

COCHIN SPECIAL ECONOMIC ZONE AUTHORITY

XXXIII Meeting (Special)

Date : **16-08-2019**
Time : **11 .30 a.m.**
Venue : **CSEZ Admn. Building**

CSEZA AGENDA
XXXIII Meeting (Special)
Date: 16.08.2019

COCHIN SPECIAL ECONOMIC ZONE AUTHORITY (CSEZA)
XXXIII MEETING (SPECIAL) OF THE COCHIN SPECIAL ECONOMIC ZONE
AUTHORITY FRIDAY THE 16TH AUGUST, 2019.

AGENDA

Sl. No	Item	Page Nos.
C-i	Setting up of ZLD Plant with RO including Reject Management.	3-4
D	Any other item approved by Chairman	4

CSEZA AGENDA
XXXIII Meeting (Special)
Date: 16.08.2019

C: AGENDA ITEMS

(i) Setting up of ZLD Plant with RO including Reject Management.

The Zero Liquid Discharge (ZLD) is a process which uses advanced technology to purify and recycle all of the wastewater produced in an industrial area, thereby limiting the waste water to Zero. The Cochin SEZ (CSEZ) which houses about 137 Units, generates roughly 10Lakh liters of waste water a day, which is currently treated in a conventional Common Effluent Treatment Plant. WAPCOS was instructed to initiate a feasibility study on the reuse of treated water. WAPCOS engaged the National Environmental Engineering Research Institute (NEERI), a scientific research institute under CSIR, who have domain expertise in the field of waste water treatment. NEERI, in its report, suggested setting up of ZLD plant in CSEZ. The foundation stone for the project was laid by the Hon'ble Union Minister Shri Suresh Prabhu on 8th December 2018.

M/s WAPCOS vide their letter No.WAP/ENVT/H 3082/IWMS/ZLD-RO/2018-19 dated 22-02-2019 submitted a Detailed Project Report (DPR) for design, Engineering, Civil work, supply, Installation, Testing , Commissioning of Zero Liquid Discharge (ZLD) System with Reverse Osmosis (RO) including Reject Management, for implementing in CSEZ. The proposed ZLD plant is based on biological treatment of 1MLD capacity. The proposed total capital cost for implementing the project is given as Rs.23.5 Cr. which includes 0.38 Cr. contingency charges and 1.12 Cr. PMC charges to WAPCOS. The O&M cost is in the order of Rs. 162.5 per KL. In addition to this the cost against the statutory clearance such as consent to establish, operate, approval for boiler has to be borne by CSEZA. The project is expected to be completed in 8 Months.

The following are the breakup of the capital investment:-

S No.	Description	Cost(Rs.)
A	Plant and Machineries	
1	Pre Treatment	1,09,83,720.00
2	Biological Treatment, MBR, Softner, Degaser, RO, Staurator, Ultrafiltration, RO IV	10,20,98,670.00
3	Reject Management (MEE)	1,98,75,000.00
4	Belt Press	56,16,675.00
5	Boiler and Other Accessories for MEE	46,50,000.00
6	Under ground pipes and cabling	5,00,000.00
B	Civil Works	7,18,11,534.00
C	Collection and Conveyance System	37,38,000.00
D	Electrical Work inside the plant	7,00,085.00
	Total	21,99,73,684.00
E	Contingency @ 5% on (B,C,D)	38,12,480.95
F	Sub Total	22,37,86,164.95
	Design and PMC Charges @ 5% on F	1,11,89,308.25
	Grand Total	23,49,75,473.20 Say Rs.23.5 Crore

CSEZA AGENDA
XXXIII Meeting (Special)
Date: 16.08.2019

WAPCOS was directed to initiate tender procedures. The tender procedure for civil works has already been completed and work order has been issued on 14-06-2019. The work has been awarded to the lowest bidder M/s E.M. Mani Construction (P) Ltd. who started the work on 14-07-2019.

Also, the tender procedure has been completed in respect of Plant and Machinery part of R.O. System (Biological Treatment, MBR, Softener, De-gaser, RO, Staurator, Ultrafiltration, RO IV, Belt Press and UG Pipe & Cabling). The estimated cost for the component was 10.82 cr excluding PMC. The breakup of the cost is given below:

S No.	Description	Cost(Rs.)
1	Biological Treatment, MBR, Softener, Degaser, RO, Staurator, Ultrafiltration, RO IV	10,20,98,670.00
2	Belt Press	56,16,675.00
3	Underground pipes and cabling	5,00,000.00
	Total	10,82,15,345.00

It is seen that only one firm (M/s. Innovation water treatment and recovery services in association with M/s. Europrogetti SRL) participated in the tender process even after giving sufficient time (5 weeks). The total cost quoted by them is Rs.10.10 crore excluding PMC.

WAPCOS has informed that the tendering process satisfies the Rule 173 (XX) of GFR 2017 and the Standing Tender Committee (STC) of WAPCOS at New Delhi has approved the proposal on 01.08.2019

In view of the above the proposal is submitted for approval of the following:

S No.	Description
A	Total estimated cost of Rs.23.5 Crore including PMC for the project
1	Civil work for the project at a cost of Rs.7,24,64,370/-excluding PMC.
2	Award of work of Plant and Machinery part of R.O. System for Rs.10.10 Crore excluding PMC for single tender which qualifies GFR conditions to M/s Innovation water treatment and recovery services in association with M/s Europrogetti SRL.

The proposal is placed before the Authority for consideration.

D. Any other items approved by Chairman.

To Balance part of Road work inverts
CSEZ
approved by CSEZA