DREDGE 3 HULL, DECK, STRUCTURE AND COMPARTMENT PAINTING. (Reference Drawing no. A/1299, AOS/0209A, MOS/1714B and A/1447)

SITE INFORMATION

- It shall be deemed that the tenderer has visited the site/area & got fully acquainted with the working conditions, the scope of work and other prevalent conditions and has taken all the factors into account while making the quotation.

- The tenderer, at the tenderer's own responsibility, cost & risk, is encouraged to visit and examine the site of works and its surrounding and obtain all the information that may be necessary for preparing the Bids.

CONFORMITY WITH STATUTORY ACTS, RULES, STANDARDS AND CODES

i) All electrical works shall be carried out in accordance with the provisions of TCML rules.
ii) All Mechanical works shall be carried out in accordance with the provisions of TCML rules.
iii) All surface preparation for painting and the actual painting shall be done to the marine standards.

SAFETY MEASURES AND REQUIREMENTS.

i) A thorough site risk assessment to be done before commencement of work.
ii) All personnel involved in the job to be safety inducted for familiarization with the scope of work and the risks involved.
iii) A risk assessment board to be availed on site furnished with the permit to work, risk assessment form, hot work permit and job procedure.
iv) Ensure all electrical connections have been isolated and a Lock out, Try out, Tag out procedure have been followed before taking over the plant for the job.
v) A person in charge of safety to be identified and be known to all the personnel.
vi) A first aid kit to be availed on site at all times and a shift first aider identified.
vii) Suitable Fire extinguishers to be availed on site at all times during the operation.
viii) All drop zones and operation areas to be barricaded using red/white barrier tape to restrict entry to persons not inducted for and/or not involved in the job.
ix) All oxy-acetylene sets to be inspected and tested for leakages before use and hoses to be clear of falling hot material, sharp edges and dropping debris.
x) All personnel shall wear the mandatory PPE at all times and ensure use of other relevant PPE depending on the nature of work and condition of the work site.
xi) Housekeeping to be done at every stage of work and thoroughly at every close of shift.

SCOPE OF WORK.

WORKS TO BE ARRANGED BY THE TCML

Unless otherwise specified in the tender documents, the following works shall be arranged by Tata chemicals Magadi (TCML).

i) Space for accommodating all the equipment and components involved in the work.
ii) Provide materials for making scaffold and erection of the scaffolds at the site.
iii) Provide all technical drawings required.
iv) Provide Paint, consumable items and materials required.
v) Supervision of the installation process.
vi) Thorough housekeeping on the site prior to sand blasting and painting.
vii) All general tools and tackles including welding machine, drilling machine, safety belts, Helmet, etc. shall be provided by TCML free of cost on returnable basis.
viii) Electricity will be provided at single point free of cost.
ix) Consumable like welding electrodes, gas, emery paper & broom etc. shall be provided by TCML free of cost.
x) Provide Workshop facility at free of cost depending on the nature of work.

WORKS TO BE ARRANGED BY THE CONTRACTOR

Unless otherwise mentioned in the tender documents, the following works shall be done by the contractor and therefore, their cost shall be deemed to be included in their tendered cost-whether specifically indicated in the schedule of work or not: -

i) Experienced Supervisor/engineer shall be deputed at site by the contractor for proper co-ordination and supervision of the job.
ii) Contractor has to arrange required man-power for sand blasting and painting.
iii) The man-power deputed for this work should be covered under suitable insurance policy. The contractor before commencement of work at site shall submit a copy of insurance policy in duplicate..
iv) Disposing of the waste material to the scrap yard.
v) Housekeeping at the end of the project.

MACHINERY EQUIPMENT FOR SANDBLASTING AND PAINTING

Sand blasting machine, spray painting devices, Portable air compressor, all the hand tools to be used including hand brushes where necessary, tackles required for unloading / handling of equipment and materials at site, their assembly, erection, testing and commissioning shall be the responsibility of the contractor.

TOOLS REQUIRED

i) Portable air compressor set and its accessories.
ii) Sand blasting equipment with its accessories.
iii) Hand brooms (10).
iv) 1 Nos. 9’’ grinder complete with its safety guards.
v) 3 Nos. single phase extension cables each 15 meters long or more.
vi) Spray painting gun/Paint rollers.

CONSUMABLES REQUIRED

i) 8 Pcs. 9'' grinding discs.
ii) 10 Nos. wire brushes.
iii) Emery cloth.
iv) Hand gloves.
v) Fresh air masks.

JOB PLAN.

PREPARATIONS:

1) Ascertain the surface area to be painted.
2) Erect scaffolding.
3) Ensure all required tools and equipment are on site before commencing the painting works.

SAND BLASTING AND PAINTING WORK:

4) Sand blasting.
5) Applying first undercoat.
6) Apply second under coat.
7) Curing.
8) Applying first overcoat.
9) Applying second overcoat.
10) Thorough housekeeping at end of the project.
11) Full cure.

	MAIN DECK - AFT TANK BOTH INTERNAL & EXTERNAL (Drawing No AOS/209A)	**Unit**	**Quantity**	**Rate**	**Amount**	Cts
1)	Externally: Prepare by sand blasting the tank surface.Apply two undercoat of high build polyamide cured recoateble epoxy paint (Sigma cover CM coating marine paint) and two final coats of high build aliphatic isocyanate cured acrylic finish paint (Sigmadur HB finish marine paint) Compartment number 1(Drawing A1447)	m^2	22.06			
2)	Internally: Prepare and apply two undercoat of high build polyamide cured recoateble epoxy paint (Sigma cover CM coating marine paint) and two final coats of high build aliphatic isocyanate cured acrylic finish paint (Sigmadur HB finish marine paint)Compartment number 1(Drawing A1447)	m^2	34.74			
3)	Externally: Prepare by sand blasting the tank surface. Compartment number 2(Drawing A1447)	m^2	44.23			
4)	Internally: Prepare and apply two undercoat of high build polyamide cured recoateble epoxy paint (Sigma cover CM coating marine paint) and two final coats of high build aliphatic isocyanate cured acrylic finish paint (Sigmadur HB finish marine paint)Compartment number 2(Drawing A1447)	m^2	50.49			
5)	Externally: Prepare by sand blasting the tank surface. Compartment number 3 (Drawing A1447)	m^2	44.23			
6)	Internally: Prepare and apply two undercoat of high build polyamide cured recoateble epoxy paint (Sigma cover CM coating marine paint) and two final coats of high build aliphatic isocyanate cured acrylic finish paint (Sigmadur HB finish marine paint)Compartment number 3 (Drawing A1447)	m^2	50.49			
7)	Externally: Prepare by sand blasting the tank surface. Compartment number 4 & 7 (Drawing A1447)	m^2	18.95			
8)	Internally: Prepare and apply two undercoat of high build polyamide cured recoateble epoxy paint (Sigma cover CM coating marine paint) and two final coats of high build aliphatic isocyanate cured acrylic finish paint (Sigmadur HB finish marine paint)Compartment number 4 & 7 (Drawing A1447)	m^2	32.53			
9)	Externally: Prepare by sand blasting the tank surface. Compartment number 5(Drawing A1447)	m^2	3.66			
10)	Internally: Prepare and apply two undercoat of high build polyamide cured recoateble epoxy paint (Sigma cover CM coating marine paint) and two final coats of high build aliphatic isocyanate cured acrylic finish paint (Sigmadur HB finish marine paint)Compartment number 5 (Drawing A1447)	m^2	17.148			
11)	Externally: Prepare by sand blasting the tank surface. Compartment number 6 (Drawing A1447)	m^2	3.66			
12)	Internally: Prepare and apply two undercoat of high build polyamide cured recoateble epoxy paint (Sigma cover CM coating marine paint) and two final coats of high build aliphatic isocyanate cured acrylic finish paint (Sigmadur HB finish marine paint)Compartment number 6 (Drawing A1447)	m^2	17.15			
13)	Externally: Prepare by sand blasting the tank surface. Compartment number 8(Drawing A1447)	m^2	44.23			

SCOPE OF WORK

SCOPE OF WORK.

12)	Internally: Prepare and apply two undercoat of high build polyamide cured recoateble epoxy paint (Sigma cover CM coating marine paint) and two final coats of high build aliphatic isocyanate cured acrylic finish paint (Sigmadur HB finish marine paint)Compartment number 8 (Drawing A1447)	m^2	50.49			
11)	Externally: Prepare by sand blasting the tank surface. Compartment number 9(Drawing A1447)	m^2	44.23			
12)	Internally: Prepare and apply two undercoat of high build polyamide cured recoateble epoxy paint (Sigma cover CM coating marine paint) and two final coats of high build aliphatic isocyanate cured acrylic finish paint (Sigmadur HB finish marine paint)Compartment number 9 (Drawing A1447)	m^2	50.49			
11)	Externally: Prepare by sand blasting the tank surface. Compartment number 10(Drawing A1447)	m^2	22.06			
13)	Internally: Prepare and apply two undercoat of high build polyamide cured recoateble epoxy paint (Sigma cover CM coating marine paint) and two final coats of high build aliphatic isocyanate cured acrylic finish paint (Sigmadur HB finish marine paint)Compartment number 10(Drawing A1447)	m^2	34.73			
14)	Externally: Prepare by sand blasting the tank surface. Compartment number 11 (Drawing A1447)	m^2	10.44			
15)	Internally: Prepare and apply two undercoat of high build polyamide cured recoateble epoxy paint (Sigma cover CM coating marine paint) and two final coats of high build aliphatic isocyanate cured acrylic finish paint (Sigmadur HB finish marine paint)Compartment number 11 (Drawing A1447)	m^2	24.69			
16)	Externally: Prepare by sand blasting the tank surface. Compartment number 12 (Drawing A1447)	m^2	20.92			
17)	Internally: Prepare and apply two undercoat of high build polyamide cured recoateble epoxy paint (Sigma cover CM coating marine paint) and two final coats of high build aliphatic isocyanate cured acrylic finish paint (Sigmadur HB finish marine paint)Compartment number 12 (Drawing A1447)	m^2	40.44			
18)	Externally: Prepare by sand blasting the tank surface. Compartment number 1(Drawing A1447)	m^2	20.92			
19)	Internally: Prepare and apply two undercoat of high build polyamide cured recoateble epoxy paint (Sigma cover CM coating marine paint) and two final coats of high build aliphatic isocyanate cured acrylic finish paint (Sigmadur HB finish marine paint)Compartment number 1(Drawing A1447)	m^2	40.77			
20)	Joist and channel sections(200.6 Running metersX178mm) Prepare by sand blasting the surface. apply two undercoat of high build polyamide cured recoateble epoxy paint (Sigma cover CM coating marine paint) and two final coats of high build aliphatic isocyanate cured acrylic finish paint (Sigmadur HB finish marine paint)	m^2	35.7			
	Total	**m^2**	**779.448**			
	Total Amount					
	16% VAT					
	Total Amount plus VAT					

QUALITY CHECKS.

1) The film thickness to be 75-150µm

The General Arrangement of Dredge 3 is as per the drawings A/1299, AOS/0209A, MOS/1714B and A/1447)

SCOPE OF WORK.

TECHNICAL CRITERIA

		Quantitative Technical Criteria Description	Tender Returnable Proof Format	Criteria Weighting	Criteria Sub Weighting
1	***Technical criteria***			**80%**	
	1	Is your company certified NCA 4-6 in Mechanical?	Attach current Certificate	10%	
	2	The vendor MUST have done similar jobs (At least 3 LPOs copies on Marine Painting)	The bidder shall submit copy of completion certificates/ un-priced P.O. copies in support of above. If required purchaser may visit the one of bidder's client to verify the details submitted by the bidder in support of past experience as indicated above	40%	
	3	Show detailed preparation and installation work plan	Attach a detailed work schedule for the activities in scope (Ghant Chart with correct resource allocation)	10%	
	4	Financial strength	Attach last 2 years Audited financial statements	10%	
	5	Company profile and manpower	Attach the company profile, Key technical skills team certificates and CVs-Including the Marine welding certificates.	10%	
		Safety criteria		**10%**	
	4	Does your company have competent, trained, safety conscious, and insured personnel	Attach a valid WIBA for your staff	10%	
		Total		**100%**	

SCOPE OF WORK.

A minimum overall score of 70% will be used to deem the tenderer technically acceptable and anything below 70% will deem the tenderer technically unacceptable

SCOPE OF WORK.

Financial

DESCRIPTION	QTY	UNIT	PRICE @
1. **Tender for Dredge #3 Sand blasting and Painting**	1	LUMP SUM	
Sub Totals			
VAT			
Total			
Payment terms is 60days after invoice date			

NB: Site Visit is Mandatory 19th July 2017