

ELECTRICAL RATE CONTRACT FOR DETAIL DESIGN OF POWER & LIGHTING SYSTEMS, SUPPLY OF CABLES & ACCESSORIES, SWITCH BOARDS, D.B'S, J.B'S AND INSTALLATION OF ASSOCIATED EQUIPMENT

1. General:-

This tender is for rate contract for detail design of power systems, supply of cables and cable accessories, switch boards, and other associated items and installation of Electrical Power System equipment on board the vessels at HSL premises. HSL intends to enter rate contract for a period of 3 years.

HSL has categorized the of vessels into two groups as under.

(a) Naval / Coast Guard Vessels

(b) Commercial Vessels.

i) Naval / Coast Guard Vessels :

Further, the above class vessels are further classified as

1) Frigates, 2) Offshore Patrol Vessels, 3) Inshore Patrol Vessels,

4) Anti- Submarine Warfare Vessels, etc.

ii) Commercial Vessels:

Further, the above class vessels are further classified as

a) Bulk Carriers 50 to 75K DWT, b) Bulk Carriers 30 to 50K DWT

c) Bulk carriers 15 to 30K DWT, d) Bulk carriers less than 15K DWT,

e) 50 Ton Bollard Pull Tug, f) Bollard Pull Tug of 30 to 50T,

g) Bollard pull tugs from 20 to 30 Ton and h) Bollard Pull Tugs less than 20 Tons.

iii) Tenderer can suggest any clarifications on categorizations of vessels during Pre-Bid Meeting at HSL.

2. Tenderer has to indicate unit cost, taxes applicable in the enclosed format.

3. As regard to design cost since the volume of work depends on size and category of the vessel, tenderer has to submit separate cost for each category as per Para-1 above. However, for establishment of L1 party, HSL will consider the lump sum cost indicated for design of IPV, OPV and Bulk carrier 30 to 50K DWT will be considered.

4. As mentioned above, basing on the type of vessels the design cost will vary but the unit rate of material supply and installation cost shall be common for all categories of the vessels.

5. HSL requires firm cost for the all events/items mentioned in the enclosed list.

6. As regard to arriving at material cost, the following pattern is proposed.

(a) Cables: Basing on the overall diameter of the cable Unit cost in Mtrs. is to be indicated. However, the type (Power/Control) and cross section shall be as per approved drawing only. Regarding specifications of cables, tenderer has

to discuss with HSL before procurement & installation of the same. The final decision regarding type, cross section of cable used for each equipment will be decided by both HSL and owner

(b) Main Switch Board, Emergency Switch Board:-

Basing on the total capacity of the generators connected to the Main Switch Board the tenderer has to indicate cost per Kilowatt in the tender. Basing on the same total cost will be arrived.

Example:. If the vessel is having 3 Nos. 150 Kilowatt Main generators and 1 No. 25 KW Emergency generator, for manufacturing of main switch board as per the Class approved drawing with required number of outgoing feeders, panels, with switch gear capacity as per the connected load, breaking (rupturing) capacity of switch gear as per class approved short circuit calculations , construction and installation materials as per marine standards and testing and approval shall be obtained from classification society.

since the total power connected to the main switch board is 475 KW [3 x 150 + 25]. The tender has to indicate cost per KW in the format to arrive the total cost of main switch board and emergency switch board. Any clarification on arriving the cost will be discussed and clarified during Pre-Bid meeting

©. Power Distribution Boards: - Basing on the no. of outgoing feeders the firm cost is to be indicated per Ampere of the Incomer.

(d) Lighting Distribution Boards:- Basing on the no. of outgoing feeders the firm cost is to be indicated per Ampere of the Incomer.

(e) Transformers: Basing on KVA the cost is to be indicated.

f) In the list of installation works , the material scope such as copper lugs, hardware shall be tenderer scope only.

7. As far as material specifications are concerned all the electrical equipment shall possess class approved / type approved certificate to use on board the vessel. The final decision regarding specifications, HSL and the owner have the right to decide the same.

8. The cost of design / making drawings includes responsibility to get the approval by the Classification Society and approved drawings are to be submitted to HSL before commencement of work.

9. Tenderer has to bring the required materials and the same are to be stored in a place where HSL has earmarked and HSL does not have any responsibility for the material brought inside the HSL campus.
10. All the materials before installing on board the vessel are to be put for inspection and the same will be inspected by HSL and the Owners Representative and after clearance of the same, the materials are to be used on board the vessel.
11. Tenderer has to maintain proper record regarding the materials brought into the yard and materials used on board the vessel and the materials left in their stores. At any point of time, the same are to be properly tallied.
12. HSL does not have any responsibility regarding the personnel hired / employed by the party for any cause that happens inside the yard and all such issues are to be settled by the party.
13. HSL is herewith enclosing a list of various jobs for preparation of drawings, supply of materials and executing various events and tender has to indicate a firm cost for each unit and after completion of job, tenderer has to get it certified by a competent authority to claim the amount.
14. Any event is said to be completed when the same is cleared by HSL , Class and Owners.
15. HSL has right to consider part or complete scope as indicated basing on the work load and requirement of HSL. Tenderer has no right to indicate that the execution of any event on their own without proper approval.
16. Any clarification regarding the enclosed list or any events which are to be included in the list will be discussed during pre-bid meeting, the same will be included and tenderer has to indicate the cost for the same.