

**Enc. to Tender No.EKM/OS/020/VDC- KOLCHUGA/10-11, Dt. .08.2010****ENCLOSURE - 1****WORK PACKAGE FOR FIXING OF VDC - "KOLCHUGA " (RUBBER TILES WITH ALUMINIUM SHEETS) BY FASTENING ON FLOORINGS, FOUNDATIONS, BULK HEADS OF INS SINDHUKIRTI**A) Technical Specification**QTY- 130 sq.m (Approx)**D.L. 1.77.1

Ref. RTD's:ГКЛИ.877ЭР2.3230-032, ГКЛИ.877ЭР2.3230-035, ГКЛИ.877ЭР2.3230-037,ГКЛИ.877ЭР2.3230-039,ГКЛИ.877ЭР2.3230-043&Process sheet SKT/EKM.TD.H/SW/2015.

1.0 Scope of work of Sub contractor for fixing of VDC- Kolchuga tiles under the following categories:

**1.1 Preparation and fixing of Old existing VDC-Kolchuga tiles (35 sq.m approx.).**

- a) Match the location of old VDC-Kolchuga tiles at site & secure them with fasteners. Clean the dust on the tiles and apply one coat of primer to Al sheet.
- b) Removal & re welding of studs if any during fitment of above tiles.

**1.2 Preparation and fixing of VDC-Kolchuga tiles by reusing the old existing Rubber (45 sq.m Approx.):**

- a) Match the location of old rubber and prepare aluminum sheet accordingly suitable to rubber profile i.e.Templating, marking, cutting & drilling of holes. Clean the dust on the tiles and apply one coat of primer to Al sheet.
- b) Removal & re welding of studs if any during fitment of above tiles.

**1.3 Preparation and fixing of New VDC-Kolchuga tiles (50 sq.m approx.).**

- a) Preparation of rubber & Al sheet as per the site requirement i.e.Templating marking, cutting& drilling of holes. Clean the dust on the tiles and apply one coat of primer to Al sheet.
- b) Match the location of new rubber and aluminum sheet at site & secure them with fasteners.
- c) Removal & re welding of studs if any during fitment of above tiles.

2.1 AK-25 Qualified welders should be deployed by Sub-contractor for welding fasteners.

- 2.2. Machinery Tools for cutting & drilling the rubber, plasma cutting machine, templating material, Tools & Hollow punches for template cutting, hollow drill bits for rubber drilling, drill bits for Al sheet drilling , magnets , putty knives, Bristle brush, degreasing agent, waste cloth, Welding plant, grinding/buffing machine, Paper wheels, safety equipment, Emery papers, for preservation of fasteners on board & misc. Consumables are in the contractor scope.
- 2.3. Work is to be carried out by sub contractor as per RTDs to the satisfaction of QC and WOT.
- 2.4. Utmost care is to be taken for maintaining accuracy/RTD standards.
- 2.5. Sub contractor shall provide labour assistance for carrying out DP tests by EKM-QC.
- 2.6. Sub contractor shall rig the required staging onboard. .
- 2.7. Sub contractor shall make arrangements for temporary lighting etc
- 2.8. Sub contractor shall make arrangements (Trolleys, Bins, slings etc) for Collection of rubber tiles etc., from stores in HSL and handling.
- 2.9. Sub contractor shall offer stage wise inspections to QC and WOT as per QAP issued by EKM-QC
- 2.10. Remarks if any during inspections are to be rectified and reoffered for inspection by Sub contractor.
- 2.11. Minor repairs/modifications to the rubber/aluminum sheets if any during preparation and fixing are to be carried out by Sub contractor without additional cost.
- 2.12. Gaps in between tiles are to be filled sealant and covered polythene tape. Dress up the same after drying.
- 2.13. For preparation of sealant & putty calibrated digital weighing machine is to be arranged by the contractor.
- 2.14. After fixing "Kolchuga", Free end of the stud& Nut to be applied with putty.
- 2.15. In case of any necessity of removal of already fitted kolchuga tiles for carrying out adjacent works to extent of 5% of total quantum of work is to be carried by sub-contractor at free of cost.
- 2.16. If any damages occurs to the machinery, electrical equipment etc. during Hot work (cutting & re-Welding of fasteners), are at the risk & cost of the sub-contractor.
- 2.17. All inspection reports and log book are to be maintained by Sub contractor and submitted to HSL immediately after completion of works.
- 2.18. Detailed documentation i.e., as fitted sketches are to be prepared frame station wise. ( 6 sets are to be submitted)

3 Scope of HSL supply:

- 3.1. Al sheets(6 / 3mm) ,Rubber tiles composite (8 /12mm thk), Studs, Hexagonal nuts, washers, Sealant RDL-840(or) sealant YГ-2д, Putty эГ-0010 or araldite, Glue 88C & Paint will be supplied by H.S.L.
- 3.2. Electrodes & D.P kit will also be supplied by H.S.L.
- 3.3. Staging materials supplied by HSL (subjected to availability) however staging to be erected by contractor.
- 3.4. Crane will be provided by HSL for handling materials (subjected to availability)
- 3.5. One set of Drgs. Xerox copy will be provided by HSL and same are to be returned immediately after completion of works.

4. **Prices are to be quoted per sq. mtr for the following categories of work**

- 4.1 Preparation and fixing of Old existing VDC-Kolchuga tiles
- 4.2 Preparation and fixing of VDC-Kolchuga tiles by reusing the old existing Rubber
- 4.3 Preparation and fixing of New VDC-Kolchuga tiles.
- 5.0 The quantities mentioned in the Para 1 above are approximate (there may be increase/ decrease in the quantities for the categories of work) and contractors are paid for the actual work only.

**B - COMMERCIAL TERMS & CONDITIONS**

1. **TIME SCHEDULE:** The completion time schedule is for **40 days** from the date of issue of VDC Kolchuga rubber tiles with aluminium sheets.

2. **PAYMENT TERMS:**

2.1 **Stage – I :-** 90% Monthly on account payment will be made for 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 rubber tiles 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. **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.10,000/-** 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 shall also submit 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)**