

	<p style="text-align: center;">इचलकरंजी महानगरपालिका, इचलकरंजी (जिल्हा कोल्हापूर) भारतरत्न अटल बिहारी वाजपेयी चौक, स्टेशन रोड, इचलकरंजी - ४१६११५ कार्यालय फोन नं. २४२१४५१ ते ५५ ई -मेल : ichalkaranjinp@gmail.com वेबसाईट :- https://ichalkaranjimnp.in/</p>	
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जा.क्र./इमपा/पापुवि/प्र.क्र. / २५४० /२०२५

दि. २५/११/२०२५

जाहिर निविदा दरपत्रक सूचना

मा. आयुक्त, इचलकरंजी महानगरपालिका यांचे आदेशान्वये खालील नमूद कामाचे अंदाजपत्रक बनविण्याकरीता खालील नमूद बाबींचे दर मागविण्यात येत आहे.

अ.क्र.	कामाचे नाव	कालावधी
1.	इचलकरंजी महानगरपालिका हद्दीतील बागांना पुनर्वापरित पाण्याचे वितरण इत्यादीसह तृतीयक प्रक्रिया संयंत्र (TTP) क्षमता: ७ MLD च्या तपशीलवार प्रकल्प अहवालासाठी अर्थसंकल्पीय प्रस्ताव सेवा प्रदान करणे	दिनांक- २५/११/२०२५ ते दि- ०२/१२/२०२५

**PROJECT NAME: CONSTRUCTION OF TERTIARY TREATMENT PLANT (TTP) OF
७.० MLD(PERMEATE) AND ALLIED INFRASTRUCTURE AT
ICHALKARANJI MUNICIPAL CORPORATION-**

A) Item Description

S.N.	Item Description	TTP Capacity in MLD	Amount in Rs. Excl. GST
१	Design, Supply, Installation, Testing and Commissioning of Electromechanical, Instrumentation components, hydraulic testing, commissioning and giving satisfactory trials pertaining Tertiary Treatment Plant (TTP) having ability to treat treated sewage water of SBR based STP outlet water from Chlorine contact tank (CCT) to required outlet water quality parameters mentioned below. The Scope of tertiary treatment plant include UF feed pumps, EOT for UF feed Pump, strainer, submerged membrane module, Filtrate transfer pump with VFD, all backwash Systems pumps, piping, valves, controllers, blowers, compressors, instrumentations and PLC, SCDA required for UF membrane and each components of UF system, Ultraviolet system as CIP system, , with necessary hydraulic and Electro-mechanical accessories, piping, valves, gates, instrumentations having suitable specification to achieve desired plant capacity,	७.० (Permeate)	

S.N.	Item Description	TTP Capacity in MLD	Amount in Rs. Excl. GST
	excluding all civil works like foundation, excavation internal roads, storage tanks, buildings, structure, etc., the unit should have SCADA system with remote monitoring facility, embedded AI (Artificial Intelligence) system with real time data for sensors and instruments to optimize operation parameters of system.		

B) Detailed Technical Specification

The Specification of TTP is as follows:

QUALITY OF TREATED SEWAGE AT CCT OUTLET AS PER EXISTING SBR GUARANTEED PARAMETER: -

Influent quality

Sr. No.	Parameters	CCT Outlet
१	pH	५.५ - ९.०
२	BOD	१० mg/L
३	TSS	१० mg/L
४	COD	५० mg/L
५	TN	१० mg/L
६	TP	१.० mg/L
७	Faecal Coliform MPN/१०० mL	Desirable -१०० Permissible -२३०

TERTIARY TREATED WATER CHARACTERISTICS TO BE ACHIEVED AFTER UF & UV TREATMENT: -

Effluent quality

Sr. No.	Parameters	TTP output quality
१	Turbidity (NTU)	< २
२	SS	As Arising
३	TDS	< २१०० mg/l
४	pH	६.५ to ८.५
५	Temperature	Ambient
६	Oil & Grease	Nil

Sr. No.	Parameters	TTP output quality
၅	TN	< ၃၀ mg/l
၆	BOD	< ၃ mg/l
၇	COD	As Arising
၈	TP	၃ mg/l
၉	Minimum Residual Chlorine	၀.၄ mg/l
၁၀	Faecal coliform in ၃၀၀ ml	Nil
၁၁	Helminthic Eggs/ litre	As Arising
၁၂	Colour (Colour or Hazen Units)	Colourless
၁၃	Odour	Aseptic which means not specific and no foul odour

Technical Specifications

The following table shows the list of indicative and minimum equipment for the proposed Tertiary treatment plant (TTP), The Contractor shall include any other equipment not mentioned in the table below and required for the completion & commissioning of the plant.

It is expected that the Filtrate Storage tank should be an Underground tank with capacity ၄.၄၀ LL.

Sr. No.	Particulars	Specifications	Qty.
	၅.၀ MLD water after UF (Permeate)		
A.	Pumping & Pretreatment Unit		
၁	UF feed Pump with VFD	Submersible MOC- CI (Casing - Impeller) Shaft- SS၃၀၄ with minimum ၄၀% standby	As per process requirement
၂	Strainer	For ၅ MLD + Return flow/Reject Flow ၃၀၀ /၃၀၀-micron size, SS ၃၀၄ Wetted parts	For each pump outlet
၃	EOT for UF feed Pump	၃ Ton or as per your requirement	
B.	Submerged UF membranes		
၁	Submerged UF membranes with Housing, piping, tank accessories, complete	Ceramic Flat plate MOC: Al ₂ O ₃ /SiC Material, Pore size: ၀.၀၅-၀.၀၅ Micron	Suitable quantity as per the membrane supplier, not exceeding the

Sr. No.	Particulars	Specifications	Qty.
			Maximum instantaneous flux of 204LMH
२	UF tank in RCC with Chemical resistant lining	Suitable or as per your requirement	Nos. as per process requirement, Size shall be mentioned, construction cost shall not be considered in offer.
३	UF Backwash drain Sump in RCC with Epoxy paint	Double the volume of individual membrane tank	१W Nos. Size shall be mentioned, construction cost shall not be considered in offer.
C.	Filtrate Transfer/Permeate Pump		
१	Filtrate transfer pump with VFD	Horizontal Centrifugal type MOC: SS ३१६ (Casing - Impeller) Shaft SS४३१	
D.	Backwash System		
१	Filtrate Backwash Pump with VFD	Submersible type MOC:	
२	Backwash Waste Transfer Pump	Submersible type MOC: Casing- Ci Impeller, Shaft — SS	
३	Neutralization transfer pump	Submersible type MOC: Casing- CI Impeller, Shaft — SS	
E.	MAINTENANCE WASH (MW) & CLEAN IN PLACE (CIP) CLEANING		
	Sprinkler Pump for membranes	Horizontal Centrifugal type MOC- CI/ SS३१६	
	Sodium Hypochlorite (NaOCl) Dosing Pump	MOC: PP/PTFE	
	Hydrochloric Acid Dosing Pump	MOC: PP/PTFE	
	Citric Acid Dosing Pump	MOC: PP/PTFE	
	Sodium Hydroxide Dosing pump	MOC: PP/PTFE	
	Sodium Bisulphite Dosing Pump	MOC: PP/PTFE	

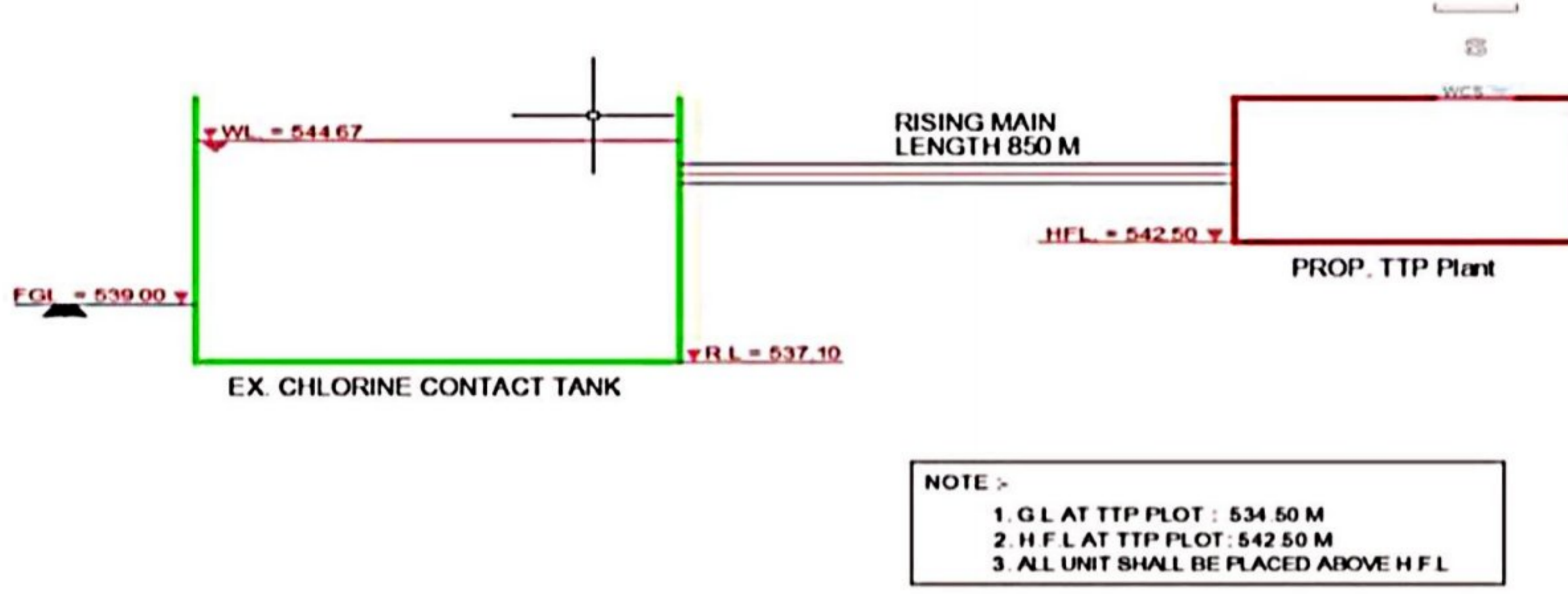
Sr. No.	Particulars	Specifications	Qty.
F.	Air Scouring		
१	Air Blower with VFD	Rotary type blower MOC- CI	
G.	Air Compressor		
१	Air Compressor	Rotary screw MOC- CI	
H	INSTRUMENTS		
१	Level Transmitters	Hydrostatic for each Membrane tank	
२	Level Switch	Suitable	
३	Flow Transmitters	Suitable	
४	pH meter	Suitable	
५	Temperature Transmitter	Suitable	
६	Pressure Indicator	-१bar to +१ bar range	
७	Pressure Transmitter	-१ bar to +१bar range	
८	Pressure Switch	Suitable	
९	Turbidity meter	Suitable	
१०	Pressure Guage	Suitable	
I	Others		
१	Interconnecting Piping, Gates and Valves	As per Process requirement	
२	Inspection Platform with electric winch for UF system	As per best O&M practices	
J	Ultraviolet System	Medium pressure High intensity UV arc tubes shall be provided for disinfection. Each lamp shall operate between ५०%-१००% power. Total Viral Load to at least ४ log and Total Coliform to ५ to ६ log. १०० % membrane replacemnet unconditional warrenty for १५ years if there is any breakage in membrane	१ Nos

Electrical Equipment

Sr. No	Description (with suitable quantity)
१	Motor Control Centre.
२	Power & Control Cables with Cable Termination Kits etc. complete.
३	Cable Trays with Fittings, Hardware & Supports etc. complete.
४	Earthing including Earthing Pits, Earthing Materials (GI/Copper Earthing Strips,

	Earthing Cables, Hardware) etc. complete.
५	Local Push Button Stations, Junction Boxes with Accessories, Hardware etc. complete.
६	Plant Lighting (Inside Buildings and Plant Area) including Lighting Panel, Lighting Distribution Boards, Lighting Poles, Fitting & Fixtures, Cables, Hardware etc. complete

Cost should include everything.



C) Details to be Submitted along with budgetary quotation/offer

- Detailed Process calculations, Hydraulic flow drawing, Plant layout, Cross sectional drawing showing all the units with size requirements.
- GAD drawings of TTP units
- Chemical consumption and associated cost during O&M
- Electrical loas list
- Detailed inclusion and exclusion list of items from the offer.
- Any miscellaneous items to be considered above offer.

अटी व शर्ती :-

- सीलबंद दरपत्रके दिनांक- दिनांक- २५/११/२०२५ ते ०२/१२/२०२५ रोजीपर्यंत दुपारी ३.०० वाजेपर्यंत इचलकरंजी महानगरपालिकेच्या पाणीपुरवठा विभागात किंवा ichalkaranjinp@gmail.com या ई-मेलवर स्वीकारण्यात येतील.
- सदरचे दरपत्रक हे अंदाजपत्रक बनविण्यासाठी असून सदर कामांवर Manufacturer चा दावा (Claim) असणार नाही.
- पुरवठादार/उत्पादककार/संबंधित यांनी दिलेले दरपत्रक स्विकारणाचे सर्व अधिकार इचलकरंजी महानगरपालिकेकडे असतील याची नोंद घ्या

Digitally signed by
Sushma Ganesh Shinde
Date: 25-11-2025
16:23:56 आयुक्त
इचलकरंजी महानगरपालिका

प्रत माहितीस्तव :-

- इचलकरंजी महानगरपालिका माहिती फलककरीता