



हुगली कोचीन शिपयार्ड लिमिटेड  
(भारत सरकार का उद्यम)  
**HOOGHLY COCHIN SHIPYARD LIMITED**  
(A Govt. of India Enterprise)



वसुधैव कुटुम्बकम्  
ONE EARTH - ONE FAMILY - ONE FUTURE

Tender No: HCSL/PUR/TEN/2024/049

Dated.28.11.2024

### TENDER NOTICE

Competitive tenders are invited on behalf of Hooghly Cochin Shipyard Limited (HCSL) from experienced vendors for the under mentioned work, so as to reach the undersigned on or before the date and time mentioned below. Please refer Scope of Work, General Terms and Conditions and Special Terms attached.

Tender No. & date	HCSL/PUR/TEN/2024/049 Dt. 28.11.2024
Scope of work	Procurement of Seamless Structural Steel Pipe & Elbow For 40T BP ASD Tug at Hooghly Cochin Shipyard Limited, Nazirgunge Unit, Howrah (Detailed specification is enclosed separately).
Type of Tender	Two Bid (Email Tender)
Earnest Money Deposit (Rs.)	Rs. 1,00,000 (Rupees One Lakh only)
Last date & time of receipt of tender	12.12.2024 at 15:00 Hrs.
Date & time of opening of technical bid	12.12.2024 at 15:30 Hrs.
Tenure of contract	Refer Annexure-3, Cl.no. 9
Officer - in - Charge	Name: Saikat Kumar Biswas Designation: Deputy Manager (Materials) Email: saikat.biswas@hooghlycsl.com Phone No: 8250792208  Name: Sreerag .G Designation: Manager (Materials) Email: sreerag.g@hooghlycsl.com Phone No: 9482608957

**Tender to be submitted by Email only. Tender reference should be clearly indicated on the subject of the Mail.**

Tenders should be submitted in two separate files as **PART-I "TECHNO-COMMERCIAL" & PART-II "PRICE" (Password Protected) indicating** the tender number, due date of the tender in the Mail and addressed to The Assistant General Manager (Planning & Procurement), Hooghly Cochin Shipyard Limited, Nazirgunge Unit, Howrah.

Signature and Seal of the Bidder(s)

For Hooghly Cochin Shipyard Limited



Registered Office: Administrative Building, HCSL Premises, Satyen Bose Road,  
P.O. Danesh Shaikh Lane, Nazirgunge, Howrah, West Bengal - 711 109.  
+91 (33)-2688 8282 contact@hooghlycsl.com www.hooghlycsl.com

Shipyard: Nazirgunge Unit, Satyen Bose Road, P.O. Danesh SK Lane,  
P.S. Sankrail, Howrah, West Bengal - 711109  
+91 (33)-2955 8283

CIN : U35900WB2017GOI223197, GSTIN : 19AAECH3640L1ZD

**Tender administration:** Tender procedure/administration/evaluation including correspondences and awarding of contract will be done M/s.Hooghly Cochin Shipyard Limited, Howrah, West Bengal.

Officer - in - Charge for the above work:

Name :Saikat Kumar Biswas  
Designation: Dy. Manager (Materials)  
Email : saikat.biswas@hooghlycsl.com  
Phone No: : +91 8250792208

Name: :Sreerag.G  
Designation: : Manager (Materials)  
Email: : sreerag.g@hooghlycsl.com  
Phone No: : 9916087168

For technical query(Please contact the below person)

Name: :Vijay Singh  
Designation: : Manager (Sub Contract & Commercial)  
Email :vijay.singh@hooghlycsl.com  
Phone No: : +91 8687069271

**For Hooghly Cochin Shipyard Limited**



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For Hooghly Cochin Shipyard Limited



Signature and Seal of the Bidder(s)

## PRE-QUALIFICATION CRITERIA

### Minimum qualification criteria for participating in the tender will be as follows:

i. Successful experience as material supplier in the successful completion of similar material supply of nature and complexity comparable to the proposed material within the last 5 years, ending last day of month previous to one in which applications are invited.

#### Similar Supply means:

Supply of Steel Pipes/ Elbow of ASTM A106 Grade B/ AH 36 or Equivalent Grade Certified for AH 36 with IRS certification for State/Central Govt., Shipyards, MNCs or similar etc. within the last 5 years, ending last day of month previous to one in which applications are invited (Copy of PO along with the delivery challan/Invoice is required).

ii. Audited Balance sheets showing turnover, Profit & Loss account of the firm for the preceding 03 years (2021-22, 2022-23, 2023-24) should be submitted along with the application for prequalification.

iv. The Tenderer should enclose copy of MSME Certificate in relevant field (if applicable), PAN, GST registration certificate, Income tax returns for last three FY (2021-22, 2022-23, 2023-24).

v. Offers from joint ventures/consortium will not be accepted.

vi. Net worth of the bidder must be positive as per the latest balance sheet. (MSME/NSIC will get exemptions)



**SCOPE OF WORK AND TECHNICAL SPECIFICATION**

**(Attached separately)**

1. Purchase Technical Specifications for Seamless Structural Steel Pipe & Elbow (Total No. of Pages: 04)



## PRICE BID FORMAT

A. PIPE (FOR 04 NO. OF SHIPSETS)													
Sl. No.	Pipe Type	Grade	Description	Preferred Length (Meter)	Total Qty (Meter)	Total Qty (Pcs.)	Approx Weight (Kg/m)	Total Weight (MT)	Certification	Unit Price (Rs.)/MT	Total Amount without GST (Rs.)	Total GST Amount (Rs.)	Total Amount including GST (Rs.)
								(A1)		(B1)	[C1=A1XB1]	(D1)	[E1=C+D]
1	Seamless Steel Structural	ASTM A106 Grade B	DN 15, SCH 40, ø21.3 x 2.77 Thk	6	384	64	1.27	0.49	Non-IRS				
2	Seamless Steel Structural	ASTM A106 Grade B	DN 32, SCH 40, ø42.2 x 3.56 Thk	6	480	80	3.40	1.63	Non-IRS				
3	Seamless Steel Structural	ASTM A106 Grade B	DN 100, SCH 40, ø114.3 x 8.56 Thk	6	12	2	22.36	0.27	IRS Certification required				
4	Seamless Steel Structural	ASTM A106 Grade B	DN 150, SCH 80, ø168.3 x 10.97 Thk	6	318	53	42.63	13.56	IRS Certification required				
5	Seamless Steel Structural	ASTM A106 Grade B	DN 200, SCH 80, ø219.1 x 12.70 Thk	6	18	3	64.75	1.17	IRS Certification required				
6	Seamless Steel Structural	ASTM A106 Grade B	DN 250, SCH 120, ø273.1 x 21.44 Thk	6	6	1	133.29	0.80	IRS Certification required				
7	Seamless Steel Structural	ASTM A106 Grade B	DN 250, SCH 80S, ø273.1 x 12.70 Thk	6	24	4	81.69	1.96	IRS Certification required				
8	Seamless Steel Structural	ASTM A106 Grade B	DN 250, SCH XS, ø273.1 x 12.70 Thk	6	18	3	81.69	1.47	IRS Certification required				
9	Seamless Steel Structural	ASTM A106 Grade B	DN 350, SCH 140, ø355.6 x 31.75 Thk	6	6	1	254.00	1.52	IRS Certification required				
10	Seamless Steel Structural	ASTM A106 Grade B	DN 350, SCH 80, ø355.6 x 19.05 Thk	6	6	1	158.38	0.95	IRS Certification required				
11	Seamless Steel Structural	ASTM A106 Grade B	DN 65, SCH 40, ø73 x 5.16 Thk	6	54	9	8.65	0.47	IRS Certification required				

12	Seamless Steel Structural	ASTM A106 Grade B	DN 80, SCH 40, ø88.9 x 5.49 Thk	6	48	8	11.31	0.54	IRS Certification required				
13	Seamless Steel Structural	ASTM A106 Grade B	DN 80, SCH 80, ø88.9 x 7.62 Thk	6	12	2	15.30	0.18	IRS Certification required				
14	Seamless Steel Structural	AH 36 or Equivalent Grade Certified for AH 36	DN 450, SCH 140, ø457.2 x 39.67 Thk	6	24	4	409.16	9.82	IRS Certification required				
<b>15</b>	<b>TOTAL</b>				<b>1410.00</b>	<b>235.00</b>		<b>34.83</b>					

**B. ELBOW (FOR 04 NO. OF SHIPSETS)**

<i>Sl. No.</i>	<i>Elbow Type</i>	<i>Grade</i>	<i>Description</i>	<i>Total Qty (Pcs.)</i>	<i>Approx Weight (Kg/Pc)</i>	<i>Total Weight Approx. (MT)</i>	<i>Certification</i>	<i>Unit Price (Rs.)/MT</i>	<i>Total Amount without GST (Rs.)</i>	<i>Total GST Amount (Rs.)</i>	<i>Total Amount including GST (Rs.)</i>
						<i>(A2)</i>		<i>(B2)</i>	<i>[C2=A2XB2]</i>	<i>(D2)</i>	<i>[E2=C2+D2]</i>
1.	Short Radius-90 Degree	ASTM A106 Grade B	DN 150, SCH 80, ø168.3 x 10.97 Thk (Short Radius Elbow 90 Degree)	8	11.24	0.09	IRS Certification required				
2.	Short Radius-90 Degree	AH 36 or Equivalent	DN 450, SCH 140, ø457.2 x 39.67 Thk (Short Radius Elbow )	8	293.07	2.34	IRS Certification required				
<b>3.</b>	<b>TOTAL</b>			<b>16</b>		<b>2.43</b>					
<b>Total Amount without GST (Rs.) [F=E1+E2]</b>											
<b>Total GST Amount (Rs.) (G)</b>											
<b>Total Amount including GST (Rs.) [H=F+G]</b>											
<b>Total Amount including GST (Rs.)- In Words</b>											

**NOTE:**

1. Bidder has to submit the price bid as mentioned in the format only, otherwise bid will be rejected.
2. Quoted rate should be inclusive of all charges on FOR HCSL stores basis considering entire scope of work & technical specification as per tender.
3. L1 Bidder will be evaluated based on the combined cost of all the items (Pipe & Elbow) excluding GST.
4. Quotation for all line items is mandatory. Partially quoting for few line items shall result in rejection of the bid.
5. Freight Charge, Inspection Charge if any or any other charges should be included in Unit Rate and not to be mentioned as a separate line item.
6. Un priced price bid format (which is an exact replica of the Price bid except that Price is blanked) as per annexure-2 to be submitted along with techno-commercial bid with details like percentage of taxes & duties applicable and stating "Quoted" or "Not Quoted" or "Not Applicable" to be mentioned for each line item.

Seal & Sign. of the Bidder

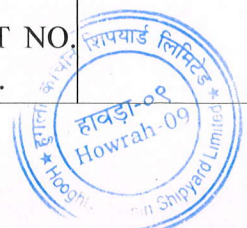


## General Terms &amp; Conditions

SL. NO.	Description	Compliance by Supplier: (YES/NO) In case of non-compliance, please provide remarks.
1.	Tenderers are to carefully go through the terms and conditions and the technical specification of the items for which offers are called for.	
2.	Corrections and additions, if any, must be attested. Incomplete/ambiguous offers are likely to be rejected.	
3.	All applicable taxes, duties, transportation, delivery, etc at HCSL Nazirgunge, should be included in the rate quoted, unless specified otherwise. HCSL reserves the right for the deduction of taxes and duties as applicable from the bill or invoice.	
4.	<b>Tenderers should quote prices for delivery of materials at HCSL store (Address: Hooghly Cochin Shipyard Ltd (HCSL), Satyen Bose Road, Danesh Sk. Lane (PO), Nazirgunge, Howrah, West Bengal, PIN -711109). Insurance for transit shall be arranged by the vendor.</b>	
5.	Bidders to note that no advance payment will be made by HCSL against purchase order issued.	
6.	Bidders can contact Officer-in-charge of the work which is indicated in the Tender Notice for any clarification before submitting the offer. If clarifications/details are not obtained before the offer is submitted, no claim on this account will be admitted.	
7.	Final amount shall be calculated on the basis of accepted quantity by HCSL executing officer/store officer.	
8.	HCSL has the right to withdraw the tender in partial or full during the course of this tender.	
9.	<b>Delivery: 30 Days from the date of issue of PO/LOI.</b>	
10.	Loading, transportation and all sundry expenses etc. shall be at supplier's scope. Material unloading scope at Hooghly Cochin Shipyard Ltd, Nazirgunge Unit is under HCSL Account.	
11.	In case of rejection, the rejected item shall be taken back by the supplier from HCSL site and replace the same with new, without any additional cost. The replacement has to be completed within 5days from the date of intimation.	
12.	<b>Validity:</b> The offer should be valid for a minimum period of <b>60Days</b> from the date of Techno-Commercial Bid opening.	




	No enhancement of rate for whatever cause will be allowed once the offer is accepted and an order is placed. Withdrawal of the quotation after it is accepted or failure to make the supply within the stipulated delivery period will entail cancellation of the order and forfeiture of Security deposit, if any and/or risk purchase.	
13.	Acknowledge the receipt and acceptance of purchase order/Work order by signing and returning a copy of the same within three days of receipt of the same. If the acknowledgement is not received, it will be presumed as accepted.	
14.	Subcontracting is not allowed.	
15.	Manufacturer's name, their trade mark and brand, if any, should invariably be mentioned and illustrative leaflets giving technical particulars etc., should be attached to the offer. (Refer. Technical Specification at Annexure-1)	
16.	Samples are to be supplied free of cost in the event of requirement by HCSL.	
17.	An offer with full scheme shall only be considered for further processing. Incomplete offers may be rejected without prior notice	
18.	All documents submitted against this tender shall be signed and sealed by authorized persons. Otherwise, it may be rejected without prior notice	
19.	The quantities in each item to be purchased may vary according to actual requirement at the time of placing orders	
20.	<p><b>Payment Terms:</b></p> <p>a) 100% within 30 days of receipt and acceptance of materials at HCSL stores after inspection. Payment shall be released against invoice certified by store officer/executing officer and other mandatory documents, as per purchase order and on furnishing the following documents.</p> <ol style="list-style-type: none"> <li>i. GST Invoice in Triplicate.</li> <li>ii. Packing List.</li> <li>iii. MTC countersigned by IRS.</li> <li>iv. Original IRS Certificate (Wherever applicable).</li> </ol> <p>b) Payment shall be made as per actual quantity of supply and at the accepted rates.</p> <p>c) Supplied material to be verified defect free, and to be accepted.</p> <p>d) Payment towards all on account bills shall be normally paid within 30 working days from the date of receipt of error free certified bill by the Officer of HCSL as far as possible.</p> <p>e) To avoid non-acceptance, ensure to indicate P.O.NO, ITEM NO, PART NO. AND VENDOR CODE in the Delivery Challan accompanying the material.</p>	

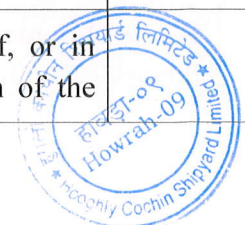


	<p>f) i) The invoice shall be compliant with GST Law. (ii) GST liability is to be discharged and ensure filing of outward supply details on GSTN portal within timeline prescribed. (Covered under GST Terms and Condition at (B) ) (iii) Any debit note/supplementary invoice if any, is to be raised within September month following the respective Financial year or filing of annual return by HCSL, whichever is earlier. (iv) Any loss of tax credit due to the reason attributable to supplier shall be recovered from supplier along with Applicable interest and penalty.</p>	
21.	Materials offered shall confirm to HCSL specification.	
22.	<p><b>Security Deposit/ Warrantee Bank Guarantee:</b></p> <p>a.i) The successful bidder shall remit a security deposit of 3% of the total order value (excluding taxes, duties) in the form of demand draft drawn in favour of Hooghly Cochin Shipyard Ltd towards the satisfactory performance of the contract, if an order is placed on them. Alternatively, a Bank Guarantee equivalent to above % of the total order value (excluding taxes, duties) as per HCSL format from a Scheduled Indian bank is to be submitted, if an order is placed towards satisfactory performance of the contract.</p> <p>a.ii) The Bank Guarantee /DD as above should be initially valid till 90 days after completion of supplies in terms of SD and later revalidated (within the validity of initial BG) to cover the guarantee period mutually agreed plus 90 days. However, in the case of items where WBG is not applicable, the SD shall be valid for item delivery at yard plus 90 days. Fixed Deposit Receipt (for equivalent amount of Security Deposit/WBG required as per tender) in lieu of bank guarantee is also acceptable. Fixed Deposit Receipt shall be in the name of supplier with lien marked in favour of Hooghly Cochin Shipyard Limited, Kolkata.</p> <p><b>a.iii) The above SD/WBG is required or applicable only when the total order value (excluding taxes and duties) is Rs.20lakhs and above.</b></p> <p>b) If the bidder is not agreeable to submission of SD/ warrantee bank guarantee as per HCSL general terms and conditions of enquiry, HCSL reserves the right to reject the offer at their discretion or 3% of total order value (excluding taxes and duties) will be added to the quoted price for tender comparison/ evaluation purpose on case-to-case basis for arriving the lowest bid. However, in cases where total quoted value is less than 20 lakhs, (ie split order etc) and the order value of entire tendered items is more than Rs 20.0 lakhs, the aforesaid loading will be applied on individual items in following cases.</p> <ul style="list-style-type: none"> <li>• The bidder has not quoted for entire tendered quantity</li> <li>• HCSL has technically / commercially rejected a few items in the tender</li> </ul> <p>c) SD to be submitted within 14 Days of receipt of order from yard.</p> <p>d) Format of bank guarantee along with enquiry to be agreed, in general.</p>	



23.	<b>Cost of Tender: NIL</b>	
24.	<p><b>EMD (Earnest Money Deposit):</b> Tenderers shall deposit an amount of <b>Rs. 1,00,000/- (Rupees One Lakh only)</b> as Earnest Money Deposit (EMD) along with the tender.</p> <p>a) The EMD can be remitted in the form of Demand Draft (DD) / Banker's Cheque / Fixed Deposit Receipt (FDR)/ Bank Guarantee drawn in favour of 'Hooghly Cochin Shipyard Ltd. payable at Kolkata and shall be valid for a period of 6 (Six) months from the due date of opening of Techno-commercial Bids from any Nationalized/ Scheduled Bank or paid online through e-gateway of -</p> <p style="text-align: center;"><b>STATE BANK OF INDIA</b>  <b>BRANCH: COCHIN SHIPYARD(03229)</b>  <b>ACCOUNT NUMBER : 00000037354232301</b>  <b>ACCOUNT NAME : HOOGHLY COCHIN SHIPYARD LIMITED</b>  <b>IFSC CODE : SBIN0003229</b></p> <p>b) EMD furnished by all bidders except the lowest bidder will be released after issuing work order and its acceptance by the bidder to whom the work is awarded.</p> <p>c) EMD of the successful bidder will be refunded after remittance of the security deposit or execution of the contract in the case SD is not applicable.</p> <p>d) EMD deposited with the Client will be forfeited,</p> <p>i) if a bidder withdraws or modifies his bid during the period of validity specified or</p> <p>ii) if the successful bidder fails within the time limit to sign the agreement document or fails to furnish the required security deposit.</p> <p>iii) Request for enhancement in the quoted rates or bringing in new conditions after tender opening or unnecessary delayed acceptance of the order / commencement of work / submission of Security Deposit.</p> <p>The relevant documents pertaining to the EMD should be submitted along with the Techno-commercial offer. <b>TENDERS RECEIVED WITHOUT EMD WILL NOT BE CONSIDERED AT ALL FOR FURTHER EVALUATION.</b></p>	
25.	<b>Force Majeure condition:</b> - Should failure in performance of the contract or part thereof arise from war insurrection, restraint imposed by Government, Act of	

	<p>Legislature or other Statutory Authority or illegal strike, riot, legal lock out, flood, fire, explosion, act of God or any inevitable or unforeseen event beyond human control which may be construed as reasonable ground for an extension of time, HCSL may allow such additional time as is mutually agreed, to be justified by the circumstances of the case. The occurrence/ cessation of force majeure situation is to be informed with documentary evidence within 15 days from the date of occurrence/cessation.</p>	
26.	<p><b>Liquidated Damage:</b> In case of delay in supply of ordered materials beyond the stipulated delivery period, which is not attributable to HCSL, supplier is to pay Liquidated Damages (and not by way of penalty) a sum equivalent to ½% (half percent) per week or part of the week of the total basic price of materials delayed subject to a maximum of 10% of the total basic price of the materials (Total basic price is the order value excluding freight, taxes, other charges etc.). Further GST will be applicable upon LD and the same also will be deducted along with LD. However, LD applicability is without prejudice to HCSL right to terminate contract for delayed delivery or other actions as per Risk Purchase clause.</p>	
27.	<p><b>Risk Purchase:</b> If the supplier fails to supply the items ordered in good quality as per contract specification and fails to deliver within the delivery date or violate any of the terms and conditions of the purchase order, HCSL shall have the following rights.</p> <ol style="list-style-type: none"> <li>To cancel the order partially or full with 15 days' notice and to forfeit the security deposit, if any.</li> <li>To impose tender holiday for the vendor for an appropriate period as decided by HCSL.</li> <li>To initiate alternate procurement action at the risk and cost of the supplier.</li> </ol> <p>This Risk Purchase clause is applicable only in the case of total order/contract value (excluding taxes and duties) is Rs.20 lakhs and above (or equivalent foreign currency). Cases of value less than 20 lakhs will be addressed by serving appropriate caution/ warning notice to the firm.</p>	
28.	<p><b>Warranty/ Guarantee: -</b></p> <p>The Items supplied shall be guaranteed for rated performance and against damage or failure due to faulty design, defective materials and bad workmanship for a period of 24 months from date of dispatch of items. Should such damage/ failure occur within the Guarantee period, supplier should immediately rectify the failure by repair/replacement of any such part found to be under performing/ defective, at supplier's own expenses.</p> <p>Further, replaced/repared items shall be guaranteed for 12 months from date of repair/replacement.</p>	
29.	<p><b>Jurisdiction:</b> All questions, disputes or difference arising under, out of, or in connection with contracts shall be subjected to the exclusive jurisdiction of the</p>	



	Courts at Kolkata, India.	
30.	Packing Material should be eco-friendly.	
31.	Supplier should follow the statutory requirements of products offered.	
32.	After submission of tender, no unsolicited correspondence will be entertained	
33.	Hooghly Cochin Shipyard Limited does not bind itself to accept the lowest or any tender but reserves to itself the right to reject any or all or a part of any tender at its discretion.	
34.	In any case of the above conditions is not acceptable to the tenderer, it should be specifically indicated in the tender failing which it will be presumed that all the terms and conditions are acceptable.	
35.	In a tender, either the Indian Agent on behalf of the Principal/OEM or Principal/OEM itself can bid but both cannot bid simultaneously for the same item/product in the same tender.	

**Specify Yes / No in the compliance column with remarks, if applicable**



**Tender conditions for Restriction of bidders sharing land border with India vide Office memorandum dt 23.7.2020 Order Public Procurement no 1 dt 23.7.2020, Order no 2 dt 23.7.2020, Order no 3 dt 24.7.2020 and amendments issued by GOI time to time.**

<b>A</b>	<b>Requirement of registration</b>
1	Any bidder from a country which shares a land border with India will be eligible to bid in this tender only if the bidder is registered with competent authority as per C below. In works contracts, including turnkey contracts, contractors shall not be allowed to subcontract works to any contractor from a country which shares a land border with India unless such contractor is registered with Competent authority. Relevant certificate to be submitted by bidder from a country which shares land border with India except for bidders to which Govt of India has extended lines of Credit or in which Govt of India has development projects, along with the offer as proof of registration with competent authority, failing which the offer will not be considered. A certificate is to be submitted by the bidder for compliance with the order referred above along with tender documents for consideration of offer (Wordings are as per Clause below). If such certificate given by a bidder whose bid is accepted is found to be false, this would be a ground for immediate termination and further legal action in accordance with law.
2	<b>Wordings of certificate to be submitted along with tender documents</b>
	I have read the clause regarding restrictions on procurement from a bidder of a country which shares a land border with India. I hereby certify that this bidder is not from such a country or, if from such a country, has been registered with the competent authority. I hereby certify that this bidder fulfils all requirements in this regard and is eligible to be considered. (Evidence of valid registration by the competent authority shall be attached wherever applicable)
2	<b>Wordings of certificate to be submitted along with tender documents for Works Involving possibility of subcontracting</b>
	I have read the clause regarding restrictions on procurement from a bidder of a Country which shares a land border with India and on subcontracting to contractors from such countries. I certify that this bidder is not from such a country or if from such a country has been registered with the competent authority and will not sub contract any work to a contractor from such countries unless such contractor is registered with the competent authority. I hereby certify that this bidder fulfils all requirements in this regard and is eligible to be considered (Evidence of valid registration by the competent authority shall be attached wherever applicable)
<b>B</b>	<b>Validity of registration</b>
1	Registration should be valid at the time of submission of bids and at the time of Acceptance of bids. In respect of supply otherwise than by tender, registration should be valid at the time of placement of order. If the bidder is validly registered at the time of acceptance /order placement, registration shall not be a relevant consideration during contract execution.
<b>C</b>	<b>Competent authority and Procedure for registration</b>



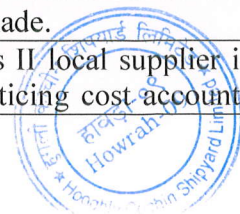
1	The competent authority for the purpose of registration under the order shall be Registration committee constituted by the Department of Promotion of Industry and Internal Trade (DPIIT). Details of the committee and procedure for registration and restrictions shall be as per Ann I of the Order – Public Procurement no 1 dt 23.7.2020 issued by Ministry of Finance, department of Expenditure.
<b>D</b>	<b>Definition of Bidder and Bidder from a country sharing land border with India</b>
1	Bidder is defined as any person or firm or company including any, member of a consortium or joint venture, every artificial, juridical person not falling in any of the descriptions of bidders stated here in before, including any agency, branch or office controlled by such person, participating in a procurement process.
2	"Bidder from a country which shares a land border with India "for the purpose of this Order means: – a) An entity incorporated, established or registered in such a country; or b) A subsidiary of an entity incorporated, established or registered in such a country; or c) An entity substantially controlled through entities incorporated, established or registered in such a country; or d) An entity whose beneficial owner is situated in such a country; or e) An Indian (or other) agent of such an entity; or f) A natural person who is a citizen of such a country; or g) A constitution or joint venture where any member of the consortium or joint venture falls under any of the above.
3	<b>Type of business entity</b> (Private Limited Company / Public Limited Company / Sole Proprietorship / One Person Company / Partnership / Limited Liability Partnership / Joint Venture / Trust/ NGO) In case of incorporated entity–to attach certificate of incorporation
	<b>Beneficial Owners</b> –as defined in the Department of Expenditure Order (Public Procurement No.1) issued vide No. F.No.6/18/2019–PPD dated 23 <sup>rd</sup> July, 2020.Details of all beneficial owners having entitlement of more than 01% of shares or Capital or profit to be given, in the format as given in Annexure–I duly certified by Practicing Chartered Account in India.





### Tender condition- Preference to Make in India

A	Purchase preference in accordance with Public procurement (Preference to Make in India Order – 2017) Order from Department of Promotion of Industry and Internal Trade P-45021/2/2017/-B.E-IIdt,4.6.2020 and as amended from time to time shall be applicable as per below
1	In the procurement of all goods/services/works in respect of which there is sufficient local capacity /local competition, only Class I Local suppliers shall be eligible to bid irrespective of purchase value
2	In the procurement of all goods/services /works which are not covered as above and with estimated value of purchase less than Rs 200.0 Crores, only Class I local Suppliers along with Class II local suppliers shall be eligible to bid.
<b>Purchase preferences for Class I local suppliers</b>	
B	<del>In the procurement of goods/works covered under 2 above and which are divisible in nature, Class I local supplier shall be eligible for Purchase preference over Class II / Non local supplier as per following</del>
1	<del>If L1 bid is not a Class I local supplier, 50% of the order quantity shall be awarded to L1. Thereafter the lowest bidder among Class I local supplier will be invited to match the L1 price for the remaining 50% quantity subject to Class I local supplier quoted price falling within 20% margin. Contract for that quantity shall be awarded to such Class I local supplier subject to matching L1 price. In case such lowest eligible Class I local supplier fails to match L1 price or accept less than offered quantity, next higher Class I local supplier within 20% margin shall be invited to match the L1 price for the remaining qty and so on. If some quantity is left uncovered on Class I local supplier, such balance quantity shall be ordered on L1bidder.</del>
2	For procurements that are not divisible in nature and in procurement of services evaluated on price alone, Class I local supplier shall get purchase preference over Class II/Non local supplier as per below
3	If L1 is not a Class I local supplier, lowest bidder among Class I local supplier will be invited to match L1 price subject to Class I local supplier quoted price falling within 20% of L1 price and contract will be awarded to such Class I local supplier, subject to matching L1 price. In case such lowest eligible Class I local supplier fails to match L1 price, procedure same as para 3 above will be opted .In case none of Class I local suppliers within 20% margin matches L1 price, contract shall be awarded to L1 bidder. The purchase preference as above will be only for Class I local supplier and Class II local supplier will not be eligible for any Purchase preference
C	Local content requirement to categories a supplier as Class I/Class II/Non local supplier shall be as per below. Definition of local content shall be as per order dt 4.6.2020 i.e amount of value added in India which shall be the total value of the item procured (excluding net domestic indirect taxes) minus the value of import content in the item (including all customs duties) as a proportion of total value in percentage.
1	Class I–Local content equal to or greater than 50%
2	Class II–Local content greater than 20%, less than 50%
3	Non local–Local content less than 20%
<b>D</b>	<b>Declaration of local content</b>
1	Class I local supplier /Class II local supplier at the time of tender shall indicate % of local content and provide self-certification that offered item shall meet the local content requirement for Class I/Class II as applicable including details of locations at which local value addition is made.
	In case of procurement for a value in excess of Rs 10.0 Crores Class I/Class II local supplier is to provide a certificate from statutory auditor/cost auditor(for companies) /practicing cost accountant/



2	Chartered accountant (suppliers other than companies) indicating % of local content
3	Verification of the Certificates issued by the bidder shall be carried out by HCSL on random basis. False declarations will attract actions as stipulated in the order referred, including other actions as permissible by law.
4	Exemption is applicable from provisions of order for purchases with estimated values less than Rs 5.0 lakhs
5	Notwithstanding above, exemptions for meeting local content as per relevant Clause of order dt 4.6.2020 and as amended from time to time shall apply.



**SPECIAL INSTRUCTION TO BIDDER**

**1. MODE OF SUBMISSION OF TENDERS**

Tenders should be submitted in two separate files as **PART-I"TECHNO-COMMERCIAL" & PART-II "PRICE" (Password Protected)** indicating the tender number, due date of the tender in the subject of the Mail and addressed to The Assistant General Manager (Planning & Procurement), Hooghly Cochin Shipyard Limited, Nazirgunge Unit, Howrah.

**2. TECHNO-COMMERCIAL PART SHOULD CONTAIN FOLLOWING DETAILS: -**

- i. Technical Specification (Annexure-1)
- ii. Unquoted Price bid (Annexure-2)
- iii. General Terms and Conditions (Annexure-3)
- iv. Special Instruction to Bidder (Annexure-4)
- v. Techno-Commercial Check List along with requisite documents (Annexure-5)
- vi. Vendor Details (Annexure-6)
- vii. NEFT Mandate Form (Annexure-7)
- viii. Deviation List (Annexure-8), if any.
- ix. Form of bank Guarantee towards EMD (Annexure-9).
- x. Form of bank Guarantee towards SD (Annexure-10).
- xi. Self-declaration by bidder (Annexure-11)
- xii. Declaration of Pending legal cases (Annexure-12)

**3. PRICE PART SHOULD CONTAIN FOLLOWING DETAILS: -**

- a. Price against item as per Annexure-2.
- b. Taxes & duties as applicable shall be indicated.

**Note:**

- i. Modification or alteration of the price bid format attached is strictly prohibited. Otherwise Bid will be liable for rejection.
- ii. In case Price bid is placed inadvertently in the Techno-Commercial Part or in case Price bid is not password protected, Bid will be straightway rejected.

4. While submitting the bid, bidders are requested to note that the e-mail ID starting with following words may probable be treated as spam, not always necessary-

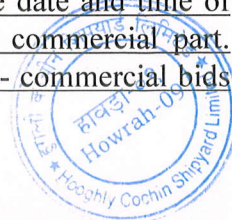
info, support, admin, sales, customer support, helpdesk, mail, mailadmin, billing, hello, careers.

**Bidders are requested to submit the bid by e-mail (Price part password protected) only to both the following email address clearly mention the tender reference in the subject line for easy identification.**

[saikat.biswas@hooghlycsl.com](mailto:saikat.biswas@hooghlycsl.com)

[sreerag.g@hooghlycsl.com](mailto:sreerag.g@hooghlycsl.com)

5. The Techno-commercial part alone will be opened initially on the due date and time of tender. The price part will be opened only after evaluation of the Techno commercial part. Bidders will be intimated the date of opening of the price part, whose techno-commercial bids are acceptable in due course.



6. Deviations, if any, in the offer submitted from that of the tender enquiry in any form, should be clearly furnished in a separate document titled as "List of Deviations", failing which it will be presumed that all the terms and conditions are acceptable.
7. After submission of quotation / price bid opening, no unsolicited correspondence will be entertained.
8. Clarifications, either technical or commercial, should be submitted to points specially asked for only. The opportunity so given should not be used for correcting/changing amending the data/conditions already submitted with the tender.
9. Offers should be clear and unambiguous. Incomplete/ambiguous offers are likely to be rejected.
10. The bidder shall submit a signed & sealed copy of the tender document including Annexures and Enclosures along with their bid as token of acceptance of terms & Conditions.

**For Hooghly Cochin Shipyard Limited**



TECHNO-COMMERCIAL CHECK LIST				
SL. NO.	DESCRIPTION	COMPLIANCE		REMARKS
		YES	NO	
1.	Submission of Tender in two parts –Techno-commercial& Price (Password Protected)			
2.	Delivery date confirmation to yards delivery schedule			
3.	Validity of offer – 60 Days from the date of Techno-Commercial Bid opening.			
4.	Payment Terms - confirm your offered mode of payment			
5.	The Prices offered should remain firm till the completion of delivery, in case the purchase order is placed with you.			
7.	Have you quoted the rates for delivery at Hooghly Cochin Shipyard Ltd (HCSL), Satyen Bose Road, Danesh Sk. Lane (PO), Nazirgunge, Howrah, West Bengal, PIN -711109 (FOR HCSL Store basis)			
8.	Have you considered Taxes, duties, levies, packing & forwarding etc., if any, in the offer?			
9.	L.D. payable as per relevant Clause in the General terms of enquiry.			
10.	Disputes in connection with contract subject to jurisdiction of courts at Kolkata India.			
11.	PAN & GST (Self Attested).			
12.	Termination of contract/Risk purchase as per relevant clause in the General terms of enquiry.			
13.	Supplier Should furnish Manufacturer Test Certificate from competent authority and original IRS approval certificate for line of items (Wherever applicable). [ Refer Technical Specification at Annexure-1]			
14.	Confirm all other terms and conditions of enquiry are acceptable.			

**VENDOR DETAILS (to be submitted along with TECHNICAL BID)**

<b>1</b>	Name of Bidder/Firm	
<b>2</b>	Registered office Address of Company/firm in Kolkata/Howrah: Local office address at Kolkata/Howrah (if held):	
<b>3</b>	Telephone No./Fax No./Mobile No:	
<b>4</b>	E-mail address:	
<b>5</b>	Names of the contact person & Designation:	1) 2) 3)
<b>6</b>	Type of Entity-Pro praetorship/Partnership firm/company/NSIC/MSME Category etc. (Please attach registration certificate of Firm/Partnership agreement/proprietorship documents)	
<b>7</b>	Cost of Tender Details (DD No. Name of Bank)	
<b>8</b>	EMD Details (DD No. Name of Bank)	
<b>9</b>	PAN Card Number (Self-attested copy of PAN card has to be Submitted)	
	GST Registration No. (Self-attested copy has to be Submitted)	
<b>10</b>	Whether the agency has been blacklisted/debarred or given tender holiday or contract terminated before expiry of the contract period by any govt. autonomous bodies/organizations where bidder has provided services earlier due to deficiencies in service or misconduct etc.	Yes/No (Please tick as applicable) If yes, please furnish details on a separate sheet

- **Certified that the above information is true to the best of our belief and information.**

**Place:**

**Date:**

**Signature of Supplier/Authorized signature of firm/agency:**

**Name of Supplier or authorized signatory of firm/agency:**

**Designation:**



We hereby declare that the particulars given above are correct and complete. If the transaction is delayed or lost because of incomplete or incorrect information, we would not hold the company responsible.

(.....  
...)

Signature of Employee

Bank Certificate

We certify that \_\_\_\_\_ has an Account  
No. \_\_\_\_\_ with us and we confirm that the details given above  
are correct as per our records.

Date:

Place:

(.....)  
Authorized official of Bank



COMPLIANCE STATEMENT- List of Deviations		PAGE 1 OF 1
<b>Tender Name:</b> Procurement of Seamless Structural Steel Pipe & Elbow For 40T BP ASD Tug at Hooghly Cochin Shipyard Limited, Nazirgunge Unit, Howrah (Detailed specification is enclosed separately).		
TENDER NO: HCSL/PUR/TEN/2024/049 Dt. 28.11.2024		
We hereby confirm and truly declare that our Offer / Bid No. ....dated .....is in full compliance with the documents issued against the Tender No. -----dated -----, except for the deviations listed below:		
<b>LIST OF DEVIATIONS (HCSL reserves the right to reject offers with deviations)</b>		
Sl. No.	Description / Tender Reference	Reasons for Deviation
Name of tenderer:		
Date:	Name & Designation	Seal & Signature
		(Company Seal)

**Form of bank Guarantee towards EMD**  
(On stamp paper of value Rs. 200/-)

This deed of GURANTEE made on ..... day of .....Two thousand Eighteen between HCSL on the one part and ..... (Name and address of the bank) of the other part is as follows: -

In consideration of the HCSL having allowed M/s..... (Hereinafter referred to as 'the Supplier') to submit Tender No..... to them without Earnest Money according to the conditions of such Tender Notification.

We..... (here enter the name of 'the Bank') a Company incorporated under the .....Act and having its registered office at .....(hereinafter referred to as 'the bank') undertake to pay to HCSL on demand at Kolkata the sum of money payable as Earnest Money in respect of the Tender No.....made by the Supplier, in case the Supplier withdraws the tender before the date of firmness stipulated or when the tender is accepted by or on behalf of the HCSL the Supplier makes default in furnishing the Security Deposit or in entering into an agreement as required by the HCSL or otherwise commits any breach of the terms and conditions of the tender.

We, .....Bank Guarantee to pay the amount due and payable under this guarantee without any demur merely on demand from the HCSL. Any such demand made on the Bank shall be conclusive as regards the amount due and payable by the Bank under this guarantee. The liability of the surety shall be restricted to Rs .....(Rs..... only)

This guarantee shall not be avoided, released or affected by any variation in the terms of the tender, acceptance or the contract between the Contractor and the HCSL or any neglect indulgence or forbearance by the HCSL.

This guarantee shall remain in full force and effect during the period that would be taken for the finalization of the tender and till the HCSL certifies that the terms and conditions of the said tender have been fully and properly carried out by the Supplier and accordingly discharges this guarantee or for Six Months from the date of issue of this guarantee whichever is earlier. A notice of the claim under this guarantee may be served on the Bank within Six Months after the said period in which case the same shall be enforceable against the Bank notwithstanding the fact that the same is enforced after the expiry of the said period.

The decision of the CEO, HCSL as to whether the occasion or the ground has arisen for the demand of the surety form Bank shall be final. The HCSL shall be at liberty to act as though the Bank were the principal debtor.

We, the said Bank lastly undertake not to revoke this guarantee during its currency except with the previous consent of the HCSL in writing and agree that any change in the constitution of the said contractor or the said Bank shall not discharge our liability hereunder.

In witness whereof we have hereunto set our hand and seal this. .... day  
.....of.....Two thousand  
and .....

Place:

Date:

**BANK GUARANTEE IN LIEU OF SECURITY DEPOSIT/  
WARRANTY GUARANTEE**

To  
HOOGHLY COCHIN SHIPYARD LTD  
(Govt. of India Enterprise)  
Satyen Bose Road,  
Danesh SK Lane (PO),  
Nazirgunge, Howrah,  
West Bengal - 711109.

WHEREAS.....(Name & Address of Supplier) (hereinafter called " **the Supplier**") has undertaken, in pursuance of Contract.....No.....Dated:.....to execute .....(Name of Contract and brief description of works) (hereinafter called "**the Contract**").

AND WHEREAS it has been stipulated by **HOOGHLY COCHIN SHIPYARD LTD** (The Buyer – hereinafter called "**HCSL**") in the said contract that the Supplier shall furnish **HCSL** with a Bank Guarantee for the sum specified therein as security for compliance with the Supplier's obligations in accordance with the Contract.

AND WHEREAS we have agreed to give the Supplier such a Bank Guarantee.

NOWTHEREFORE we.....(Name of the Bank) having its Head Office at.....(Address of Head Office) and acting through its branch office at.....(Address of the executing branch)(hereinafter called "the Bank") hereby affirm that we are the Guarantor and responsible to **HCSL**, on behalf of the Supplier upto a total of.....(amount of Guarantee) in words).

We, the bank, hereby irrevocably undertake to pay you any amount not exceeding in total the Guarantee Amount upon receipt by us of your demand in writing accompanied by the following documents:

1. Your signed statement certifying that the Supplier is in breach of his obligation(s) under the Contract and the respect in which the Supplier is in breach.
2. Your signed statement certifying that the Supplier has been given a prior written notice by email from you to make good the aforesaid breach and that the Supplier still failed to fulfill the Contract within 30 days of such notice. A copy of such notice given by email to the Supplier shall be attached to the demand for payment.

Any demand for payment should contain your authorized signatures which must be authorized by your bankers or by a notary public.

We, the Bank, further agree that no change or addition to or other modification of the terms of the Contract or of the Works to be performed there under or of any of the Contract documents which may be made between **HCSL** and the Supplier shall in any way release us from any liability under this guarantee, and we hereby waive notice of any such change, addition or modification. We, the Bank, further agree that any change in the constitution of the said contractor or the said bank shall not discharge our liability hereunder.

**Notwithstanding** anything contained herein:

- 1] Our liability under this Bank Guarantee shall not exceed .....(only).

2. This Bank Guarantee shall be valid upto (date) and

3. We are liable to pay the guaranteed amount or any part thereof under this bank guarantee only and only if HCSL serve upon us a written claim or demand on or before.....(validity date).

Any demand for payment under this guarantee must be received by us at this office during working hours on or before the validity date. Should we receive no claim from you by the validity date, our liability to you will cease and the guarantee will definitely become null and void whether returned to us or not.

Yours truly,

Signature and seal of the guarantor:.....

Name of Bank:.....

Address:.....Date:.....

<sup>[1]</sup>An amount shall be inserted by the Guarantor, representing the percentage of the Contract Price specified in the Contract and denominated in respective Dollars / Indian Rupees/Other Currency.

**Self-Declaration to be given by the bidder in Letter head**

Bid's Reference No. & Date:

Bidder's Name & Address:

Person to be contacted:

Designation:

Telephone No.:

Fax No.:

Email:

1. We do hereby declare that we have not been debarred/black listed by HCSL or by any of the Public Sector Undertaking or Government department etc.
2. If HCSL finds that, we have been blacklisted/ debarred by any of the Public Sector Undertaking or Government department, and then HCSL can reject the offer or terminate the contract at any point of time. In such case, we are aware that, EMD, security deposit, performance guarantee etc will be forfeited by HCSL. Further we are confirming herewith that, any loss that has happened to HCSL due to this will be compensated by us.

For and on behalf of the firm

(Firms Name & Address)

(Signature of Authorized Signatory)

Name:

Designation

Phone No.:

Seal:

Date: .....

Place:.....

*(Sample Format)*

Details of legal cases pending against the firm for the last five years

<b>SL. NO.</b>	<b>ORGANISATION AGAINST WHOM THE LITIGATION IS INVOLVED</b>	<b>BRIEF DETAILS OF DISPUTE</b>	<b>AMOUNTS INVOLVED (Rs. ....)</b>	<b>PRESENT STATUS</b>	<b>Remarks</b>

**SIGNATURE OF BIDDER**

Rev. No.	Pages	Description	Date	Sign.
0	3	FIRST ISSUE	04-10-2024	Rakesh

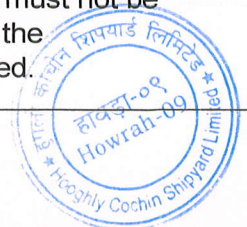


**HOOGHLY COCHIN SHIPYARD LIMITED**

**HOWRAH – 711 109**

YARD NO	01124001,01224002 01324003,01424004	<b>PROJECT: 40 T BOLLARD PULL ASD TUG</b>
OWNER	INDUSTRIAL HANDLING PRIVATE LIMITED	<b>PURCHASE TECHNICAL SPECIFICATIONS FOR SEAMLESS STRUCTURAL STEEL PIPE &amp; ELBOW</b>
APPROVED	RAKESH SAGAR	
CHECKED	RAKESH SAGAR	
PREPARED	A.K. MISHRA	
DATE	04-10-2024	<b>Doc. No.: PTS-01124001 - 29</b>
ISSUED TO	NO. DEP.	
	NO.	

*This document/specification is the property of Hooghly Cochin Shipyard Limited, and it must not be copied or the contents thereof or any information received in conjunction therewith must not be imparted /shared to any third party or utilized for any other purpose. The receipt of the document/specification implies that the conditions as mentioned herein are accepted.*





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3	CONDITIONS OF OFFER	2
4	Annexure – 1	3



## TECHNICAL SPECIFICATION SEAMLESS STRUCTURAL STEEL PIPE & ELBOW

### 1. SCOPE OF SUPPLY

1.1 Supply of Ship building quality Seamless Structural steel pipes confirming to the **ASTM A106 Grade B (Table A: Serial 1 to 13) and Grade AH 36 or equivalent (Table A: Serial 14, Table – B: Serial 2)** with **Third party Certification by IRS** as per the quantity requirement table at Sl. No. 2.

### 2. QUANTITY REQUIREMENT TABLE

As per Annexure 1.

**NOTE: - Quantity indicated is for 04 vessels.**

### 3. CONDITIONS OF OFFER

3.1 Pipes shall be manufactured and tested as per the Grade standard.

3.2 The pipes are to be reasonably straight, have a workmanlike finish and art to be clean and free from such surface and internal defects as can be established by the specified tests.

3.3 Pipes shall be supplied in 6m (-0, + 100mm) length and with plain ends.

3.4 Pipes which are less than 6m to be supplied as single piece only. Tolerance for those pipes (-0, + 250mm)

3.5 Certification of pipe shall be as follows,

Pipes to be provided with Manufacturer's Test Certificate, **countersigned by IRS (Third party inspection)** as mentioned in the Annexure 1. Test records of pipes as per the relevant ASTM standard to be provided.

3.6 Identification Markings are to be legibly stencilled, stamped or rolled on each length of pipe. Each pipe shall be stamped showing the ASTM designation and grade, nominal bore, schedule No. and manufacturing process.

3.7 Original plus 3 copies of material/chemical composition and mechanical test certificate shall be furnished at the time of supply of the item. All documents and markings shall be in English and in metric system.

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**ANNEXURE - 1**

**Table A - Seamless Steel Pipes**

S.No.	Pipe Type	Grade	Description	Preferred Length (m)	Total Qty		Approx Weight (Kg/m)	Total Weight Approx. (MT)	Certification
					(m)	(Pc)			
1	Seamless Steel structural pipe	ASTM A106 Grade B	DN15 SCH40 Ø 21.3 x 2.77 thk.	6	384	64	1.27	0.49	Certification as per Clause No. 3 of the Technical Specification.
2	Seamless Steel structural pipe	ASTM A106 Grade B	DN32 SCH40 Ø 42.2 x 3.56 thk.	6	480	80	3.4	1.63	
3	Seamless Steel structural pipe	ASTM A106 Grade B	DN100-SCH80 Ø 114.3 x 8.56 thk.	6	12	2	22.36	0.27	
4	Seamless Steel structural pipe	ASTM A106 Grade B	DN150 SCH80 Ø 168.3 x 10.97 thk.	6	318	53	42.63	13.56	
5	Seamless Steel structural pipe	ASTM A106 Grade B	DN200 SCH80 Ø 219.1 x 12.7 thk.	6	18	3	64.75	1.17	
6	Seamless Steel structural pipe	ASTM A106 Grade B	DN250 SCH120 Ø 273.1 x 21.44 thk.	6	6	1	133.29	0.80	
7	Seamless Steel structural pipe	ASTM A106 Grade B	DN250 SCH80S Ø 273.1 x 12.7 thk.	6	24	4	81.69	1.96	
8	Seamless Steel structural pipe	ASTM A106 Grade B	DN250 SCHXS Ø 273.1 x 12.7 thk.	6	18	3	81.69	1.47	
9	Seamless Steel structural pipe	ASTM A106 Grade B	DN350 SCH140 Ø 355.6 x 31.75 thk.	6	6	1	254	1.52	
10	Seamless Steel structural pipe	ASTM A106 Grade B	DN350 SCH80 Ø 355.6 x 19.05 thk.	6	6	1	158.38	0.95	
11	Seamless Steel structural pipe	ASTM A106 Grade B	DN65 SCH40 Ø 73 x 5.16 thk.	6	54	9	8.65	0.47	
12	Seamless Steel structural pipe	ASTM A106 Grade B	DN80 SCH40 Ø 88.9 x 5.49 thk.	6	48	8	11.31	0.54	
13	Seamless Steel structural pipe	ASTM A106 Grade B	DN80 SCH80 Ø 88.9 x 7.62 thk.	6	12	2	15.3	0.18	
14	Seamless Steel structural pipe	AH36 or Equivalent Grade Certified for AH36	DN450 SCH140 Ø 457.2 x 39.67 thk.	6	24	4	409.16	9.82	

**Table B - Elbow**

S.No.	Elbow Type	Grade	Description	Total Qty. (Pc)	Approx Weight (Kg/pc.)	Total Weight Approx. (MT)	Certification
2	Short Radius - 90 Deg.	AH36 or Equivalent	DN450 SCH140 Ø 457.2 x 39.67 thk. (Short Radius Elbow)	8 Qty.	293.07	2.34	

