
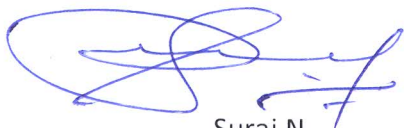





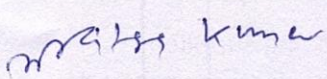

Technical Specifications


SL. No	Description and Technical Specification of the item	QTY	UNIT	Delivery
1	<p>E 7018 SMAW DIA 4.00MM</p> <p>ASME.SEC.II.C, SFA-5.1 E7018 SMAW ELECTRODE AS PER WCPI-206/07,</p> <p>DIA - 4.0 mm X 450 mm LONG.</p> <p>Delivery Schedule: 1st lot of 1,00,000 Nos: Within 28 days from PO 2nd Lot of 2,00,000 Nos: Within 70 days from PO 3rd Lot of 3,00,000 Nos: Within 105 days from PO 4th Lot of 6,00,000 Nos: Within 168 days from PO</p>	10,00,000.00	NO	Staggered delivery
2	<p>ER 70S-A1 GTAW ROD DIA2.4MM</p> <p>ASME SEC.II.C, SFA-5.28 ER70S-A1 LOW ALLOY STEEL BARE SOLID FILLER ROD FOR GTAW AS PER WCPI-101/10.</p> <p>DIAMETER 2.40 MM /2.5 MM length - 1000 MM LONG.</p>	1,500.00	KG	56 DAYS
3	<p>EM-12K SAW WIRE DIA 4.00 MM</p> <p>EM-12K SAW WIRE DIAMETER 4.00 MM as per 'TECHNICAL ANNEXURE 1 (EM12K)'. 1st Lot of 15,000 Kg: within 28 days of PO 2nd Lot of 15,000 Kg: within 70 days of PO 3rd Lot of 15,000 Kg: within 98 days of PO 4th Lot of 15,000 Kg: within 140 days of PO 5th Lot of 15,000 Kg: within 168 days of PO</p>	75,000.00	KG	Staggered delivery
4	<p>E 7018 SMAW DIA2.50MM</p> <p>ASME.SEC.II.C, SFA-5.1 E7018 SMAW ELECTRODE AS PER WCPI-206/07.</p> <p>Diameter -2.5 mm. Length - 350 mm.</p>	50,000.00	NO	56 DAYS

5	<p>FUSED SAW FLUX FOR BOILER WELDING</p> <p>SUBMERGED ARC WELDING FLUX FOR BUTT JOINT WELDING OF BOILER WELDING AS PER WCPI-415/00.</p> <p>1st Lot of 22,500 Kg: within 28 days of PO 2nd Lot of 22,500 Kg: within 70 days of PO 3rd Lot of 22,500 Kg: within 98 days of PO 4th Lot of 22,500 Kg: within 140 days of PO 5th Lot of 22,500 Kg: within 168 days of PO</p>	1,12,500.00	KG	Staggered delivery
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	BHARAT HEAVY ELECTRICALS LIMITED TRICHY-620 014 WELDING TECHNOLOGY CENTRE	WCPI - 206
		Revision No.: 07
		Date: 23.02.2016
<u>WELDING CONSUMABLE PURCHASE INSTRUCTION (WCPI)</u> <u>FOR ASME SEC IIC, SFA-5.1 E7018</u>		
1.0 SCOPE:		
1.1 The electrodes shall comply with requirements specified in the latest edition (applicable on the date of issue of purchase order) of ASME Sec IIC SFA-5.1, E7018. All tests, acceptance criteria shall be in accordance with this. Additional requirements specified in this document shall also be complied.		
1.2 The electrodes shall be supplied in quantities as specified in the purchase order. The brand of SMAW electrodes to be supplied shall be approved by the concerned IBR Authorities of the state. Every batch of electrodes supplied shall be manufactured during the period when IBR approval for the brand was valid.		
2.0 CHEMICAL COMPOSITION:		
The chemical composition of the undiluted weld metal using this electrode shall conform to ASME SEC IIC SFA-5.1, E7018 for each size of electrode supplied.		
3.0 MECHANICAL PROPERTIES:		
The mechanical properties of the weld metal deposited using this electrode after stress relieving the test plate assembly at 620±15°C for 300 minutes shall meet the requirements of ASME SECII.C SFA-5.1, E7018 for each size of electrode supplied.		
4.0 RADIOGRAPHIC SOUNDNESS:		
The electrode shall be suitable for radiographic quality butt welding in boiler pressure parts of SA515Gr70 Plate, SA106GrB, SA106GrC pipe. The radiographic test shall meet the requirements of ASME SEC IIC SFA-5.1, E7018 for each size of electrode supplied.		
5.0 FILLET WELD TEST:		
Fillet weld test done using this electrode shall meet the requirements specified in ASME SEC II C SFA 5.1, E7018 for each size of electrode supplied. The electrodes shall exhibit smooth running characteristics with soft and stable arc with ease of striking. The spatter level shall be negligible. Weld bead appearance shall be smooth with fine ripples and slag shall be self-peeling.		
6.0 SIZE:		
The electrodes shall be supplied in diameters and lengths as specified in the purchase order. The tolerance on diameter and length shall meet the requirements of SFA-5.1 for each size of electrode supplied.		
7.0 CORE WIRE, COVERING, EXPOSED CORE, IDENTIFICATION, METHOD OF MANUFACTURE:		
The electrodes shall meet the requirements of clause 3.2, 3.3, 3.4 of SFA-5.02 and clause 19 of SFA 5.1 for each size of electrode supplied.		
Prepared:		Reviewed and approved:
Suraj N Engineer/WTC		
		S. Singaravelu SDGM / WTC

	Welding Consumable Purchase Instruction for ASME SEC.II.C, SFA-5.1 E7018	WCPI – 206
		Revision No.07
<p>8.0 MOISTURE CONTENT OF COVERING: Moisture content of the electrode covering shall not exceed the limit specified in ASME Sec II C, SFA 5.1 E7018 for each size of electrode supplied.</p> <p>9.0 PACKAGING</p> <p>9.1 Electrodes packed in standard quantity shall be wrapped tightly in a corrugated paper with moisture proof packing in polythene bags and sealed. These shall be further packed either in hermetically sealed containers or in cardboard packets and then packed with polythene bags and sealed. The number of electrodes per packet shall be such that the net weight of each packet does not exceed 5Kg. Packets shall be further packed in cardboard cartons each weighing not more than 25kg. The cartons shall be packed in waterproof boxes with crates to ensure no damage to electrodes during shipment and normal storage conditions.</p> <p>9.2 Weight of each crate shall not exceed 1000kg.</p> <p>9.3 Markings of packages shall be as per clause 3.6 of SFA-5.02.</p> <p>10.0 TESTING AND CERTIFICATION:</p> <p>10.1 Each consignment of electrodes supplied shall preferably be from one batch only.</p> <p>10.2 Batch or lot classification shall be Class C1 as per SFA-5.01 filler metal procurement guidelines of ASME Sec IIC. (Latest edition).</p> <p>10.3 The level of testing shall be Schedule K as per SFA-5.01 filler metal procurement guidelines of ASME Sec IIC. (Latest edition).</p> <p>10.4 Three copies of original certified material test report in English signed by the manufacturer giving details of tests done in compliance with this WCPI and ASME Sec II C, SFA-5.1, E7018 shall be sent.</p> <p>10.5 The manufacturer shall certify that supplies made against the batch conforms to the requirements of the latest edition (applicable on the date of issue of purchase order) of ASME Sec IIC SFA-5.1, E7018.</p> <p>10.6 A copy of valid IBR approval certificate for the brand being supplied shall be sent along with every consignment.</p> <p>10.7 Every packet supplied shall be exhibited with details in the below mentioned format through a seal or securely affixed label.</p> <p style="text-align: center;"> “Certified by ----- (Mention the concerned IBR authority of the state) Under periodic check test dated: XX-XX-XXXX. Brand approval valid till : XX-XX-XXXX.” </p>		

	BHARATH HEAVY ELECTRICALS LIMITED TIRUCHIRAPALLI-620 014 <u>WELDING TECHNOLOGY CENTRE</u>	Doc. Number: WCPI – 101
		Revision No.: 10
		Date: 06/04/2022
<u>WELDING CONSUMABLE PURCHASE INSTRUCTION FOR</u> <u>LOW ALLOY STEEL BARE SOLID FILLER ROD ER70S-A1</u>		
1.0 GENERAL:		
1.1 The Rod shall comply with requirements specified in the Latest Edition and Addenda (Applicable on the date of Issue of Purchase Order) of ASME Sec.II.C.SFA-5.28, ER70S-A1. All tests, acceptance criteria shall be in accordance with this. Additional requirements specified in this document shall also be complied.		
1.2 The Rods shall be supplied in sizes and quantities as specified in the Purchase Order.		
1.3 The rods are intended for use as filler for radiographic quality butt welded joints in high pressure boiler tubes and pipes.		
2.0 Chemical Composition:		
2.1 The chemical composition of the Rods shall conform to ASME SECII.C SFA5.28-ER70S-A1.		
3.0 Mechanical Properties:		
3.1 The mechanical properties of the Rods shall conform to ASME SECII.C SFA5.28-ER70S-A1.		
4.0 USABILITY AND RADIOGRAPHIC SOUNDNESS:		
4.1 The Rod when used as filler in GTAW with 100 % Argon shielding shall deposit weld metal that flows freely, uniformly without sputter or other defects and shall exhibit excellent wetting characteristics. The resultant weld metal shall be smooth and uniform with no visible evidence of cracks/porosity or other defects and shall meet radiographic soundness requirements.		
5.0 FORM & SIZE:		
5.1 The Rods shall be supplied in straight lengths of 1000 mm +15, -0mm and as specified in the Purchase Order. The tolerance on diameter shall be as per SFA-5.02.		
PREPARED:  Aditya Kumar Senior Engineer / WTC	REVIEWED & APPROVED:  R Arivazhagan SM/WTC	

	Welding Consumable Purchase Instruction(WCPI)	Doc. Number: WCPI – 101
		Revision No.: 10
6.0 FINISH & UNIFORMITY:		
6.1 The Wires shall meet the requirements of clause 4.2 of SFA-5.02		
7.0 IDENTIFICATION:		
7.1 Each Rod shall have the Classification designation “ER70S-A1”, brand/trade designation marked or embossed on both ends for positive identification.		
8.0 MARKING:		
8.1 The rods shall meet the requirements of clause 4.6 of SFA-5.02.		
9.0 PACKAGING:		
9.1 Rods of the same size and batch/lot shall be packed in water resistant plastic tube shaped cartons. Each tube carton shall weigh not more than 10 Kg. The cartons shall be provided with watertight lid to ensure waterproof during transit & storage. Tube Cartons shall be packed in waterproof boxes with crates so as to ensure no damage during shipment and normal storage conditions. Weight of each crate shall not exceed 1000kg.		
9.2 The cartons shall have product information as per clause 4.6 of SFA-5.02		
10.0 TESTING & CERTIFICATION:		
10.1 Each consignment of rods supplied shall preferably be from one batch (more than one Batch is also acceptable).		
10.2 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)		
10.3 The Level of Testing shall be Schedule J as per SFA-5.01 Filler metal procurement guidelines of ASME Sec.II.C. (Latest Edition and Addenda)		
10.4 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-5.28 ER70S-A1.		
10.5 “Original test certificates in English countersigned by Inspecting Authority (latest) approved by IBR for country of origin giving details of the tests done in compliance with this purchase instruction (WCPI- 101 /Revision No.:10) and ASME Sec.II.C, SFA-5.28, ER70S-A1 shall be sent”.		
(OR)		
“A copy of valid IBR Approval Certificate for the brand being supplied. Original test certificates in English countersigned by manufacturer giving details of the tests done in compliance with this purchase instruction (WCPI- 101 /Revision No.:10) and ASME Sec.II.C, SFA-5.28, ER70S-A1 shall be sent		



BHARATH HEAVY ELECTRICALS LIMITED
TIRUCHIRAPALLI-620 014
WELDING TECHNOLOGY CENTRE

Doc. Number:

Revision:

WCPI - 415

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Date:03/12/2011

Welding Consumable Purchase Instruction

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**PURCHASE INSTRUCTION FOR SUBMERGED ARC WELDING FLUX
 FOR BUTT JOINT WELDING OF BOILER DRUM SHELLS**

1.0 SCOPE:

1.1 This purchase instruction details the requirements for fused/agglomerated Submerged Arc Welding Flux, which is to be used for butt joint welding of thick walled Boiler Drum Shells and Pipes

2.0 GENERAL:

2.1 The Flux shall be suitable for multi run Submerged Arc Welding of thick walled Drum/Pressure Vessels Shells up to 250 mm thickness using single wire and multiple wire techniques.

2.2 The Flux shall allow high current carrying capacity both in AC and DC.

2.3 The Flux shall be suitable for use with ASME SEC.II.C, SFA-5.23, EG wire for Butt joint SAW of Drum/Pressure Vessel shells of SA 299 Grade A. Other wires intended for use are ASME SEC.II.C, SFA-5.23, EB2 & EB3

2.4 The Flux when used with ASME SEC.II.C, SFA 5.23, EG wire shall yield Weld metal of Tensile Strength higher than 540 MPa.

2.5 The flux shall be supplied in quantities as specified the Purchase order.

3.0 CHEMICAL COMPOSITION:

3.1 The flux shall be of basic type.

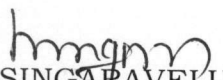
3.2 The Basicity index of the flux shall be 1 to 1.6.

3.3 The flux shall be either fused or agglomerated

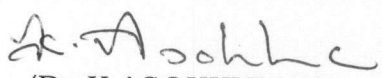
4.0 GRAIN SIZE:

4.1 The grain size of the flux particles shall be 12x65 Tyler Mesh.

PREPARED


 (S.SINGARAVELU)
 DGM/WTC

REVIEWED & APPROVED


 (Dr.K.ASOKKUMAR)
 AGM/WTC



BHARATH HEAVY ELECTRICALS LIMITED
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4.2 Flux shall be granular in form and shall be conveyed freely by the flux feeding system. The particle size distribution shall be uniform and consistent in different packs.

5.0 USABILITY:

5.1 The flux shall produce uniform well-shaped beads that merge smoothly with each other and base metal sidewalls.

5.2 The flux shall exhibit excellent slag detachability.

5.3 The flux shall produce radiographic quality submerged arc welds in deep grooves with AC/DC tandem welding involving high heat inputs with Low Alloy Steel wires confirming to ASME Section II C, SFA-5.23, EG, EB2 & EB3

5.4 Radiographic of weld metal shall meet acceptance criteria specified in the Latest Edition and Addenda (Applicable on the date issue of Purchase Order) of ASME Section -II.C, SFA-5.23.

6.0 PROPERTIES OF WELD METAL:

6.1 The flux when used with dia 4.0 mm EG wire confirming to ASME SEC.II.C, SFA 5.23 shall produce weld metal of Chemistry and Mechanical properties as given below. Test assembly is as per ASME Sec II C for Groove Weld for Multiple Pass Classifications

a) Chemistry of weld metal :

Wire Chemistry of EG Wire

Carbon	: 0.15 % Max.	Carbon	: 0.07-0.12 % Max.
Manganese	: 1.80 % Max.	Manganese	: 1.20- 1.80 % Max
Silicon	: 0.80 % Max	Silicon	: 0.05 % Max
Molybdenum	: 0.40 – 0.65 %	Molybdenum	: 0.40 – 0.65 %
S & P	: 0.025 max each	Copper	: 0.30 Max
Copper	: 0.30 Max	Chromium	: 0.15 Max
		S & P	: 0.025 max each

b) Mechanical properties after SR at 620°±15° C with 3 hours soaking:

All Weld Tensile Strength	: 550 MPa minimum
Yield strength	: 470 MPa minimum
% Elongation	: 20 Minimum
Absorbed Energy (Charpy 'V'	: 30 Joules Average minimum
Notch Impact Test at +20 deg C)	



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6.2 The flux shall be suitably packaged to ensure against damage during shipment. The flux shall be packed in humidity resisting plastic lining and further sealed in air tight metal Drums/HDPE Bags so as to withstand transportation by sea.

6.3 The weight of each metal Drum shall be maximum 100 Kg . The weight of each HDPE Bag shall be a maximum of 50 kg.

6.4 The flux in the original unopened drum/HDPE Bag shall withstand storage under normal condition for a period of at least 18 months without any adverse change to its welding performance or properties of weld.

6.5 The entire lot of each dispatch shall be from one batch only.

7.0 MARKING:

7.1 The following information shall be legibly marked/placed inside each drum/HDPE Bag.

- a) Band Name
- b) Grain size
- c) Batch number
- d) Nett weight

8.0 TESTING AND CERTIFICATION:

8.1 Every batch of flux supplied shall be individually tested for compliance to this WCPI. A batch is defined as the quantity produced from the same combination of raw materials under one production schedule. Three copies of Test certificates in English shall be sent.

8.2 The Test certificate shall contain report of following tests done to ensure compliance to this WCPI.

- a) Chemical analysis of flux
- b) Basicity Index of flux
- c) Grain size of flux

8.3 Prior Approval from BHEL shall be obtained for any deviation to this Purchase instruction.

=====

1. SCOPE

Low Alloy Steel Bare Solid Wire diameter 4.0 mm for Submerged Arc Welding that confirms to ASME, Section II C, SFA- 5.17 Class EM-12K.

2. GENERAL

The wire shall comply with the requirements called for in the Latest Edition and addenda (applicable on the date of issue of purchase order) of ASME Section II C, SFA- 5.17, EM12K. 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.

3. CHEMICAL COMPOSITION

As per ASME Section II C, SFA- 5.17, EM12K.

4. SIZE

The Wire shall be supplied in Diameter 4.0 mm as specified in the Purchase Order. The tolerance on diameter shall be as per ASME Sec II C, SFA- 5.02 .Net weight of each coil shall be 25 kg.

5. FORM

The Wire shall be appropriately layer wound in coils with hardboard liner / Steel liner support of dimensions and weight as given below.

- a. Inner Diameter of Liner : 305 + 10/-0 mm
- b. Width of Coil (maximum) : 100 mm
- c. Net Weight of Coil : 25 Kg.

The wire in coil form along with liner shall be so designed & constructed to prevent distortion of the wire coil / unwinding of the wire/ contamination of the wire during transportation, storage and use under normal conditions.

6 . FINISH AND UNIFORMITY

The wire shall be copper coated by an appropriate process that results in uniform coating thickness without any flaking providing a bright and glossy finish that ensures prevention from rusting in long duration storage.

The Wire surface shall be entirely free from slivers, depressions, scratches, scales, seams, laps, drawing compounds or any other foreign matter that would adversely affect the welding characteristics or properties of Weld metal.

The wire shall be of a single continuous length made from a single heat/melt without any splices.

7 . WINDING, TEMPER, CAST, & HELIX

The Wire shall be layer wound in coils so that kinks, waves, sharp bends, overlapping or wedging are not encountered leaving it free to unwind without any restriction.

The outside end of the wire (The end with which welding is to begin) shall be identified and securely fixed so that it can be readily located and admitted into the wire feed system. This end shall be fastened to avoid unwinding.

The inner end of the wire shall be fixed to the hardboard liner/ steel liner so as to ensure unrestricted layer by layer unwinding of the wire in the wire feed sprocket.

The temper, cast and helix of wire on coils shall ensure unrestricted layer by layer unwinding and easy straightening in the wire feed system and shall render itself to accurate tracking to the Weld groove as it issues out of the current contact tube.

8 . IDENTIFICATION

Adhesive labels containing following product information shall be securely affixed in a prominent location on the hardboard liner/Steel liner of the coil. The Label shall be so affixed that it stays in place during usage of the coil under normal conditions.

- a) Specification & Classification Designation.
- b) Brand Name.
- c) Batch/Lot Number.
- d) Size & Net Weight.

9 . PACKAGING

The Wire Coils completely devoid of moisture or any other foreign materials to adequately sealed in suitable cartons to ensure against any deterioration in 'Wire Quality' during transportation by sea or long duration storage. The appropriate precautionary information as specified in ASME Section II C, SFA-5.17, EM-12K shall be prominently displayed in legible print on cartons.

10 . TESTING AND CERTIFICATION

- 10.1 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 Section II C, SFA-5.17, EM-12K.
- 10.2 Batch/Lot classification shall be Class S1 of SFA 5.01 filler Metal Procurement Guidelines of ASME Section II C.
- 10.3 The level of testing shall be Schedule "J" of SFA 5.01 Filter Metal Procurement Guidelines of ASME Section II C.
- 10.4 Original Test certificates in English giving details of tests done for compliance to this Purchase Instruction and ASME Section II C, SFA-5.17, EM-12K shall be sent.

Sl. No.	Pre –Qualification Criteria - PR	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.	

Seal and Sign of Authorized Person

Sl. No.	Pre –Qualification Criteria – PR	Bidder remark
7	Bidder/Manufacturer 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.	
8	Manufacturing Plant/Mill capacity for Quoted items.	
9	<p>Bidder should give confirmation to BHEL’s Technical Specification. Any deviation from the Specification are to be mentioned in the “Bidder remark Space”.</p> <p>If There is no deviation vendor should indicate “No Deviation”.</p>	
10A	Shall confirm to Technical Specifications as per WCPI-206/07,	
10B	Kindly seal and sign on WCPI-206/07 for technical acceptance.	
11A	Shall confirm to Technical Specifications as per WCPI-101/10.	
11B	Kindly seal and sign on WCPI-101/10 for technical acceptance.	

Seal and Sign of Authorized Person

Sl. No.	Pre –Qualification Criteria – PR	Bidder remark
12A	<p>Shall confirm to Technical Specifications as per WCPI-415/00</p> <p><u>NOTE For 6.0 PROPERTIES OF WELD METAL:</u></p> <ol style="list-style-type: none"> 1- Weld Metal Chemistry (Carbon, Manganese, Silicon, Molybdenum, Sulphur, Phosphor and Chromium) to be reported in the test certificate. 2- The Weld Metal Chemistry shall be analyzed for the specific elements (Carbon, Manganese, Silicon, Molybdenum, Sulphur, Phosphor and Chromium). If the presence of other elements is indicated in the course of this work, the amount of those elements shall be determined to ensure that their total (excluding iron) does not exceed 0.50%. 3- SAW Wire Test certificate to be provided. 4- Mechanical properties after SR . 	
12B	<p>Kindly seal and sign on WCPI-415/00 for technical acceptance.</p> <p><u>NOTE For 6.0 PROPERTIES OF WELD METAL:</u></p> <ol style="list-style-type: none"> 1- Weld Metal Chemistry (Carbon, Manganese, Silicon, Molybdenum, Sulphur, Phosphor and Chromium) to be reported in the test certificate. 2- The Weld Metal Chemistry shall be analyzed for the specific elements (Carbon, Manganese, Silicon, Molybdenum, Sulphur, Phosphor and Chromium). If the presence of other elements is indicated in the course of this work, the amount of those elements shall be determined to ensure that their total (excluding iron) does not exceed 0.50%. 3- SAW Wire Test certificate to be provided. 4- Mechanical properties after SR. 	
13A	<p>Shall confirm to Technical Specifications as per 'TECHNICAL ANNEXURE 1 (EM12K)'.</p>	
13B	<p>Kindly seal and sign on 'TECHNICAL ANNEXURE 1 (EM12K)' for technical acceptance.</p>	

Seal and Sign of Authorized Person

Sl. No.	Pre –Qualification Criteria – PR	Bidder remark
14	<p><u>For E7018</u></p> <p>Diameter and length</p>	
15	<p><u>For EM12K SAW Wire</u></p> <p>Diameter and each Spool Weight</p>	
16	<p>IBR certificate status to be provided for the following.</p> <ul style="list-style-type: none"> • E7018 • ER70S-A1 	

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.

<i>To be filled by bidder</i>		
Description of the Equipment:		
GeM Tender No. & Date		
Name of the firm (Bidder)		:
Address		:
Contact person 1		Contact person 2
Name:		Name:
Designation:		Designation:
Office Phone:		Office Phone:
Mobile:		Mobile:
e-mail:		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.	<p>Payment terms:</p> <ol style="list-style-type: none"> 1. Payment terms for Non MSME Suppliers: Within 90 days after CRAC 2. Payment terms for Micro & Small Enterprises (MSEs): Within 45 days after CRAC. The supplier should upload UDYAM Registration Certificate in proof of MSE. 3. Payment terms for Medium Enterprises: Within 60 days after CRAC. The supplier should upload UDYAM Registration Certificate in proof of Medium Enterprises. <p>Note: Deviation in above payment terms is not acceptable. In case of Auto PRC/CRAC, Payment due date shall be calculated from CRAC date or material acceptance date by BHEL whichever is later.</p>	
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.	Performance Bank Guarantee: 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)

Integrity Pact (IP)

(a) IP is a tool to ensure that activities and transactions between the Company and its Bidders / Contractors are handled in a fair, transparent and corruption free manner. Following Independent External Monitors (IEMs) on the present panel have been appointed by BHEL with the approval of CVC to oversee implementation of IP in BHEL.

SL	IEM	Email
1.	Shri Otem Dai, IAS (Retd.)	iem1@bhel.in
2.	Shri Bishwamitra Pandey, IRAS (Retd.)	iem2@bhel.in
3.	Shri Mukesh Mittal, IRS (Retd.)	Iem3@bhel.in

(b) The IP as enclosed with the tender is to be submitted (duly signed by authorized signatory) along with techno-commercial bid (Part-I, in case of two/three part bid). Only those bidders who have entered into such an IP with BHEL would be competent to participate in the bidding. In other words, entering into this Pact would be a preliminary qualification.

(c) Please refer Section-8 of IP for Role and Responsibilities of IEMs. In case of any complaint arising out of the tendering process, the matter may be referred to any of the above IEM(s). All correspondence with the IEMs shall be done through email only.

Note:

No routine correspondence shall be addressed to the IEM (phone/post/ email) regarding the clarifications, time extensions or any other administrative queries, etc. on the tender issued. All such clarification/ issues shall be addressed directly to the tender issuing (procurement) departments officials whose contact details are provided below.

Details of contact person(s): -

(1)

Name: M Kurinjarasi

Deptt: MM/WC & CPSP

Address: 24 Building, BHEL, Trichy

Phone: 0431-2577597

Email: kurinji@bhel.in

(2)

Name: Sonu Majhi

Deptt: MM/ WC & CPSP

Address: 24 Building, BHEL, Trichy

Phone: 0431-2575636

Email: sonu@bhel.in

Annexure-1

INTEGRITY PACT**Between**

Bharat Heavy Electricals Ltd. (BHEL), a company registered under the Companies Act 1956 and having its registered office at "BHEL House", Siri Fort, New Delhi - 110049 (India) hereinafter referred to as "The Principal", which expression unless repugnant to the context or meaning hereof shall include its successors or assigns of the ONE PART

and

_____, (description of the party along with address), hereinafter referred to as "The Bidder/ Contractor" which expression unless repugnant to the context or meaning hereof shall include its successors or assigns of the OTHER PART

Preamble

The Principal intends to award, under laid-down organizational procedures, contract/s for _____

_____ (hereinafter referred to as "Contract"). The Principal values full compliance with all relevant laws of the land, rules and regulations, and the principles of economic use of resources, and of fairness and transparency in its relations with its Bidder(s)/ Contractor(s).

In order to achieve these goals, the Principal will appoint panel of Independent External Monitor(s) (IEMs), who will monitor the tender process and the execution of the contract for compliance with the principles mentioned above.

Section 1- Commitments of the Principal

- 1.1 The Principal commits itself to take all measures necessary to prevent corruption and to observe the following principles: -
 - 1.1.1 No employee of the Principal, personally or through family members, will in connection with the tender for, or the execution of a contract, demand, take a promise for or accept, for self or third person, any material or immaterial benefit which the person is not legally entitled to.
 - 1.1.2 The Principal will, during the tender process treat all Bidder(s) with equity and reason. The Principal will in particular, before and during the tender process, provide to all Bidder(s) the same information and will not provide to any Bidder(s) confidential/ additional information through which the Bidder(s) could obtain an advantage in relation to the tender process or the contract execution.
 - 1.1.3 The Principal will exclude from the process all known prejudiced persons.
- 1.2 If the Principal obtains information on the conduct of any of its employees which is a penal offence under the Indian Penal Code 1860 and Prevention of Corruption Act 1988 or any other statutory penal enactment, or if there be a substantive suspicion in this regard, the Principal will inform its Vigilance Office and in addition can initiate disciplinary actions.

Section 2 - Commitments of the Bidder(s)/ Contractor(s)

- 2.1 The Bidder(s)/ Contractor(s) commit himself to take all measures necessary to prevent corruption. The Bidder(s)/ Contractor(s) commits himself to observe the following principles during participation in the tender process and during the contract execution.

- 2.1.1 The Bidder(s)/ Contractor(s) will not, directly or through any other person or firm, offer, promise or give to the Principal or to any of the Principal's employees involved in the tender process or the execution of the contract or to any third person any material, immaterial or any other benefit which he/ she is not legally entitled to, in order to obtain in exchange any advantage of any kind whatsoever during the tender process or during the execution of the contract.
- 2.1.2 The Bidder(s)/ Contractor(s) will not enter with other Bidder(s) into any illegal or undisclosed agreement or understanding, whether formal or informal. This applies in particular to prices, specifications, certifications, subsidiary contracts, submission or non-submission of bids or any other actions to restrict competitiveness or to introduce cartelization in the bidding process.
- 2.1.3 The Bidder(s)/ Contractor(s) will not commit any penal offence under the relevant Indian Penal Code (IPC) and Prevention of Corruption Act; further the Bidder(s)/ Contractor(s) will not use improperly, for purposes of competition or personal gain, or pass on to others, any information or document provided by the Principal as part of the business relationship, regarding plans, technical proposals and business details, including information contained or transmitted electronically.
- 2.1.4 Foreign Bidder(s)/ Contractor(s) shall disclose the name and address of agents and representatives in India and Indian Bidder(s)/ Contractor(s) to disclose their foreign principals or associates. The Bidder(s)/ Contractor(s) will, when presenting his bid, disclose any and all payments he has made, and is committed to or intends to make to agents, brokers or any other intermediaries in connection with the award of the contract.
- 2.2 The Bidder(s)/ Contractor(s) will not instigate third persons to commit offences outlined above or be an accessory to such offences.
- 2.3 The Bidder(s)/ Contractor(s) shall not approach the Courts while representing the matters to IEMs and shall await their decision in the matter.

Section 3 - Disqualification from tender process and exclusion from future contracts

If the Bidder(s)/ Contractor(s), before award or during execution has committed a transgression through a violation of Section 2 above, or acts in any other manner such as to put his reliability or credibility in question, the Principal is entitled to disqualify the Bidder(s)/ Contractor(s) from the tender process, terminate the contract, if already awarded, exclude from future business dealings and/ or take action as per the separate "Guidelines on Banning of Business dealings with Suppliers/ Contractors", framed by the Principal.

Section 4 - Compensation for Damages

- 4.1 If the Principal has disqualified the Bidder (s) from the tender process before award / order acceptance according to Section 3, the Principal is entitled to demand and recover the damages equivalent to Earnest Money Deposit/ Bid Security.
- 4.2 If the Principal is entitled to terminate the Contract according to Section 3, or terminates the Contract in application of Section 3 above, the Bidder(s)/ Contractor (s) transgression through a violation of Section 2 above shall be construed breach of contract and the Principal shall be entitled to demand and recover from the Contractor an amount equal to 5% of the contract value or the amount equivalent to Security Deposit/ Performance Bank Guarantee, whichever is higher, as damages, in addition to and without prejudice to its right to demand and recover compensation for any other loss or damages specified elsewhere in the contract.

Section 5 - Previous Transgression

- 5.1 The Bidder declares that no previous transgressions occurred in the last 3 (three) years with any other company in any country conforming to the anti-corruption approach or with any other Public Sector Enterprise in India that could justify his exclusion from the tender process.
- 5.2 If the Bidder makes incorrect statement on this subject, he can be disqualified from the tender process or the contract, if already awarded, can be terminated for such reason or action can be taken as per the separate "Guidelines on Banning of Business dealings with Suppliers/ Contractors", framed by the Principal.

Section 6 - Equal treatment of all Bidder (s)/ Contractor (s) / Sub-contractor (s)

- 6.1 The Principal will enter into Integrity Pacts with identical conditions as this Integrity Pact with all Bidders and Contractors.
- 6.2 In case of Sub-contracting, the Principal Contractor shall take the responsibility of the adoption of Integrity Pact by the Sub-contractor(s) and ensure that all Sub-contractors also sign the Integrity Pact.
- 6.3 The Principal will disqualify from the tender process all Bidders who do not sign this Integrity Pact or violate its provisions.

Section 7 - Criminal Charges against violating Bidders/ Contractors /Subcontractors

If the Principal obtains knowledge of conduct of a Bidder, Contractor or Subcontractor, or of an employee or a representative or an associate of a Bidder, Contractor or Subcontractor which constitutes corruption, or if the Principal has substantive suspicion in this regard, the Principal will inform the Vigilance Office.

Section 8 -Independent External Monitor(s)

- 8.1 The Principal appoints competent and credible panel of Independent External Monitor (s) (IEMs) for this Integrity Pact. The task of the IEMs is to review independently and objectively, whether and to what extent the parties comply with the obligations under this Integrity Pact.
- 8.2 The IEMs are not subject to instructions by the representatives of the parties and performs his functions neutrally and independently. He reports to the CMD, BHEL.
- 8.3 The IEMs shall be provided access to all documents/ records pertaining to the Contract, for which a complaint or issue is raised before them as and when warranted. However, the documents/records/information having National Security implications and those documents which have been classified as Secret/Top Secret are not to be disclosed.
- 8.4 The Principal will provide to the IEMs sufficient information about all meetings among the parties related to the Contract provided such meetings could have an impact on the contractual relations between the Principal and the Contractor. The parties offer to the IEMs the option to participate in such meetings.

- 8.5 The advisory role of IEMs is envisaged as that of a friend, philosopher and guide. The advice of IEMs would not be legally binding and it is restricted to resolving issues raised by a Bidder regarding any aspect of the tender which allegedly restricts competition or bias towards some Bidders. At the same time, it must be understood that IEMs are not consultants to the Management. Their role is independent in nature and the advice once tendered would not be subject to review at the request of the organization.
- 8.6 For ensuring the desired transparency and objectivity in dealing with the complaints arising out of any tendering process or during execution of Contract, the matter should be examined by the full panel of IEMs jointly, who would look into the records, conduct an investigation, and submit their joint recommendations to the Management.
- 8.7 The IEMs would examine all complaints received by them and give their recommendations/ views to the CMD, BHEL at the earliest. They may also send their report directly to the CVO, in case of suspicion of serious irregularities requiring legal/ administrative action. Only in case of very serious issue having a specific, verifiable Vigilance angle, the matter should be reported directly to the Commission. IEMs will tender their advice on the complaints within 30 days.
- 8.8 The CMD, BHEL shall decide the compensation to be paid to the IEMs and its terms and conditions.
- 8.9 IEMs should examine the process integrity, they are not expected to concern themselves with fixing of responsibility of officers. Complaints alleging mala fide on the part of any officer of the Principal should be looked into by the CVO of the Principal.
- 8.10 If the IEMs have reported to the CMD, BHEL, a substantiated suspicion of an offence under relevant Indian Penal Code / Prevention of Corruption Act, and the CMD, BHEL has not, within reasonable time, taken visible action to proceed against such offence or reported it to the Vigilance Office, the IEMs may also transmit this information directly to the Central Vigilance Commissioner, Government of India.
- 8.11 After award of work, the IEMs shall look into any issue relating to execution of Contract, if specifically raised before them. As an illustrative example, if a Contractor who has been awarded the Contract, during the execution of Contract, raises issue of delayed payment etc. before the IEMs, the same shall be examined by the panel of IEMs. Issues like warranty/ guarantee etc. shall be outside the purview of IEMs.
- 8.12 However, the IEMs may suggest systemic improvements to the management of the Principal, if considered necessary, to bring about transparency, equity and fairness in the system of procurement.
- 8.13 The word 'Monitor' would include both singular and plural.

Section 9 - Pact Duration

- 9.1 This Integrity Pact shall be operative from the date this Integrity Pact is signed by both the parties till the final completion of contract for successful Bidder, and for all other Bidders 6 months after the Contract has been awarded. Any violation of the same would entail disqualification of the bidders and exclusion from future business dealings.
- 9.2 If any claim is made/ lodged during currency of this Integrity Pact, the same shall be binding and continue to be valid despite the lapse of this Pact as specified above, unless it is discharged/ determined by the CMD, BHEL.

Section 10 - Other Provisions

- 10.1 This Integrity Pact is subject to Indian Laws and exclusive jurisdiction shall be of the competent Courts as indicated in the Tender or Contract, as the case may be.
- 10.2 Changes and supplements as well as termination notices need to be made in writing.
- 10.3 If the Bidder(s)/ Contractor(s) is a partnership or a consortium or a joint venture, this Integrity Pact shall be signed by all partners of the partnership or joint venture or all consortium members.
- 10.4 Should one or several provisions of this Integrity Pact turn out to be invalid, the remainder of this Integrity Pact remains valid. In this case, the parties will strive to come to an agreement to their original intentions.
- 10.5 Only those bidders / contractors who have entered into this Integrity Pact with the Principal would be competent to participate in the bidding. In other words, entering into this Integrity Pact would be a preliminary qualification.
- 10.6 In the event of any dispute between the Principal and Bidder(s)/ Contractor(s) relating to the Contract, in case, both the parties are agreeable, they may try to settle dispute through Mediation before the panel of IEMs in a time bound manner. In case, the dispute remains unresolved even after mediation by the panel of IEMs, either party may take further action as the terms & conditions of the Contract. The fees/expenses on dispute resolution through mediation shall be shared by both the parties. Further, the mediation proceedings shall be confidential in nature and the parties shall keep confidential all matters relating to the mediation proceedings including any settlement agreement arrived at between the parties as outcome of mediation. Any views expressed, suggestions, admissions or proposals etc. made by either party in the course of mediation shall not be relied upon or introduced as evidence in any further arbitral or judicial proceedings, whether or not such proceedings relate to the dispute that is the subject of mediation proceedings. Neither of the parties shall present IEMs as witness in any Alternative Dispute Resolution or judicial proceedings in respect of the dispute that was subject of mediation.

M KURINJIARASI Digitally signed by M KURINJIARASI Date: 2023.06.12 12:27:53 +05'30'

For & On behalf of the Principal
(Office Seal)

Place _____

Date _____

Witness: SONU MAJHI Digitally signed by SONU MAJHI Date: 2023.06.12 12:35:42 +05'30'
(Name & Address) _____

For & On behalf of the Bidder/ Contractor
(Office Seal)

Place _____

Date _____

Witness: _____
(Name & Address) _____
