

# ALCOCK ASHDOWN (GUJARAT) LTD.

(A Gujarat Govt. Undertaking)

**(SHIP BUILDERS, SHIP REPAIRERS, ENGINEERS)**

Old Port, Ramsar Works, Bhavnagar 364 001

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Tender closes on: August 20, 2007

Tender No. ALK/PP&C/SV/1151

Date: July 25, 2007

M/s. ....

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## **Subject: Tender for shipbuilding work at Bhavnagar Shipyard, Gujarat (India)**

Dear Sir,

Please submit your lowest tender for the hull fabrication, engineering installation / commissioning of ship's machinery and equipments, turnkey piping [including supply of fittings & valves] work of Survey Vessels on the terms and conditions stipulated here under.

Name of Work	Probable Estimated Value of Tender per vessel	E.M.D.	Completion period	Last date of issue of tender	Last date of submission of tender and date of opening of Technical Bids	Cost of Tender (Rs.)
Construction of 6 Nos. Survey Vessels at Bhavnagar	Rs. 4/- crores each vessel	Rs. 30,00,000/- per vessel	8 months for 1 <sup>st</sup> vessel and subsequent vessel at interval of 3 months each		20/08/2007	Rs. 5,000/-

### 1) **Minimum Eligibility Criteria for Tenderers**

Only those tenderers satisfying following criteria shall be eligible to participate in the tender for the above mentioned works.

- i. Income Tax Clearance or Copy of Income Tax Returns of last 3 years along with Audited Statement of Accounts by a Chartered Accountant.
- ii. Financial & Technical Criteria
  - (a) Having bank solvency certificate of 50% of the estimated tender value.

### 2) **Sale and submission of tender forms**

- a) Eligible contractors may peruse the tender document and obtain the same from the office of AAGL on all working days OR website [www.alcockshipyard.com](http://www.alcockshipyard.com) on payment of non refundable tender fees as mentioned by Demand Draft in favour of Alcock Ashdown (Gujarat) Limited, payable at Bhavnagar, in person or through authorized representative only.

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- b) Eligible contractors may bid for the work either for one or two yards maximum. All work is related to one another and is part of one project. All work will commence in co ordination of each other.
- c) The duly filled Tender Document along with Earnest Money Deposit is to be sent to:  
The Managing Director  
Alcock Ashdown (Guj) Ltd.  
Ramsar Works, Old Port  
Bhavnagar 364 001  
Gujarat (India)
- d) Pre bid queries shall be submitted as specified in tender document.
- e) The completed tender forms will be received in the office of AAGL up to 14:30 hours on the date mentioned in the TENDER NOTICE.
- f) Price bid of only technically qualified bidders shall be opened.
- 3) **Technical Details:** The proposed work is mainly consist of Survey Vessels as per the design / drawings provided by the yard through designer. The work will involve steel construction of the vessels including outfitting, piping and machinery and survey equipments installation works. All equipments, consumables, manpower and tools tackles to be arranged by the bidder.

Principal particulars of the vessel is as under.

Hull length overall	49.8 M
Length between perpendicular	45 M
Breadth Moulded	15.85 M
Draft	2.2 M

4) **Qualification**

The contractors shall have the qualification to construct the above vessel, which shall be judged from the point of view of following factors.

	Marks
1.0 - Experience incl. international exposure	20
2.0 - Financial capability	20
3.0 - Technical & Supervising Man power	10
4.0 - Capability to mobilise equipments	20
5.0 - Build strategy	20
6.0 - Technology Collaboration	<u>10</u>
<b>Total</b>	<b><u>100</u></b>

The bidder must submit sufficient details & documentation on above qualifying factors, otherwise the bid may be disqualified.

- 5) AAGL reserves the right to accept or reject any or all tenders in part or full or to cancel the issue of tender documents without assigning any reason whatsoever.

You are requested to carefully go through this document and send your offer in two separate sealed envelopes super scribed as `Technical Bid' on envelope No. 1 and `Price Bid' on envelope No. 2.

**Technical Bid** should be comprising of:

- a] Copy of the tender documents duly stamped and signed by you on each page as a token of your acceptance for the terms & conditions of subject tender.
- b] Technical details in prescribed format duly filled up by you showing your technical & financial competence, resources and technical back up available with you.
- c] EMD by Demand draft or Pay order of any Nationalized Bank payable at Bhavnagar.

**Price Bid** shall comprise of details of rates quoted by you and duly filled up in prescribed format attached with this tender document.

The price bids of technically qualified bidder will be opened subsequently. AAGL reserves rights for accepting or rejecting any or all bids received without assigning any reason for the same.

The offers should be delivered by speed post/courier or in person on or before closing date and time of the tender by speed post / courier or in person and to be deposited in the sealed tender notice box kept for the purpose.

Thanking you,

Yours faithfully,  
For Alcock Ashdown (Gujarat) Ltd.,

**D. Bir**  
Executive Director

**Encl:** Tender Enquiry with all annexure

Any query related to the requirements of the vessel's technical specification or related to the General Arrangement plan to be resolved in person at our office during all working days.

Tender Closes on Date: 20/8/2007 at 14.30 Hrs.

Tender No.: ALK/PP&C/SV/1151

Validity of the Offer: 60 days from last date

**Tender for construction work for Survey Vessels at Bhavnagar**

1. **SCOPE OF WORK**

A **Hull fabrication including appendages, outfitting**

- i) **Complete Hull Fabrication** including identification of AAGL supplied blasted & primed steel material (CNC cut to the extent possible), forming /bending, proper fitups, welding, stress relieving, erection, corrections if required and final hull assembly including integral foundations of machineries foundations, all appendages incl. appendages for stern gear / rudder assy., sea chests, shaft/bow thruster tunnels, steel fender, Anchor hawse/chain pipes, anchor pockets & hull markings bulwarks, castings, funnel, chequered floor plates racks in stores, inclined ladders etc.
- ii) **Hull Fabrication** to include all external/internal inspections and in process quality check as per quality plans by efficient quality inspection team, capable of also preparing adequate documentation towards the same submission of reports and offering stage wise inspection/surveys to yard/class/statutory authority/owners as applicable and to get inspection / surveys cleared from respective agencies.
- iii) **Hull Fabrication** to include all dry surveys, wet surveys, NDT as per yard & class standards, excluding the fees/expenses for the visit of class surveyors. However contractor to submit the survey plan & obtain approval of yard and classification society.
- iv) **Hull Fabrication** to include fitment of all MS&SS deck and E/R outfit items supplied by AAGL such as but not limited to Manholes, rung, Ladders, access hatches, tank hatches, rails, catwalks, platforms, bottom plugs, loose tanks, Anchor/Chain, Chain stoppers, work table, vice benches, chaffing bars, bollards, deck stand rollers, mooring chocks, water tight and weather tight doors, Storm rails, Windows & Scuttles, masts, stands/brackets for small/portable LSA, FFA & LSS items etc. No additional payment towards fitment of items supplied by AAGL shall be made.
- v) **Hull Fabrication** to include all fabrication and other equipments, tools & tackles, consumables, cranes excluding keel blocks and skids as required for fabrication of panels, sub blocks, sister blocks and complete hull.

In case of the need for construction of additional skids, yard (AAGL) shall provide only material for the skid. The bidder shall make skid at not extra cost.

B. **Engineering installation / commissioning of ship's machineries & equipments**

- i) Fitting out of vessel including fabrication and erection of non integral seating of all machinery (Supplied by AAGL), installation of machinery, alignment, chocking and bolting as per makers, class & yard requirements and commissioning:

- Steering gear (rotary vane type)
- Rudder assembly (high lift type)
- Bow thruster
- Windlass (2 Nos. per vessel)
- Emergency generator
- Accom. Ladder davit & ladder
- RIB with hoisting/lowering Arrangement 2 nos.
- Life Raft & Cradles
- Gemini craft on chocks 3 nos.
- Oily bilge separator
- FW generator
- Sewage plants
- Foam system for machinery space
- Workshop equipments
- International 470 class sailing boats 2 nos.
- Emergency fire pump
- Main engine & accessories
- Stern gear
- Gear box, PTO and hydraulic pump for bow thruster
- Main Generator (2 Nos. per vessel)
- Ship's system pumps
- Air compressor & receivers
- Purifiers
- Co<sub>2</sub> system
- ICCP

- ii) The above work shall be inclusive of any tools & tackles and supply of all fasteners, chocking material (imported chock fast shall be supplied by AAGL as per contractor's indent duly approved by the yard).
- iii) The above work will however not include accommodation, air conditioning / refrigeration, ventilation, electrification & electronics and painting work.
- iv) Following survey equipments shall be installed by the bidder.

C. **Turnkey piping [including supply of fittings and valves]**

- i) Piping shall include galvanizing of black pipes after hot work for applicable systems.
- ii) Piping shall include cleaning, pickling, pressure testing of pipe lines after fabrication/fitment.
- iii) Piping shall include all gaskets, clamps, fasteners & sealants reqd. for installation (excluding SS fasteners for cargo, tank cleaning, cargo vent piping, which shall be supplied by AAGL).
- iv) Pipes, Valves, Flanges, Pads & bends etc. also to be under the scope of vendor.
- v) Detailed specification is attached for the reference indicating project specific requirement of various system piping work which is to be considered under standard scope of work.

2. **PRICE**

Price to be quoted by the bidder should be firm and fixed as per attached price schedules for (A) Hull fabrication including appendages, outfitting (B) Engineering installation / commissioning of ship's machinery and survey equipments (C) Turnkey piping [including supply of fittings and valves] respectively. **The price quoted by the bidder to be inclusive of all taxes, levies, duties etc. as may be applicable.**

3. **PAYMENT**

Payment shall be made solely on the basis of landmark stage completions duly certified by shipyard and designated classification society. The payment of certified bills shall be released within 30 days. TDS as applicable will be deducted from the each payment made to the contractor. 5% retention amount will also be deducted from each running bill, Which may be claimed by the bidder on successful completion of the entire job entrusted to him as per the condition of the work order and should also submit certified work completion certificate. The amount of retention money shall be released after the deduction/settlement of his outstanding or any other dues to the company in the form of L.D. or any other means against the submission of performance Bank Guarantee of the value equal to the 5% of the total contract value valid up to the guarantee period. Under the situation, if the bidder do not fulfill any of his commitment/obligation within the stipulated guarantee period the company [AAGL] shall reserve rights to ask the bidder for extension of the Bank Guarantee or to encash the same at the sole discretion of the company [AAGL].

4. **QUANTUM OF WORK**

The bidder must submit sufficient proof and methodology of their capability to process minimum 100 tons of hull fabrication per month per vessel. However the allotment of the work will be at the discretion of the company [AAGL] based upon the technical competence of the firm and experience and actual monthly progress of production achieved and quality of the work produced by the bidder during month to month basis.

The estimated tonnage of steel work is around 275 t per vessel totaling to 1650 t for two vessels. The work is to be under taken at our Bhavnagar yard. AAGL shall supply blasted and shop primed steel and also CNC cut [to the extend feasible].

5. **SEQUENCE OF PAYMENT**

1. 10% mobilization advance against irrevocable bank guarantee.

**Stage:**

- I. 10% on erection of a hull include equivalent to minimum 75 t of net steel.
- II. 20% on erection of hull modules equivalent to minimum 125 t of hull steel.
- III. 20% on erection of hull modules equivalent to minimum 200 t of net steel.
- IV. 15% on hull completion including all steel outfits, loose tanks integral and non integral machinery foundations.
- V. 15% on tank testing, hull piping & appendages fitment
- VI. 10% on completion of all work under this subcontract

All stage payments shall be payable on rectification of the stage including all welding / fittings and free of any defects, duly documented by AAGL representative and class surveyor.

6. **COMPLETION SCHEDULE**

The selected vendor has to carry out the construction work of vessel parallelly including outfitting as per our plan. A detailed schedule of production targets and dead line for the job completion will be prepared by the company [AAGL] and agreed by the vendor. The same shall be strictly adhered to by the vendor.

7. **PENALTY**

The vendor should strictly adhere to the Schedule of construction. Any deviation from the schedule without proper justification for the delay occurred will attract the penalty. The penalty @ 1% per week of delay shall be levied from the vendor maximum up to 10 % of the total contract value.

8. **GENERAL TERMS & CONDITIONS**

Tonnage shall be calculated on basic thickness as per drawing and at the rate of 7850 Kg/m<sup>3</sup> densities and the net steel weight as derived from the production drawings.

The bidder will be responsible to organize his work, manpower and all the equipments/items/material under his scope in such a way, so as to produce requisite tonnage as per daily and monthly production target given to him.

The bidder will take sufficient precautions for safety and make all necessary arrangements such as staging and scaffolding, climbing ladders, fencing etc. at his cost. Suitable skids, jigs, fixtures as necessary for Fabrication work shall also be fabricated by the bidder. Required material will be supplied by the yard (AAGL).

Company [AAGL] shall reserve the right of any change/modification in the drawing/work during execution of the work.

The vendor will have to strictly adhere to the sequence/method of construction given to him time to time. Any change in above shall be discussed mutually and implemented on agreement. He will give his material requirement with nesting 15 days in advance as per the schedule of job execution. The bidder should also submit the progress report duly specified with the details of deployed manpower and the details of available man power and other facilities under his scope for the next scheduled jobs.

Welding will be as per approved welding scheme by Classification Society. SAW / MIG to be used generally for hull fabrication. SAW shall be used wherever unavoidable. Pug cutting machine to be used for the straight cutting of the steel plates/panels etc. as necessary. AAGL shall supply CNC cut steel to the extent feasible.

The vendor will put all his efforts to minimize the scrap. Undue wastage will attract heavy penalty. Material not returned to the AAGL stores after the job completion shall be charged to the bidder account.

The vendor will exercise due control over his staff & workmen as well as staff & workmen of his subcontractors if any, Company [AAGL] shall have the right (incase any of his staff & workman being incompetent or ill mannered) to ask him to remove such staff/workman from the site which shall be complied by him with immediate effect.

Labour idle charges will not be paid by the company.

The vendor will make his own arrangement for safe, healthy and hygienic arrangements lodging boarding and conveyance of his work force outside the shipyard premises.

In the event of the vendor being unable to execute the work in accordance with the specifications or according to the agreed time schedule or on account of reported breach of any terms of contract by him, the company shall have right to cancel the order after giving an opportunity to him to discuss the matter with the company and subsequently giving him one week notice period of Company's intention to take actions under this clause. In the event of acting under this clause to cancel the order, the company at his discretion shall have the right to get the balance of the work executed at the bidder's risk and cost.

The vendor will be abide by all the work instructions given to him from time to time.

No part of the work shall be subcontracted by the bidder, without prior approval in writing from the company [AAGL]. Any such approval given by the company shall not limit or reduce bidder's responsibility towards the work and all the conditions of the work order. The vendor shall submit the details of his workers/sub contractors before engaging them for the work.

9. **SAFETY**

The vendor will observe all the Rules & regulations connected with the safety of all workers, and civilians of surrounding area. All his workmen or staff will be trained by him from safety point of view. And they shall observe the safety regulations of statutory authority strictly while on work.

10. **INSURANCE**

The vendor will have to comply with the provisions of workman's compensation Act & arrange for employee's liability insurance and any other insurance required under law & regulation. In addition he will cover his tools tackles, equipments, staff and also his subcontractor's staff and workman if any by suitable insurance. He will also cover third party risk under insurance.

The vendor should register his firm with the office of the Labour Commissioner from the respective jurisdiction for getting labour license.

The vendor will have to comply with all the provisions under the various labour laws, which will be applicable to him.

11. **LIMITATION OF CONTRACTOR'S (BIDDER'S) LIABILITIES ON THE COMPANY**

- i) Any consequential or indirect losses.
- ii) Any claim made against the company except as provided in this order
- iii) Any damage/injury from acts or omissions from our employees or agents or others.

The vendor shall abide by all the existing Industrial Laws, Factory Acts, Labour Laws and rules and regulations as applicable from time to time to the firm & persons working for you at our site.

The documentary proof, in the form of challan receipt and returns in respect of all his eligible employees, should be produced for verification as and when asked by the company.

The vendor will be responsible for the Security / Safety of the equipments used by him at site.

12. **HOUSE KEEPING**

The vendor will have to keep work place clean and debris/scrap generated by him to be disposed on the same day at designated place.

13. **INSPECTION**

All fabrication and erection work, piping, out fitting & machinery installation works will be subject to inspection and clearance by on line Quality Control / Classification / Statutory and owner's surveys as may be applicable. Any rejection/rectification should be executed free of cost. Recommendations / instructions given by yard QC / Surveyors / Owner's or his representatives to be attended to immediately by the contractor on line so as to avoid delay later on this account.

14. **DOCUMENTATION**

Contractor's technical staff and work force shall be subjected to approval by MMD / Classification Society / Owner as may be applicable.

The contractor will present welder qualification record or any such document as necessary for other staff & worker along with the work done whenever needed for any of the welder staff.

The contractor will also prepare and maintain daily work progress report, dry survey and tank test report, deviation report etc., NDT reports and survey records.

15. **GUARANTEE**

The complete work shall be guaranteed for the soundness and it's performance for the period of 12 months from the date of delivery of the vessel to the owners. Any defect occurred on account of poor workmanship shall be attended by the Contractor during guarantee period, at the place where the vessel is available for repairs.

**Executive Director**  
Alcock Ashdown [Gujarat] Ltd.  
Old Port  
Bhavnagar

**TECHNICAL PROPOSAL FOR CONSTRUCTION OF  
SURVEY VESSELS – YARD 257 TO 262**

**1.0 PRODUCTION PARAMETERS**

- 1.1 **Project:** Six nos. Survey Vessels under LRS Class & IRS Class  
Class : LRS: +100 A1 SSC SURVEY VESSEL G3 +LMC UMS CEPAC
- 1.2 **Scope of work:** Hull fabrication & outfitting, engineering installation / commissioning of ship's machinery & equipments, and turnkey piping job.
- 1.3 **Shipyard:** Bhavnagar, Gujarat, India
- 1.4 **Targeted output:** 100 t p.m. a/w associated hull piping & outfit engineering jobs.
- 1.5 **Time period:** 8 months from the date of issue of LOI for 1<sup>st</sup> vessel and subsequent vessel at an interval of 3 months
- 1.6 **Schedule (broadly):** As per attached sheet at Annex-I.

**Process of Production:**

Sub assembly – Production welding SAW/MIG – Block assembly – Hull assembly – Piping fitting out / Testing / Surveys, etc.

Note:

- 1. Partial fit outs & piping to be carried out at block assembly stage to reduce the post launching period.
- 2. Complete fitting out except for final alignment may be carried out at hull assembly stage prior launching to take advantage of longer periods for subsequent activities.

Expected Schedule for hull out fitting and hull piping.

<b>Stage</b>	<b>From the date of receipt of steel (To be filled in by the bidder)</b>
2	: _____ months
3	: _____ months
4	: _____ months
5	: _____ months
6	: _____ months

**2.0 EQUIPMENT /MACHINERY**

For processing of steel as per above production flow, the production machinery & consumable to be deployed are tabulated as under:

Sr. No.	Stage of construction	Equipments	Consumables	Confirmation by the bidder
A	Sub Assembly	<ul style="list-style-type: none"> <li>- MMAW equipments with accessories</li> <li>- Welding screens</li> <li>- SAW welding equipments</li> <li>- Cranage</li> <li>- Plate pullers</li> <li>- Wedges, hammers</li> <li>- Disc Grinders</li> <li>- Back gauging rectifiers</li> <li>- Grids</li> </ul>	<ul style="list-style-type: none"> <li>- MMAW electrodes</li> <li>- Co<sub>2</sub> Gas</li> <li>- MIG wire</li> <li>- SAW wire &amp; Flux</li> <li>- Machinery spares</li> <li>- Gauging Electrodes (Copper coated)</li> <li>- Diesel / Electricity</li> <li>- Grinding discs &amp; carbons</li> </ul>	Yes/No *
B	Block Assembly	<ul style="list-style-type: none"> <li>- Staging</li> <li>- Keel blocks</li> <li>- Hydraulic jacks</li> <li>- equipments in "A" except SAW machine.</li> </ul>	As above (except SAW wire and flux)	Yes/No *

\* Delete which ever is not applicable.

The production of 350 tons per month to be achieved by welding as below :

\_\_\_\_\_ % welding by SAW

\_\_\_\_\_ % by MIG

\_\_\_\_\_ % by MMW

**2.1** To achieve the production as stated above following may be required to be deployed.

Sr. No.	Description	Qty.	Bidder may confirm / indicate his proposal
1.	SAW Machine	2 Nos.	
2.	Metal Inert Gas (MIG) welding sets	8 Nos.	
3.	Manual Metal Arc (MMW) welding rectifiers	15 Nos.	
4.	Back gauging rectifiers	3 Nos.	
5.	Pug Cutting machines	6 Nos.	
6.	Profile cutting machine	1 No.	
7.	Pipe bending machine upto 150/200 mm. dia	1 No.	
8.	Compressor 100 CFM/10 bar (Diesel driven)	1 No.	
9.	Pick & Carry crane 11t SWL	2 Nos.	
10.	Crawler / tyre mounted crane of suitable capacity for handling the pre-fabricated assembly into the formation of block.	1 No.	
11.	Hand Gas cutting sets	As required	
12.	Blowers/Fume exactors	As required	
13.	Chain Pulley blocks of 3 t & 5t SWL	5 of each size	
14.	Ratchet blocks 3t to 5t SWL	3 of each size	
15.	Hydraulic Jacks 50 t & 100 t capacity	4 of each size	
16.	Keel blocks & wedge sets (Ship yard Scope)	300 Sets (to be provided by shipyard only)	
17.	Steel angles for fabrication of skids	Provided by shipyard	
18.	Angle grinders	40 Nos.	

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Sr. No.	Description	Qty.	Bidder may confirm / indicate his proposal
19.	Scaffolding/Safety rails	As required	
20.	Hand drills	4 Nos.	
21.	Baking oven	1 No.	
22.	Baking oven portable	15 Nos.	
23.	Lifting slings of suitable capacity	Assorted Nos. & Lengths	

Note: The above list do not include standard accessories for welding/gas cutting equipments, safety items, hand lamps/holders etc. which are to be included in the fabrication charges and shall be in the bidders scope of supply only.

## Man Power

### 3.1 Engineers & Supervisors

No.	Description	Senior Level		Junior Level	
		Expected Requirement	Bidder Proposal	Expected Requirement	Bidder Proposal
1.	Works Manager	One		--	
2.	Planning / Production Engineers	Two		--	
3.	Quality Assurance/Quality Control Engineers	One		One	
4.	Site Supervisors	--		Four	
5.	Markers/Charge hands/ Shipwrights	--		Four	

### 3.2 Workmen

No.	Description	Expected Requirement per vessel	Bidder Proposal
1.	Welders	30	
2.	Fabricators with tack welding / gas cutting capacity	15	
3.	Gas Cutters	10	
4.	Riggers/Helpers	40	
5.	Maintenance staff	2	
6.	Sweeper	1	
7.	Security	2	

No.	Description	Senior Level		Junior Level	
		Expected Requirement	Bidder Proposal	Expected Requirement	Bidder Proposal
1.	Draftsman	One		--	
2.	Store Keeper	One		One	
3.	Time Keeper	--		One	
4.	Accountant / Clerical staff	One		--	

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<b>4.0</b>	<b>Amenities for workers/staff facilitation (to be generated by the bidder)</b>		
<b>4.1</b>	<b>At Site</b>		
	<b>Description</b>	<b>Expected Requirement</b>	<b>Bidder's Agreement / Proposal</b>
	Stores block (containerised)	For Storage of Electrodes Fastners Gasket material Tools, Tackles & Accessories	
	Water storage	3 x 20 t Syntex tanks	
	Emergency Generator	50 KVA capacity	
	Ambulance	One (24 hrs.)	

**Note:** All bidders staff shall be in standard overall, safety shoes helmets & ID badges.

#### **4.2 Staff camp/residences**

This shall be arranged by vendor in Bhavnagar city.

Yes / No.\*

#### **4.3 Vehicles**

Following vehicle facilities shall be arranged by the bidder for the project

- Jeep Nos.
- Ambulance (Already mentioned above) Nos.

#### **4.4 OUTPUT PER MONTH**

<b>No</b>	<b>Description</b>	<b>Required tons per month</b>	<b>Contractors assured tonnage per month</b>	<b>Remarks</b>
1	Minimum assured out put per month (tons)	100 t		

#### **5.0 Quality Management system**

The shipyard shall provide a quality manual for the job which shall be strictly followed by the bidder. Any change in the same deemed to be necessary to be brought to yard's notice in advance prior to implementation.

#### **6.0 Forming of Steel Plates & Structures \***

Following items duly formed and approved by Q.C. Dept/Class are covered under contractors Scope of work yard may assist for fixing agencies for forming of such items if possible.

- Bilge plate
- Bulbous bow
- Nose plate
- Stern frame
- Stern bar
- Corrugated bulkheads
- Bent frames (peak compartments)
- Anchor Hawse pipes & fairing plates

\* Delete whichever is not applicable.

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## 7.0 Consumables

**All the consumables, equipments etc. as listed below shall be arranged by the bidder**

Description	Bidder's Agreement
Welding machines, gauging rectifiers, cutting sets & machines of sufficient quantity & capacity, Welding consumables like welding electrodes, Flux, welding wires/spools, gases, gouging carbons, wire brushes etc.	
Cutting consumables like Oxygen, Acetylene etc.	
Welding Accessories like welding cable, holders helmets, gauging holder etc.	
Cutting Accessories, like cutting hoses, regulators, torches, nozzles, spares etc.	
Fabrication tools like hammers, Bottle screws, Hydraulic jacks, Jim crows wedges etc.	
Rigging items like lifting slings, D Shackles, chain pulley blocks etc.	
Grinding machines including grinding wheels with suitable extension, electrical cables & DBs.	
<u>Drilling machines:</u> Bench drills, Piller drills, Hand drills, Magnetic Drills	
<u>Hoses</u> (in case of pneumatic grinders)	
Cutting machines like pug cutting machines with accessories.	
<u>Spares:</u> For cutting and grinding equipments.	
<u>Piping:</u> Fasteners gaskets, sealants & clamps	
<u>Electrical:</u> Hand lamps, holders, electrical cables (24VDC/230V), Flood light, Towers etc.	
<u>Others:</u> Scaffoldings, Safety rails, Baking ovens, electrode heaters (Portable).	
Your basic quote per ton to be inclusive of all above under your scope. However with a view to expedite progress of work, AAGL may issue tools & tackles to the extent available with the yard, and supply the consumables on chargeable basis.	
<u>Power supply:</u> AAGL shall supply power free of cost however contractor may separately quote for deployment of 2 x 225 KVA D.G. Sets.	

## 8.0 Power Supply

The estimated power requirement is 400 KVA, which shall be provided by shipyard without any interruption.

The contractor to mobilize 2 x 125 KVA DG sets as an additional assignment, if required.

Estimated power requirement per shift is computed as under:

No.	Description	Qty.	Elect. Load	Bidder may specify any change if found necessary		
1.	SAW	2 Nos.	60 KW			
2.	MIG	8 Nos.	60 KW			
3.	MMW	15 Nos.	225 KW			
4.	Other load		55 KW			
		TOTAL	400 KW			

## 9.0 Fresh Water Supply

Drinking water for the labour and staff within yard premises shall be provided by AAGL. Any additional requirements to be fulfilled by the bidder.

## 10.0 Commercial Terms

Largely the terms of payment shall be as under. However details shall be worked out mutually prior commencement of work.

### 10.1 Payment terms

The standard suggested stages for payments are however as below with % of total contractual costs payable as determined mutually.

a)	Hull & Out fits as per the scope of work under this Tender.	As under
b)	Fabrication of machineries seatings and installation of m/c, equipments as per attached list per No.	50% on installation of equipment 50% on commissioning
c)	Fabrication, Welding, installation and testing of piping system on unit rate basis. (Separate rates for each type & size of pipes & pipe fittings).	On rate basis On actual measurement
	<b>Description</b>	<b>Agreement by the Bidder's</b>
	Mobilisation @ 10% against B.G. of Eng. Amount.	
	Stage-I	
	Stage-II	
	Stage-III	
	Stage-IV	
	Stage-V	
	Stage-VI	
	Stage-VII	

### 10.2 Mobilisation period within 10 days of issue of LOI

SIGN AND STAMP OF THE BIDDER

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DATE

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<b>10.3 Rates</b>	<b>Basis</b>
(a) Fabrication rates incl. consumables Tools/tackles and facilitation as stated above Including all outfitting items listed at 1.A-IV)	Per tonne basis
(b) Machinery installation as per Annexure-1B	As per list
(c) Piping work as per Annexure-1C	As per rate sheet
(d) Mobilisation/Rental of all equipments under 2.0 above	Per tonne basis

**Extra / Included**

**10.4 Service Tax**

**10.5 Completion Period: (estimated as 12 months)** \_\_\_\_\_ months

**10.6 Validity** \_\_\_\_\_ days

**10.7 Any other information if deemed necessary to be provided by the bidder**

We have understood the requirement of the project and the tender as well as condition of the site and accordingly submitted our offer. The price bid is separately forwarded in a sealed envelope.

Thanking you,

Yours faithfully,

For M/s. ....