

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 Clear Water Infrastructure (Treatment, Storage and Distribution System), Fire Water Pump house, TTP Water Infrastructure (Reservoirs, Pump House and Pipelines) & Marine Outfall System in MSEZ for a period of 1 year" Contract Package No-MSEZL/CW-FW-TTPW-MO/O&M/17-18**. 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 **07/09/2017 to 04/10/2017** by Online Payment of Rs. 15,000 plus GST @ 12% totalling to **Rs 16,800/- (Rupees Sixteen Thousand Eight Hundred Only)** 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 & Cesses
 - vii) Special Specifications
 - viii) Price Bid
 - ix) Annexures / Drawings

6. Scope of work will be but not limited to**a) Operation & maintenance of water infrastructure inside MSEZL as mentioned below**

- **Water Treatment Plant (WTP)** which treats river sourced water from Nethravathi & Gurupur Rivers. Some units of WTP units are for 80 MLD capacity (i.e., Cascade Aerator, Raw Water Channel, Parshall Flume, Flash Mixer, Distribution Chamber) and downstream units (i.e., Flocculators, tube settlers, filtration unit) for 60 MLD Capacity. Affiliated annex buildings like Chemical house, alum, lime and polyelectrolyte tanks, back wash water tank, chlorine dioxide dosing system and sludge disposal system are for 80 MLD capacity. All common components such as channels, piping and chambers are for 80 MLD capacities. However the maximum water to be treated during the O & M period will be 25 MLD in two shifts including all allied electro-mechanical works coming under WTP
- TTP treated water network of 400 mm Ø, 250 mm Ø & 200 mm Ø DI K-7 pipelines of total length of 4150m, treated river water network of 600mm Ø, 500 mm Ø, 300 mm Ø DI K -7 pipelines of total length of 4358m and 315 mm Ø HDPE pipeline for a length of 800 m inside MSEZ
- 120ML capacity treated river water reservoir and allied electro-mechanical works including electrical & instrumentation works

b) Operation & maintenance of fire water pump house and pipeline as mentioned below 24 x 7 basis

- Fire water pump house and allied Electro-Mechanical works including piping & instrumentation works
- Distribution system 457 mm Ø MS pipeline for fire water distribution for a length of 4358m
- 120ML capacity fire water reservoir and allied electro-mechanical works including electrical & instrumentation works

c) Operation & maintenance of 10 ML reservoir & pump house and pipelines as mentioned below for one shift

- 1 No 10 ML TTP Water Reservoir and Pump House at MSEZL and allied Electro-Mechanical works including electrical & instrumentation works
- TTP treated water pipeline of 1000 mm Ø DI K-7 pipeline of total length of 13000m & 800 mm, 1000 mm dia HDPE pipeline of total length 500m from Kavoor TTP to 10 ML Reservoir, 1000 mm Ø DI K-7 pipeline of total length 1200m from 10 ML reservoir to 120 ML reservoir and allied Electro-Mechanical works including electrical & instrumentation works. Among the pipeline and structures mentioned above, approximately 8500 m of 1000 mm dia DI pipeline and associated structures are located outside MSEZ notified area.

d) Operation & maintenance of marine outfall structures

- Including common outlet chamber, sump, pump house, 1000 mm dia DI pipeline from Marine Outfall Pump House to BPT for a length of 1600m, 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 and all electromechanical

installations, panels on 24 x 7 basis. Among the pipeline and structures mentioned above, approximately 1000m length of 1000 mm dia DI pipeline from Marine Outfall Pump House to BPT, 9500m length of 800 mm dia DI K-7 pipeline from BPT to landfall point and associated structures are located outside MSEZ notified area.

The scope of work includes maintenance of all electro-mechanical, instrumentation, civil works, piping and valves for the four components mentioned above for the smooth and reliable operation of the system for 1 year, including but not limited to the following:

- Ensure treated water conforming to the prescribed standards from WTP and distribution of TTP treated water and treated river water to the unit holders of MSEZL;
- Ensure the functioning of fire water pump house and distribution network as per the standards;
- Ensure pumping of water from 10 ML pump house to the reservoir and maintenance of associated pipeline;
- Uninterrupted 24x7 pumping of Treated effluent from units through BPT to marine outfall system after meeting the discharge standards prescribed by KSPCB/MoEF and third party lab analysis of sample of each unit treated effluent twice in a month;
- Providing all necessary skilled & semiskilled manpower of appropriate skills and unskilled manpower required for 24x7 operation of the complete system;
- Providing all necessary supervisory staff;
- Maintaining 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;
- Supply of minor spares and conducting all repairs (minor & major). Only major spares as listed out will be supplied/reimbursed by MSEZL;
- Supply of oil, lubricants and other consumables for operation and maintenance;
- Carrying out operation and maintenance (including lubrication, preventive maintenance, break down maintenance);
- Repair & maintenance of pumps, motors, pipelines, electrical items, control panels, valves, actuators, EOT cranes, etc., complete for smooth functioning of the system;
- Maintenance of substations and cable networks;
- Maintaining SCADA system and all instrumentation equipment;
- Maintenance of gardens and street lights;
- Ensuring compliance to all environmental, safety, health and statutory norms at all times;
- Maintaining good housekeeping and hygiene conditions;
- Provision of security personnel to ensure security of all the components;
- Provision of all necessary log sheets, MIS, records as determined by Engineer-in-Charge;
- Compliance of all statutory requirements including PF, ESI, minimum wages, labour laws etc;

- Ensure running of DG including all consumables in case of power failure in fire water pump house. Diesel cost at the rate published by IOCL will be reimbursed by MSEZL on production of proper certified log of shutting of power and running of DG. The payment will be made on a monthly basis. However, all other consumables including maintenance of DG will be in the scope of contractor.
- Maintaining the stores including insurance; and
- All incidental items of work, except power charges.

All the above works should 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 **05/10/2017**.
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,
Third Floor, MUDA Building,
Ashok Nagar, Urva store, Mangalore-575006
Karnataka State
Ph. No: 0824-2452750
Email: velnati.surya@gmail.com; ashwini.sez@gmail.com

9. The technical proposals uploaded by the tenderers will be opened at **16:00 hours** on **05/10/2017**
10. Price bids will be opened on completion of evaluation of technical proposals. Opening of price bids will be followed by e-reverse auction. Base price for e-reverse auction will be the lowest price evolved from price bid opening. The detailed procedure for e-reverse auction will be intimated to the bidders in advance. However, MSEZL reserves the right not to conduct e-reverse auction and can select the lowest bidder based on the price bids received.
11. If no qualified bidder participates in the e-reverse auction within the specified time or if the lowest bid received at the end of the e-reverse auction is high and not acceptable to MSEZL, then MSEZL at its sole discretion may decide to negotiate with lowest bidder for obtaining an acceptable offer.
12. 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: 06/09/2017

**Chief Operating Officer
MSEZL, Mangalore**

2. **BIDDING DATA**

S. N.	Key Information	Details
1.	Project Title	"Operation & Maintenance of Clear Water Infrastructure (Treatment, Storage and Distribution System), Fire Water Pump house, TTP Water Infrastructure (Reservoirs, Pump House and Pipelines) & Marine Outfall System in MSEZ for a period of 1 year" Contract Package No - MSEZL/CW-FW-TTPW-MO/O&M/17-18
2.	Owner	Mangalore SEZ Limited (MSEZL)
a)	Brief Scope of Works	<p>a) Operation & maintenance of water infrastructure inside MSEZL as mentioned below</p> <ul style="list-style-type: none"> • Water Treatment Plant (WTP) which treats river sourced water from Nethravathi & Gurupur Rivers. Some units of WTP units are for 80 MLD capacity (i.e., Cascade Aerator, Raw Water Channel, Parshall Flume, Flash Mixer, Distribution Chamber) and downstream units (i.e., Flocculators, tube settlers, filtration unit) for 60 MLD Capacity. Affiliated annex buildings like Chemical house, alum, lime and polyelectrolyte tanks, back wash water tank, chlorine dioxide dosing system and sludge disposal system are for 80 MLD capacity. All common components such as channels, piping and chambers are for 80 MLD capacities. However the maximum water to be treated during the O & M period will be 25 MLD in two shifts including all allied electro-mechanical works coming under WTP • TTP treated water network of 400 mm Ø, 250 mm Ø & 200 mm Ø DI K-7 pipelines of total length of 4150m, treated river water network of 600mm Ø, 500 mm Ø, 300 mm Ø DI K -7 pipelines of total length of 4358m and 315 mm Ø HDPE pipeline for a length of 800 m inside MSEZ • 120ML capacity treated river water reservoir and allied electro-mechanical works including electrical & instrumentation works <p>b) Operation & maintenance of fire water pump house and pipeline as mentioned below 24 x 7 basis</p> <ul style="list-style-type: none"> • Fire water pump house and allied Electro-Mechanical works including piping & instrumentation works • Distribution system 457 mm Ø MS pipeline for fire water distribution for a length of 4358m • 120ML capacity fire water reservoir and allied electro-

S. N.	Key Information	Details
		<p>mechanical works including electrical & instrumentation works</p> <p>c) Operation & maintenance of 10 ML reservoir & pump house and pipelines as mentioned below for one shift</p> <ul style="list-style-type: none"> • 1 No 10 ML TTP Water Reservoir and Pump House at MSEZL and allied Electro-Mechanical works including electrical & instrumentation works • TTP treated water pipeline of 1000 mm Ø DI K-7 pipeline of total length of 13000m & 800 mm, 1000 mm dia HDPE pipeline of total length 500m from Kavoor TTP to 10 ML Reservoir, 1000 mm Ø DI K-7 pipeline of total length 1200m from 10 ML reservoir to 120 ML reservoir and allied Electro-Mechanical works including electrical & instrumentation works. Among the pipeline and structures mentioned above, approximately 8500 m of 1000 mm dia DI pipeline and associated structures are located outside MSEZ notified area. <p>d) Operation & maintenance of marine outfall structures</p> <ul style="list-style-type: none"> • Including common outlet chamber, sump, pump house, 1000 mm dia DI pipeline from Marine Outfall Pump House to BPT for a length of 1600m, 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 and all electromechanical installations, panels on 24 x 7 basis. Among the pipeline and structures mentioned above, approximately 1000m length of 1000 mm dia DI pipeline from Marine Outfall Pump House to BPT, 9500m length of 800 mm dia DI K-7 pipeline from BPT to landfall point and associated structures are located outside MSEZ notified area. <p>The scope of work includes maintenance of all electro-mechanical, instrumentation, civil works, piping and valves for the four components mentioned above for the smooth and reliable operation of the system for 1 year, including but not limited to the following:</p> <ul style="list-style-type: none"> • Ensure treated water conforming to the prescribed standards from WTP and distribution of TTP treated water and treated river water to the unit holders of MSEZL; • Ensure the functioning of fire water pump house and

S. N.	Key Information	Details
		<p>distribution network as per the standards;</p> <ul style="list-style-type: none"> • Ensure pumping of water from 10 ML pump house to the reservoir and maintenance of associated pipeline; • Uninterrupted 24x7 pumping of Treated effluent from units through BPT to marine outfall system after meeting the discharge standards prescribed by KSPCB/MoEF and third party lab analysis of sample of each unit treated effluent twice in a month; • Providing all necessary skilled & semiskilled manpower of appropriate skills and unskilled manpower required for 24x7 operation of the complete system; • Providing all necessary supervisory staff; • Maintaining 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; • Supply of minor spares and conducting all repairs (minor & major). Only major spares as listed out will be supplied/reimbursed by MSEZL; • Supply of oil, lubricants and other consumables for operation and maintenance; • Carrying out operation and maintenance (including lubrication, preventive maintenance, break down maintenance); • Repair & maintenance of pumps, motors, pipelines, electrical items, control panels, valves, actuators, EOT cranes, etc., complete for smooth functioning of the system; • Maintenance of substations and cable networks; • Maintaining SCADA system and all instrumentation equipment; • Maintenance of gardens and street lights; • Ensuring compliance to all environmental, safety, health and statutory norms at all times; • Maintaining good housekeeping and hygiene conditions; • Provision of security personnel to ensure security of all the components; • Provision of all necessary log sheets, MIS, records as determined by Engineer-in-Charge; • Compliance of all statutory requirements including PF,

S. N.	Key Information	Details
		<p>ESI, minimum wages, labour laws etc;</p> <ul style="list-style-type: none"> • Ensure running of DG including all consumables in case of power failure in fire water pump house. Diesel cost at the rate published by IOCL will be reimbursed by MSEZL on production of proper certified log of shutting of power and running of DG. The payment will be made on a monthly basis. However, all other consumables including maintenance of DG will be in the scope of contractor. • Maintaining the stores including insurance; and • All incidental items of work, except power charges. <p>All the above works should be carried out under the overall direction of the Engineer-in-Charge whose decision would be final and binding in all matters.</p>
3.	Time Period	Time frame will be Twelve Months from the date of issue of Work Order.
4.	Financial Turnover in any one of the last three financial years ending with 2016-17	<p>Annual Turnover should be min of Rs 2.15 Crores (The bid must be accompanied by the Annual Reports of the preceding three years of the bidder to fulfil the above financial criteria and separate certificate issued by the Chartered Accountant showing the Annual Turnovers for the last three financial years).</p> <p>Note: The Chartered Accountant signature should bear his Membership Number also.</p> <p>All copies of certificates should be notarised.</p>
a)	Net Worth	<p>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.</p> <p>Note: The chartered Accountant signature should bear his Membership Number also. All copies of certificates should be notarised.</p>
5.	Technical Qualification Requirements	<ul style="list-style-type: none"> • The Firm / Company shall be a specialized firm in O&M of WTP/STP/TTP/CETP/ETP & satisfactorily producing treated water to prescribed standards for a period not less than one year in the last three years reckoned up to the last date of submission of tenders from any of the following: • One water treatment plant of min 15 MLD capacity, OR • One STP/TTP/CETP/ETP/Desalination Plant of minimum 25 MLD capacity

S. N.	Key Information	Details
		<p style="text-align: center;">AND</p> <ul style="list-style-type: none"> • The firm should have operated and maintained at least one pumping station for a period not less than one year in the last three years reckoned up to the last date of submission of tenders. • Sub-Contractor may be considered for the limited purpose of O&M of pumping stations as well as maintenance of rising mains. However Sub-Contractor experience and resources shall not be taken into account in determining the Tenderers' compliance with the qualifying criteria except to the extent stated in this para. • 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. The Bidders need to provide the same during the stage of technical evaluation. <p>(Note: 1. Experience Certificate shall include actual cost of work completed with date of completion which means successfully operated & maintained the plant for not less than one year during the last three year period reckoned from the Proposal Due Date</p> <ul style="list-style-type: none"> • The Bidders need to furnish the 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.
6.	Proposal Validity	90 days from the last date of submission of the proposal.
7.	Amount of Bid Security	Rs. 7,15,000 (Indian Rupees Seven Lakhs Fifteen Thousand Only) in the form of a Bank Draft drawn in favour of

S. N.	Key Information	Details
		Mangalore SEZ Limited payable at Mangalore, 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)
8.	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).
9.	Price reduction Schedule	<p>1) For WTP and Treated river water and TTP water distribution System</p> <p>The Contractor is expected to treat the quantity indicated by Engineer in Charge on a day to day basis up to maximum of 25 MLD of water every day in 16 hours cycle</p> <p>“Disruption”* is defined as either of the following conditions:</p> <ol style="list-style-type: none"> Failure to treat the quantity of water as specified above. Failure to treat the water as per designed outlet parameters. Not attending to any major breakdowns and failing to restore water supply within prescribed time as determined in consultation with MSEZL. Absence of manpower during operation leading to possible failure and safety arising out of this. <p>2) For Fire Water Pump house and Pipeline System</p> <p>“Disruption”* is defined as either of the following conditions:</p> <ol style="list-style-type: none"> Failure not to maintain sufficient pressure in the line as per the standards. Not attending to any Major breakdowns and failing to restore water supply within prescribed time as determined in consultation with MSEZL. Absence of manpower during operation leading to possible failure and safety arising out of this. <p>3) For 10 ML Reservoir, Pump house and Pipeline</p> <p>“Disruption”* is defined as either of the following</p>

S. N.	Key Information	Details
		<p>conditions:</p> <p>a) Not attending to any major breakdowns and failing to restore water supply within prescribed time as determined in consultation with MSEZL.</p> <p>b) Absence of manpower during operation leading to possible failure and safety arising out of this.</p> <p>4) Marine Outfall Pump House and Pipeline System</p> <p>“Disruption”* is defined as either of the following conditions:</p> <p>a) Failure to pump the quantity of water received from the units.</p> <p>b) Receiving & pumping of treated effluent without ensuring the quality of treated effluent as per prescribed discharge standards.</p> <p>c) Not attending to any Major breakdowns and failing to restore pumping of water within prescribed time as determined in consultation with MSEZL.</p> <p>d) Absence of manpower during operation leading to possible failure and safety arising out of this.</p> <p>In the event of any “Disruption” the Contractor will render himself liable for price reduction as follows:</p> <p>a) One “Disruption” in a calendar month will attract a reduction of 3% of bill amount for the calendar month.</p> <p>b) Two “Disruptions” in a calendar month will attract a reduction of 7% of bill amount for the calendar month.</p> <p>c) Three “Disruptions” in a calendar month will attract a reduction of 10% of bill amount for the calendar month.</p> <p>d) 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> <p>*Note:</p> <p>1) Prolonged power supply interruptions are exempted.</p> <p>2) Non availability of water / restriction of drawl of water arising out of any orders or instructions from Government of Karnataka or Government of India or District Administration for reasons not attributable to contractor.</p> <p>3) The occurrence of force majeure events is exempted.</p>
10.	Mobilisation advance	5% of the first year O&M Contract value as interest-free advance payment as a mobilization advance will be paid to

S. N.	Key Information	Details
		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 amounts equal to the advance payment.
11.	Taxes and Cesses	Rates to be quoted shall be exclusive of all applicable taxes and cess for works under Schedule A, B C & E of BOQ. Rates to be quoted shall be inclusive of all applicable taxes and cess for works under Schedule D & F of BOQ.
12.	Recovery of Mobilisation Advance	Recovery of Mobilization advance will be made in ten equal monthly instalments.
13.	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.
14.	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
15.	Signing of Agreement	Within 10 Days from the date of issue of Lol.
16.	Important Dates	
(a)	Issue of Blank E- Tender Document	07/09/2017 to 04/10/2017 by Online Payment of Rs. 15,000/- (Rupees Fifteen Thousand Only) INR plus GST @ 12% (total Rs 16,800/-) 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 05/10/2017
(c)	Opening of Technical Proposals	05/10/2017 at 16.00 hrs.
(d)	Opening of Financial Proposals	Price bids of technically qualified bidders will be opened on completion of evaluation of technical proposals. Opening of price bids will be followed by e-reverse auction. Base price for e-reverse auction will be the lowest price evolved from quoted cost from price bid opening. The detailed procedure for e-reverse auction will be intimated to the bidders in advance. However, MSEZL reserves the right not to conduct e-reverse auction and can select the lowest bidder based on the price bids received. If no qualified bidder participates in the e-reverse auction within the specified time or if the lowest bid received at the

S. N.	Key Information	Details
		end of the e-reverse auction is high and not acceptable to MSEZL, then MSEZL at its sole discretion may decide to negotiate with lowest bidder for obtaining an acceptable offer.
17.	Termination:	MSEZL may terminate the Contract in the event of default by the Contractor as per the clause No 41 of General Conditions of Contract.