

1. INVITATION FOR BIDS

1. Mangalore SEZ Limited (MSEZL) is jointly promoted by Oil & Natural Gas Corporation Ltd. (ONGC), Infrastructure Leasing & Financial Services Ltd., Karnataka Industrial Areas Development Board (KIADB) and Kanara Chambers of Commerce and Industries (KCCI). MSEZL has taken up a project to set up a Sector Specific SEZ initially and is upgraded to Multi product SEZ catering mainly to the petrochemical Industry and other sectors such as manufacturing, services, trading and warehousing (hereinafter referred to as “the Project”).
2. MSEZL is issuing this Bid document inviting proposals for **“Operation & Maintenance of Common Effluent Treatment Plant (CETP), Marine Outfall Pipeline System and Internal Sewerage Pumphouse of MSEZ for a period of 1 year” Contract Package No: MSEZL/O&M/CETP&MO/2024**. Bidding is open to all Contractors / Firms based in India, who are eligible as per technical requirements. Joint Venture is not allowed.
3. The intending bidders are required to make a onetime registration with M/s Karnataka State Electronics Development Corporation Limited (KSEDCL/KEONICS), the service providers for the e-tender by following the registration process on www.tenderwizard.com/MSEZ.
4. The blank E-tender document can be procured between **12/07/2024 to 06/08/2024** by Online Payment of Rs 11,800/- (Rupees Eleven Thousand Eight Hundred Only) including GST by RTGS, NEFT remitted to Mangalore SEZ Limited Account No: 36335706882 of State Bank Of India, Corporate Accounts Group-II, New Delhi, IFSC Code: SBIN0017313
5. The Bid document comprises:
 - i) Invitation for Bids
 - ii) Bidding data
 - iii) Instructions to Bidders
 - iv) General Conditions of Contract
 - v) Special Conditions of Contract
 - vi) Taxes & Duties
 - vii) Special Specifications
 - viii) Price Bid
 - ix) Annexures / Drawings

6. Scope of work will be but not limited to the following:

MSEZL has constructed a Common Effluent Treatment Plant (CETP) for the treatment of industrial effluent from the MSEZL units and Marine outfall system to pump the treated effluent into sea after meeting the discharge standards. The Scope of work involves operation & maintenance of the infrastructure for a period of One year as mentioned below:

a) Common Effluent Treatment Plant (CETP)

The CETP is constructed for 3.5 MLD capacity for the treatment of Process wastewater. Presently MSEZL is receiving process wastewater from fish processing industry and Catasynth aroma plant. The process wastewater treatment involves following units:

1. Equalization tank (2nos)
2. DAF/Flash mixer and Flocculation tank
3. Primary Clarifier
4. MBBR
5. Secondary Clarifier 1st stage with sludge recirculation
6. Extended aeration tank
7. Secondary Clarifier 2nd stage with sludge recirculation
8. Final treated water storage tank and pumping station to Marine outfall pump house
9. Sludge tank
10. Decanter
11. Digester & Flaring System
12. Thickener
13. Centrifuge

The Contractor should treat the effluent as per CETP discharge standards prescribed by KSPCB/MoEF and the treated effluent should be pumped to MSEZL marine outfall system.

b) Marine Outfall system

MSEZL has constructed marine outfall system for pumping of treated effluent from MSEZL units and MRPL Phase 3 after meeting the discharge standards prescribed by KSPCB/MoEF. Presently system is receiving treated effluent from MRPL Phase-3, OMPL and MSEZL CETP.

The system includes common sump, pump house, 1000 mm dia DI pipe line from Marine Outfall Pump House to BPT for a length of 1600 m, 800 mm dia DI K-7 pipeline from BPT to landfall point for a length of 9500m, SCADA system along with all connected pipeline transmission mains, valves, sluice gates, air valves, online analysers and all electromechanical installations and panels. Among the pipeline and structures mentioned above, approximately 1000 mm dia DI pipe from Marine Outfall Pump House to BPT for a length of 1000m, 800 mm dia DI K-7 pipe from BPT to landfall point for a length of 9500m and associated structures are located outside MSEZ notified area.

c) Internal Sewerage System

MSEZL has constructed internal sewerage system for pumping of dry weather and wet weather wastewater to CETP for further treatment. The system includes dry weather sump, wet weather sump, pump house, twin 500mm dia DI pipelines from pump house to CETP for a length of 3500m and road crossing MS pipeline of 700mm dia of 70m length for both dry and wet weather flow along with valves, sluice gates, electromechanical installations and panels.

Further, the system also includes maintenance of

- 200 mm dia HDPE pipeline from M/s AOT to CETP of length 1.2km and Road crossing with encasing pipe 35m near CETP.
- 250mm dia HDPE pipeline from M/s Yashaswi & GADRE to CETP of length 1.8km and Road crossing with encasing pipe 35m at 3 locations.
- 160mm HDPE (PN 10.0 PE 100) pipeline from M/s Catasynth of length 0.3km
- HDPE 250mm/315mm dia pipeline length of 600m.

The overall scope of work includes treatment of process wastewater, operation and maintenance of all electrical, mechanical, instrumentation equipment's, pipe lines, civil works, supply of BOQ materials as per the directions of Engineer In charge for CETP, Marine

outfall system and Internal sewerage system for the smooth and reliable operation of the system on 24X7 basis for one year, including all the following but not limited to:

- Providing all necessary skilled & semiskilled manpower of appropriate skills and unskilled manpower required for 24x7 operation of the complete system.
- The Contractor should carry out the analysis for raw effluent quality of different industries and should ensure that quality of raw effluent is as per CETP inlet standards. The parameters need to be analysed at CETP lab for inlet wastewater and treated effluent is attached as **Annexure 1** of Special Specifications.
- The Contractor should treat the raw effluent at the existing system and treated effluent should be pumped to marine outfall system after meeting the CETP discharge standards prescribed by KSPCB/MoEF.
- The Contractor should operate to ensure that performance of DAF is as per design standards and should coordinate with DAF supplier (M/s World Water solutions) for any operational issue.
- The Contractor should also check the performance of MBBR & Aeration tanks on regular basis. If there is any disturbance, contractor should take immediate actions to resolve the issue in discussion with Engineer-in-charge.
- The Sludge from the DAF system should be treated in decanter and dry sludge from the decanter should be further processed in Digester. The final sludge should be disposed as per the directions of Engineer-In charge.
- The Sludge from Biological treatment should be treated in centrifuge and final treated sludge to be used for green belt development.
- The contractor should supply necessary chemicals required for treatment of wastewater as per BOQ and ensure that chemical stocks for minimum two month should be made available at site at all times without any failure. If contractor fails to maintain the stock, same will be considered as “Disruptions” as per price reduction schedule. The chemicals required for the treatment of wastewater is attached as **Annexure 2** of Special Specifications.
- The contractor should supply laboratory chemicals required for analysis of parameters mentioned in the **Annexure 1** of Special Specifications as per BOQ and also ensure that chemical stocks for three months should be made available at lab without any failure. If contractor fails to maintain the stock, same will be considered as “Disruptions” as per price reduction schedule.
- The Contractor should supply the spares, consumables and other materials as per BOQ as per the directions of Engineer-In charge. If contractor fails to supply spares, consumables and other materials within two months of time, it will be considered as “Disruptions” as per price reduction schedule.
- The contractor should carryout third party analysis for CETP inlet effluent of each individual unit and outlet sample of CETP twice in a month as per parameters mentioned in BOQ through NABL/MoEF approved laboratory.
- Contractor should ensure continuous pumping of treated effluent from units like MRPL Phase III, OMPL, JBF and MSEZ CETP to Sea through marine outfall pipeline system after meeting the discharge standards prescribed by KSPCB/MoEF.
- The contractor should carryout third party lab analysis for treated effluent samples from the units like MRPL phase III, OMPL and JBF twice in a month as per parameters mentioned in BOQ through NABL/MoEF approved laboratory.
- The contractor should ensure that online analyser parameters installed at CETP outlet & Marine outfall outlet is always well within the limit and monitored data should be

transferred to CPCB server on continuous basis. If the parameters exceed the limit, the contractor is solely responsible for any action initiated by CPCB/KSPCB. Further, contractor should coordinate with Online analyser suppliers for regular calibration and maintenance of same. The calibration certificates should be furnished to MSEZ.

- The Contractor should carry out proper maintenance for all mechanical, electrical and instrumentation equipment's as per schedule prepared by contractor and approved by Engineer In charge. Contractor should ensure that, all equipment's are under good condition.
- The Contractor should carry out proper maintenance of marine outfall pump house system and pipeline including all valves for smooth function of system.
- Contractor should maintain proper log sheets at regular time intervals, necessary MIS for optimal performance during operation and as determined by Engineer-in-Charge.
- Ensuring adequate inventory as well as timely availability of required spares including supply of spares as per BOQ.
- Repair & maintenance of pumps, motors, pipelines, electrical, control panels, valves, actuators, EOT's etc., including Predictive, preventive maintenance, break down maintenance of complete system for smooth functioning of the plant.
- The supply and installation of major and minor spares of CETP, Marine outfall system and internal sewerage pump house as per the directions of Engineer In charge and payment will be made as per the rate quoted in the BOQ. The quoted rate should be inclusive of materials, labour, machineries, consumables, tools and tackles etc required for replacement of spares. The payment for BOQ items will be made as per consumption only.
- The contractor should obtain prior approval from Engineer In-charge before purchasing of any BOQ item and same will be considered for payment.
- Contractor should maintain proper logbooks for all BOQ materials and it should indicate inward date, no. of spares available, consumption date etc.
- Maintenance of SCADA system and all instrumentation equipment.
- Maintenance of gardens and streetlights.
- Ensuring compliance to all environmental, safety, health and statutory norms at all times.
- Maintenance of office Buildings, control rooms etc and ensuring security of all the components.
- Maintaining good housekeeping and hygiene conditions.
- The contractor should ensure all precautionary measures against COVID 19 are as per the guidelines of State & Central Government. The Contractor should provide masks, sanitizers etc., to fight against COVID 19 and cost towards the same is under contractor's scope.
- Maintain log sheets at regular time intervals, necessary MIS for optimal performance during 24X7 plant operation and as determined by Engineer In Charge.
- Compliance of all statutory requirements including CEIG, PF, ESI, minimum wages, labour laws etc.
- The contractor should maintain good running condition of DG and should maintain minimum Diesel level. The Diesel required for running of DG will be supplied by MSEZL as per contractor request and proper log sheets to be maintained regarding consumption.
- Maintaining the stores including insurance.
- All incidental items of work, except power charges.

- Providing one Bolero (A/C) with yellow board for 30/31 days per month for the Maintenance activities.
- Providing of two-wheeler vehicle for 30/31 days per month for maintenance activity.
- Any tools, tackles, machinery, instruments required for identifying and rectification of faults, daily maintenance to be arranged for reduction interruption/Shutdown period.
- Preventive and predictive maintenance plan to be prepared for all electromechanical, instrumentation and pipeline system and maintenance to be carried out accordingly.
- Regular Inspection of CETP, marine outfall and internal sewerage pipeline system air valve chambers for leakages, tightness, maintenance activity etc., and if required air valve chamber to be cleaned as per directions of Engineer in Charge. The necessary arrangements like Hydra/JCB (for slab removal), Gully sucker (for sludge removal) and Water tanker (for cleaning) to be made while cleaning the air valve chamber. The effluent from the air valve chamber to be unloaded at CETP.
- Contractor should pay salary to the staff before 7th of every month. If contractor is fails to pay salary before 7th of every month, it will be considered as "Disruptions" as per price reduction schedule.

All the above works would be carried out under the overall direction of the Engineer-in-Charge whose decision would be final and binding in all matters.

7. The filled-in E-tender **documents** shall be uploaded before **15:00** hours on **08/08/2024**.
8. In case bidders need any further information about the Project or for inspection of any other document related to the Project available with MSEZL they are requested to contact the MSEZL Office at the address given below:

Mangalore SEZ Limited
Sy No 168/3A, Plot No U-1, Administrative Building
Mangalore Special Economic Zone
Bajpe Village, Mangalore Taluk, Dakshina Kannada (Dist)
Karnataka-574142, Ph. No: 0824-2882501
Email: vinayakumar@msezl.com; ashwini.hegde@msezl.com

9. The technical proposals uploaded by the tenderers will be opened at **16:00 hours** on **08/08/2024**.
10. Price bids of only the qualified bidders will be opened on completion of evaluation of technical proposals.
11. MSEZL shall not be responsible for any costs or expenses incurred by the Bidder in connection with the preparation and delivery of Proposals, including costs and expenses related to visits to the sites. MSEZL reserves all the rights to cancel, terminate, change or modify this procurement process and/or requirements of Bidding stated in the TENDER PROPOSAL, at any time without assigning any reason or providing any notice and without accepting any liability for the same.

Date: 11/07/2024

**Chief Executive Officer
Mangalore SEZ Limited**

2. **BIDDING DATA**

S. N.	Key Information	Details
1	Project Title	Operation & Maintenance of Common Effluent Treatment Plant, Marine Outfall Pipeline System & Internal Sewerage Pumphouse of MSEZ for a period of 1 Year.
2	Owner	Mangalore SEZ Limited (MSEZL)
3	Brief Scope of Works	As described in Clause 6 of Invitation for Bids
4	Time Period	The term of the Contract shall be initially for a period of 1 year from the date of Work Order or any other date mentioned in the Work Order and extendable at the same rates, terms and conditions through a Repeat Order for a period up to 1 more year based on the requirement of MSEZL and performance of the contractor.
5	Annual Turnover	Average Annual Turnover in the last 3 financial years ending 31.03.2023 should be min Rs 1.00 Crore (The bid must be accompanied by the Annual Reports of the bidder for the preceding three years to fulfil the above financial criteria and separate certificate issued by the Chartered Accountant showing the Annual Turnovers for the last five financial years). Note: The Chartered Accountant's signature should bear his Membership Number also. All copies of certificates should be notarised.
6	Net Worth	Should be positive as per the Annual Report for the latest financial year. The specific certificate to this effect should be obtained and produced from the qualified Chartered Accountant. Note: The chartered Accountant signature should bear his Membership Number also. All copies of certificates should be notarised.
7	Technical Qualification Requirements	Bidder's experience of having successfully completed similar works during last 7 years ending 30 June 2024 should be either of the following: a. Three similar completed works costing not less than Rs 1.32 Cr each; or b. Two similar completed works costing not less than Rs 1.65 Cr each; or c. One similar completed work costing not less than Rs 2.62 Cr. Similar work means: "Operation and maintenance of Common Industrial Effluent Treatment Plant or Industrial Effluent Treatment Plant" • Bidders need to submit the corresponding Work Order copies & Experience Certificates issued by the respective clients duly notarized. MSEZL may call for original certificates for verification during the technical evaluation and the Bidders need to provide the same.

S. N.	Key Information	Details
		<ul style="list-style-type: none"> • Bidders who have rendered services under completed / ongoing O&M contracts to MSEZL should furnish Satisfactory Performance Certificate in respect of their last completed contract / ongoing contract with MSEZL. MSEZL reserves the right to reject the bids of such bidders if they are not accompanied by the Satisfactory Performance Certificates issued by MSEZL in respect of the services provided to MSEZL. • Experience Certificates shall include actual cost of work completed with date of completion. • The Bidders need to furnish complete information in the forms provided in Annexure-III of the Bid. • Bids of those bidders who themselves do not meet the experience and financial capability criteria as stipulated above can also be considered provided bidder is a 100% subsidiary company of the parent company which itself meets the experience and financial capability criteria as stipulated above. In that case as the subsidiary company is dependent upon the experience and financial capability of the parent company, with a view to ensure commitment and involvement of the parent company for successful execution of the contract, the participating bidder should enclose an agreement between the parent and the subsidiary company and corporate Guarantee from the parent company to MSEZL for fulfilling the obligation under the agreement.
8	Proposal Validity	90 days from the last date of submission of the proposal.
9	Amount of Bid Security	Rs. 6,50,000 (Indian Six Lakh Fifty Thousand Only) in the form of NEFT / RTGS / Bank Transfer in favour of Mangalore SEZ Limited, or an Unconditional Bank Guarantee issued on behalf of the Bidder by a Nationalised/Scheduled Bank (other than Co-operative Bank) in favour of MSEZL valid for a period up to 60 days beyond the validity of the proposal (i.e., 150 days from the proposal due date).
10	Performance Security	Total 10% of the Contract Price in the form of an Unconditional Bank Guarantee issued on behalf of Bidder by a Nationalised/Scheduled Bank (other than Co-operative Banks) in favour of Mangalore SEZ Limited to be provided within 10 days of receipt of the Letter of Intent & to be valid until contract completion and handing over all the assets in proper condition to MSEZL (Till obtaining NOC from MSEZL).
11	Price Reduction Schedule	<p>A. CETP</p> <p>The Contractor should treat the quantity indicated by Engineer-in-Charge on day-to-day basis up to maximum of 3.5 MLD of wastewater in every 24 hours cycle.</p> <p>“Disruption” is defined as either of the following conditions:</p> <ol style="list-style-type: none"> a) Failure to treat the quantity of effluent at CETP of maximum 3.5ML per day from different units. b) Failure to meet the outlet effluent quality as per CETP

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		<p>discharge standards prescribed by KSPCB/MoEF.</p> <p>c) Failure to monitor online analyser parameter installed at CETP outlet and if parameter exceeds more than discharge standards.</p> <p>d) Delay in i. Supplying of BOQ materials, ii. Attending major break downs</p> <p>e) Failure to maintain the chemical stocks (treatment as well as lab chemicals) as per the scope of work.</p> <p>f) Failure to arrange key personnel during absence.</p> <p>g) Contractor failed to deploy alternate suitable persons in case any regular employee goes on leave during shifts. Absence of manpower during operation leading to possible failure and safety issues arising out of this.</p> <p>h) Failure to pay the salary to the staff before 7th of every month.</p> <p>B. Marine Outfall Pump House and Pipeline System “Disruption” is defined as either of the following conditions: a) Failure to pump the quantity of treated effluent received from the different units. b) Receiving & pumping of treated effluent without ensuring the quality of treated effluent of different units as per prescribed discharge standards. c) Failure to monitor online analyser parameters installed at marine outfall outlet and if parameter exceeds more than discharge standards. d) Delay in i. Supplying of BOQ materials, ii. Attending major break downs e) Failure to arrange key personnel during absence f) Contractor fails to deploy alternate suitable persons in case any regular employee goes on leave during shifts g) Absence of manpower during operation, leading to possible failure and safety issues arising out of this. h) Failure to pay the salary to the staff before 7th of every month.</p> <p>C. Internal Sewerage Pumphouse “Disruption” is defined as either of the following conditions: a) Delay in i. Supplying of BOQ materials, ii. Attending major break downs b) Failure to arrange key personnel during absence c) Contractor failed to deploy alternate suitable persons in case any regular employee goes on leave during shifts d) Absence of manpower during operation leading to possible failure and safety issues arising out of this. e) Failure to pay the salary to the staff before 7th of every month.</p>

S. N.	Key Information	Details
		<p>In the event of any “Disruption” the Contractor will render himself liable for price reduction as follows:</p> <ol style="list-style-type: none"> One “Disruption” in a calendar month will attract a reduction of 3% of bill amount for the calendar month. Two “Disruptions” in a calendar month will attract a reduction of 7% of bill amount for the calendar month. Three “Disruptions” in a calendar month will attract a reduction of 10% of bill amount for the calendar month. More than three “Disruptions” in a calendar month will qualify as an event of default in addition to a price reduction of 15% of bill amount for the calendar Month. <p>*Note:</p> <ol style="list-style-type: none"> Prolonged power supply interruptions are exempted. The occurrence of force majeure events is exempted.
12	Mobilisation advance	5% of the first year O&M contract value as interest-free mobilization advance will be paid to the Contractor against production of unconditional bank guarantee issued on behalf of Bidder by a Nationalised/Scheduled Bank (other than Co-operative Banks) to MSEZL in amount equal to the advance payment.
13	Taxes and Cesses	Rates to be quoted shall be exclusive of all applicable taxes and cess except for Schedule C for which rates shall include all taxes and cesses.
14	Recovery of Mobilisation Advance	Recovery of Mobilization advance will be made in twelve equal monthly instalments.
15	Payment Terms	Contractor shall submit bills only once at the end of every calendar month by the 7 th of the following month. Payment will be made to the Contractor after certification of all undisputed items within 7 days of certification. The bill will be certified for payment within 14 days after its submission in full along with all relevant documents & Certificates.
16	Deduction of Advance Income Tax and Advance Works Contract Tax	As per the prevailing Tax Rules of the Government of India and the Government of the State of Karnataka
17	Signing of Agreement	Within 10 Days from the date of issue of Lol.
18	Important Dates	
a	Issue of Blank E-Tender Document	12/07/2024 to 06/08/2024 by Online Payment of Rs 11,800/- (Rupees Eleven Thousand Eight Hundred Only) INR including GST @ 12% by RTGS, NEFT remitted to Mangalore SEZ Limited Account No: 36335706882 of State Bank Of India, Corporate Accounts Group-II, New Delhi, IFSC Code: SBIN0017313
b	Due Date for Uploading the filled E-Tender Documents	Before 15.00 hrs on 08/08/2024
c	Opening of Technical Proposals	08/08/2024 at 16.00 hrs.
19	Opening of Financial Proposals	Price bids of only the technically qualified bidders will be opened on completion of evaluation of technical proposals.

S. N.	Key Information	Details
20	Payment of Wages	<p>The wages mentioned in the BOQ will be revised as and when they are revised by State Government. MSEZL will issue necessary change orders to revise the wages upon receiving request from the Contractor.</p> <p>The contractor must ensure that arrears on account of revised wages are paid to the staff and proof of such payment should be submitted to MSEZL.</p>
21	Termination	MSEZL may terminate the Contract in the event of default by the Contractor as per the clause No 40 of General Conditions of Contract.
22	Force Majeure	The term "FORCE MAJEURE" as employed in this contract shall mean wars (declared or undeclared) or revolutions, civil wars, tidal waves, fires, major floods, earthquakes, epidemics, quarantine restrictions and freight embargoes and transporters strikes affecting the country as a whole.
23	Procedure for resolution of Disputes	Disputes which are not resolved through amicable settlement shall be referred to a single Arbitrator appointed by the court as per Arbitration and Conciliation Act 1996.
24	Prevention of Sexual Harassment	<p>The contractor/Agency shall be solely responsible for full compliance with the provision of "The Sexual Harassment of Women at Work Place (Prevention, Prohibition and Redressal) Act 2013". In case of any complaint of sexual harassment against its employee within the premises of MSEZ, complaint will be filed before the Internal Committee constituted by the Contractor/Agency and the Contractor/Agency shall ensure appropriate action under the said Act in respect to the complaint. Any complaint of sexual harassment from any aggravated employee of the contractor against any employee of MSEZL shall be taken cognizance of by the Internal Committee constituted by MSEZL. The Contractor shall be responsible for any monetary compensation that may need to be paid in case the incident involves the employee, if sexual violence by the employee of the contractor is proved. The contractor shall be responsible for educating its employee about prevention of sexual harassment at work place and related issue. The contractor shall provide a complete and updated list of its employees who are deployed within MSEZ premises.</p>