BHARAT HEAVY ELECTRICALS LIMITED HEEP HARIDWAR INDIA-PIN 249403 PHONE NO: 0091 1334 285120

Sub: Procurement of ACC STEAM DUCT
Projects: Patratu-2

A. SCOPE OF ENQUIRY:

The Heavy Electricals Equipment Plant (HEEP) located in Haridwar, India is one of the major manufacturing plants of Bharat Heavy Electricals Ltd. The core business of HEEP includes design and manufacture of large steam turbines, turbo generators and so on.

Bids are invited from Indian indigenous suppliers for following items through GeM Portalhttps://gem.gov.in

Scope of Work: - PRE-FAB. M/C & FAB. ONLY as per Drawing/Standard & QP requirements.

SLNO	MATERIAL CODE	DESCRIPTION	TOTAL QTY	UNIT	DELIVERY IN DAYS
1	1170997012100	BLANK PLATE FOR GROUND DUCT	1	NO.	120

(Total qty in numbers= 1 nos. of 1170997012100 & Fab. Weight= 12580 kg. /pc)

TOTAL LOAD = 12580 KG. (TOLERANCE IN TOTAL LOAD MAY BE (+/-) 25%)

B. <u>Buyers Specific Additional Terms & Conditions in addition to GTC:</u>

Sl. No.	Terms	Description	Bidder's
			Confirmation
1.	Confirmation to	In addition to the terms & conditions mentioned in	
	compliance of	below table, latest General terms and conditions on	
	General terms	GeM or subsequent rules/policies issued by GeM	
	and conditions	shall be applicable against this enquiry. Kindly confirm	
	on GeM	same is acceptable to you.	
2.	Documents	Kindly confirm that the following documents	
	Checklist:	have been submitted along with your offer:	
		1. Requisite EMD	
		2. Pre-Qualification Requirements	
		3. Quality Requirements & Plan	
		4. Drawings & CBOM	
		5. make in india (Self-certification)	
		6. Integrity pact	
		7. Vendor credentials in NTPC formats	
		(SUB-VENDOR QUESTIONNAIRE &MAIN	
		CONTRACTOR attached)	
		8. Any other document as specified in	
		"Buyers Specific Additional Terms &	
		Conditions in addition to GTC"	

3.	Pre- Qualification Requirements	The Pre-Qualification Requirements are attached. All the bidders should ensure submission of duly-filled and signed with complete details and documents as called for in these requirements.	
4.	Special Instruction of Technical requirement	1. Items to be supplied directly to Patratu Site. DELIVERY TERM: F.O.R. PATRATU SITE Patratu site address: GENERAL MANAGER (PROJECTS), PATRATU STPP (3X800 MW), PATRATU VIDYUT UTPADAN NIGAM LIMITED, PO – PTPS, DIST – RAMGARH, JHARKHAND – 829119. Please confirm.	
		4.All ACC STEAM DUCT are required as per NIT document and specification only. Please confirm.	
5.	Prices	Prices shall remain firm and fixed during entire tender process and execution of the contract. Kindly confirm that Quoted prices on GEM against the GEM bid for each schedule is F.O.R. Patratu site on firm basis & inclusive of all cost components (Packing & Forwarding, Freight, GST, Insurance etc.). Also inform the percentage of GST considered by you in your FOR prices.	
6.	MDCC clause	Material shall be dispatched only after issue of material dispatch clearance certificate (MDCC) by BHEL. All test certificates, applicable TPIA verified documents, Quality Plan and relevant documents are to be sent to BHEL before dispatch of material for issue of MDCC, which will be issued after review of test certificates, applicable TPIA verified documents, Quality Plan and all relevant documents. MDCC will be issued within 07 days of receipt of these documents once found complete in all respects. In case of any delay on account of BHEL in issuing MDCC, delivery shall be extended by no. of days in excess of 7 days taken by BHEL in issuing MDCC and delays shall be dealt on merit basis. This period of 7 days is included in the delivery period. Material is to dispatched within 07 days of receipt of MDCC from BHEL without waiting for PO amendment.	
7.	Quality Requirements	Quality Requirements are attached with this tender document. All the bidders should ensure submission of duly filled and signed the attached QP with complete details and documents as called for in these requirements.	

Delivery Period	possible delivery period in te					
Penalty /ID	LD/Penalty for delayed supplie					
Clause :						
Payment Terms	acceptance of material at si consignee receipt-cum acc					
	Type of Bidder	Payment Terms (Number of Days)				
	Micro & Small Enterprises (MSEs)	45 days				
	Medium Enterprises	60 days				
	Non MSME	90 days				
	documents along with original	MDCC & LR as per				
Quantity Variation	any or all the quotations with reasons thereof. BHEL also res Increase or decrease the tend Vendors should be prepared t reduced Quantity without any Vendor should also be prepar discount in case of Increase in	out assigning any serves the right to ered quantities. o accept order for extra charges. ed for giving Quantity.				
	before starting supplies of iter quantity is reduced, then pays	m. In case ordered ment shall be made				
Bid to RA	Opening of Price bid & RA shall be conducted for only those bidders who qualifies PQR, Quality requirements and whose techno-commercial bid is acceptable to BHEL & customer PVUNL.RA will be conducted as per GeM rules & guidelines.					
Risk Purchase	In case of abnormal delays (beyond the maximum late delivery period as per LD clause) in supplies / defective supplies or non-fulfilment of any other terms and conditions given in Purchase Order, BHEL may cancel the Purchase Order in full or part thereof, and may also make the purchase of such material from elsewhere / alternative source at the risk and cost of the supplier. BHEL will take all reasonable steps to get the material from alternate source at optimum cost. If bidder does not agree to the above Risk Purchase Clause, BHEL reserves the right to reject the offer. In case for compelling reasons BHEL accepts the offer without acceptance of this clause by the bidder					
	Penalty / LD Clause : Payment Terms Quantity Variation	Penalty / LD Clause: Description LD/Penalty for delayed supplie latest General terms and conditions of the date of LR (Lorry receipt) the date of delivery for penalty 100% payment will be mad acceptance of material at sit consignee receipt-cum acc (CRAC) as per the below detail Type of Bidder Micro & Small Enterprises (MSEs)	Penalty / LD Clause: LD/Penalty for delayed supplies shall be as per latest General terms and conditions on GeM. The date of LR (Lorry receipt) would be treated as the date of delivery for penalty purposes. 100% payment will be made after receipt and acceptance of material at site and after issue of consignee receipt-cum acceptance certificate (CRAC) as per the below details: Type of Bidder Payment Terms Non MSME Payment Terms Micro & Small Enterprises 45 days (MSEs) Medium Enterprises 60 days Non MSME Subject to submission of 8 sets of non-discrepant documents along with original MDCC & LR as per terms & conditions of GEM contract. BHEL reserves the right to cancel tender or reject any or all the quotations without assigning any reasons thereof. BHEL also reserves the right to Increase or decrease the tendered quantities. Vendors should be prepared to accept order for reduced Quantity without any extra charges. Vendor should also be prepared for giving discount in case of Increase in Quantity. Vendor has to take dispatch clearance from BHEL before starting supplies of item. In case ordered quantity is reduced, then payment shall be made accordingly, as per decreased quantity. Kindly confirm. Opening of Price bid & RA shall be conducted for only those bidders who qualifies PQR, Qualify requirements and whose techno-commercial bid is acceptable to BHEL & customer PVUNL.RA will be conducted as per GeM rules & guidelines. In case of abnormal delays (beyond the maximum late delivery period as per LD clause) in supplies / defective supplies or non-fulfilment of any other terms and conditions given in Purchase Order, BHEL may cancel the Purchase Order in full or part thereof, and may also make the purchase of such material from elsewhere / alternative source at the risk and cost of the supplier. BHEL will take all reasonable steps to get the material from alternate source at optimum cost. If bidder does not agree to the above Risk Purchase Clause, BHEL reserves the right to reject the offer. In case			

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		extant rules. This will be without prejudice to any	
		other right of BHEL under the contract or under	
		General Law. Kindly confirm.	
14.	Action against Bidders / vendor / supplier / contractor in case of default	In order to protect the commercial interests of BHEL, BHEL shall take action against supplies / contractors by way of suspension of business dealings, who either fail to perform or are in default without any reasonable cause, cause loss of business/ money/ reputation, indulge in malpractices, cheating, bribery, fraud or any other misconduct or formation of cartels so as to influence the bidding process or influence the price etc. Suspension of Business Dealings could be in the form of "Hold" or "Banning" a supplier/ contractor or a bidder and shall be as per "Guidelines for Suspension of Business Dealings with Suppliers/ Contractors" available at BHEL's website https://www.bhel.com/guidelinessuspensionbusiness-dealings-	
	Conflict of	A bidder shall not have conflict of interest with	
15.	Interest	other bidders. Such conflict of interest can lead to anti-competitive practices to the detriment of Procuring Entity's interests. The bidder found to have a conflict of interest shall be disqualified. A bidder may be considered to have a conflict of interest with one or more parties in this bidding process, if: a) they have controlling partner (s) in common; or b) they receive or have received any direct or indirect subsidy/ financial stake from any of them; or c) they have the same legal representative/agent for purposes of this bid; or d) they have relationship with each other, directly or through common third parties, that puts them in a position to have access to information about or influence on the bid of another Bidder, or e) Bidder participates in more than one bid in this bidding process. Participation by a Bidder in more than one Bid will result in the disqualification of all bids in which the parties are involved. However, this does not limit the inclusion of the components/ sub-assembly/ Assemblies from. One bidding manufacturer in more than one bid; or f) In cases of agents quoting in offshore procurements, on behalf of their principal manufacturers, one agent cannot represent two manufacturers or quote on their behalf in a	

		particular tender enquiry. One manufacturer can also authorise only one agent/dealer. There can be only one bid from the following: 1. The principal manufacturer directly or through one Indian agent on his behalf; and 2. Indian/foreign agent on behalf of only one principal, or g) A Bidder or any of its affiliates participated as a consultant in the preparation of the design or technical specifications of the contract that is the subject of the Bid, or h) In case of a holding company having more than one independently manufacturing units, or more than one unit having common business ownership/management, only one unit should quote. Similar restrictions would apply to closely related sister companies. Bidders must proactively declare such sister/ common business/ management units in same/ similar line of business. "	
16.	EMD Applicability	EMD will be applicable as per GEM bid, however EMD is waived in following cases- a. Central/ State – PSUs b. *MSE suppliers are exempted for submission of EMD (Valid Documentary proof against MSE must be submitted along with offer to avail the benefits). c. BHEL-HEEP registered vendors (if applicable) are exempted from submission of EMD. d. Other exemptions on EMD will be as per GeM Terms and conditions. *Benefits of MSE (such as EMD Waiver, Tender fee exemption, Price preference, Payment preference etc.) will be given only to those MSE Vendors who are manufacturers of offered items against the NIT. No MSE benefits shall be provided to Agents/Stockiest/Dealers/Traders etc. for the items offered but not manufactured by themselves.	
17.	In course of evaluation, if more than one bidder happens to occupy L-1 status	In course of evaluation, if more than one bidder happens to occupy L-1 status, effective L-1 will be decided by soliciting discount from respective L-1 bidders. In case more than one bidder happens to occupy the L-1 status even after soliciting discounts, the L-1 bidder shall be decided by a toss/draw of lots, in the presence of respective L-1 bidders or their representatives."	

18.	GUARANTEE CERTIFICATE: -	The vendor shall warrant that the supplied fabricated assemblies comply fully with the drawings and other technical conditions. If the fabrications/items are found defective owing to faulty workmanship/incomplete work within a period of eighteen (18) months from Supply completion date. Supply completion date shall be reckoned from the actual date of last supply made by the vendor (date of LR) for the quantities awarded (in terms of number(s)). During guarantee period, the vendor shall make good of items/replace the same free of cost. Alternatively, the rework/replacement charges may be recovered.	
19.	RECTIFICATION:	Any defect (noticed at SITE) arising out of the fabrication/machining done by the Sub-Contractor, will have to be rectified or items replaced by the sub-contractor within 10 days of intimation of same at their own cost. Otherwise BHEL will be free to take necessary action as deemed fit and consequence/cost of the same will be to subcontractors' account.	

SPECIAL REMARKS FOR BIDDERS:

Following documents are an integral part of this tender enquiry and endorsed copies of these documents (duly signed and stamped on each page, as a token of acceptance) are to be uploaded along with offer on e-procurement portal.

- **1**. Please submit signed & Stamped copy (each page) of duly filled of confirmation column of "Buyers Specific Terms & Conditions" and supporting documents where required.
- **2**.Please submit signed & stamped copy (each page) of PQR documents with proper filled information and related supporting documents as mentioned in PQR.
- **3**. Vendor scope includes complete manufacturing of item as per drawing including all NDT requirements, painting & preseravtion as per drg.
- 4. Vendor scope also includes any mock up of assemblies required in drg
- **5**. Transportation of items as per shipping list/packing list provided by BHEL to Patratu site is also in the scope of vendor.
- **6**. MDCC is required before dispatch of items & MDCC is required for all items.
- 7. Patratu site address is:

General Manager (projects), 3x800 mw Patratu stpp

Patratu vidyut utpadan nigam limited

po-ptps, Dist-Ramgarh, jharkhand-829119.

- 8. Tolerance in total load may be (+/-) 25%
- **9**. Guarantee period will be 18 months from the date of last supply by the vendor.
- **10**. Vendors to confirm, endorse and return back MQP no- PAT/ACC/DUCT U-2 rev00 (attached).
- **11**.Inspection by NTPC / PVUNL and BHEL / BHEL nominated inspection agency as per finally NTPC / PVUNL approved QP.
- **12**.Offers that are found suitable techno-commercially & approved by customer PVUNL will be considered for further process.
- **13**. Notes available in drawing to be fulfilled by the vendor for manufacturing.
- **14**. All items to be manufactured with party material only. No further subcontracting is permissible, without prior approval.
- **15**. Supplier must furnish material test certificates for all the items.
- **16**. Guarantee Certificate will be required.
- 17. Aesthetic appearance shall also be ensured and inspected before delivery to SITE.
- **18**.Cleaning of parts, removal of mill scale from components prior to assembly will be in scope of vendor.
- 19.CHP Clearance may be obtained from NTPC/LLOYD/RITES/NPC at party's end.
- **20**. Final Assembly shall undergo cleaning to ensure that all parts are free from dents, mills, spatters.
- **21**.Customer's seal (if Any on supplied Material) to be transferred.
- **22.**Copies of the relevant certificates to be supplied to the receiving shop.
- **23**.All special tests viz., UT, RT, HYDRAULIC & KEROSENE etc. are to be performed as per drg. requirements.
- 24. Rest all terms and conditions shall be as per general terms and conditions of GeM.

Raw material

Raw material shall be procured from following PVUNL enlisted main steel producers only:

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SAIL, JSW Steel Limited, Jindal Steel & Power, Tata Steel Ltd (for reinforcement steel / TMT bars), RINL (for long products/ rolled sections and Reinforcement steel / TMT bars), Essar Steel India Ltd (for flat products/ Steel plates), Electrosteel Steel Ltd (for Reinforcement steel / TMT bars) and Monnet Ispat and Energy Ltd (for long products/ rolled sections and Reinforcement steel / TMT bars).

In addition to above, the approved sources of plates are:

"SAIL, JSW Steel Limited, Jindal Steel & Power, Tata Steel Ltd, RINL, Essar Steel India Ltd), and Monnet Ispat and Energy Ltd"

Item :ACC Duct Elbow TEE dia.8000, ACC Steam duct, Acc Steam duct Riser, D Liasioning 8000mm-2800mm, Y piece, Blank Plate for ground duct (Partatu: drg: 01709970009-01, 01709970017-01, 01709970022-00, 01709970023-00, 01709970025-00, 11709970121-00, 11709970172-00)

1.00	TECHNICAL REQUIREMENT	Required	Vendor's Offer
1.01	Experience: Vendors should have experience of fabricating (cutting/bending/assembly/welding/pre-fabrication machining) and supplying of atleast 1 no. ACC Duct Elbow TEE dia.8000, ACC Steam duct, Acc Steam duct Riser, D Liasioning 8000mm-2800mm, Y piece, Blank Plate for ground duct or equivalent components in last 7 years from the date of enquiry as per following details: i) Dimensions of job: Diameter=4000 mm and Length= 3000 mm and above. (ii) Weight: 4 Tons and above	Vendor to Comply & submit suitable evidence including technical specifications, drawings etc.	Offici
1.02	Facility: i) Lifting facility and capacity at vendor works should EOT crane 10 Tons and above. ii) Vendor must have levelled bed plate having size: Length/height= 4000mm, Dia./Breadth=8600mm and above to fabricate the job ((Either machined bed plate or bed plate constructed by steel plates is allowed but concrete floor not allowed). iii) Vendor must have rolling/bending facility to bend/roll cylinder of thickness 20mm or above with width 2500mm or above. (iv) Vendor must have suitable WPS/PQR and qualified welders for welding approved by third party and submit documentary evidence with offer. (v) Vendor must have cutting facility to cut plate of thickness 50mm and above.	Vendor to Comply & submit suitable evidence including technical specifications, technical brochure, photographs etc. of the facilities.	
1.03	Vendor to furnish certificate or documentary evidence against clause 01.01 from the customer / company or end user duly confirming that fabricated ACC Duct Elbow TEE dia.8000, ACC Steam duct, Acc Steam duct Riser, D Liasioning 8000mm-2800mm, Y piece, Blank Plate for ground duct or equivalent job was supplied and used for Hydro Pump of turbine/power plant/capital goods/infrastructure application OR Vendor to submit documentary evidence as per clause 1.04.	Vendor to Comply & submit suitable	e
)1.04	Vendor to furnish name of customer/company with complete contact detail and month /year of previous supply along with copy of PO, type of manufacturing facility used for fabrication (assembly/welding/prefabrication machining), supply documents. Payment details(invoice copy and inspection documents of supplied ACC Duct Elbow TEE dia.8000 ACC Steam duct, Acc Steam duct Riser, D Liasioning 8000mm-2800mm	Vendor to Comply & submit suitab	e
01.0	All PQR documents are to be stamped and signed in original by Vendor. In case documents and official stamp is in language other than English, documents and details of official stamp are to be translated in English and duly certified by Government agency/approved agency of	Vendor to Comply & submit suitab documents	le
	Government/Embassy. BHEL reserves the right to verify the information provided by vendor. In case the information provided by vendor is found to be false/ incorrect, their offers shall be rejected. E: PQR is not restrictive	Vendor to agree	

[Ray manages (WT)]

	complete name and								TOUCHO X C LITAGEN TOUCH	CHAGTA	3	74.00	
addre	address of manufacturing	ITEM: FABRICATION OF DUCTS AND	DF DUCTS AI	AND MANIFOLDS QP. No: PAT	OP. No:	PAT/ACC	QP. No: PAT/ACC/DUCT U-2		PACKAGE: EPC(TG/ACC)	PC(TG/AC) ()	2	
works	works of vendor				REV 00,			Page No. 1of1	CONTRACT No: 9585-001	No: 9585-0	01		
		SUB SYSTEM :- AS PER PO	R PO						CONTRACTOR : BHEL HARIDWAR	OR : BHEL !	HARID!	NAR	
S. No.	o. COMPONENTS/OPERATION	CHARACTERISTICS/CHEK	CLASS	TYPE / METHOD OF CHEK	QUANTU	QUANTUM OF CHEK	REFERENCE DOCUMENT	ACCEPTANCE NORMS	FORMAT OF RECORD	F RECORD	AG	AGENCY	REMARKS
1	2	æ	4	5	Σ	C/N	7	8	6	*0	Σ	2 OI	11
⋖	RAW MATERIAL												
		Dimension	Major	Meas.	100%		Approved	Approved	IR 75	,	م ه	> :	
		Mechanical Properties	Major	Lab. Test	1/Heat		Drg./ Iecn. Spec.	Drg./Tech. Spec.	۱ ا	> >		+	
ė	etc.	Internal Flaw	Major	Ldb. Test UT Report	1, neat		ASTM A57	ASTM A578 Level B-S2	UT Report	> >		+	
		(UT on Plate > 40mm Thk)							-				Co-related Mill TC to be submitted
ω.	INSPECTION - IN PROCESS												for review. Refer note 1 and 2.
_ a	Marking Cutting but Drawiting	Completeness	Major	Visual & Measurement	100%				IR		Ь	^	Direct procurement from NTPC
š		Dimension	Major	Measurement	Random				IR		Ь	^	approved sources.
		Rolling Process		Visual & Dimensional	100%		Apporaved Drg.	Apporaved Drg. /	IR		Ь	^	
B.2	Rolling & Fit-up	Edge Preparation	Major	Visual	100%		/ Tech. Spec.	Tech. Spec.	æ		۵	>	
		Fit-up	Major	Visual	100%				≅ 4		۵ ۵	> ;	
		Ulmensions	Major	Weas.	%00T			2	≚ .		٠ ،	+	WDS chall be approved by BHEL 8.
		WPS, PQR, WPQ	Major	Keview	100%		ASIMIE	ASIME Sec. IX	Kecord	>	Д	+	welders qualified by BHEL or BHEL
		Size	Major	Meas.	100%		Approved Drg	Approved Drg. / Tech. Spec.	R	٨	Ь	>	appointed TPIA like BVQI, Lloyds,
		Weld Defects											TUV shall be deployed for
B.3	Welding	77777	Major	RT/UT	10%	10%	ASME Sec VIII Div. 1 Appendix 12	/. 1 Appendix 12	RT/UT Report	٨	Ь	^ ^	welding.
		il butt weid	Major	DPT	100%	10%	ASME Sec VIII Div. 1 Appendix 8	/. 1 Appendix 8	PT Report	>	۵	>	ducts and manifold for site
		ii) Fillet Weld	Major	DPT	10%	10%	ASME Sec VIII Div. 1 Appendix 8	/. 1 Appendix 8	PT Report	٨	Ь	^ ^	erection, 100% DPT will be carried
		iii) Heat Treatment	If Applicable	HEAT Treatment chart	100%	100%	ASME Sec VIII Div. 1 Appendix 8	/. 1 Appendix 8	SR Report	^	Ь	R R	out for even fillet weld and
		Completeness	Major	Visual		10%	Approved Drg. / Tech. Spec.	Fech. Spec.	R	٨	Ь	^ ^	winessed by BHEL
		Dimensions	Major	Meas.		omly	Approved Drg. / Tech. Spec.	Fech. Spec.	IR	٨	Ь	w	
ر	FINAL INSPECTION	Match Marking	Major	Visual	%00T	pa	Approved Drg. / Tech. Spec.	Fech. Spec.	R	>	۵	м м	
		Identification	Major	Visual		lot	Approved Drg. / Tech. Spec.	ech. Spec.	IR	٨	Ь	^	
		Orientation	Major										Large size ducts shall be sent to site in
		Dimensions	Major			10%							parts after rolling and fit-up shall be done at site. Weld edges for L & C
	DUCTS REDUCER, Y-PIECE,			Visual & Measurement	100%	from offered	Approved Dr	Approved Drg. / Tech. Spec.	ĸ	>	۵	× ×	seams shall be prepared at shop
		Match Marking	Major			ot							random 10% witness for trail assembly at shop accordingly. Guide vanes, if
		0											any, shall be dispatched to site in welded condition.
ш	SUEFACE PREP. & PAINTING	Visual & Measurement	Major	Random	100%		Approved Drg. / Tech. Spec.		IR & Paint Report		۵	>	
<u>"</u>	PACKING AND TRANSPORTATION	Visual & Measurement	Major	Random	100%		Approved Drg. /		Packing List		۵	>	Refer to Note 3
	T						Tech. Spec.		0			\dashv	
		LEGEND:- *RECORDS, IDENTIFICATION WITH "TICK"(v) SHALL BE ESSENTIALLY INCLUDED BY SUPPLIER IN	ICATION WITH "I	ICK"(V) SHALL BE ESSENTIAL VSTIB-STIPPLIEP C:- MAIN S	LY INCLUDE	D BY SUPPLIER	N N	Section Bulbell	DOC. NO.:				
MFD.	MFD. SUB SUPPLIER MAIN SUPPLIER	WWITNESS AND V VERIFICATION AS APPROPRIATE, CHP: NTPC SHALL IDENTIFY IN COLUMN "N" AS "W"	ATION AS APPRO	PRIATE, CHP: NTPC SHALL II	DENTIFY IN C	SOLUMN "N" AS	S "W"	NTPC					
•,	SIGNATURE SIGNATURE							FOR NTPC USE	REVIEWED BY	YED BY	APPR	APPROVED BY	APPROVAL SEAL
Note-	Note-1: Rolled sections shall be of grade desiganation E250 Quality A/BR semi killed / killed conforming to IS 2062. All steel plated shall be of grade desiganation E250, Quality BR	esiganation E250 Quality A/BR	semi killed / kill	ed conforming to IS 2062. A	III steel plate	ed shall be of g	rade designation	E250, Quality BR					

(fully killed), conforming to 15 2062 and shall be tested for impact test value at room temperature. Plates beyond 12mm thickness and upto 40mm thickness shall be normalized rolled. Note-1: Rolled sections shall be of grade desiganation £250 Quality A/BR semi killed / killed conforming to IS 2062. All steel plated shall be of grade designation £250, Quality BR

Plates beyond 40mm thickness shall be vacuum degassed furnace normalized and shall also be 100% ultrasonically tested as per ASTM-A578 level B-S2. (FOR MILD STEEL)

Note-2:- Rolled sections shall be of grade designation E350 or higher Quality BO (Fully Killed) conforming to IS 2062. Plates beyond 12mm thickness and upto 40mm thickness shall be normalized rolled. Plates beyond 40mm thickness shall be vacuum degassed furnace normalized and shall also be ultrasonically tested as per ASTM-578 level B-52. (FOR MEDIUM AND HIGH TENSILE STEEL) Note-3:- Proper lockingof circular duct parts shall beensuredin such a way that site weld edgesand circularduct curvature is intact during transportation and handling at site

Note-4:- All material of construction shall be as per NTPC/PVUN approved drawing/ data sheet.

Self-certification

As per Government Public procurement order no. P-45021/2/2017-BE-II dt.15.06.2017 & P-45021/2/2017-PP(BE-II) dated 28.05.2018,29.5.2019 & 04.6.2020, it is hereby certifying that we
(supplier name) are(Class-I/Class-II) local supplier and will meet the requirement of minimum local content of(50%/20%) as defined in public procurement order dated 04.6.2020 for material against Enquiry no.
Details of location at which local value addition will be made is as follows: -
We also understand, 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.

Seal & Signature of Supplier



CORPORATE QUALITY ASSURANCE

MAIN CONTRACTOR'S PROPOSAL CUM EVALUATION REPORT

Ref N	lo:			Date:					
i.	Main Contractor								
ii.	Project								
iii.	Package Name				Package I	No			
iv.	Proposed Item/Scope	of Sub-contracting	ţ.						
v.	Item covered under	Schedule-1		Ası	er contra	ct clause	No-		
		Schedule-2							
vi.	If item is Schedule-1	and proposed sub-	endor is						
	indigenous, Main Cor	ntractor to explain	how the						
	contractual provision	s will be fulfilled							
vii.	Name and Address of	the proposed Sub-	vendor's	works					
viii.	PO placement date/ S	tart of manufactur	ing (if sel	f-manufacture	d) as per L	2 netwo	rk		
ix.	Item Description	Total quar	tity of	Quantity pr	oposed to	Time	line for quanti	ty requir	ements
	(Type/Size/Rating/Sco	ope proposed i	tem	be procur	ed from	as pe	r project sche	dule & v	hether
	of Sub-Contracting)	envisaged	in this	proposed s	ub-vendor	the p	roposed Sub-v	endor eq	uipped
		package (Nos/	(Nos/ Runni	ng Meters	with	adequate cap	acity to	supply
		Running N	leters/	/Kgs /Tons e	tc)	propo	sed order qua	ntity in t	ime
		Kgs/ Tons	etc)						
х.	Supply experience of	f the proposed su	b-vendor	(including su	pplies to I	Main Co	ontractor, if a	ny) for	similar
	item/scope of sub-con	tracting, for last 3	years (No	te:- Only releve	ant experie	nce detai	ils w.r.t. propo	sed item/s	cope of
	subcontracting to be b	rought out here)							
	Project/Package	Customer Name	Su	pplied	Item P	O ref	Supplied	Date	of
			(T	ype/Rating/Mo	odel n	o/date	Quantity	Supply	
			/Ca	apacity/Size et	c)				
	onfirm that as per our				requisite c	apabiliti	es & supply e	xperience	and is
suital Name	ble for supplying the p	roposed item/scope	of sub-co Desig:	ntracting.	C	ign:		Date:	
1 141110	•		Desig.		S.	8		Date.	

Company's Seal/Stamp:-

Format No. : QS-01-QAI-P-04/F1-R3 1/1 Engg. div./QA&I



CORPORATE QUALITY ASSURANCE SUB-VENDOR QUESTIONNAIRE

i.	Item/Scope of Sub-contracting			
ii.	Address of the registered office	Details of Contact Person		
		(Name, Designation, Mobile, Email)		
iii.	Name and Address of the proposed Sub-vendor's works	Details of Contact Person:		
	where item is being manufactured	(Name, Designation, Mobile, Email)		
	-			
iv.	Annual Production Capacity for proposed item/scope	of		
	sub-contracting			
v.	Annual production for last 3 years for proposed item/sco	pe		
	of sub-contracting			
vi.	Details of proposed works			
1.	Year of establishment of present works			
2.	Year of commencement of manufacturing at above work	XS .		
3.	Details of change in Works address in past (if any)			
4.	Total Area			
	Covered Area			
5.	Factory Registration Certificate	Details attached at Annexure – F2.1		
6.	Design/ Research & development set-up	Applicable / Not applicable if manufacturing is as		
	(No. of manpower, their qualification, machines & to	ols per Main Contractor/purchaser design)		
	employed etc.)	Details attached at Annexure – F2.2		
		(if applicable)		
7.	Overall organization Chart with Manpower Details	Details attached at Annexure – F2.3		
	(Design/Manufacturing/Quality etc)			
8.	After sales service set up in India, in case of foreign su	b- Applicable / Not applicable		
	vendor			
	(Location, Contact Person, Contact details etc.)	Details attached at Annexure – F2.4		
9.	Manufacturing process execution plan with flow cha	art Details attached at Annexure – F2.5		
	indicating various stages of manufacturing from ra	aw		
	material to finished product including outsourced proce	ss,		
	if any			
10.	Sources of Raw Material/Major Bought Out Item	Details attached at Annexure – F2.6		

Format No. : QS-01-QAI-P-04/F2-R2 1/2 Engg. div./QA&I



CORPORATE QUALITY ASSURANCE SUB-VENDOR QUESTIONNAIRE

11.	Quality Co	ontrol exercised during	receipt of	raw	Details attac	hed at Annexure -	- F2.7		
	material/BO	I, in-process , Final Testing	, packing						
12.	Manufactur	ing facilities			Details attac	hed at Annexure -	- F2.8		
	(List of machi	nes, special process facilities, m	aterial handli	ng etc.)					
13.	Testing facil	ities			Details attached at Annexure – F2.9				
	(List of testi	ng equipment)							
14.	If manufacti	uring process involves fabric	cation then-	Applicable /	Not applicable				
	List of quali	fied Welders			Details attac	hed at Annexure -	- F2.10		
	List of quali	fied NDT personnel with ar	ea of speciali	zation	(if applicable	e)			
15.	List of out-	sourced manufacturing pi	rocesses with	Sub-	Applicable /	Not applicable			
	Vendors' na	mes & addresses							
					Details attac	hed at Annexure.	-F2.11		
					(if applicable	e)			
16.	Supply reference list including recent supplies				Details attached at Annexure – F2.12				
					(as per format given below)				
Project		Supplied Item (Type/Rating/Mode	·l	PO ref	no/date	Supplied Quantity	Date of Supply		
packag	ge Name	/Capacity/Size etc)							
17.	Product	satisfactory performa	ance fee	dback	Attached at	annexure - F2.13			
	letter/certifi	cates/End User Feedback							
18.	Summary of	f Type Test Report (Type T	est Details, I	Report	Applicable / Not applicable				
	No, Agency,	Date of testing) for the prop	posed produc	et					
	(similar or h	igher rating)			Details attached at Annexure – F2.14				
	Note:- Repo	rts need not to be submitted	l		(if applicable)				
19.	Statutory /	mandatory certification	for the pro	posed	Applicable / Not applicable				
	product								
					Details attac	hed at Annexure -	- F2.15		
					(if applicable)				
20.	Copy of ISO	9001 certificate			Attached at Annexure – F2.16				
	(if available))							
21.	Product te	chnical catalogues for p	roposed ite	m (if	Details attac	hed at Annexure -	- F2.17		
	available)								
I									
Name	e:		Desig:		Sign	1:	Date:		
Comp	any's Seal/Sta	mn:-	1			<u> </u>	<u> </u>		

Company's Seal/Stamp:-

Format No. : QS-01-QAI-P-04/F2-R2 2/2 Engg. div./QA&I



Printed On:13.07.2023
Printed By:

CBOM No: 11709970121 CBOM Var: 00 Revno:

Description: BLANK PLATE FOR GROUND DUCT

Rev Date:
Total weight:

0

25.02.2023 12580.0

CBOM. 11/109910121

	E	NGG	V	TX
	Initial	Date	Initial	Date
Worked By	hxesan	08.12.2022	bk2gau	14.02.2023
Checked By	hxeaxk	27.01.2023	bk2rd	14.02.2023
Approved By	hxenp	25.02.2023	wtxskg	14.02.2023



Revno:

Printed On:13.07.2023
Printed By:

CBOM No: 11709970121 CBOM Var: 00

Description: BLANK PLATE FOR GROUND DUCT

Total weight:

Rev Date:

25.02.2023 12580.0

Item No	Drawingno Var Mvar	Mat Code	Mat Spec	Weight	Blank Sizes	Nos	Qty	Norm/pc	Extra Norm	Total Norm
Qty(Total)	Description		Assy. Remarks	Inclusion?	Mat Shape		Rei	marks		
Typ Cat Zone	Var/Matl. Description		ENGG SIZE/GRP	•	Route				Spare Code	Uni
0	11709970121 00			12580.0						
1(1)	BLANK PLATE FOR GROU	ND DUCT		Y						
MF CD			Y		SITE					
1	21709970137 00			5702.0						
1(1)	BLANK PLATE-1			Y						
MF CD			N	5815.0	0306-0314-000D					
1-1		AA1011819104	AA10119	2065.0	2380.0X8050.0	1	1	2211.0	0.0	2211.0
1(1)	PLATE			Y	PL 14					
MF DR	STRUCTURAL STEEL W	ELDABLE		1	0072-0301-0306					KC
1-2		AA1011819104	AA10119	599.0	710.0X7875.0	1	1	645.2	0.0	645.2
1(1)	PLATE			Y	PL 14					
MF DR	STRUCTURAL STEEL W	ELDABLE		I	0072-0301-0306					KC
1-3		AA1011819104	AA10119	175.0	500.0X3476.0	1	2	200.6	0.0	401.2
2(2)	SHELL PLATE		L=500X3176	Y	PL 14		BE	NDING ALLOW	NACE INCLUDED	
MF DR	STRUCTURAL STEEL W	ELDABLE		I	0072-0301-0306					KC
1-4		AA1041801114	AA10401	46.7	400.0X928.0	1	32	49.0	0.0	1568.0
32(32)	STIFFENER		L=400X928	Y	PL 16					
MF DR	ST-2-N-PLATE			I	0072-0301-0306					KC
1-5		AA1041801114	AA10401	389.0	400.0X7740.0	1	2	408.3	0.0	816.6
2(2)	STIFFENER		L=400X7740	Y	PL 16					
MF DR	ST-2-N-PLATE			I	0072-0301-0306					KC
1-6		AA1041801114	AA10401	400.5	400.0X7970.0	1	1	420.4	0.0	420.4
1(1)	STIFFENER		L=400X7970	Y	PL 16					
MF DR	ST-2-N-PLATE			l l	0072-0301-0306					KC
1-7	31601270031 00	AA1011819201	AA10119	7.56	150.0X240.0	1	2	13.0	0.0	26.0
2(2)	LIFTING LUG			Y	PL 45					
MF DR				i	0072-0301-0317-0306					KC
2	21709970138 00			3332.0						
2(2)	BLANK PLATE-2			Y						
MF CD			N	3395.0	0306-0314-000D					

	EN	NGG	W	TX
	Initial	Date	Initial	Date
Worked By	hxesan	08.12.2022	bk2gau	14.02.2023
Checked By	hxeaxk	27.01.2023	bk2rd	14.02.2023
Approved By	hxenp	25.02.2023	wtxskg	14.02.2023



Revno:

Printed On:13.07.2023 **Printed By:**

11709970121 CBOM Var: 00 **Description:** BLANK PLATE FOR GROUND DUCT

CBOM No:

Rev Date: Total weight: 25.02.2023 12580.0

Item No	Drawingno Var Mvar	Mat Code	Mat Spec	Weight	Blank Sizes	Nos	Qty	Norm/pc	Extra Norm	Total Norm
Qty(Total)	Description		Assy. Remarks	Inclusion?	Mat Shape		Ren	narks		
Typ Cat Zone	Var/Matl. Description		ENGG SIZE/GRP	Fab Wt	Route				Spare Code	Unit
2-1		AA1011819104	AA10119	1465.0	2480.0X7433.0	1	2	2127.2	0.0	4254.4
1(2)	PLATE			Y	PL 14		MA	KE IN TWO PA	RTS	
MF DR	STRUCTURAL STEEL	WELDABLE		1	0072-0301-0306					KG
2-2		AA1011819104	AA10119	515.0	500.0X9664.0	1	2	557.6	0.0	1115.2
1(2)	SHELL PLATE		L=500X9364	Y	PL 14		MAKE IN TWO PARTS			
MF DR	STRUCTURAL STEEL	WELDABLE		1	0072-0301-0306					KG
2-3		AA1041801114	AA10401	352.2	400.0X7010.0	1	2	369.8	0.0	739.6
1(2)	STIFFENER		L=400X7010	Y	PL 16					
MF DR	ST-2-N-PLATE			I	0072-0301-0306					KG
2-4		AA1041801114	AA10401	280.7	400.0X5588.0	1	2	294.8	0.0	589.6
1(2)	STIFFENER		L=400X5588	Y	PL 16					
MF DR	ST-2-N-PLATE			I	0072-0301-0306					KG
2-5		AA1041801114	AA10401	124.6	400.0X2489.0	1	2	131.3	0.0	262.6
1(2)	STIFFENER		L=400X2489	Y	PL 16					
MF DR	ST-2-N-PLATE			I	0072-0301-0306					KG
2-6		AA1041801114	AA10401	26.8	400.0X534.0	1	4	28.2	0.0	112.8
2(4)	STIFFENER		L=400X534	Y	PL 16					
MF DR	ST-2-N-PLATE			I	0072-0301-0306					KG
2-7		AA1041801114	AA10401	46.7	400.0X928.0	1	16	49.0	0.0	784.0
8(16)	STIFFENER		L=400X928	Y	PL 16					
MF DR	ST-2-N-PLATE			I	0072-0301-0306					KG
2-8		AA1041801114	AA10401	22.2	400.0X442.0	1	4	23.3	0.0	93.2
2(4)	STIFFENER		L=400X442	Y	PL 16					
MF DR	ST-2-N-PLATE			I	0072-0301-0306					KG
2-9		AA1041801114	AA10401	45.5	400.0X905.0	1	4	47.7	0.0	190.8
2(4)	STIFFENER		L=400X905	Y	PL 16					
MF DR	ST-2-N-PLATE			I	0072-0301-0306					KG
2-10		AA1041801114	AA10401	8.6	400.0X172.0	1	4	9.1	0.0	36.4
2(4)	STIFFENER		L=400X172	Y	PL 16					
MF DR	ST-2-N-PLATE			1	0072-0301-0306					KG

	EN	IGG	W	TX
	Initial	Date	Initial	Date
Worked By	hxesan	08.12.2022	bk2gau	14.02.2023
Checked By	hxeaxk	27.01.2023	bk2rd	14.02.2023
Approved By	hxenp	25.02.2023	wtxskg	14.02.2023



Printed On:13.07.2023 **Printed By:**

11709970121 CBOM Var: **CBOM No: Description:** BLANK PLATE FOR GROUND DUCT

Revno:

Rev Date: 25.02.2023 **Total weight:**

12580.0

Item No	Drawingno Var Mvar	Mat Code	Mat Spec	Weight	Blank Sizes	Nos	Qty	Norm/pc	Extra Norm	Total Norm
Qty(Total)	Description		Assy. Remarks	Inclusion?	Mat Shape		Rer	narks		
Typ Cat Zone	Var/Matl. Description		ENGG SIZE/GRP	Fab Wt	Route				Spare Code	Unit
2-11	31601270031 00	AA1011819201	AA10119	7.56	150.0X240.0	1	4	13.0	0.0	52.0
2(4)	LIFTING LUG			Y	PL 45					
MF DR				1	0072-0301-0317-0306					KG

	EN	NGG	V	/TX
	Initial	Date	Initial	Date
Worked By	hxesan	08.12.2022	bk2gau	14.02.2023
Checked By	hxeaxk	27.01.2023	bk2rd	14.02.2023
Approved By	hxenp	25.02.2023	wtxskg	14.02.2023





