



TENDER NO. TCML/MGD/KPS/2019/TK-03

**TENDER FOR THE PROPOSED CONSTRUCTION AND
PIPEWORK FOR AGO TANK-DIMENSION 5000Litres**

AUGUST, 2019

CLIENT:

TATA CHEMICALS MAGADI LTD
P.O. BOX 1-00205MAGADI

THE HEAD OF PROCUREMENT

TATA CHEMICALS MAGADI LTD.P.O.
BOX 1-00205 MAGADI



SITE INFORMATION

The tenderer should, in his own interest, visit the site and familiarize with the site conditions before tendering. For any clarification, tendered may discuss with the customer.

CONFORMITY WITH STATUTORY ACTS, RULES, STANDARDS AND CODES

- i) All components shall conform to the relevant standard specifications, whatever existing, amended to date.
- ii) All electrical works shall be carried out in accordance with the provisions of TCML rules.
- iii) All Mechanical works shall be carried out in accordance with the provisions of TCML rules.

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 tool box talk to be held before commencement of every shift to highlight on the new risks encountered or expected and how to mitigate them.
- vi) A person in charge of safety to be identified and be known to all the personnel during every shift.
- vii) A first aid kit to be availed on site at all times and a shift first aider identified.
- viii) 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.
- ix) 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.
- x) Housekeeping to be done at every stage of work and thoroughly at every close of shift.

TOOLS REQUIRED

- i) Combination spanners ranging
- ii) Engineering hammers.
- iii) Kong claw bars.
- iv) Chain blocks
- v) Soft slings
- vi) D shackles
- vii) DC welding machines complete with welding and earthing cables
- viii) Grinder completes with its safety guards.
- ix) Oxy-acetylene cutting sets,
- x) 3 Nos. single phase extension cables each 15 meters long or more.
- xi) Drilling machines
- xii) Gas cutting set

CONSUMABLES REQUIRED

- i) 1/8" Acetylene Cutting nozzles of good quality preferably 'Afrox' from BOC.
- ii) 1/16" Acetylene Cutting nozzles of good quality preferably 'Afrox'.
- iii) 3.15mm Low hydrogen Welding electrodes.
- iv) 4.00mm Low hydrogen Welding electrodes.
- v) 3.15mm mild steel Welding electrodes.
- vi) 4.00mm mild steel Welding electrodes.
- vii) 9" cutting discs.
- viii) Full acetylene cylinders of size 6.8 cubic meters or more.
- ix) Full oxygen cylinders of size 8.3 cubic meters or more.
- x) Wire brushes.
- xi) Emery cloth.
- xii) Paint
- xiii) Ballast
- xiv) Concrete fibre
- xv) Black pipes

- xvi) Hand gloves

WORKS TO BE ARRANGED BY THE TCML

Unless otherwise specified in the tender documents, the following works shall be arranged by the owner.

- i) Space for accommodating all the equipment and components involved in the work.
- ii) Accommodation and meals for the contractor
- iii) Provide all technical drawings required (if any)
- iv) Provide all equipment, consumable items and materials required.

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

- i. Materials to be brought from stores.
- ii. Experienced Supervisor/engineer shall be deputed at site by the contractor for proper co-ordination and supervision of the job.
- iii. Contractor has to provide manpower and equipment for assemble / dissemble scaffolding.
- iv. 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.
- v. Foundation works
- vi. Construction and erection of tank & other structure as per scope of work.
- vii. Fabrication and installation of fuel pipe.
- viii. Housekeeping at the end of the project.
- ix. Disposing of the waste material to the scrap yard.

FOUNDATION WORKS

- 1) Conduct tool box talk/safety induction/Discuss JSA-Job Safety Assessment
- 2) Carry out risk assessment
- 3) Raise and fill the permit to work
- 4) Location identification, Site clearing and pegs for measurement
- 5) Mark out the area where you wish to build your tank, and level it.
- 6) Top soil excavation, & disposal of excavated soil
- 7) Pour hard-core and murrum materials
- 8) Compact to the required strength.
- 9) Installation of 150mm slab (Ballast, Sand, cement & water mix ratio)
- 10) Blinding layer
- 11) Curing of blinding layer
- 12) Construction of 4 courses-9 inch stone Perimeter wall
- 13) Plastering of the Perimeter wall and floor
- 14) Curing process for 7 days
- 15) Housekeeping

FABRICATION, PAINT WORK AND INSTALLATION

- 1) Conduct tool box talk/safety induction/Discuss JSA-Job Safety Assessment
- 2) Carry out risk assessment
- 3) Raise and fill the permit to work
- 4) Foundation casting and curing for saddles
- 5) Steel plates preparation
 - Ensure bottom plates is available
 - Shell plate plan and drawing, plates rolling as per drawing
 - Roof plates drawing and preparation of hand rail material and stairs
 - Bottom anchoring material and anchor bolts
 - Pipe work layout and material mobilisation
 - Manhole and calibration location and material mobilisation
- 6) Bottom plate, welding and fitting
- 7) Diameter marking and punch

- 8) Rolled plate fitting on punched line and welding of bottom and vertical joint
- 9) Fitting of second shell and preparation of anchoring stool
- 10) Welding and stiffeners and square alignment from bottom shell
- 11) Manhole details and cutting for easy access of material and manpower
- 12) Third shell preparation, fitting and stiffening platform preparation for height works
- 13) Back weld on existing already welded plates and final grinding
- 14) Curb angle bending, preparation of roof plates, hand rails details roof beams and stool preparation
- 15) Manhole fitting and welding ,inlet and outlet location and pipe work preparation
- 16) Calibration details
- 17) Painting of primer to a minimum of two coats as per drawing specification
- 18) Mobilisation of the tank
- 19) Erection of the tank
- 20) Housekeeping

FUEL PIPE WORK

- 1) Conduct tool box talk/safety induction/Discuss JSA-Job Safety Assessment
- 2) Carry out risk assessment
- 3) Raise and fill the permit to work
- 4) Fuel Pipe work preparation
- 5) Laying of the pipes
- 6) Welding the joints, bends and flanges
- 7) Join the flanges using correct gasket
- 8) Confirm the joints
- 9) Housekeeping
- 10) Commissioning

QUALIFICATION FOR TENDERING

1.1. Mandatory Requirements

The following must be submitted together with bid:

- i) Submission of CR 12 and Incorporation certificate
- ii) Copy of Registration certificate for National Construction Authority (NCA) for mechanical works in any category
- iii) Valid Tax Compliance Certificate
- iv) WIBA Compliant, and show proof.

1.2 Other Requirements

The Bidder shall submit information, which will enable the technical team to evaluate their capability to undertake the works. For the purpose of these works, it is required that the firms should provide the following:-

- i) Similar previous experience
- ii) Professional and technical staff (attach CV's, testimonials & Certificates.
- iii) Completion period (attach detailed work Schedule)

All information in the attached forms should be provided in full and failure to do so will constitute grounds for disqualification.

There shall be a mandatory pre-tender site visit as specified in the table below:

Date	20th August 2019
Time	1430 Hrs.
Venue	LAKE MAGADI

No.	Description	Max. Point	Points Awarded
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1	MANDATORY		
1.1	The following shall be provided; submission of CR 12	YES/NO	
1.2	Copy of Registration certificate for National Construction Authority (NCA) mechanical or civil works in any category	YES/NO	
1.3	Copy of valid Tax Compliance certificate	YES/NO	
1.4	WIBA Compliant. Show proof.	YES/NO	
2	Key Staff Qualifications :25 Points		
2.1	Attach CV's of Key staff: Technician, plumber, masons and Mates. (Company must have competent, trained, safety conscious, and insured personnel)	25	
3	Experience of the Firm : 45 Points		
3.1	Attach proof/evidence of three (3) similar works undertaken of the same value for the last 3 years.	45	
4	Completion Period : 30 Points		
4.1	Completion Period (The contractor to come up with a detailed Work Schedule/Programme) and Work Methodology	30	
	GRAND TOTAL	100	
	Ratings		

Note:

1. All bidders must provide above information together with their bids.
2. A bidder must score a **minimum of Sixty Five (65)** points at the Technical Stage to qualify for Financial Evaluation.

The bidders must submit the Technical and the financial proposals separately.

A. TECHNICAL PROPOSAL

One copy in sealed envelope clearly marked “**TECHNICAL PROPOSAL FOR TENDER NO: TCML/MGD/2019/M-81–TENDER FOR THE PROPOSED FABRICATION OF AGO TANK**” (The firms will ensure that there is no reference at all on their financial proposal within the technical proposal envelope)

B. FINANCIAL PROPOSAL

One copy in sealed envelope clearly marked “**FINANCIAL PROPOSAL FOR TENDER NO: TCML/MGD/2019/M-81–TENDER FOR THE PROPOSED FABRICATION OF AGO TANK**” (The financial proposal shall include all taxes applicable).

Addressed to:

The Head of Procurement,
TATA Chemicals Magadi Limited,
P.O. Box 1-00205,
MAGADI.

The same will be deposited in the tender box situated in Administration Block, Magadi OR Collection Centre, at Enterprise Road – Avon house, Industrial area to reach him/her on or before 5.00 p.m. on **30TH August, 2019.**

The Management reserves the right to accept or reject any bids and does not bind itself to any reasons for doing so.