



OZO NANO SCIENCES

"MUKUND" # 7, 1ST CROSS ROAD, C.I.LAYOUT, K.P WEST, BANGALORE 560020
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SMART TECHNOLOGY FOR SMART CITIES

Greetings from OZO NANO SCIENCES, Bengaluru, Karnataka, Republic of INDIA.....

We introduce a unique and emerging process based on ADVANCED NANO OXIDATION TECHNOLOGY for treatment of sewage (black / grey) and industrial effluent, lakes, ponds and river streams....

We recently on invite from UNITED NATIONS (APCTT) presented our technical research papers on "RELEVANCE OF NANOTECHNOLOGY IN WATER, WASTE WATER DE-CONTAMINATION AND DIS-INFECTIONorganized by**MOSTI, UN-APCTT at Malacca, Malaysia.**

This is to share with you that ADVANCED NANO OXIDATION TECHNOLOGY - process has been featured - published in the latest edition of THE WATER DIGEST magazine and many others....

Kindly refer the link for the magazine: **pages 50 to 55...**

- http://thewaterdigest.com/Emagazine-New/water_digest3.html
- <http://www.ezinemart.com/eaw/01102014/home.aspx?userid=&uli=>

Please find in attachment technical details pertaining to ANOT for application in waste water, effluent treatment and also another variant NOXXiT for application is sewer line treatment / management

Advanced Nano Oxidation Technology

We would be glad to furnish more information as and when required....

Thanking you in advance for your co-operation and look forward to.....

Warm regards

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NOXX_{ALL}TM- NOXX_{AIR} - NOXX_{IT}

- LIQUID INCINERATION -



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SUGOFIL PLANT

ADVANCED NANO OXIDATION TECHNOLOGY



REAL TIME PLANT ON SITE – MODELS VARY AS PER DAILY FLOW RATES.

PLANT DETAILS

PER BATCH	5 kl / 10 kl REACTORS AS REQUIRED
TREATMENT TIME	1.5 HOUR PER BATCH
TOTAL AREA REQUIREMENT	750 sft WITH FILTRATION
RAW TRANSFER PUMP	3 HP SELF PRIMING
STIRRER	SHAFT DRIVEN WITH FINS
GEARED MOTOR	100 RPM CAPACITY
SLUDGE DRAIN	VALVE
PLANT	PLUG AND PLAY – RELOCATABLE
PLACEMENT	ABOVE GROUND
OPERATION	NEED BASED OPERATOR FRIENDLY
FILTRATION	3 COLUMNS WITH MEDIA + SPL MEDIA
FILTER FEED PUMP	2 HP WITH PRE-FILTER
FILTRATION	COMPATIBLE MICRON (OPTIONAL)
LEAD TIME	3 WEEKS – INSTALATION – 2 DAYS



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Sugofil[®] TREATMENT PLANT – TREATED SMAPLES



MINING EFFLUENT



SLAUGHTER HOUSE



SEWAGE (RESORT)



PETROLEUM EFFLUENT



FISH MEAL EFFLUENT



RUBBER EFFLUENT



LABOUR CAMP (SEWAGE)



TEXTILE DYES (DENIM)

ESTHETICALLY DESIGNED	SMALL FOOT PRINT
EASY INSTALLATION	RELOCATABLE
OPERATOR FRIENDLY	NEED BASED OPERATION
VARIANTS 05 KLD TO 500 KLD +	

- **TECHNOLOGY AND PRODUCTS ASSESSED, ANALYSED, VALIDATED AND CERTIFIED BY THE PRESTEGIOUS **INDIAN INSTITUTE OF SCIENCES** – BENGALURU**
- **AND**
- ****DEPARTMENT OF ENVIRONMENTAL SCIENCES**, BENGALURU UNIVERSITY, BENGALURU**



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SUMMARY: THE ENTIRE TREATMENT IS BATCH PROCESSED. TREATMENT TIME REQUIRED IS JUST 15 MINUTES FOR REACTION (PUMPING TIME NOT ACCOUNTED FOR) RAW SEWAGE / EFFLUENT IS COLLECTED IN AN UNDER GROUND TANK – WHEREIN NOXXALL IS MANUALLY DOSED IN PRESCRIBED QUANTITY – ALLOWED 15 MINUTES – PUMPED ON TO **Sugofil**[®] HOPPER BOTTOM TANK WITH STIRRER ON – PRESCRIBED QUANTITY OF COMPATIBLE POLISHING AGENT ALUM / PAC ETC MANUALLY DOSED TO FLOCCULATE – ALLOW TIME FOR SETTLEMENT – (POLYELECTROLITE COULD BE USED FOR QUICKER AND FINER SETTLEMENT)

INERT SLUDGE DRAINED TO SLUDGE DRYING BED. PUMP THE TREATED WATER THROUGH THE BOTTOM DRAIN PIPE INTO SAND AND CARBON FILTERS FOR FINAL OUT PUT OF TREATED WATER EITHER FOR REUSES OR SAFE DISCHARGE. MICRON FILTER, UV AND R.O IN SERIES COULD RENDER POTABLE STANDARD WATER FOR NON POTABLE USES.

*Conditions apply - regarding treatment of different types of effluents.



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BILL OF QUANTITIES – CAPEX

TURNKEY PROJECT – 50 KLD STP CUM ETP – BATCH PROCESS

TOTAL AREA REQUIRED 250 sft ABOVE GROUND / ROOF TOP

Sl.	DESCRIPTION	Quantity
1.	Supply of geared motor with stirrer - shaft	1 NO
2.	Supply of 5 Hp sewage Transfer Pump	1 + 1 STANDBY
3.	Supply of Pressure Sand Filter with media Make: SUGOFIL	1 NO
4.	Supply of Activated Carbon Filter with media Make: SUGOFIL	1 NO
5.	Supply of SPECIAL MEDIA Filter with media Make: SUGOFIL	1 NO
6.	Supply of 3 HP Filter Feed Pump.	1 + 1STANDBY
7.	Interconnecting Piping/Valves/Fittings:-within STP area	Complete system
8.	Electrical panel with trip switches	1 NO
TOTAL COST FOR EACH UNIT OF 50 KL PLANT + VAT + Transportation / unloading at actual		INR 10,50,000/-
IN WORDS: TEN LAKHS FIFTY THOUSANDS ONLY		

- SCOPE OF ANY WORK OUTSIDE THE STP – ETP AREA IS EXCLUDED FROM THIS PROPOSAL.
- OUR SCOPE IS LIMITED TO INLET AND OUT LET OF TREATMENT PLANT

CIVIL WORK OUT OF OUR SCOPE

RAW COLLECTION AND POST TREATED STORAGE TANKS

OPEX: 5 paisa per liter chemical cost – excludes electrical, manpower, maintenance and any other fixed costs.

6 KGS of **NOXXALL[®]** is required to treat 100,000 (one lakh liters) sewage
20 KGS OF PAC / ALUM – TO BE OPTIMIZED TO SITE CONDITIONS



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SCOPE OF CLIENT:-

PLANT AREA REQUIRED	250 sft for 100 kld - CIVIL REINFORCED BED FOR HOUSING THE PLANT WITH FILTRATION SYSTEM
POWER SUPPLY AND CONNECTION	TO ETP AREA - 3 PHASE / SINGLE PHASE
FRESH WATER CONNECTION	FOR BACK WASH OF FILTRATION PURPOSES
PLANT	CRANE AND MANPOWER
MAN POWER	ELECTRICIAN, PLUMBER AND CARE TAKERS
RAW COLLECTION AND TREATED WATER TANK	POST TREATMENT CIVIL TANKS

TERMS AND CONDITIONS

CONSULTANCY, DESIGN, ERRECTION, COMMISSIONING AND SUPERVION	5 % OF THE PROJECT COST – OVER AND ABOVE COST INDICATED ABOVE.
SCHEDULE	3 WEEKS
INSTALLATION	2 DAYS
PAYMENT TERMS	75 % ADVANCE, 25% BEFORE DESPATCH AND 15% AFTER COMMISSIONING.

• QUOTE STRICTLY VALID FOR 30 DAYS

Thanking you in advance for your co-operation and looking forward to being associated with you and your organization.

Yours truly,

For OZO NANO SCIENCES

FOR VIP EXIM PVT LTD


AUTHORISED SIGNATORY

MADAN IYENGAR
Managing Director