

**Enquiry items along with quantities:**

It. no	Size & Item description	Technical requirement	Quantity in kg
1	C.S. PLATES TO SA 516 GR. 70 OF ASME SEC. II PART-A- 2021: 06MM TK*2500MM*5000MM LG (618 KG EACH)	CARBON STEEL PLATES TO SA 516 GR. 70 OF ASME SEC. II PART-A; 2021 AND CHECKLIST TO P.I. 141120080 ENCLOSED. SIZE : 06 MM TK X 2500 MM X 5000 MM LONG (WT= 618.00 KG EACH X 1=618 KG TOTAL)	618
2	C.S. PLATES TO SA 516 GR. 70 OF ASME SEC. II PART-A-2021 : 08MM TK*2500MM*5000MM LG (824 KG EACH)	CARBON STEEL PLATES TO SA 516 GR. 70 OF ASME SEC. II PART-A; 2021 AND CHECKLIST TO P.I. 141120080 ENCLOSED. SIZE : 08 MM TK X 2500 MM X 5000 MM LONG (WT= 824.00 KG EACH X 1=824 KG. TOTAL)	824
3	C.S. PLATES TO SA 516 GR. 70 OF ASME SEC. II PART-A-2021 : 10MM TK*2500MM*8000MM LG (1648.5 KG EACH)	CARBON STEEL PLATES TO SA 516 GR. 70 OF ASME SEC. II PART-A; 2021 AND CHECKLIST TO P.I. 141120080 ENCLOSED. SIZE : 10 MM TK X 2500 MM X 8000 MM LONG (WT= 1648.5 KG EACH X 2 =3297 KG TOTAL)	3297
4	C.S. PLATES TO SA 516 GR. 70 OF ASME SEC. II PART-A-2021 : 32MM TK*2500MM*8000MM LONG (5275 KG EACH)	CARBON STEEL PLATES TO SA 516 GR. 70 OF ASME SEC. II PART-A; 2021 AND CHECKLIST TO P.I. 141120080 ENCLOSED. SIZE : 32 MM TK X 2500 MM X 8000 MM LONG (WT= 5275.00 KG EACH X 1=5275 KG TOTAL)	5275
5	C.S. PLATES TO SA 516 GR. 70 OF ASME SEC. II PART-A-2021: 40MM TK*2500MM*7000MM LG (5770 KG EACH)	CARBON STEEL PLATES TO SA 516 GR. 70 OF ASME SEC. II PART-A; 2021 AND CHECKLIST TO P.I. 141120080 ENCLOSED. SIZE : 40 MM TK X 2500 MM X 7000 MM LONG (WT= 5770 KG EACH X 1= 5770 KG TOTAL)	5770
6	C.S. PLATES TO SA 516 GR. 70 OF ASME SEC. II PART-A-2021 : 85MM TK*2500MM*5000MM LG (8758 KG EACH)	CARBON STEEL PLATES TO SA 516 GR. 70 OF ASME SEC. II PART-A; 2021 AND CHECKLIST TO P.I. 141120080 ENCLOSED. SIZE : 85 MM TK X 2500 MM X 5000 MM LONG (WT= 8758 KG EACH X 1 =8758 KG TOTAL)	8758
TOTAL			24542

Quantity variation as per below:

**Item-1,** Supplies quantity are to be restricted between 618 kg & 589 kg.

**Item-2,** Supplies quantity are to be restricted between 824 kg & 785 kg.

**Item-3,** Supplies quantity are to be restricted between 3297 kg & 3140 kg.

**Item-4,** Supplies quantity are to be restricted between 5275 kg & 5024 kg.

**Item-5,** Supplies quantity are to be restricted between 5770 kg & 5495 kg.

**Item-6,** Supplies quantity are to be restricted between 8758 kg & 8341 kg.

Pre-qualification criteria:				
S. No.	Description of pre-qualification requirement			Vendor Response
				<div>Complied/ Not complied</div> <div>Supporting Documents required to accept compliance</div>
1	Manufacturer (mill) of steel plate / their authorized representative / trader.			<div>YES / NO</div> <div>Certificate of being manufacturer (for manufacturer /mill not registered with BHEL) / authorization letter on mill's letterhead (for authorized representatives/trader). Authorized representative/trader to mention the mill(s) from which supplies are envisaged &amp; same shall be binding for the contract.</div>
2	Company shall be certified with ISO 9001 or equivalent. In case of authorized representative, Valid ISO certificate of manufacturer is required.			<div>YES / NO</div> <div>Valid certificate of mill(s) / OEM to be submitted. Not required if valid document is already furnished / available.</div>
3	Vendor to furnish a list of their supplies mentioning material grade, thicknesses and sizes. To qualify for supplying a specific thickness, supplier should have supplied plate of material to SA 516 Gr 70 as indicated below.			<div>YES / NO</div> <div> <ul style="list-style-type: none"> <li><b>For Mills / OeMs</b> - A list of past supplies (along with documents i.e. Purchase Order (PO) &amp; dispatch details) made by the supplier.</li> <li><b>For traders / stockiest</b> – A list of past supplies (along with documents i.e. PO, MTC &amp; dispatch details) made by the supplier.</li> </ul> <p><b>Note:-</b> Documents are required for each qualification thickness supplied earlier (for min. one supply) as per table.</p> </div>
	Package no.	Indented thickness	Qualification thickness supplied earlier	
	<b>Package-1</b> (PI Item-1-6)	6-10 mm	12mm minimum	
		32-40 mm	30 mm minimum	
		85 mm	63 mm minimum	

**Note-**

**ALL THE ABOVE POINT WISE PRE-QUALIFICATION REQUIREMENT ARE TO BE NECESSARILY ACCEPTED BY THE BIDDERS FOR THEIR OFFERS TO BE CONSIDERED FAILING WHICH OFFERS SHALL BE REJECTED.**

**MAKE IN INDIA format (to be filled by OeMs of the participating bidders)**

**BHARAT HEAVY ELECTRICALS LIMITED, BHOPAL**

**MATERIAL MANAGEMENT – STEEL DIVISION**

*For this Procurement, Government of India Public Procurement (Preference to Make in India), Order 2017 with its amendments and subsequent Orders issued by the respective nodal ministries shall be applicable even if issued after issue of this NIT but before finalization of contract/PO/WO against this NIT.*

**As per the Provisions of this order, please submit a self-certification complying with the conditions below on company letterhead duly signed by competent authority.**

I ....., hereby declare on behalf of M/s. .... that we are participating in the Enquiry No. .... floated by BHEL, Bhopal (MP), India and shall comply with following:

1. Public Procurement (Preference to Make in India), Order 2017 *with its amendments* and subsequent Orders issued by the respective nodal ministries shall be applicable even if issued after issue of this NIT but before finalization of contract/PO/WO against this NIT.

(a) A supplier will be treated as **“Class-I Local Suppliers”**, if the items quoted by bidder have local content equal to or more than 50%.

(b) **‘Local Content’** means the amount of value added in India, which shall be total value of item quoted (excluding net domestic indirect taxes) minus the value of imported content in the item (including all custom duties) as a proportion of the total value, **in percent**.

2. I hereby declare that our firm qualifies as **“Class-I Local Suppliers”**.

**a. The Local Content in the items quoted under this Enquiry is ..... Percent**

**b. Details of location(s) in India where this value addition shall be done, is/are as follows:**

- (a) .....
- (b) .....
- (c) .....

(.....)

For M/s. ....

(Seal & Sign)

BHEL BHOPAL	SPECIFIC CONFIRMATIONS REQUIRED FROM SUPPLIER	CHECK LIST No. CL/CDE/037
<b>CARBON STEEL PLATES</b>		
S.No.	TECHNICAL REQUIREMENTS	CONFIRMATIONS/COMMENTS OF SUPPLIER (YES/NO)

- 01.a      **MATERIAL OF CONSTRUCTION :** ..... YES/NO  
CARBON STEEL TO SA-516 Gr.70  
OF ASME Sec.II PART-A;2021  
AND HEAT TREATED TO  
SPECIFICATION.
- 01.b      PLATES PRODUCED FROM DE-COILING ..... YES/NO  
IS NOT ACCEPTABLE
- 02          **SIZE & QUANTITY - AS PER** ..... YES/NO  
BHEL ENQUIRY
03.        NON DESTRUCTIVE EXAMINATION ..... YES/NO  
PLATES 12 TK AND ABOVE  
ULTRASONICALLY TESTED AS PER  
LEVEL-B OF SAA-578
- 04          **HEAT TREATMENT - NORMALISING** ..... YES/NO
- 05.a.      **MECHANICAL TEST -** ..... YES/NO  
AS PER SPECIFICATION INCLUDING  
BEND TEST AS PER SA-20 OF  
ASME SEC.II PART-A;2021
- 05.b.      CARBON STEEL PLATE SHALL ..... YES/NO  
ALSO MEET THE FOLLOWINGS  
1. VACCUM TREATMENT TO S1  
2. CHARPY V-NOTCH TEST.
06.        **MARKING OF PLATE : AS PER PARA-13** ..... YES/NO  
OF SA-20 OF ASME SEC.II PART-A;2021.
- 07          **INSPECTION : BY BHEL TPIA** ..... YES/NO

As per reference SQP BPL/CDE-22-3560 rev 00, supplier to submit QAP at contract stage for BHEL/ NPCIL approval. Any change/ modification in QAP at later stage by customer M/s NPCIL shall be taken care of at supplier's end without any commercial implication. All certificates, duly signed & stamped by Inspection Agency is required.

BHEL BHOPAL	SPECIFIC CONFIRMATIONS REQUIRED FROM SUPPLIER	CHECK LIST No. CL/CDE/037
<b>CARBON STEEL PLATES</b>		
S.No.	TECHNICAL REQUIREMENTS	CONFIRMATIONS/COMMENTS OF SUPPLIER (YES/NO)

08

**LIST CLEARLY ANY DEVIATION FROM BHEL REQUIREMENTS,  
OTHERWISE IT WILL BE PRESUMED THAT THE OFFER IS  
IN LINE WITH OUR REQUIREMENTS.**

- Note :* (1) **If original Mill T.C. is not furnished, then photocopy of the same duly endorsed by the inspection agency in original with respect to original Mill T.C. to be furnished.**
- (2) **Repair of plates by welding (for any surface defects) is not permitted.**

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**Annexure –A to PI-141120080**

**SUGGESTED SUB- VENDORS for CS Plate (As per NPCIL Doc  
GHAVP-,2/40000 procurement Specification – MS-1)**

<b>Sr. No.</b>	<b>Supplier' Name</b>	<b>Location/ Country</b>
<b>1</b>	M/S. LLOYD	<b>MUMBAI</b>
<b>2</b>	M/S M/S. RASHTRIYA ISPAT NIGAM LTD	<b>VIZAG</b>
<b>3</b>	M/s STEEL AUTHORITY OF INDIA LTD	<b>MUMBAI</b>
<b>4</b>	M/S. TISCO	<b>JAMSHEDPUR</b>
<b>5</b>	M/s JINDAL STAINLESS (HISAR) LIMITED	<b>ORISSA</b>
<b>6</b>	M/S. ESSAR STEEL INDIA LTD	<b>HAZIRA</b>

The offers of/with OEM's other than as listed above, Supplier/Bidder to provide credentials (duly signed/filled, stamped & indexed) as per Vendor Credential format (QAX/TH/1500) along with the offer. In case offer meets PQR & technical requirements, credential of the mill shall be sent to NPCIL for their approval. In case of non-approval, such bids shall not be considered.



## QUALITY ASSURANCE THERMAL (QTH)

### SUB-VENDOR CREDENTIAL-INDEX

DATE:-DD/MM/YY

NAME OF ORGANISATION: \_\_M/S\_\_\_\_\_

ADDRESS of Organisation:-\_\_\_\_\_

PRODUCT DESCRIPTION:-\_\_\_\_\_

CONTACT PERSON : -\_\_\_\_\_

TELEPHONE (LAND LINE/MOB.) : -\_\_\_\_\_

E-MAIL :-\_\_\_\_\_


UDYOG AADHAR MEMORANDUM:-\_\_\_\_\_




BHEL REGISTRATION NO. AND DATE:-\_Registered (Year\_\_\_\_\_) / Not registered\_\_

Sl no.	PARAMETER	PAGE NO	REMARK
1	Balance Sheet for last 4 years.		
2	Rating, Range / type etc. of equipment/ item for proposed approval.		
3	Organisational structure including QA/QC inspection dept. with man power & qualification details.		
4	In house design / R&D capability.		
5	List of sub-vendors for critical/ major bought out items.		
6	In-coming material inspection plan and Manufacturing Quality Plan.		
7	In house manufacturing facilities, machineries, Heat treatment furnace.		
8	In house NDE facilities & list of qualified NDE personnel with level of qualification.		
9	Experience (Past Track Record) list for last 3 years for similar product.		
10	Performance certificates issued by other customers.		
11	Certification of/ by reputed agencies (ISO/ ASME/ CE/ UL/API/ etc. ) & also approval certificates from other customers etc.		
12	Capability to manufacture as per NPCIL Approved technical spec & fabrication code section 3NB/ND.		


Authorized Signatory



		Heat Exchanger Group BHEL BHOPAL		STANDARD QUALITY PLAN - SQP				QA PLAN No. : BPL/CDE-22-3560 Revision No. : 00 Date of issue : 16.01.2023 PAGE : 1 of 2					
				Item : CARBON STEEL PLATE									
S. No.	Operations	Characteristics	Class	Type of Check	Quantum of Check	Reference Document	Acceptance Norms	Format of Record	*D	Agency for action			Remarks
										S	B	C	
1	2	3	4	5	6	7	8	9	10			11	
1.	Verification of Mill Test Certificates	Chemical composition	Major	Chemical	1/Heat	SA-516 / SA 20	SA-516 Gr. 70/ SA 20	MILL TC	✓	P	V	-	Co-related mill TC to be furnished.
		Mechanical Properties (Tensile, Hardness, Heat treatment – Normalised & Vacuum treatment etc.)	Major	Mechanical	1/Heat	SA-516/ SA 20	SA-516 Gr. 70/ SA 20	MILL TC	✓	P	V	-	
2.	Non Destructive Examination	Ultrasonic Examination (for thickness above 12 mm)	Major	Recorder	100%	SA-578 Level B	SA-578 Level B	IR	✓	P	V	-	Co-related mill TC to be furnished.
3.	Destructive Test	Charpy V-notch Impact Test	Major	Mech	1/Heat	S5 of SA 516 / SA 20	S5 of SA 516 Gr 70/ SA 20	IR	✓	P	V	-	
		Bend Test	Major	Mech	1/Heat	SA 20	SA 20	IR	✓	P	V	-	


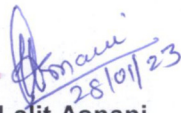
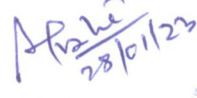
BHEL Drg No. : As mentioned in P.O.		BHEL Spec. No.: As mentioned in P.O.		Prepared by:  27.01.2023 D K Audh & BS Yadav Deputy Manager - CDE	Reviewed by:  28/01/23 Lalit Asnani SR.DGM- CDE	Approved by:  28/1/23 S P Vatsa AGM - CDE									
<p><b>Legend:</b> *D- Documents marked (✓) to be included by Supplier in Doc. Package.</p> <table><tr><td>S - Trader / Manufacturer</td><td>P - Perform</td><td>IR : Inspection Record</td></tr><tr><td>B – BHEL TPIA</td><td>W - Witness</td><td>Measurt.: Measurement</td></tr><tr><td>C - Customer (if any)</td><td>V - Verify</td><td>I – Instrument used to check TC – Test Certificate</td></tr></table>							S - Trader / Manufacturer	P - Perform	IR : Inspection Record	B – BHEL TPIA	W - Witness	Measurt.: Measurement	C - Customer (if any)	V - Verify	I – Instrument used to check TC – Test Certificate
S - Trader / Manufacturer	P - Perform	IR : Inspection Record													
B – BHEL TPIA	W - Witness	Measurt.: Measurement													
C - Customer (if any)	V - Verify	I – Instrument used to check TC – Test Certificate													



 <b>Heat Exchanger Group BHEL BHOPAL</b>		<b>STANDARD QUALITY PLAN - SQP</b>						<b>QA PLAN No. : BPL/CDE-22-3560</b> Revision No. : 00 Date of issue : 16.01.2023 PAGE : 2 of 2					
		Item : <b>CARBON STEEL PLATE</b>											
S. No.	Operations	Characteristics	Class	Type of Check	Quantum of Check	Reference Document	Acceptance Norms	Format of Record	*D	Agency for action			Remarks
										S	B	C	
1	2	3	4	5	6	7	8	9	10			11	
4.	Finishing	Dimensional check (Measurt. of Thickness, Length, Width & Flatness)	Critical	I + Visual	100%	SA 20	SA 20	IR	✓	P	W	-	
		Condition, Surface check, appearance	Critical	Visual	100%	SA 20	SA 20	TC / IR	✓	P	W	-	
5.	Dispatch	Packing & Marking	Critical	Visual	100%	SA 20	SA 20	IR	✓	P	-	-	

**Notes:**

- All testing shall be carried out at NABL certified laboratories accepted by BHEL/NPCIL only.
- Two (02) sets of all the above documents (i.e. MTC, TC & Inspection Record - IR) duly signed and stamped by the BHEL-IA shall be provided along with the supply.
- Sharp edges/burrs if any to be removed.
- Repair of plates by welding (for any surface defects) is not permitted.
- UT to be carried out by ISNT / ASNT NDT Level-I person under the supervision by Level-II/III person only If required.
- Repair of plates by welding (for any surface defects) is not permitted.

BHEL Drg No. : As mentioned in P.O.	BHEL Spec. No.: As mentioned in P.O.	Prepared by:	Reviewed by:	Approved by:
<b>Legend:</b> *D- Documents marked (✓) to be included by Supplier in Doc. Package. <b>S</b> - Trader / Manufacturer <b>P</b> - Perform <b>IR</b> : Inspection Record <b>B</b> - BHEL TPIA <b>W</b> - Witness    Measurt.: Measurement <b>C</b> - Customer (if any) <b>V</b> - Verify <b>I</b> - Instrument used to check <b>TC</b> - Test Certificate		 27.01.23 <b>D K Audh &amp; BS Yadav</b> Deputy Manager - CDE	 28/01/23 <b>Lalit Asnani</b> SR.DGM- CDE	 28/01/23 <b>S P Vatsa</b> AGM - CDE