

ALCOCK ASHDOWN (GUJARAT) LTD.

(A Gujarat Govt. Undertaking)

(SHIP BUILDERS, SHIP REPAIRERS, ENGINEERS)

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Section 1: Important dates and information of the tender

Title of the tender: Hull fabrication, erection & installation and commissioning machineries for Six survey vessels for Navy project

Tender Number : AAGL/PP&C/SV/2293 dated 17th January 2008

Last date of submission: 5:00 PM on 28th Jan 2008

Mode of Submission : Speed Post/Register Post/Courier/Hand Delivery

Opening of bids: 11:00 AM on 29th Jan 2008

Tender fees: Rs 1000/-

EMD amount : Rs 15,00,000/- (Rs Fifteen Lakhs)

Section2: General instructions:

- a) Interested parties may obtain the tender document from the official website www.alcockshipyard.com .
- b) Tender fees: Tender fees of Rs 1000/- will have to be deposited in form of DD, BD or any banking instrument along with the tender documents.
- c) The duly filled Tender Document along with Earnest Money Deposit and tender fees is to be sent to:
- The Managing Director
Alcock Ashdown (Guj) Ltd.
Ramsar Works, Old Port
Bhavnagar 364 001
Gujarat (India)
- d) The completed tender forms will be received in the office of AAGL during official hrs i.e. 9:00 AM to 5:00 PM up to 28th Jan 2008.
- e) The bids should be submitted in a sealed cover containing following two envelopes:
1. **Technical bid:**
 1. Technical qualification page along with all the documents mentioned in it.
 2. Copy of the Section 2 to section 6 and list of survey equipments, duly signed and stamped on all the pages.
 3. Tender fees
 4. EMD
 2. **Price bid:** Containing the price bid in the form provided in the tender document. No extra condition other than what already mentioned in the tender documents will be accepted.
- f) Price bid of only technically qualified bidders shall be opened.
- g) The technical bid and price bid should be submitted in two separate sealed envelopes. The technical bid envelope and the price bid envelope should have "Technical Bid" and "Price bid" clearly written respectively on them. These two envelopes should then be put in third envelope and submitted to AAGL after proper sealing.
- h) The bid shall be submitted through speed post/ register post/ courier or hand delivery. The complete liability to ensure that the bid shall reach AAGL in time will be with the bidder. AAGL, under no circumstance will allow any allowance for the delay arising out of postal or courier delivery.
- i) 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.
- j) **Number of Vessels:** The firm quoting L1 rate will be awarded 4 vessels (first, Third, Fourth and sixth). While the firm quoting L2 will be offered 2 vessels (second and fifth) at L1 certified rates. However, if L2 party does not agree to work at L1 rates then the same will be offered to L3 at L1 rates, and if he also does not agree then the remaining two vessels will also be offered to L1. L1 party will have to accept the remaining two vessels at L1 rates. Management reserves right to change sequence as per performance of subcontractor keeping the total number admissible same to the contractor as per above arrangement.
- k) **Mobilisation period:** Within 10 days of issue of LOI
- l) Sub contractor has to accept all terms and conditions unconditionally.

Section 3: Technical details of the work and Scope of Work

1. **Brief Technical Details of the vessel:** 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.
 - a. Type: Catamaran Hull (Twin Hull connected with a cross-bridge structure)
 - b. Purpose of vessels: Hydrographic Survey Vessels
 - c. Inspection Authority : Classification Society (IRS) and Warship Overseeing Team (Bhavnagar) of Navy
 - d. Length : Approximately 50 meters
 - e. Width : Approximately 16 meters
 - f. Steel : DMR 249A
 - g. Location of construction : Bhavnagar
 - h. Approximate weight of Steel : 150 Tonnes per vessel

General Arrangement Plan is attach with this document. It will give the bidder fair amount of idea regarding the work involved.

2. **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 QAP including preparation of adequate documentation for the 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. The contractor to propose the survey plan and submit it to yard.
- iv) **Hull Fabrication** to include fitment of all Main Structure & Super Structure 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, fair leads, 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, skids, cranes excluding keel blocks. The existing skids may be provided to the contractor on mutually agreed chargeable basis.

In case of the additional skids, yard (AAGL) shall provide only material for the skid. The bidder shall make skid at no extra cost.

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

- i) Fitting out of vessel including fabrication and erection of non integral seating of all machinery (Machineries will be supplied by AAGL), installation of machinery, shaft alignment, chocking and bolting as per makers, class & yard requirements and commissioning:
1. Steering gear
 2. Emergency fire pump
 3. Rudder assembly
 4. Main engine (4 nos. per vessel) & accessories
 5. Stern gear
 6. Bow thruster
 7. Gear box, PTO and hydraulic pump for bow thruster
 8. Windlass (2 Nos. per vessel)
 9. Main Generator (2 Nos. per vessel)
 10. Emergency generator
 11. Ship's system pumps
 12. Accom. Ladder davit & ladder
 13. Air compressor & receivers
 14. RIB with hoisting/lowering
 15. Purifiers Arrangement 2 nos.
 16. Life Raft & Cradles
 17. Gemini craft on chocks 3 nos.
 18. Oily bilge separator
 19. FW generator
 20. Sewage plants
 21. Foam system for machinery space
 22. Co₂ system
 23. Workshop equipments
 24. ICCP
 25. International 470 class sailing boats 2 nos.
- 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) etc.
- iii) The above work will however not include accommodation, air conditioning / refrigeration, ventilation, electrification & electronics and painting work.
- iv) Survey equipments shall be installed by the bidder as per the following list. The detail list of the equipments and its suppliers etc. is attached with this document.

Sr. No.	Survey Equipments
1.	Multibeam Echo Sounder
2.	Single Beam Echo Sounder
3.	ADCP

4.	GPS Navigator
5.	DGPS
6.	ADLS
7.	Digital Level
8.	IR Distance Measuring Unit
9.	Portable Current Velocity Meter
10.	Portable CTD System
11.	Digital Image Processing Suite
12.	Waterlevel meters with telemetry
13.	Magnetometer
14.	Bottom Sampler
15.	Remote Operated Vehicle
16.	Sub Bottom Profiler
17.	Autonomous Underwater Vehicle
18.	Digital Side Scan SONAR

4. **QUANTUM OF WORK:** The estimated tonnage of steel work is around 150 t per vessel. 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. **TIME PERIOD FOR COMPLETION OF WORK**

- a. **Hull Fabrication:** The contractor will have to complete the hull fabrication work within 140 days of the specified date for each vessel as mention in the LOI. A detailed schedule for working within the above mentioned time frame will be provided by the yard, which has to be strictly adhered to. Any deviation in the schedule can be done after only dual approval of the yard.
- b. **Machinery/equipment installation:** For the machinery/equipment installation, a detail build schedule will be given which has to be adhered to. The LD clause will be applicable after the finish date specified in the build schedule. Since the dates build schedule will be linked with the actual receipts dates of the equipments no dates are being specified now. However, to give sufficient time to the contractors for this work the minimum time for installation and alignment, after the receipt of various equipments, is being committed as per following list;
 1. Main Engine / Gear Box Installation : 4 weeks
 2. Stern Gear Installation : 4 weeks
 3. Rudder Installation : 2 weeks
 4. Bow Thruster Installation : 2 weeks
 5. DG sets Installation : 2 weeks
 6. All other equipments Installation: 1 week (Maximum)

The selected contractor has to carry out the construction work of vessel parallely 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 contractor. The same shall be strictly adhered to by the contractor.

6. **QUALITY :**The shipyard shall provide a quality manual ie QAP 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. The Quality Assurance Plan (QAP) is attach herewith along with this document. Kindly go through it carefully.

7. **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.

8. **DOCUMENTATION:**

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

Section 4: Financial issues:

1. **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 as specified in the scope of work (Sec 3- para 2), (B) Engineering installation / commissioning of ship's machinery and survey equipments (Sec3 – para 3) respectively. The price quoted by the bidder to be inclusive of all taxes, levies, duties etc. as may be applicable. All the statutory deductions like Income Tax etc. will be deducted and intimated to the contractor.
2. **SECURITY**: Security deposit in the form of BD or DD at the rate Rs 4.00 Lakh per vessel will have to be deposited with AAGL within 10 days of issuance of LOI failing which the contract may be cancelled. The amount submitted as EMD may be adjusted as security deposit and excess amount if any will be returned back within 15 days after the entire process is over.
3. **SEQUENCE OF PAYMENT**
 1. Advance: 10% mobilization advance against irrevocable bank guarantee.
 2. Stage I: 10% on erection of a hull include equivalent to minimum 50 t of net steel.
 3. Stage II: 15% on erection of hull modules equivalent to minimum 100 t of hull steel.
 4. Stage III: 15% on erection of hull modules equivalent to minimum complete net steel.
 5. Stage IV: 15% on hull completion including all steel outfits, loose tanks integral and non integral machinery foundations.
 6. Stage V:15% on tank testing, hull piping & appendages fitment
 7. Stage VI :20% on completion of all work under this subcontract (after submitting 15% BG as performance bond)
4. **PRECONDITIONS FOR PAYMENT**
 - a. Payment shall be made solely on the basis of landmark stage completions duly certified by shipyard. The shipyard may wait for the work inspection from classification society before certifying it.
 - b. 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.
 - c. The payment of certified bills shall be released within 30 days from the date of submission of the certified bills.
 - d. TDS as applicable will be deducted from the each payment made to the contractor.
 - e. 10% retention amount will be deducted from each running bill. This retention money can be claimed by the bidder only after successful completion of the entire job entrusted to him as per the condition of the work order and after submission of certified work completion certificate.
 - f. 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 15% of the total contract value valid up to the guarantee period.
 - g. Under the situation, if the bidders 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].

5. PENALTY

(A) Late completion of hull fabrication : The penalty @ 0.5 % per seven days of delay shall be levied from the contractor of the total contract value. The maximum penalty will be 5% of total contract value.

(B) Late completion of installation : The penalty @ 0.5 % per seven days of delay from the specified dates of build schedule, shall be levied from the contractor of the total contract value. The maximum penalty will be 5% of total contract value.

It is made clear that the penalty for both the activities will be independent of each other hence the maximum over all penalty may go up to 10% of the total contract value. In addition to above, Shipyard reserves right to cancel the contract with the contractor in case the contractor fails to produce output as per the build schedule for four consecutive weeks and the order may be placed to any competent party and the difference in charges will be to the account of the original contractor.

The amount of penalty/difference charges may be deducted /adjusted from the available balance with AAGL including security deposit, bank guarantee, pending payments etc.

6. 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.

7. GENERAL TERMS & CONDITIONS

- a. Ton shall be calculated on basic thickness as per drawing and at the rate of 7850 Kg/m³ densities and the net steel weight as derived from the production drawings.
- b. Company [AAGL] shall reserve the right of any change/modification in the drawing/work during execution of the work.
- c. The contractor 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.
- d. 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.
- e. The contractor 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.
- f. If the contractor at any point of time feels that the numbers of labours or equipments may be reduced, he may reduce it after consultation and written approval of Executive Director but in no case Labour or equipment idle charges will be paid by the company.
- g. In the event of the contractor 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.

- h. The contractor will be abide by all the work instructions given to him from time to time.
- i. 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 contractor shall submit the details of his workers/sub contractors before engaging them for the work.

8. **SAFETY**

- a. The contractor will observe all the Rules & regulations connected with the safety of all workers, and civilians of surrounding area.
- b. 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.
- c. If any personnel from subcontractor side disobeys safety criteria then penalty will be imposed on subcontractor as per the company rules.
- d. In case of accident etc., the contractor will have to bear all the statutory obligations and if he fails to do it, then the yard will incur the same expenditure and charge it on the contractor.
- e. 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).
- f. The contractor 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.
- g. The contractor will make his own arrangement for safe, healthy and hygienic arrangements lodging boarding and conveyance of his work force outside the shipyard premises.
- h. The contractor will have to keep work place clean and debris/scrap generated by him to be disposed on the same day at designated place.

9. **INSURANCE**

- a. The contractor 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.
- b. The contractor will have to bear all the statutory obligations and if he fails to do it, then the yard will incur the same expenditure and charge it on the contractor.
- c. The contractor should register his firm with the office of the Labour Commissioner from the respective jurisdiction for getting labour license.
- d. The contractor will have to comply with all the provisions under the various labour laws, which will be applicable to him.

Section 5: List of equipments , manpower etc that may be needed to execute the work

1. 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
A	Sub Assembly	<ul style="list-style-type: none"> - MMAW equipments with accessories - Welding screens - SAW welding equipments - Cranage - Plate pullers - Wedges, hammers - Disc Grinders - Back gauging rectifiers - Grids 	<ul style="list-style-type: none"> - MMAW electrodes - Co₂ Gas - MIG wire - SAW wire & Flux - Machinery spares - Gauging Electrodes (Copper coated) - Diesel / Electricity - Grinding discs & carbons
B	Block Assembly	<ul style="list-style-type: none"> - Staging - Keel blocks - Hydraulic jacks - equipments in "A" except SAW machine. 	As above (except SAW wire and flux)

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

Sr. No.	Description	Qty.
1.	SMAW 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.	Compressor 100 CFM/10 bar (Diesel driven)	1 No.
8.	Pick & Carry crane 11t SWL	2 Nos.
9.	Crawler / tyre mounted crane of suitable capacity for handling the pre-fabricated assembly into the formation of block.	1 No.
10.	Hand Gas cutting sets	As required
11.	Blowers/Fume exactors	As required
12.	Chain Pulley blocks of 3 t & 5t SWL	5 of each size
13.	Ratchet blocks 3t to 5t SWL	3 of each size
14.	Hydraulic Jacks 50 t & 100 t capacity	4 of each size
15.	Keel blocks & wedge sets (Ship yard Scope)	To be provided by shipyard only

Sr. No.	Description	Qty.
16.	Steel angles for fabrication of skids	Provided by shipyard
17.	Angle grinders	40 Nos.
18.	Scaffolding/Safety rails	As required
19.	Hand drills	4 Nos.
20.	Baking oven	1 No.
21.	Baking oven portable	15 Nos.
22.	Lifting slings of suitable capacity	Assorted Nos. & Lengths
23.	Crane (25T at 20m reach)	1-2 (Depending on the job)

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.

However, if above equipments are available with shipyard then sub contractor will be provided after competitive bidding procedure. The subcontractor quoting maximum rates will be provided all equipments by yard.

3. Man Power

3.1 Engineers & Supervisors

No.	Description	Senior Level	Junior Level
		Expected Requirement	Expected Requirement
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
1.	Welders (Class Approved)	13 (Minimum)
2.	Welders (4G)	7 (Minimum)
3.	Fabricators with tack welding / gas cutting capacity	15
4.	Gas Cutters	10
5.	Riggers/Helpers	40
6.	Maintenance staff	2
7.	Sweeper	1
8.	Security	2

3.3 DMR 249A Qualified Welders :

1. Subcontractor is required to placed specified number ie Class approved – 13 and 4G welders and of qualified welders for each vessels. Within 30 days of issuance of LOI, the contractor will have to ensure the availability of atleast twenty DMR249A qualified welders. **Failing which penal charges of INR 1000/- per day per welder will be imposed and will be deducted from their bills.**
2. If during time of execution, the contractor feels that this much number of welders is not actually needed then he may reduce it after consultation and approval by the yard but in no case cost of idle man-power will be borne by AAGL.
3. Hull subcontractor is required to provide welders' photo identity card issued by subcontractor and certified by both Yard QC and WOT. **If sub contractor fails to show Photo ID card at any time then penalty of INR 1000 per day per person will be imposed on them.**
4. Qualification of welders shall be done at AAGL-Bhavnagar site only at their cost. Items required for welding shall be borne by respective sub-contractor. Approved Welding schedule will be provided by the yard and it has to be followed strictly.

Note: All bidders staff shall be in standard overall, safety shoes helmets & ID badges. Any entry without ID badges, safety shoes and helmets will be prohibited.

3.4 **Staff camp/residences:** This shall be arranged by contractor in Bhavnagar city.

3.5 OUTPUT PER MONTH

No	Description	Required tons per month
1	Minimum assured out put per month (tons)	Approx. 40 tons

3.6 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

3.7 Consumables:

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

Description
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
Hoses (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.

3.8 **Power Supply:**

- 3.8.1 The estimated power requirement is 400 KVA, which shall be provided by shipyard without any interruption.
- 3.8.2 The contractor to mobilize 2 x 100 KVA DG sets as an additional assignment, if required.
- 3.8.3 Estimated power requirement per shift is computed as under:

No.	Description	Qty.	Elect. Load
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

- 3.9 **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.

Section 6: Qualification Criteria

Description	Supporting Documents	Yes/No
Should have constructed steel hull of of two vessels of minimum 500 Tons each of steel weight in last 3 years	Work completion certificate or work order from a shipyard or ship owner for a turnkey contract for such vessels.	
Should have experience of installation of Ship machinery / equipment	Work completion certificate or work order from a shipyard or ship owner for a turnkey contract involving major machineries and equipments including engine, gear box, steering gear and stern gear.	
Should have total turnover of 4 crore in last three financial years.	Audited balance sheets of last three financial years.	
Acceptance of all the conditions fully and unconditionally	Copy of tender Signed and stamped on each page from section 2 to section 6 and the list of survey equipments	
Submission of EMD of 15 Lakh	Submission of FD or DD in favour of AAGL	
Submission of Tender fees of Rs. 1000/-	Submission of DD /BD or any banking instrument	

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

Section 7: Price Bid:

Item	Approximate Quantity	Unit	Quoted Rate in Rs.	Approximate Amount in Rs.
Hull Fabrication [Refer Para 1(A)]	150 tons	Per tons		
Equipment Installation [Refer Para 1(B)]	As per list	Lumpsum		
Total (in Rs.) (Per Vessel)				

Total : (In words)

(Signature and Stamp)

Note :

- a) The quoted price shall be per vessel.
- b) During finalization the total value will be taken as the deciding criteria.
- c) The financial bid should be submitted in this form itself.
- d) No extra conditions other than what already mentioned in the tender document will be accepted and will not be binding on AAGL under any circumstance.
- e) Price to be quoted by the bidder should be firm and fixed as per attached price schedules for (A) Hull fabrication including appendages, outfitting as specified in the scope of supply para 1 (A), (B) Engineering installation / commissioning of ship's machinery and survey equipments respectively.
- f) The price quoted by the bidder to be inclusive of all taxes, levies, duties etc. as may be applicable.
- g) All the statutory deductions like Income Tax etc. will be deducted and intimated to the contractor.

Section 8: List of attached documents/drawings

1. General Arrangement Plan
2. QAP for Hull
3. List of survey equipments

The above files are available in the zipped attachment along with this tender document