

Encl. to Tender No. EKM/OS/010/THERMAL & SOUND INSULATION/10-11, Dt.26.08.2010

ENCLOSURE - 1

I) Work Package for Preparation and fixing of Thermal insulation in side the compartments and capsule of INS Sindhukirti (MR) Qty. -950 sq. mtrs. approx

A) Technical specification

Ref: Stage 2 drg. S. Nos. 722 , 723, 2134, 2338: Stage 1 drg S. No. 2358, 2361; RTDL S.No. 6331 to 6337

1 Scope of work of the Sub contractor:

- 1.1 Preparation and Fixing of insulation slabs inside the compartments and capsule as per sequence of work (Annexure-I A)
- 1.2 Procedure for fixing of phenotherm slabs are strictly as per RTDs.
- 1.3 Templates are to be lifted at curved and uneven areas and insulation slabs are required to be cut to sizes to suit the shape as per the templates.
- 1.4 Equipment, Clamps, fixture, tools and consumables like templates material, soap, adhesive tape, Emery/flint paper and waste cloth etc., necessary for carrying out the job are in the sub contractor's scope.
- 1.5 Sub contractors has to rig the required staging onboard.
- 1.6 Sub contractors has to make arrangements for temporary lighting.
- 1.7 Sub contractor has to make arrangements for collection of raw material.
- 1.8 Sub contractor has to offer the stage inspections to QC & WOT as per QAP issued by EKM-QC.
- 1.9 Remarks if any during inspection are to be rectified by sub contractor and re offer for inspection.
- 1.10 Log book & inspection reports are to be maintained by sub contractor and submitted to HSL on completion of work.
- 1.11 As fitted drgs are to be prepared and submitted in 6 sets.

2. Scope of supply of HSL :

- 2.1 Grit blasting/mechanical cleaning and primer application on metal surface prior to fixing insulation and pale cream application post fixing will be carried out by painting dept.,
- 2.2 All raw materials viz., insulation slab, MAS 83 Mastic compound ingredients, DK canvas cloth , synthetic adhesive, MAS136 supplied by HSL.
- 2.3 Staging materials supplied by HSL (subjected to the availability)
- 2.4 One set RTDs will be provided by HSL and same are to be returned immediately after completion of works

3. Other terms & conditions:

- 3.1 Contractors shall submit price per sq. mtr. Area for the following two categories of work.
 - 3.1.1 For fixing of thermal insulation slabs 20 mm to 30mm thick
 - 3.1.2 For fixing of thermal insulation slabs 40 mm to 50mm thick
- 3.2 The total quantity of work indicated is approximate and contractor will be paid according to the actual area of work done.

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II) Work Package for Preparation, fixing of Sound insulation and Aluminum

sheet lining in side the compartments of INS Sindhukirti . Qty.-180 sq. mtrs approx.

Ref: Stage 2 drg. S. Nos. 2133, 2354, 2355; RTDL S.No. 4551

1 Scope of work of the Sub contractor:

- 1.1 Preparation, fixing of sound insulation and aluminum lining inside the compartments as per Sequence of work (Annexure –I B)
- 1.2 Procedure for fixing of sound insulation is strictly as per RTDs.
- 1.3 Insulation material is to be cut to sizes suitably and fibre glass cloth is to be stitched . The MS sections are to be welded and aluminum lining sheets are to be cut to sizes, necessary opening are to be cut and fitted in places after the laying of insulation.
- 1.4 Equipment, Clamps, fixture, tools and consumables like templates material, soap and waste cloth etc., necessary for carrying out the job are in the sub contractor's scope. Fibre glass cloth, fastening items for fixing insulation and lining are also in the sub contractor's scope.
- 1.5 Sub contractors has to rig the required staging onboard.
- 1.6 Sub contractors has to make arrangements for temporary lighting.
- 1.7 Sub contractor has to make arrangements for collection of raw material.
- 1.8 Sub contractor has to offer the stage inspections to QC & WOT as per QAP issued by EKM-QC.
- 1.9 Remarks if any during inspection are to be rectified by sub contractor and re offer for inspection.
- 1.10 Log book & inspection reports are to be maintained by sub contractor and submitted to HSL on completion of work.
- 1.11 As fitted drgs are to be prepared and submitted in 6 sets.

2. Scope of supply of HSL :

- 2.1 Grit blasting/mechanical cleaning and primer application on metal surface prior to fixing insulation and pale cream paint application post fixing will be carried out by painting dept.,
- 2.2 All raw materials viz., insulation , adhesive, MS sections, electrodes, rubber packing, aluminum sheets supplied by HSL.

- 2.3 Staging materials supplied by HSL (subjected to the availability)
 2.4 One set of RTDs will be provided by HSL and same are to be returned immediately after completion of works

3. Other terms & conditions:

- 3.1 Contractors shall submit price per sq. mtr. area as a whole i.e, For fixing of Sound insulation (irrespective of the thickness range 30 mm to 100mm) and aluminum lining.
 3.2 The total quantity of work indicated is approximate and contractor will be paid according to the actual area of work done.

B - COMMERCIAL TERMS & CONDITIONS

1. **TIME SCHEDULE:** The completion time schedule is for **80 days** from the date of issue of raw materials.

2. PAYMENT TERMS:

2.1 Stage – I :- 90% Payment will be made on completed work against the submission of work completion certificate issued by the controlling department.

2.2 Stage- II :- Balance 10% payment shall be made on completion of guarantee Period.

2.3 The Bills shall be submitted along with PF & ESI clearance certificates for the personnel engaged for the period of work.

3. PERFORMANCE BANK GUARANTEE : 10% Performance Bank Guarantee to be submitted upto the period of satisfactory completion of the work within 15 days of issuing LOI/ Confirmatory Work Order.

4. GUARANTEE PERIOD : The preparation and fixing of thermal & sound insulations must be guaranteed for 12 Months from the date of completion of total job. Any defects arising are to be attended to promptly and rectified at free of cost.

5. COMPENSATION FOR DELAY IN COMPLETION OF WORK : 0.5% per week subject to a maximum of 10% of the Work Order Value.

6. GENERAL TERMS & CONDITIONS : As per Enclosure – 2

7. EMD : Rs.30,000/- DD / Bankers Cheque from any Nationalised Banks on the name of Hindustan Shipyard Ltd. Visakhapatnam-530005, towards Earnest Money Deposit to be submitted along with Technical bid. (Returnable)

Note:- Vendors who were registered in HSL also should be submitted the EMD

8. TENDER FEE : Rs.500/- Vide Inside HSL State Bank of India Challan on the name of Hindustan Shipyard Ltd. Visakhapatnam-530005, (Branch No.9082), **Cr. HSL Current A/c No. 10299596073, (OR)** DD / Banker Cheque from any Nationalised Banks towards Tender Fee to be submitted along with Technical bid. (Non returnable)

Chief Manager (SBO)