

Technical Specifications

SL. No	Description and Technical Specification of the item	QTY	UNIT	Delivery
1	<p>P92 SAW WIRE DIA 3.20MM/3.0MM</p> <p>SAW WIRE FOR SA335P92 PIPE BUTT WELDING. DIA of wire= 3.20 MM/3.00MM</p> <p>Weight of each spool=25 KG</p> <p>The test certificate shall contain the following: 1. Chemical composition of the wire.</p>	3,200.00	KG	105 DAYS
2	<p>P92 BASIC AGGLOMERATED SAW FLUX</p> <p>TECHNICAL SPECIFICATION AGGLOMERATED SAW FLUX FOR SA335 P92 PIPE BUTT shall confirm to the requirements mentioned in this technical specification.</p> <p>CHEMICAL COMPOSITION REQUIREMENTS: 1. The As-deposited weld metal chemistry (Wire and flux combined) shall confirm to the following: C(0.08-0.13%),Mn(1.00% max),Si(0.35 % max),P(0.010 % max),S(0.010 %max), Ni(0.20% max),Cr(8.5-9.5%),Mo(0.30-0.60%),V(0.15-0.25%),Cu(0.25 % max),Al(0.02 % max), Cb(0.02-0.09 %),N(0.04-0.07%),B(0.002-0.006%),W(1.5-2.0%) It is Preferable to limit nickel content to 0.2% max. However, the total amount of Nickel plus Manganese shall not exceed 1.2%.</p> <p>2. The test certificate shall contain the following results after actual tests done: a) Actual Chemical Composition of as deposited weld metal. b) Weld metal Mechanical Properties (PWHT 760 degree Celsius for 2 hours). -Tensile Strength: 620 MPa (Minimum) at Room Temperature. Yield Strength: 530 MPa (Minimum) at Room Temperature. -% Elongation: 20 % (Minimum) at Room Temperature. -Impact Energy: The maximum test temperature shall be +22 degree Celsius (+22°C). and the minimum single value shall be 40 Joule. -Hardness of weld metal (202 HV to 320 HV). c) Diffusible Hydrogen content of weld metal deposited using quoted flux with quoted wire shall not exceed 4 ml per 100 grams.</p> <p>3. Test certificate is required along Supply. Note : PWHT 760 degree Celsius means = 760 °C ± 10 °C</p>	4,800.00	KG	105 DAYS

ANNEXURE – 1
TECHNICAL SPECIFICATION

AGGLOMERATED SAW FLUX FOR SA335 P92 PIPE BUTT shall conform to the requirements mentioned in this technical specification.

CHEMICAL COMPOSITION REQUIREMENTS:

1. The 'As-deposited' weld metal chemistry (Wire and flux combined) shall conform to the following:

Sl. No	Element	Percentage	Sl. No	Element	Percentage
1	C	0.08-0.13%	10	Cu	0.25% max
2	Mn	1.00% max	11	Al	0.02% max
3	P	0.010% max	12	Cb	0.02-0.09%
4	Si	0.35% max	13	N	0.04-0.07%
5	S	0.010% max	14	B	0.002-0.006%
6	Ni	0.20% max	15	W	1.5-2.0%
7	Cr	8.5-9.5%			
8	Mo	0.30-0.60%			
9	V	0.15-0.25%			

It is Preferable to limit nickel content to 0.2% max. However, the total amount of Nickel plus Manganese shall not exceed 1.2%

2. The test certificate shall contain the following results after actual tests done:
- Actual Chemical Composition of as deposited weld metal.
 - Weld metal Mechanical Properties (PWHT 760 degree Celsius for 2 hours).
 - Tensile Strength : 620 MPa (Minimum) at Room Temperature.
 - Yield Strength : 530 MPa (Minimum) at Room Temperature.
 - % Elongation : 20 % (Minimum) at Room Temperature.
 - Impact Energy : The maximum test temperature shall be +22 degree Celsius (+22°C). and the minimum single value shall be 40 Joule.
 - Hardness of weld metal (202 HV to 320 HV).
 - Diffusible Hydrogen content of weld metal deposited using quoted flux with quoted wire shall not exceed 4 ml per 100 grams.
3. Test certificate is required along Supply.

Note : PWHT 760 degree Celsius means = 760 °C ± 10 °C


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Sl. No.	Pre –Qualification Criteria - PR 134683798	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	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.	

Seal and Sign of Authorized Person

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 BHEL, Trichy - 620014.

R. Arivazhagan
R. ARIVAZHAGAN
 Senior Manager
 Welding Technology Centre
 BHEL, TRICHY - 620 014

Sl. No.	Pre –Qualification Criteria – PR 134683798	Bidder remark
8	Manufacturing Plant/Mill capacity for SAW wire and Flux.	
9	Diameter details and Spool Weight.	
11	<p>Bidder/Manufacturer shall have successful experience for supplying of SAW wire or, SAW flux to any govt. Organizations/ PSUs/ Public Ltd./ Company/Reputed Industries etc.</p> <p>Purchase orders copies/ related documents to be submitted along with offer to consider the offer.</p> <p>Note : Successful experience means – supplied and accepted.</p>	

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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)