



PTC/2024-25-STP/214/R0

DATE: 12/06 -2024

M/s. PALOMA REALITY

Adhale Bk, Maval, Pune, Maharashtra 410506

Kind Attention : Mr. GOPAL VARMA

Subject : Techno-commercial offer for 110 KLD Sewage Treatment Plant

proposed at your site based on MBBR technology.

Dear Sir,

This has reference to your inquiry regarding requirement of 110 KLD Sewage Treatment Plant. As desire, we have attached herewith the techno-commercial proposal for the same.

The following annexure form a part of this offer.

- Annexure - I : Design Parameters
- Annexure - II : Scope of Supply
- Annexure - III : Bought Out Make List
- Annexure - IV : Schedule of Exclusion
- Annexure - V : Price
- Annexure - VI : Commercial Terms & Condition

In case you have any queries please feel free to contact us.

Looking forward to receive your valuable order and assures you our best service.

Yours faithfully,

PTC WATERTECH LLP.

Shreya Shinde, PTC Pune...

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TECHNO-COMMERCIAL OFFER
FOR
SEWAGE TREATMENT PLANT
BASED ON MBBR TECHNOLOGY
(CAPACITY - 110 KLD)

BY



PTC WATERTECH LLP.

Office No. 303, Gera Garden, Building No. 1, Koregaon Park,

Pune, Maharashtra - 411001

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DESIGN PARAMETERS**1. DESIGN BASIS**

Nature of Waste Water		SEWAGE
Working Hours		20-24 hrs/Day
Sr. No.	Scheme	Capacity
1.	Sewage Treatment Plant	110 KLD

PARAMETER**A. INLET PARAMETERS**

Sr. No.	Parameters	units	Value
1.	pH	----	5-9
2.	TSS	mg/L	350-350
3.	COD	mg/L	300-500
4.	BOD (3 days @ 27°C)	mg/L	250-350
5.	Oil & Grease	mg/L	≤ 30

B. OUTLET QUALITY AFTER STP

Sr. No.	Parameters	units	Value
1.	pH	----	6.0 – 8.0
2.	TSS	mg/L	≤ 10
3.	COD	mg/L	≤ 30
4.	BOD (3 days @ 27°C)	mg/L	≤ 10
5.	Oil & Grease	mg/L	≤ 5

C) ASSUMPTIONS

- 1) The plant is designed to operate at $\pm 10\%$ variation in raw wastewater parameter.
- 2) No other parameters other than mentioned above is present in the raw wastewater which is beyond Pollution Control Norms and hazardous to microorganisms.
- 3) Treated water quality will be achieved if the inlet raw water quality is as per the raw water quality mentioned as well as no other pollutant than the mentioned, is present or exceeds the limits or which is hazardous in nature, which otherwise may affect the biological treatment process.

PROCESS DESCRIPTION

To have eco-friendly & natural treatment, this plant is designed based on the biological treatment concept. This means naturally occurring microbes (which are present in influent water itself) removes or degrade the organic matter present in the influent & at the end clean water is available for the non potable usage or to dispose safely in the drainage or river bodies as per the norms.

1. Pre - Treatment

Screening : This is the first units of the plant in which large or floating materials in the influent gets arrested and blockage or choking of the downstream equipment's can be avoided. This arrested material will be removed manually and then will be disposed off suitably

Equalization : To absorb variation in quantity and quality of influent and to provide uniform flow at the downstream treatment process, a collection or equalization tank is provided. This will avoid shock loading and process upsets of the treatment plant. To avoid settling of suspended solids in this tank continues air agitation is provided.

If at site, septic tank is provided then collection tank as well as air agitation is not required.

2. Secondary Treatment

Biological Treatment: This is the main section of the plant where degradation of organic pollutants with the help of aerobic micro-organism takes place.

To maintain the aerobic condition in the bioreactor, air supply arrangement is provided by means of aeration equipment which has high oxygen transfer efficiency.

Tube Settler : Gravity overflow from the bioreactor is collected in the tube settler tank. In this settling tank, generated sludge from the bioreactor undergoes a gravity settling. Clear supernatant from settling tank will flow by gravity to a chlorine contact tank.

To reduce the plan area of settling tank, tube modules are placed in this tank to increase the settling area of the tank. Since this tank is a hopper bottom tank due to which there is no need of sludge scrapping mechanisms.

Disinfection : Supernatant from Tube settler, flow by gravity to the chlorine contact tank. To disinfect the harmful bacteria in the treated water as well as to remove the refractory organics from treated water, in this tank hypo chlorite solution is dosed with the help of dosing system.

Sludge disposal system: Settled sludge from tube settler will be removed by pumping to the

3. Tertiary treatment:

Secondary treated water will be further passed through sand media filter followed by activated carbon filter.

Filtered water will be collected in the Irrigation water tank from where it will be for desired non potable application. Backwashed water from filters will return back to equalization tank.

If influent treated & operated properly this effluent treatment plant will give enormous benefits such as

- It will avoid the water pollution
- It will help us to give hygienic surrounding
- After required treatment, treated water can reduce our 60-70 % fresh water requirement, which otherwise we use for toilet flushing, gardening, construction etc. Thus we can save a lot on water expenditure as well as provide us a remedy on present water crises,
- Being a water recycling & conservation system, commercial establishment gets depreciation benefits for promoting green & eco-friendly development.

Above all, we will be ensuring safe & hygienic environment to our society.

Advantages of treatment scheme

- This plant will produce the treated water which can be recycled back.
- This plant is based on biological principle hence no need use of any excessive hazardous chemicals for the main degradation process.
- Due to efficient aeration system, electrical power requirement is very low.
- Due to user friendly equipment, plant maintenance is very less.
- Due to inbuilt automation, plant machinery life is high & ensures trouble free operation
- All process rotating electromechanical equipment is provided with standby equipment to ensure the uninterrupted operation.
- Due to effective after sales service from our qualified staff, maintenance issues to the owner are less.

LEVEL OF AUTOMATION:

The plant is designed based on moving media aerobic process which needs no skilled manpower. The operations involved are ON / OFF of the pumps and air blower, sludge drain, filter backwash. These operations can be done by the security or gardener. The pumps are provided with level

switch for ON /OFF based on Program & the tank water level and to avoid dry run and mechanical damage. This is SEMI-AUTOMATIC.

ANNEXURE - III

SCOPE OF SUPPLY

1. BAR SCREEN

MOC	MSEP
Type	Bar
Bar Spacing	5 mm & 10 mm
Quantity	02 Nos.

2. SEWAGE TRANSFER PUMP

Type	Self-Priming, Centrifugal, Non-clog
Capacity	5 m ³ /hr @ 10m head
MOC	CI
Quantity	2Nos. (1W+1SB)

3. AIR BLOWER

Air Blower Type	Twin Lobe, rotary
Capacity	150 m ³ /hr air flow @ 0.4 Kg/cm ²
Duty	Air supply to EQT, AT
MOC	CI
Quantity	2Nos. (1W+1SB)

4. AIR GRID WITH AIR BLOWER PIPING

Quantity	1 set
Location	For ET, AT
MOC	UPVC
Type	Sch 40
Size	As per requirement
Air Blower piping	1 set
Outside water	MSEP
Type	B class
Inside Water	UPVC
Valves	1 set
Type	Butterfly valves

5. DIFFUSER MEMBRANE

Type	Fine
Shape	Disc
MOC	EPDM
Quantity of diffusers	1 Lot
Duty - Uniform air distribution & oxygen Transfer	

6. MBBR MEDIA

Shape	Cylindrical
Surface Area	400 m ² /m ³
MOC	PP
Quantity	1 lot

7. TUBE MEDIA

Shape of Tube	Square
Size of tube	55X55 mm
Angle of Tube	60°
Thickness	1.0 To 1.2 mm
Working Temp	50°C
MOC	PVC
Quantity	1 lot

8. SLUDGE TRANSFER PUMP

Type	Self-Priming, non -clog, Centrifugal
Capacity	2.5 m ³ /hr @ 10 m head
Accessories	Standard Base Frame
MOC	CI
Quantity	1 No.

9. CHLORINE DOSING SYSTEM

Type	Electronic Diaphragm
Pump Capacity	6 LPH @ 3 Kg/cm ²
Dosing Tank	01 No
Tank Capacity	60 lit
MOC of tank	LDPE
Quantity of pump	2Nos, (1W+1SB)

10. PAC DOSING SYSTEM

Type	Electronic Diaphragm	
Pump Capacity	0-6 LPH @ 3 Kg/cm ²	
Dosing Tank	01 No.	
Tank Capacity	60 lit	
MOC of tank	LDPE	
Quantity of pump	2 Nos. (1W+1SB)	

11. FILTER FEED PUMP

Type	Centrifugal
Capacity	5 m ³ /hr @ 28 m head
Accessories	Standard Base Frame
MOC	CI
Quantity	2 Nos. (1W+1SB)

12. PRESSURE SAND FILTER

Capacity	5 m ³ /hr
Diameter	30'
Total Height	72'
MOC of filter	FRP
Frontal piping	40 NB
Filter media	Fine Sand, Gravel
Media Quantity	1 Lot
Valve type	MPV
Valve Size	40 NB
Operating/Working Pressure	2.5 Kg/cm ²
Design Temperature	50 Deg C
Operation	Manual
Quantity	1 No.

13. ACTIVATED CARBON FILTER

Capacity	5 m ³ /hr
Diameter	30'
Total Height	72'
MOC of filter	FRP
Frontal piping	40 NB
Filter media	Fine sand, gravels & pebbles + Carbon
Media Quantity	1 Lot
Valve type	MPV

Valve Size	40 NB
Operating/Working Pressure	2.5 Kg/cm ²
Design Temperature	50 Deg C
Operation	Manual
Quantity	1No.

14. INTERCONNECTING PIPING & FITTINGS

MOC	White UPVC, SCH 40
Quantity	1 lot within the Battery Limit
Pipe Support	1 Lot
MOC(Air Blower	MSEP
Accessories	Valves, Flanges, Reducers, Joints, Bends etc.

15. INSTRUMENTS

Pressure Gauges	1 lot as per requirement
Location	At all pump and blowers common discharge end
Level Switches	1 lot as required
Location	At EQF, IST, TWT.
Water Meter	2 Nos.

16. ELECTRICAL & EQUIPMENTS

Control Panel	1 No
Make	PTC
MOC	MS Powder coated
Type	Non compartmentalized
Standard	IP 42
Mounting	Floor / Skid
Quantity	1 set as per requirement
ON/OFF/Trip button	1 lot
Cabling	1 Lot
Type	Flexible
Cable entry	Bottom
Cable tray support	1 lot
MOC	GI
Energy hour meter	1No

• NOTE:

1. Below ground earthing shall be provided by client.
2. Panel will be non-Draw-out fixed Type.
3. We have considered STD specifications for piping, Valves, electrical and instrumentation as per above. Any deviation in the same will be having cost impact.
4. All Piping and fittings are considered as per ERW pertaining to PTC STD.
5. All drawings shall be provided only in Auto Cad Latest version, 3D Modeling is excluded from our scope of supply.
6. All pumps are Non-API with Two Pole, IE2 motor.
7. We have considered our STD HSE requirement. Any additional HSE requirement will have cost impact.
8. All TPI (Third Party Inspection) are excluded from our scope of supply.
9. We have considered our STD painting specifications. For additional requirement will have cost impact.
10. QAP will be done as per PTC standards for any additional requirement will cost extra.
11. We have considered Standard electrical specifications as per PTC standard, for any additional requirement will cost extra
12. Our Scope of supply will be strictly as above.

ANNEXURE IV
BOUGHT OUT MAKE LIST

Sr. No.	Description	Make
A.	Mechanical Equipment	
1.	Centrifugal Pumps	KBL/Process Pumps/ CRI/ CNP/Green/ Sintech/Shakti/IP/Equiv
2.	Submersible Pumps	CNP/Green/Kishore/Shakti/Darling/Equiv
3.	High Pressure Pumps	CRI/CNP/Leo/Lubi/Shakti/Sumo/Kaigo/Genvik/ Ebara/Wilo/Equiv
4.	Dosing Pumps	E-dose/Verito/Kaigo/Infinity/Equiv
5.	Motors	Siemens/CGL/BBL/KEC/ABB/ LHP/Marathon/WEG/Hindustan/Equiv
6.	Air Blower	Everest/ Airvak/ Akash/KPT/Usha /Equiv
7.	Air Blower-Centrifugal Type	Airfan/Vishwakarma/Equiv
8.	Air Diffusers	Scogen/Rehau/Kaigo/OTT/SSI/Equiv
9.	MBBR Media	Pasco/Cooldeck/Superplast/Equiv
10.	Tube Media	PTC
11.	Anaerobic Media	Cooldeck/MM Aqua/Equiv
12.	LDPE Tanks	PTC/Perfect/Pixel/Reno/Equiv
13.	Oil Skimmer	Universal/Potential/Skylark/ Veins Hydro/Equiv
14.	Cooling Tower	Hingiri/SG Cooling Tower/Dupond/Matangi/Equiv
15.	FRP Vessels	Pentair/Advance Composite/Kaigo/Aventura/Aquazen/Techmate /PTC/Equiv
16.	Filter Press	Thorat/Sachin/Nikita Filtration/Delhi Filter Press/Panama/NM Patel/Royal Filtration/Equiv
17.	Centrifuge-Basket Type	B.A Engg/ACE/JM Industries/Equiv
18.	Centrifuge- Bowl Type	Alfa Laval/Whirler/Equiv
19.	Ozonator	Eltech/Harraday/Ozonics/Universal/ Equiv
20.	UV	Sukrut/Alfa/Sai/Equiv
21.	UPVC Pipe & Fittings	Astral/Ashirwad/Equiv
22.	MS Pipe & Fittings	Jindal/Tata Steel/JSW
23.	Ball Valves	IPT/Aira/Merck/CRI//Kaigo/Equiv
24.	Solenoid Valve	Aira/Saad/Rotex/Delvalve/Equiv
25.	Butterfly Valve-Metallic	Aira/Kaigo/Merck/CRI/Flowtech/IPT/Saad/Inle rvalve/Delvalve/BDK/Equiv
26.	Butterfly Valve-PVC	Ashirwad/Aira/Delvalve/Equiv
27.	Globe Valve	Aira/Kaigo/Equiv
28.	Diaphragm Valve	Floway/Kaigo/equiv
29.	Multiport Valve	Initiative/UKL/RM/Equiv
30.	Bag Filter	Pratham /Equiv
31.	Cartridge Filter	Pratham /Equiv

32.	Gear box (for agitator)	Kavitsu/Bonfiglioli/Premium/Equiv
33.	Planetary Gear Box	Kavitsu/Premium/Sumiko/Equiv
B. Instruments		
1.	Pressure Gauges	Wika/Waree//GIC/Buamer/Airtech/Hitech/FM/Equiv
2.	Pressure Transmitter	Baumer/NK/ Danfoss/Indfoss /Equiv
3.	Pressure Switch/Differential Pressure Switch	Waree/Danfoss/Indfoss/Equiv
4.	Level Gauges	Pune techtrol/Equiv
5.	Level Switches	Blueseas/Aster/Pune techtrol/Equiv
6.	Level Transmitter	Pune techtrol/SBM/Equiv
7.	Flow Indicator-Rotameter	Aster/Eureka/Equiv
8.	Flow Transmitter (Emag)	Aster/Eureka/BR Instruments/Adept/Scientific Devices/ Equiv
9.	Flow Transmitter (Vortex)	Aster/Eureka/Adept/Equiv/for bes/ABB
10.	Conductivity Meter	Aster/NK/Equiv
11.	pH Meter	Aster/Equiv
12.	pH Transmitter	Aster/Equiv
13.	ORP Meter	Aster/Equiv
14.	ORP Transmitter	Aster/Equiv
C. Electrical		
1.	MCB	Schneider/Siemens/L&T/CNS/Equiv
2.	Indicator	Equivalent/Teknic/Equiv
3.	Selector switch	Equivalent/Teknic/Equiv
4.	Contactor	Schneider/Siemens/L&T/Equiv
5.	Cable	Polycab/Finox/Euivalent
6.	MCC & Instrument panel box	PTC
7.	PLC	Delta/Aster/ Schneider/ Siemens/ABB
8.	Relay card	Trinity/Equivalent
9.	Cable tray	PTC
NOTE : If any make is not listed as per above then same shall be considered as per PTC standard. Selection of Vendor will be of PTC choice.		

ANNEXURE - V

SCHEDULE OF EXCLUSION

CIVIL WORKS / CIVIL TANK

Sr. No.	Description	Qty	Tank Volume
1	Bar Screen Chamber	1	1 m3 Vol.
2	Oil & Grease Chamber	1	1 m3 Vol.
3	Collection Tank	1	117 m3 Vol.
4	Aeration Tank	1	122 m3 Vol.
5	Tube settler tank	1	26.8 m3 Vol.
6	Sludge Holding Tank	1	22.88 m3 Vol.
7	Intermediate Storage tank	1	26.1 m3 Vol.
8	Treated Water tank	1	138.1 m3 Vol.
9	Foundation for Equipment & Tanks	1 LOT	Lot as Required

NOTE: Exact sizes & details of units /equipment will be finalized during detail Engineering & as per the site conditions.

1. Client has to provide 3 phase electricity supply with earthing to our Electrical Starter Panels with Earthing.
2. Excavation, Land Filling OR any other Civil works will be in client scope only.
3. Pump Room or shed to our supplied electro-mechanical equipment's will be in client scope only.
4. Approach to site and storage of equipment.
5. Influent incoming pipeline up to the Bar screen.
6. Treated water disposal pipeline beyond area. We shall provide the flanges and connection at the outlet of ACE.
7. Sludge disposal pipeline beyond area.
8. Centrifuge (Basket type).
9. Electricity during the erection & installation work.
10. Electric incoming power supply with earthing to our panel on continuous basis.
11. Fresh water connection, Drain arrangement & Lighting in client scope.
12. Any kind of liaisoning work or permissions for government authorities, NOC from pollution control board. However, we shall provide you our technical assistance as and when required.
13. Lodging / boarding for our erection/commissioning persons, if site is located outside the Pune city limits.
14. Arrangement of chemicals, raw influent, water, commissioning consumables required for the

15. Water and effluent testing.
16. Transportation, loading and unloading facilities and safe custody of our supplied equipment.
17. Emergency power supply.
18. Bio culture & Siding by client.
19. Any item not mentioned in our list of supply as well as not agreed by our written communication.

Battery Limit

1. Raw Sewage : At the inlet of Bar Screen Chamber
2. Treated wastewater : At out outlet flange of Activated Carbon Filter
3. Electrical Supply : At the incomer of our control panel
4. Fresh water supply : One point in by client

Extreme weather conditions like excessive fog, rainfall, snowfall, storm, high wind velocity etc. may suspension of work on safety grounds. All the increase in cost to be incurred due to suspension of work will be on account of customer/client and will have to agreed mutually on occurrence of such situation.

20. Warranty:

All our equipments including bought out components are thoroughly inspected/tested before dispatch and therefore can be depended upon for long and trouble free services. We undertake to make good loss by replacement or repair defects arising out of faulty design, material or workmanship within 15 months from the date of dispatches or 12 month of commissioning whichever is earlier.

a) Warranty is valid subject to:

- 1) Proper Unloading and Storage by customer, We recommend storage of all our equipments in area free or soil/mud/dust/water/rain/severe humidity, severe heat/sun & corrosive environment.
- 2) Installation having been made in proper manner as per installation instructions & supply, erection & having been formally accepted by our site engineer.
- 3) Supply of right quality of oil & other inputs like water, compressed air, flue gas, etc. as per relevant standards & specification provided by us.
- 4) The equipments being operated & maintained by trained and skilled manpower as per our operation & maintenance manual & O&M manuals of various bought out components supplied by us. Any changes /Alteration/ Repairs carried out by customer or any of his agencies with our prior approval.
- 5) Purchased (Bought out) components will be covered in warrantee only if the makes selected are from our approved standardized vendors list only.
- 6) User is expected to keep records, log books, Laboratory reports of all such operations and periodically report to us about the same.
- 7) All payments under the contract are cleared as per payment terms of contract.
- b) This warranty does not include following:
 - 1) Consequential damages
 - 2) Failure, deterioration or damage of equipments due to corrosive atmosphere.
 - 3) Supply of consumables/ Gaskets and rubber parts
 - 4) Parts subjected to wear and tear including pressure gauges
 - 5) Any civil work
 - 6) Electronic components/ windings
 - 7) Paint and paint life
- 8) A component of makes other than PTC recommended vendors

21.0 Commissioning:

Commissioning service is offered at cost mentioned in the price schedule for reasonable numbers of visits/meetings to:

- a) Discuss installation details in terms of physical /technical retirements.
- b) Make the user conversant with statutory requirements
- c) Discuss details of in respect of power supply, feed water & other standard parameters
- d) Ensure the installation has finally been made as recommended
- e) Commission the unit for short run from the point of view of mechanical working and to set controls as necessary.
- f) Conduct demonstration for the purpose of user's education for equipment operation and maintenance.

22.0 Utilities and Services by customer:

Following work and services shall be provided by the customer.

- g) Lockable protected storage space for keeping our material during installation and commissioning.
- h) Working space in shed with adequate lighting for all our workmen to work uninterruptedly.
- i) Necessary electrical power and other required utilities free of charge during commissioning stage.
- j) Access to the units for installation & maintenance.
- k) During the progress of site work, a daily report will be prepared by our site engineer who shall be jointly signed by customer's representative and our site engineer

23.0 Return of excess materials:

In the contract involving activity at user's site, certain raw material, consumables & components are sent to site in excess of the exact quantity for completing the job. Such material is sent based on initial estimation and budgets. The excess or left over material will be taken back by PTC and user/customer is expected to extend cooperation in such regards.

If such a co-operation is not extended by customer, Debit note or Invoice raised by PTC & customer is obliged to pay for the same.

24.0 Arbitration:

In the event of any dispute or difference between parties arising out of contract the same shall be

Arbitration and Conciliation Act, 1996, including any statutory re-enactment or any other modification thereof.

25.0 Cancellations Clause:

In case of cancellation of LOI / Purchase Order, following cancellation charges will be paid by the purchaser. The below charges consist of site visits, sales & marketing, meetings, drawings and documentation, technical support, etc.

- Within 1 week of LOI / Purchase Order : 5%
- Within 2 weeks of LOI / Purchase Order : 10%
- After drawings & documentation Of LOI / Purchase Order : 20%
- After major bought procurement of LOI / Purchase Order : 50%
- After material delivery of LOI / Purchase Order: 100%+ taxes (Invoice value)

Note - Cancellation charges mentioned above will be adjusted against advance paid by the purchaser.

26.0 Price Escalation Clause

If the project get delayed due to any reason from purchaser side beyond agreed terms & condition, then price escalation clause will be applicable as per slandered CII(Cost Inflation Index) or as per market condition.

This price escalation would be irrespective of actual percentage of price increase in material and labour used in manufacture of aforesaid plant. Cost inflation index shall be applied compulsorily each year on cumulative base price till contract period is over.

The price escalation will be approx. 6% per half year or 12% per year approximately. Price escalation clause also covers transportation, Erection & commission etc.

If client fails to accept material/ plant within mention period (as per PO/LOI) or extended the date of dispatch in mail communication, will be liable for price escalation clause, as per above.

27.0 Jurisdiction

All Contracts between purchaser and PTC are deemed to be entering in to India and at Pune and are therefore, Jurisdiction of courts in India at Pune.

Yours faithfully,

PTC Watertech pune...

Shreya Shinde, Pune..

+91 9881085493 / 9922455531

Mukesh Modi <modibrothers.kanpur@gmail.com>
To: "palomarealtylp@gmail.com" <palomarealtylp@gmail.com>

8 June 2024 at 14:30

Respected
G.M, Project

Sir, As per our discussion we are able to supply TMT Bars Jindal Fe 550 UHD
we are giving you Project rate are blow

10 MM - 54,100/-
12 MM - 54,100/-
16 MM - 54,100/-
20 MM - 54,100/-
25 MM - 54,100/-

28 MM & 32 MM - 55,800/-

GST 18% will be Extra

all rates are FOR site Tilak Nagar, Kanpur

MODI BROTHERS, KANPUR

Your regards Vikas Modi. 9335577772

To Paloma Side

Work → Painting Work

Gate (new) may enamel paint with Red oxide

$$\text{Gate area} \Rightarrow \text{Lab} = 10'4" \times 8' \times 2 \approx 2$$

$$\Rightarrow 10.33 \times 8 \times 2 \approx 2$$

$$\Rightarrow 16.5 - 2.8 \text{ Sq/Ft}$$

$$230.86$$

$$\text{Column area} \Rightarrow \text{Lab} \Rightarrow 2'1" \times 1'10" \times 2 \Rightarrow 8 \times 1'10" \times 2$$

$$\Rightarrow 4.08 \times 2.58 \times 2 \Rightarrow 8 \times 1.83 \approx 2$$

$$\Rightarrow 44.85 \text{ Sq/Ft} \Rightarrow 29.28 \text{ Sq/Ft}$$

$$\text{Total area} \Rightarrow 377.41 \text{ Sq/Ft}$$

$$\text{Painting Rate} \Rightarrow 16 \text{ Rs}$$

$$\text{Amount} \Rightarrow 277.41 \times 16$$

$$\Rightarrow 6038.56 \text{ Rs}$$

Note: Rate is same as per previous gate

$$\text{Total area} - 356 \text{ sft}$$

$$\text{Lab} = 11.1 \text{ sft}$$

Accepted

$$\begin{aligned} 20'5" \times 8' \times 2 &= 326.72 \\ 8' \times 1'10" \times 2 &= 29.28 \\ \hline &356 \text{ sft} \end{aligned}$$

The rates are as below:

IS 1786 Fe550D 12-32 mm TMT bar - Rs.58000/- per
IS 1786 Fe550D, 10 mm TMT bar - Rs.59000/- per MT
IS 1786 Fe550D, 8 mm TMT bar - Rs.60100/- per MT

At present we don't have 550D in yard.

1. Price quoted are Ex- Kanpur Stockyard.
2. The rates quoted are excluding GST & ICS.
3. The weight recorded in our warehouse shall be final representative for witnessing the same.
4. The rates are valid up to 06.06.2024 for acceptance warehouse subject to material availability.

Same prices may not remain valid over the next 15 days. Any changes in taxes will be chargeable.

6. All material required by you will be supplied within 10 days.
7. Above prices are also exclusive of Transportation permit/E-way bill to be provide by Customer/transporter.
8. Material may be inspected physically inside our warehouse physical condition once it leaves warehouse premises.
9. ** Availability as on date. Material will be blocked if material may be allotted to other parties based on requirement.
10. All materials offered are in standard length unless otherwise specified.
11. Material will be supplied within JULY'24, within the financial arrangement made by you.
12. Payment Terms: 100% advance before delivery.
13. Note: Prices ruling on date of delivery will be applicable.

You are requested to issue Purchase Order(s) within the offer validity date.

1. उद्धृत दूध पूर्व-कानपुर स्टॉकयार्ड है।
2. उद्धृत दरें जीएसटी और टीसीएस को छोड़कर हैं।
3. हमारे गोदाम में दर्ज वजन अंतिम और बाध्यकारी होगा, हालांकि आप इसे देखने के लिए अपने अधिकृत प्रतिनिधि को नियुक्त कर सकते हैं।
4. दरें स्वीकृति के लिए 06.06.2024 तक और सामग्री उपलब्धता के अंश न गोदाम से पूर्ण के लिए 31.07.2024 तक वैध हैं।
जैसे हुए ऑर्डर की शर्तों को छोड़ें, के लिए वही नहीं है, अगले महीने तक नहीं रखा जा सकता है।
5. कुरी ने कोई भी परिवर्तन प्रभावित होगा।

6. आपके लिए अचरित सभी सामग्री JULY 24 के भीतर आपूर्ति कर दी जाएगी।**


7. उपरोक्त कीमतों में परिवहन लागत भी शामिल नहीं है। परिवहन की व्यवस्था आपके द्वारा की जाएगी, रोड परमिट/ई-वे बिल ग्राहक/लॉजिस्टिक्स द्वारा पता लगाया जाता है।


SIZE(mm)	Tentative Bundle Wt(MT)	Plant
8 and 10	4-5	ALL
12 and 16	4-5	ALL
20, 25 and 32	6.5	DSP and ISP
25 and 32	15	BSP

NOTE: KINDLY PROVIDE GST, PAN AND WORK ORDER DOCUMENTS WITH THIS.

Kindly find the attachment

2 attachments

 **Annexure I.pdf**
222K

 **Annexure II.pdf**
182K

The rates are as below:

IS 1786 Fe550D 12-32 mm TMT bar – Rs.58000/- per MT
IS 1786 Fe550D, 10 mm TMT bar – Rs.59000/- per MT
IS 1786 Fe550D, 8 mm TMT bar – Rs.60100/- per MT

At present we don't have 550D in yard.

1. Price quoted are Ex- Kanpur Stockyard.
2. The rates quoted are excluding GST & LCS.
3. The weight recorded in our warehouse shall be final and binding. However you may depute your authorized representative for witnessing the same.
4. The rates are valid up to 06.06.2024 for acceptance & PO Placement and till 31.07.2024 for supply from warehouse subject to material availability.
5. The prices may not remain valid over the next month for takeover order, if any.
6. Any changes in taxes will be chargeable.
7. All material required by you will be supplied within JULY '24.**

Above prices are also exclusive of Transportation cost. Transportation to be arranged by you. Road permit/E-way bill to be provide by Customer/transporter.

8. Material may be inspected physically inside our warehouse. Material will NOT be returned on grounds of physical condition once it leaves warehouse premises.

9. ** Availability as on date. Material will be blocked/requisitioned only after confirmation from your side. Else, material may be allotted to other parties having requirement.

10. All materials offered are in standard length unless otherwise specified.

11. Material will be supplied within JULY'24, within the financial arrangement made by you.

12. Payment Terms: 100% advance before delivery.

13. Note: Prices ruling on date of delivery will be applicable.

You are requested to issue Purchase Order(s) within the offer validity date.

1. उद्धृत मूल्य पूर्व-कानपुर स्टॉकयार्ड हैं।

2. उद्धृत दरें भाइस्दी और टीसीएस को छोड़कर हैं।

3. हमारे गोदाम में दर्ज वजन अंतिम और बाध्यकारी होगा, हालांकि आप इसे देखने के लिए अपने अधिकृत प्रतिनिधि को नियुक्त कर सकते हैं।

4. हमें प्रवीकृति के लिए 06.06.2024 तक और सामग्री उपलब्धता के अधीन गोदाम से आपूर्ति के लिए 31.07.2024 तक वैध हैं।

कानपुर ऑर्डर की मात्रा, यदि उपलब्ध हो, के लिए वही कीस्टॉक आवंटित की जाएगी, जो तब तक वैध नहीं रह सकती है।

5. धरौटी में कोई भी परिवर्तन परभार्य होगा।

6. आपके लिए आवश्यक सभी सामग्री JULY 24 के भीतर आपूर्ति कर दी जाएगी।**


7. उपरोक्त कीमतों में परिवहन लागत भी शामिल नहीं है। परिवहन की व्यवस्था आपके द्वारा की जाएगी. रोड परमिट/ई-वे चिल प्राप्त करने के लिए आवश्यक दस्तावेज प्रदान किया जाना है।


SIZE(mm)	Tentative Bundle Wt(MT)	Plant
8 and 10	4-5	ALL
12 and 16	4-5	ALL
20, 25 and 32	6.5	DSP and ISP
25 and 32	15	BSP

NOTE: KINDLY PROVIDE GST, PAN AND WORK ORDER DOCUMENTS WITH THIS.

Kindly find the attachment

2 attachments

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222K

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182K



TECHPRO ENGINEERS PVT.LTD.

Regd. Office & Laboratory Division.
114 Ram Ganga Housing Society
Near G.T. Road
Near G.T. Road
Near G.T. Road
Mo. 9208 666235, 8299422065
E-mail: techpro@gmail.com

Laboratory Name : TECHPRO ENGINEERS PVT. LTD. (LABORATORY DIVISION), 114, RAM GANGA HOUSING SOCIETY, NARAMAU, G.T. ROAD, KANPUR, UTTAR PRADESH, INDIA

Accreditation Standard

ISO/IEC 17025:2017

Certificate Number

TC-9169

Page No

1 of 5

Validity

23/12/2022 to 22/12/2024

Last Amended on

21/04/2023

S.No	Discipline / Group	Materials or Products tested	Component, parameter or characteristic tested / Specific Test Performed / Tests or type of tests performed	Test Method Specification against which tests are performed and / or the techniques / equipment used
Permanent Facility				
1	MECHANICAL- BUILDINGS MATERIALS	Burnt Clay Bricks	Compressive Strength	IS 3495(Part 1)
2	MECHANICAL- BUILDINGS MATERIALS	Burnt Clay Bricks	Efflorescence Test	IS 3495(Part 3)
3	MECHANICAL- BUILDINGS MATERIALS	Burnt Clay Bricks	Height of 20 bricks set	IS 1077
4	MECHANICAL- BUILDINGS MATERIALS	Burnt Clay Bricks	Length of 20 bricks set	IS 1077
5	MECHANICAL- BUILDINGS MATERIALS	Burnt Clay Bricks	Water Absorption	IS 3495(Part 2)
6	MECHANICAL- BUILDINGS MATERIALS	Burnt Clay Bricks	Width of 20 bricks set	IS 1077
7	MECHANICAL- BUILDINGS MATERIALS	Cement	Compressive strength	IS 4031 (Part 6)
8	MECHANICAL BUILDINGS MATERIALS	Cement	Density	IS 4031(Part 11)
9	MECHANICAL- BUILDINGS MATERIALS	Cement	Final Setting time	IS 4031(Part 5)
10	MECHANICAL- BUILDINGS MATERIALS	Cement	Fineness by Blaine's air permeability	IS 4031(Part 2)
11	MECHANICAL BUILDINGS MATERIALS	Cement	Fineness by Dry Sieving	IS 4031(Part 1)
12	MECHANICAL- BUILDINGS MATERIALS	Cement	Initial setting Time	IS 4031(Part 5)
13	MECHANICAL- BUILDINGS MATERIALS	Cement	Soundness by Autoclave method	IS 4031(Part 3)
14	MECHANICAL- BUILDINGS MATERIALS	Cement	Soundness by Le-Chatelier	IS 4031(Part 3)
15	MECHANICAL- BUILDINGS MATERIALS	Cement	Standard consistency	IS 4031(Part 3)
16	MECHANICAL- BUILDINGS MATERIALS	Coarse Aggregate	10 % Fines Value	IS 2386(Part 1)
17	MECHANICAL- BUILDINGS MATERIALS	Coarse Aggregate	Clay Lumps	IS 2386(Part 2)
Records				

S.No	Discipline / Group	Materials or Products tested	Component, parameter or characteristic tested / Specific Test Performed / Tests or type of tests performed	Test Method Specification against which tests are performed and / or the techniques / equipment used
38	MECHANICAL- BUILDINGS MATERIALS	Cube	Width	IS 516 (Part 1)
39	MECHANICAL- BUILDINGS MATERIALS	Fine Aggregate	Compacted Bulk Density	IS 2386(Part 3)
40	MECHANICAL- BUILDINGS MATERIALS	Fine Aggregate	Loose Bulk Density	IS 2386(Part 3)
41	MECHANICAL- BUILDINGS MATERIALS	Fine Aggregate	Sieve Analysis (80, 20, 4.75, 2.0, 1.0, 0.600, 0.425, 0.300, 0.150, 0.075 mm)	IS 2386(Part 1), IS 383
42	MECHANICAL- BUILDINGS MATERIALS	Fine Aggregate	Soundness by MgSO4	IS 2386(Part 5)
43	MECHANICAL- BUILDINGS MATERIALS	Fine Aggregate	Soundness by Na2SO4	IS 2386(Part 5)
44	MECHANICAL- BUILDINGS MATERIALS	Fine Aggregate	Specific Gravity	IS 2386(Part 3)
45	MECHANICAL- BUILDINGS MATERIALS	Fine Aggregate	Water Absorption	IS 2386 (Part 3)
46	MECHANICAL- BUILDINGS MATERIALS	Paving Block	Abrasion Resistance	IS 15658, Annex-E
47	MECHANICAL- BUILDINGS MATERIALS	Paving Block	Annickamfer	IS 15658, Annex-B
48	MECHANICAL- BUILDINGS MATERIALS	Paving Block	Compressive Strength	IS 15658, Annex-D
49	MECHANICAL- BUILDINGS MATERIALS	Paving Block	Length	IS 15658, Annex B
50	MECHANICAL- BUILDINGS MATERIALS	Paving Block	Thickness	IS 15658, Annex-B
51	MECHANICAL- BUILDINGS MATERIALS	Paving Block	Water Absorption	IS 15658, Annex-C
52	MECHANICAL- BUILDINGS MATERIALS	Paving Block	Width	IS 15658, Annex-B
53	MECHANICAL- SOIL AND ROCK	Rock	Apparent specific gravity	IS 1124
54	MECHANICAL- SOIL AND ROCK	Rock	Brazilian test	IS 10082
55	MECHANICAL- SOIL AND			

Laboratory Name : TECHPRO ENGINEERS PVT. LTD. (LABORATORY DIVISION), 114, RAM GANGA HOUSING SOCIETY, NARAMAU, G.T. ROAD, KANPUR, UTTAR PRADESH, INDIA

Accreditation Standard ISO/IEC 17025:2017

Certificate Number TG-9169

Page No 5 of 5

Validity 23/12/2022 to 22/12/2024

Last Amended on 21/04/2023

S.No	Discipline / Group	Materials or Products tested	Component, parameter or characteristic tested / Specific Test Performed / Tests or type of tests performed	Test Method Specification against which tests are performed and / or the techniques / equipment used
75	MECHANICAL- SOIL AND ROCK	Soil & Rock	Direct Shear Test (τ -Value)	IS:2720 (Part-XII)
76	MECHANICAL- SOIL AND ROCK	Soil & Rock	Falling Head Permeability Test	IS:2720 (Part-XVII)
77	MECHANICAL- SOIL AND ROCK	Soil & Rock	Free Swell Index	IS:2720 (Part-40)
78	MECHANICAL- SOIL AND ROCK	Soil & Rock	Point Load Test	IS:8764
79	MECHANICAL- SOIL AND ROCK	Soil & Rock	Unconfined Compressive Strength of Rock	IS:9143
80	MECHANICAL- SOIL AND ROCK	Soil & Rock	Unconfined Compressive Strength of Soil	IS:2720 (Part-X)
81	MECHANICAL- SOIL AND ROCK	Soil & Rock	Unconsolidated Undrained Triaxial Compression Test (C-Value)	IS:2720 (Part-XI)
82	MECHANICAL- SOIL AND ROCK	Soil & Rock	Unconsolidated Undrained Triaxial Compression Test (f-Value)	IS:2720 (Part-XI)
83	MECHANICAL- SOIL AND ROCK	Soil & Rock	Water Content Test	IS:13030

Sl. No.	Name of Test	Quantity	Period of Testing	Test Method	Test Price
B13	Soundness by MgSO4	2 kg	15 days	IS 2386 (Part-5)	1000.00
B16	Alkali Aggregate Reactivity by Chemical Method	5 kg	4 days	IS 2386 (Part-7)	500.00
B17	Water Soluble Chloride Test	5 kg	4 days	IS 14959 (Part-2)	800.00
B18	Sulphate Test	5 kg	4 days	IS 4032-1985	500.00

Note : Quantity of Sample for complete test -20kg, Period of Testing- 15 working days,

C1	Dry Sieve Analysis-90µ	100 gm	4 days	IS 4031 (Part-1)	200.00
C2	Finenes by Blaine Air Permeability	10 gm	4 days	IS 4031 (Part-2)	300.00
C3	Soundness by Lechatelier	500 gm	4 days	IS 4031 (Part-3)	400.00
C4	Soundness by Autoclave	2kg	4 days	IS 4031 (Part-3)	800.00
C5	Setting Time	1 kg	2 days	IS 4031 (Part-4)	400.00
C6	Compressive Strength	3 kg	28 days	IS 4031 (Part-6)	1200.00
C7	Density	500 gm	2 days	IS 4031 (Part-11)	200.00

Note : Quantity of Sample for complete test -20kg, Period of Testing- 35 working days,

D1	Moisture Content	500 gm	4 days	IS 2720 (Part-2)	150.00
D2	Specific Gravity	1 kg	4 days	IS 2720 (Part-3/Sec-1)	200.00
D3	Sieve Analysis	1 kg	4 days	IS 2720 (Part-4)	200.00
D4	Hydrometer analysis	1 kg	4 days	IS 2720 (Part-4)	200.00
D5	Atterberg Limit	1 kg	4 days	IS 2720 (Part-5)	200.00
D6	Shrinkage Limit	1 kg	4 days	IS 2720 (Part-6)	200.00
D7	Free Swoll Index	500 gm	4 days	IS 2720 (Part-40)	200.00
D8	Direct Shear Test	1 kg	4 days	IS 2720 (Part-12)	500.00
D9	Triaxial Compression Test	1 kg	4 days	IS 2720 (Part-11)	500.00
D10	UCS Test	1 kg	4 days	IS 2720 (Part-10)	350.00
D11	Consolidation Test	1 kg	15 days	IS 2720 (Part-15)	600.00
D12	OMC / MDD	10 kg	4 days	IS 2720 (Part-7 or 8)	2500.00

Code	Name of Test	Quantity	Period of Testing	Method	Test / Price 2024-25
H3	Water Absorption	3 NOS	4 days	IS 2185 (part-1/2)	750.00
H4	Density	3 NOS	4 days	IS 2185 (part-1/2)	750.00
Note : Quantity of Sample for complete test : 20 NOS					
10.3.2024					
I1	Dimension	25 NOS	4 days	IS 2185 (part-3/4)	1700.00
I2	Compressive Strength	12 NOS	4 days	IS 2185 (part-3/4)	4200.00
I3	Water Absorption	3 NOS	4 days	IS 2185 (part-3/4)	1050.00
I4	Density	3 NOS	4 days	IS 2185 (part-3/4)	1050.00
Note : Quantity of Sample for complete test : 25 NOS					
10.3.2024					
J1	Mix proportioning of concrete using following ingredients-		45 days	IS 10262-2019 IS 456-200	22000.00
	Cement	50 kg			
	Coarse	200 kg			
	Aggregate Fine	100 kg			
	Aggregate	2kg			
	Admixtiture	10 kg			
	Fly Ash	10 kg			
Silica Fume					
Note : Matrial tseing charge is not included.					
10.3.2024					
K1	Specific Gravity of Coarse Material	5 kg	4 days	IS 2386 (part-3)	300.00
K2	Water Absorption of Coarse Material	5 kg	4 days	IS 2386 (part-3)	300.00
K3	Sieve Analysis	20 kg	4 days	IS 2720 (Part-4)	600.00
K4	Hydrometer analysis	1 kg	4 days	IS 2720 (Part-4)	200.00
K5	Atterberg Limit	1 kg	4 days	IS 2720 (Part-5)	400.00
K6	OMC / MDD	10 kg	4 days	IS 2720 (Part- 8)	2000.00
K7	CBR Test	15 kg	6 days	IS 2720 (Part-16)	2000.00
K8	Permeability Test	10 kg	4 days	IS 2720 (Part-17)	1500.00

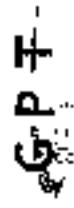
Code	Name	Quantity	Period of	Test Method	Test / P
NON DESTRUCTIVE TESTS					
1.0	Ultrasonic pulse velocity test	As per requirement		IS 516 (Part-5/Sec-1)	
2.0	Half-cell potentiometer test			IS 516 (Part-5/Sec-2)	
3.0	Carbonation of concrete test			IS 516 (Part-5/Sec-3)	
4.0	Rebound Hammer test			IS 516 (Part-5/Sec-4)	



Chandel Construction Company
Mohali, Panjab.

BC

Brij Construction Kanpur.



GPT Infra projects Limited.



Zetwerk Manufacturing Businesses
Private Limited.

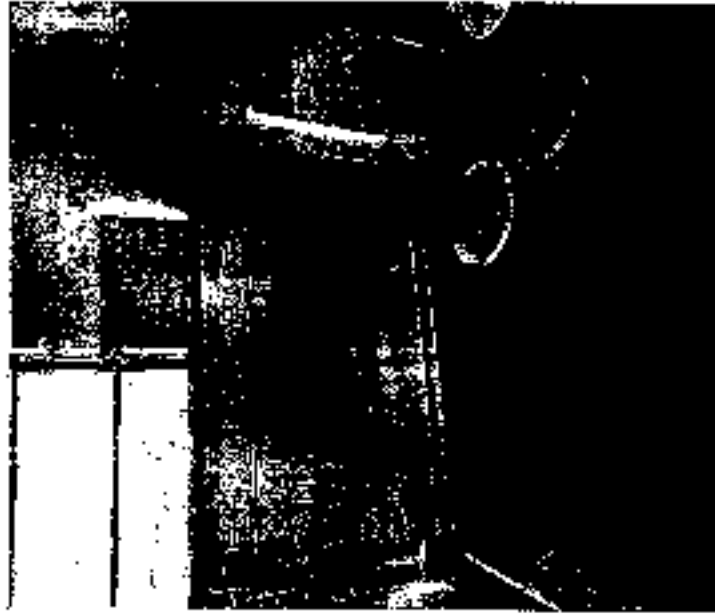
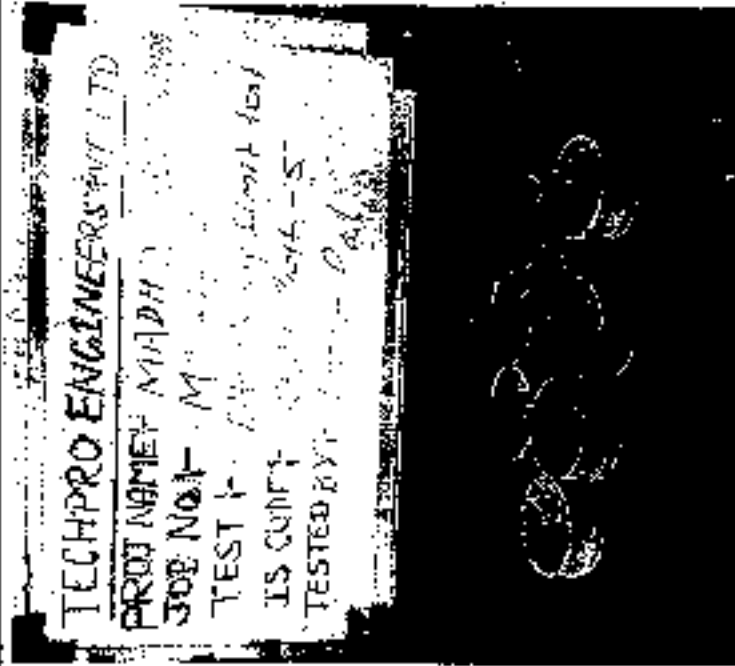
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Vikramajit Singh Sanatan Dharma
College. Kanpur



Allied Builders and Engineers
Kanpur.



To,

Date: - 28.05.2024

The GM Project
Paloma Realty LLP
Kanpur

QUOTATION for DG & Transformer

Sr. No.	Item Description	Unit Price
1.	Kirlosker make 3 phase 1010 KVA Silent Genset complete with Fuel tank, Battery Lead, Auto Control Panel , first filling Lube oil and Acoustic Enclosure.	6615000.00
2.	CAT make 3 phase 1010 KVA Genset complete with Fuel tank, Battery Lead, Auto Control Panel and first filling Lube oil.	8610000.00
3.	CAT make 3 phase 1010 KVA Silent Genset complete with Fuel tank, Battery Lead, Auto Control Panel , first filling Lube oil and Acoustic Enclosure.	9660000.00
4.	CAT make 3 phase 1010 KVA Genset complete with Fuel tank, Battery Lead and first filling Lube oil. Idolator Panel @3.50 Lacs Extra.	6825000.00
5.	GTB make Outdoor Distribution Transformer, 1000 KVA, 11KV/.433V, Three Phase, 50 Hz, Copper Wound, oil immersed ONAN cooled, complete with all standard fittings, accessories, HT & LT box, Bucholtz relay, WTI, OTI, marshaling box and first filling of transformer oil, as per IS 335.	1093350.00
6.	GTB make Outdoor Distribution Transformer, 1000 KVA, 33KV/.433V, Three Phase, 50 Hz, Copper Wound, oil immersed ONAN cooled, complete with all standard fittings, accessories, HT & LT box, Bucholtz relay, WTI, OTI, marshaling box and first filling of transformer oil, as per IS 335	1387500.00
7.	TIRUPATI make Outdoor Distribution Transformer, 1000 KVA, 11KV/.433V, Three Phase, 50 Hz, Copper Wound, oil immersed ONAN cooled, complete with all standard fittings, accessories, HT & LT box, Bucholtz relay, WTI, OTI, marshaling box and first filling of transformer oil, as per IS 335.	1083500.00

Sr. No.	Item Description	Unit Price
8.	TIRUPATI make Outdoor Distribution Transformer, 1000 KVA, 33KV/.433V, Three Phase, 50 Hz, Copper Wound, oil immersed ONAN cooled, complete with all standard fittings, accessories, HT & LT box, Bucholtz relay, WTI, OTI, marshaling box and first filling of transformer oil, as per IS 335.	1375000.00

Terms & Conditions:

E&OE

- Payment 100% Advance.
- GST & Freight Extra as applicable.
- Warranty as per company norms.
- Material unloading is in your scope.
- **Delivery:-** 25 Days for DG and 30 days for Transformer.
- Quotation is valid only for 10 Days.
- If any extra parts/service are required during/after installation, then the same will have to be paid extra by the customer

We hope you will find our quotation competitive and in line with your requirement. Thanking you and assuring you for our best services and prompt attention at all times.

Kind Regards,

Gaurav Dwivedi