7	Manufacturer/Bidder shall submit a valid ISO 9001 certificate or Quality management system certificate or Written down procedure for ISO 9001 or A valid ISO 45001 certificate or Written down procedure for Quality inspection.	

Seal and Sign of Authorized Person

Sl. No.	Pre –Qualification Criteria - PR 0136677264	Bidder remark
8	Manufacturing Plant capacity for GMAW Process.	
9	Bidder should confirm and full fill the WCPI- 160/07. 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	Seal and sign the WCPI- 160 revision 07 for confirmation.	
11	WCPI- 160/07 (Diameter 0.8 mm and Each Spool Weight: 10 Kg / 12.5 Kg) Diameter details and Spool Weight details	
12	Valid IBR certificate status to be provided for Quoted material.	
13	Manufacturer/Bidder shall have successful experience for supplying of ER 70S-A1 or, ER 80S-B2 or, ER 80S-G or, ER 90S-B3 or, ER 90S-G or GMAW Spool or GTAW Spool or GTAW Rod to any govt. Organizations/ PSUs/ Public ltd./ Company/Reputed Industries etc. Purchase orders copies/ related documents to be submitted along with offer to consider the offer. Note: Successful experience means – supplied and accepted.	

Seal and Sign of Authorized Person

Annexure – A- Additional Terms and Conditions for GeM Enquiry

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

<u>To be filled by bidder</u>		
Description of the 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:
Offer/Quotation reference with date		:
Sl	Terms and conditions	Vendor's confirmation
1.	Inspection by BHEL/as per Technical specification(if any).	
2.	Payment terms: 1. Payment terms for Non MSME Suppliers: 90 days from the Vehicle entry date (Against submission of GST invoice, GeM invoice, LR copy, Last Movement e-Way Bill, UD). 2. Payment terms for Micro & Small Enterprises (MSEs): 45 days from the Vehicle entry date (Against submission of GST invoice, GeM invoice, LR copy, Last Movement e-Way Bill, UD). The supplier should upload UDYAM Registration Certificate in proof of MSE. 3. Payment terms for Medium Enterprises: 60 days from the Vehicle entry date (Against submission of GST invoice, GeM invoice, LR copy, Last Movement e-Way Bill, UD). The supplier should upload UDYAM Registration Certificate in proof of Medium Enterprises. Note: Deviation in above payment terms is not acceptable.	
3.	Response to Tenders for Indigenous supplier will be entertained only if the vendor has a valid GST registration number which should clearly mentioned in the offer. 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 Registration No. _____
4.	EMD / Performance Security:	Not Applicable
5.	Kindly Indicate the HSN Code for all items	HSN CODE : ____
6.	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 %: ____

Vendor's Seal & Signature

/ On Bidder's office letter pad /

Self-Declaration

Enquiry No.	
Enquiry Date	

In line with Government public procurement order Number P-45021/2/2017-B.E-II dated 15.06.2017, and further modified order dt. 28.05.2018, 29.05.2019 & order 04.06.2020 issued by DPIIT

I / We hereby declare that I / We are a "Local Supplier" meeting the requirement of minimum local content (..... %) defined in the above government notification for the goods against above mentioned enquiry Number.

Details of location at which local value addition will be made is as follows:

Door No.	
Street / Address 1	
Street / Address 2	
District	
State	
Country	
PIN Code	

We also understand that the false declarations will be in breach of the code of Integrity under rule 175(1)(i)(h) of the General financial rules for which a bidder or its successors can be debarred for up to two years as per Rule 151(iii) of the General Financial Rules along with such other actions as may be permissible under law.

For Company Name:

Seal:

Signature:

Date:

Place:

Note:

" Local Content "means the amount of value added in India which shall ,unless otherwise prescribed by the Nodal Ministry, be the total value of the item procured(excluding net domestic indirect taxes) minus the value of imported content in the item(including all customs duties) as a proportion of the total value, in percent. "Local Supplier "means a supplier or service provider whose product or service offered for procurement meets the minimum local content.

The above declaration shall be submitted mandatorily along with the offer in company letter head with seal & signature.

(Please fill all the yellow color field)