# ASCENT CONSTRUCTION PRIVATE LIMITED

**Registered Office :** Gladys Alwares Road, Near Khewra Circle, Chitalsar, Manpada, Thane (West) - 400 610 • Tel. No. : 2589 2945 / 6528 4403 / 04 • Fax : 2589 3564
**CIN No. : U45200MH1995PTC088201**


ACME GROUP
We House Happiness, Since 1976

**M/s. Superklean Environmental Engineers Pvt. Ltd.**
Pratap Plaza, 3A,
Sunmill Compound,
Next to Dena Bank,
Lower Parel West,
Mumbai 400013.

**Date:11/11/2014**

**Kind Attn** : **Mr. Kishor Gandhi**

**Sub** : **Sewage Treatment Plant for 1015 KLD - Acme Ozone – Plot A, Gladys Alwares Road, Manpada,Thane(W).**

**Ref** : **Your quotation no SEEPL/STP/AO P1/1015 KLD/040814 and subsequent discussions held with you.**

Dear Sir,

We are pleased to place an order on you for the above mentioned work as per the terms & conditions. **(Amt- Rs. 54,00,000/- inclusive of all taxes )** annexed as under.

Annexure I : Terms and Conditions
Annexure II : Technical Specifications for STP work

This award letter along with the enclosed Annexure shall form the contract. You are requested to treat this as a firm order, sign & return the duplicate to us as a token of your acceptance.

Thanking you,

Yours Faithfully,

**For M/s ASCENT CONSTRUCTION PVT. LTD.**

ASCENT CONSTRUCTION PVT. LTD. MUMBAI

**Authorized Signatory**

**Accepted**

SUPERKLEAN ENV. ENGRS. PVT. LTD. MUMBAI

Enclosure: a/a
cc to:

1. Accounts Department
2. Contract's Department
3. Site Incharge




**Admn. Office :** Acme Ghar, 19, K. D. Road, Vile Parle (West), Mumbai - 400 056. • Tel.: +91-22-6757 0000 / 2671 8883
Fax : +91-22-2671 0976 • E-mail : acmeozonecustomercare@acmehousing.com • Website : www.acmehousing.com

## ANNEXURE - I

## TERMS AND CONDITIONS

***SCOPE OF WORK:***

Design, manufacture, Supply ,transporation, loading, unloading, installation, commissioning and maintainance,of Sewage Treatment Plant with Recycling facilities with necessary electro-mechanical equipments and other accessories, submitting GA drawings, for STP of 1015 cum/day capacity for Acme Ozone, Thane. The work shall also include Technical assistance to our liasoning agency for getting approvals from MPCB or other local bodies for environmental works.

***CONTRACT PRICE:***

1015 $m^3$/day capacity: **Rs. 5400000/-** inclusive of all taxes (including the P.A.C./P.E. DOSING SYSTEM with all necessary
Equipment)
(Rupees **Fifty Four Lacs Only**)

Terms & Conditions

***DELIVERY PERIOD:***

**The necessary GA drawings shall be submitted for approval within 7 days from the date of issuing PO along with approved layout. The Trigger to manufacture the equipment will be given anytime on or before July 2015 & the completion for the same should be done within 45 days from trigger to delivery.**

***PAYMENT TERMS:***

1) 10% Advance.
2) 50% Against delivery after delivery of Material at site.
3) 20% After installation.
4) 10% Against Mechanical Comissioning.
5) 10% Against Process Comissioning or One year whichever is earlier.

***Retention Money:***

5% retention amount will be deducted from every Running bill.

2.5% will be released after one year from commisioning of plant.

1.25% after 2 years from commisioning of plant.

& 1.25% after completion of defect liability period i.e. after 3 years.

The Retention money as mentioned above can be replaced by irrevocable Bank Guarantee issued by a nationalized or scheduled bank. The Proforma for the same shall be issued by Acme in due course.



For Superidean Envir. Engg. Pvt. Ltd.
Director.

***DEFECT LIABILITY PERIOD***

The defect liability period shall be **36 months** from the date of satisfactory commissioning/handing over as certified and notified by the owner or his representative.

***ARBITRATION:***

All disputes and differences arising out of or in connection with the contract whether during the progress of work or after completion , the same shall be referred to the Sole Arbitrator viz. the Employer i.e. **Technical Director, M/s** Ascent Construction Pvt. Ltd. will be final and binding. In the event of the arbitrators disagreeing, it shall be referred to an umpire to be nominated by the two arbitrators before proceeding with the arbitration. The decision of the umpire shall be final and binding on both the parties. For the purpose of this clause the provisions of the Indian Arbitration and Reconciliation Act 1996 with relevant amendments shall be applicable.

***FORCE MAJOURE***

The Contractor shall be under no liability for delay in delivering/completion of work if they or their sub-contractors /suppliers are prevented from discharging their respective obligations under the contract for causes beyond their reasonable control including but not limited to war (whether declared or not), invasion, acts of enemies, hostilities, riots, civil commotion, labour disturbance, strikes, fire, earthquake, floods, government orders and restrictions, legal enactments, delay or inability to obtain materials due to change in import policy or other statutory restrictions, lack of transport facilities, interruptions/restrictions in power supply, damage to or breakdown of plant, machinery and equipment etc.

**FORECLOSING OF WORK**

1 If at any time after the acceptance of the work Order, the Owner shall for any reason whatsoever not required the whole or any part of the works, to be carried out the Owner shall give notice in writing of the fact to the contractor, who shall have no claim to any payment of compensation or otherwise, whatsoever on account of any profit or advantage which he might have derived from the execution of the work in full but which he did not derive in consequence of the foreclosing of whole or part of the works.

2 Contractor shall be paid at contract rates for the full amount of the executed works.

**DEFECTIVE WORK:**

The Owner shall, during the progress of the works, have power to order in writing from time to time



For Supervision Engg. Pvt. Ltd.

Director.

the removal and proper re-execution of any work executed with materials or workmanship not in accordance with the drawings and specifications or instructions, and contractor shall forthwith carry out such order at his own cost. In case of defaults on the part of the contractor to carry out the same and all expense consequent thereon or incidental thereof as certified by the Owner shall be born by the Contractor or may be deducted by the Owner from any money due or that may become due to the contractor against this contract or any other contract with the Owner.

**WARRANTY:**

The STP supplied by you shall be warranted for a period of 36 months from the date of commissioning . During this period your liability covers in respect of any defect or failure in the equipment supplied and commissioned by you or any loss, injury or damage attributable to making good by replacement or repairs and arise totally from proven faulty design, materials or workmanship. If any part of the equipment needs to be shifted to your service centers for repair, necessary arrangement shall be done by you at your cost. However, the warranty doesn't cover damage due to any wear and tear.

**MANUALS, DRAWINGS ETC.**

**G.A drawings on award of work before commencement**
You shall submit GA drawings of STP within 7 days from date of work order to Architects/Owners for approval before commencement of work at site/fabrication/ manufacture.

**Operation and maintenance manuals**
The Contractor shall furnish three sets of erection, operation and maintenance manual with support drawings to the Owner, after completion of work. The Contractor shall also provide necessary soft copies of the same.

For Superklean Envir. Engg. Pvt. Ltd.
Director.

# SCHEDULE OF EXCLUSIONS FROM CONTRACTOR'S SCOPE

1. Design of civil tanks - structures and preparation of RCC structural drawings, civil BOQ. etc
2. All Civil Foundation for all Pumps, Blowers, Membrane Fixing, DB Panel, Cleaning System, etc.
3. All civil works including grading / leveling of site foundations, building drains, pipe and underground cable trenches, grouting, platforms and staircase for equipmen
4. Plant and area illumination.
5. Air conditioning / ventilation system / exhaust fans from plant buildings.
6. Emergency power supply and illumination system.
7. All piping, cabling etc. beyond the termination points as mentioned in our offer.
8. Fire fighting system including appliances.
9. Lightening protection.
10. NOC / APPROVAL from Statutory Bodies. However, contractor shall extend all their support in terms of necessary documentations for getting the NOC / APPROVAL from Statutory Bodies.

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**ANNEXURE-II**

# TECHNICAL DETAILS OF THE PROPOSAL

**CONTENTS:**


1. **Design Data**
2. **Process Description**
3. **SEEPL Scope of Supply**
4. **Commercial Proposal**


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## 1. Design Data:-

**The Sewage treatment plant offer is designed using the following Inlet characteristics and Treated Water characteristics are as per Pollution Control Board.**

**Table: 1**

| SR. NO | PARAMETER | INCOMING SEWAGE CHARACTERISTICS | TREATED WATER CHARACTERISTICS | Unit |
|---|---|---|---|---|
| 1 | Flow | 1015 $m^3$/Day | < 1015 $m^3$ /day | - |
| 2 | pH | 6.0 to 8.0 | 6.0 to 8.0 | - |
| 3 | Suspended Solid | 200 | <= 50 | Mg/l |
| 4 | COD | 500 | <= 50 | Mg/l |
| 5 | BOD | 250 | <= 10 | Mg/l |

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## 2.0 Process Description:-

The active biological process is performed using an extremely efficient Moving Bed Bio Reactor.

The flow of raw sewage through MBBR up to the final Sewage treatment is as follows:

**PRIMARY TREATMENT:**

**Screen Chamber:**

Screen Chamber with Bar Screen & Fine Perforated Screen are provided to remove suspended large floating matters. The retained materials are manually removed with the help of rack and dispose of as per standard.

**Collection Tank:**

This is a RCC Tank. From the Screen Chamber sewage liquid is collected in this tank for Equalization.. It is provided with Pipe Air Grid in the bottom which is connected to Air Blower. Air is applied in the bottom pipe grid for mixing & preventing septic condition.

**SECONDARY TREATMENT:**

**Sewage Transfer Pump:**

Sewage Transfer Pumps are provided to transfer sewage from Collection Tank to MBBR.

**MBBR Reactor (Moving Bed Bio Reactor):**

This is a RCC tank. Sewage liquid is transfer to MBBR reactor for biological oxidation in presence of bacteria. Oxygen is supplied for bacterial growth from Air Blower and connected to Fine Air Bubble Diffuser placed in the bottom of the tank. The floating media are placed in this tank for bacteria to remain attached to it. Only dead bacteria will detached from the media and will overflow to Lamella Clarifier.

**Lamella Clarifier Tank:**

This is RCC tank. MBBR reactor treated water is clarified in this Lamella Clarifier. Initially Sludge is collected in the bottom is re-circulated back to MBBR reactor till stabilization. After stabilization of MBBR reactor, dead bacteria are collected in the bottom are dispose off as sludge by filtering in Filter Press. Clarified liquid overflows from the top of Lamella Clarifier to Filter Feed Tank.

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**Filter Feed Tank:**

This is a RCC tank. Overflow of the clarifier tank is collected in this tank for transferring to Pressure Sand & Activated Carbon Filter using pressure pump.

**Pressure Pump for Sand and Carbon Filter**:

From Filter Feed Tank sewage liquid is transfer to Pressure Sand and Activated Carbon Filter using this pump.

**TERITARY TREATMENT:**

**Pressure Sand Filter:**

This is a MS vessel. Using multi grade filter media and pressure, Clarified top liquid is further filter for removing leftover suspended matter. Filter liquid passes through Activated Carbon Filter.

**Activated Carbon Filter**:

This is a MS vessel. Activated Carbon removes any leftover color and odor. The above treated water is collected in Treated Water Tank for the re-use of Gardening and Flushing. The backwashing of the above filter is carried out using multiport valve.

**Chlorine dosing system:**

Appropriate on line dosing will be done using dosing pump for disinfection.

**Treated Water Tank:**

This is a RCC tank. In this tank clear treated water will be collected for reuse for irrigation and flushing.

**Sludge Collection Tank:**

This is a RCC tank. Sludge from clarifier bottom and back washing of Pressure Sand and Activated Carbon Filter are collected in this tank. Using Filter Press Feed pump this is clarified in Filter Press.

**Filter Press Feed Pump:**

This Pump will transfer Sludge to Filter Press from Sludge Collection Tank.

**Filter Press:**

For concentrating Lamella Clarifier sludge and back washing of filters, Semi automatic Filter Press is provided. Cakes of sludge are form in Filter Press are removed manually and dispose of as per standard.

**Control Panel:**

Advanced Control Panel is provided for Single Point Operation of the total Treatment Plant. Automatic Transfer of liquid operation is controlled by level switches provided in the Collection Tank and Post Lamella Clarifier.

**Instrumentation:**

Instruments will be provided for measurement of flow, pressure and level switch for optimum electrical power consumption.

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## 3.Scope of Supply

**SUPERKLEAN SCOPE OF SUPPLY FOR STP (MBBR TECHNOLOGY)**

| Sr.No. | EQUIPMENT | QUANTITY | MAKE |
|---|---|---|---|
| 1. | M.S Bar Screen & Perforated SS Screen | 1 Set | SEEPL |
| 2. | Air Blowers for Collection tank & MBBR tank | **3 Nos.** (2W+1S) | Airvak / Everest/Equivalent |
| 3. | Sewage Transfer Pumps | **3 Nos.** (2W+1S) | Crompton Greaves/ Kirloskar/Equivalent |
| 4. | MBBR Media | 1 Lot | MM Aqua/ Guddi Plastcon/ Equivalent |
| 5. | Diffuser for MBBR Tank | 1 Lot | Rehau / Plus Equivalent |
| 6. | Lamella Clarifier Media | 1 Lot | Cooldeck /Equivalent |
| 7. | Pressure Pump for Filters | 2 Nos. (1W+1S) | Crompton Greaves/ Kirloskar/Equivalent |
| 8. | MS Pressure Sand filter | 1 No. | SEEPL |
| 9. | MS Activated Carbon filter | 1 No. | SEEPL |

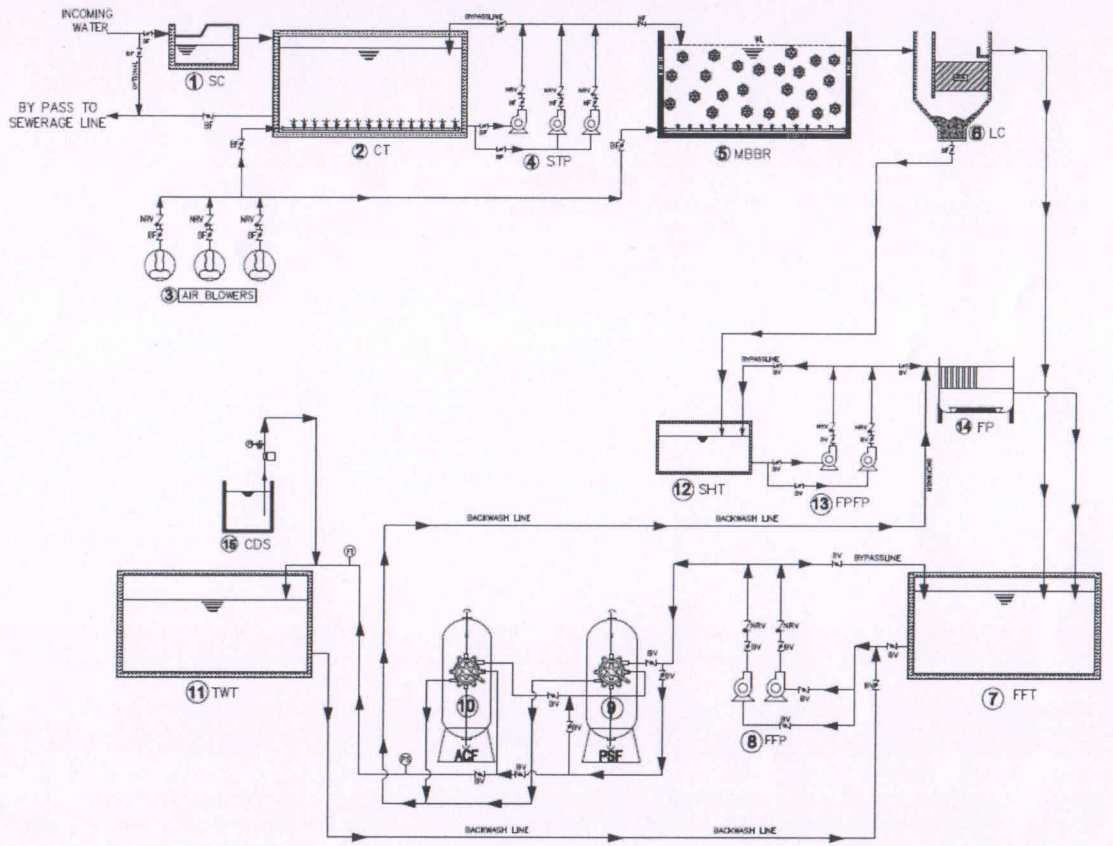
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| Sr. No. | EQUIPMENT | QUANTITY | MAKE |
|---|---|---|---|
| 10. | Sludge Transfer Pump for Filter Press and recycling | 2 Nos. (1W+1S) | Crompton Greaves/ Kirloskar/Equivalent |
| 11. | Semi Automatic Filter press | 1 No. | Welcome/Equivalent |
| 12. | Chlorine Dosing System | 1 Set | Swelore/ Equivalent |
| 13. | Advance Electrical Control Panel | 1 No. | SEEPL |
| 14. | Cabling from Control Panel to Plant Battery Limit | Lot | Polycab /Equivalent |
| 15. | Pipelines and pipefitting within plant Battery Limit | Lot | Prince/ Equivalent |
| 16. | Instrumentation (Level Switch, Pressure Gauge, Flow meter ) | Lot | Electronet/ Hanna/ Equivalent |

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RE-CYCLE WITH A SMILE

# ACME OZONE PLOT A
# MBBR TECHNOLOGY 1015 KLD STP




LEGEND

| SR NO. | TAG | UNITS | QTY |
|---|---|---|---|
| 1. | SC | SCREEN CHAMBER (Bar Screen&perforated ss Screen) | 1 |
| 2. | CT | COLLECTION TANK | 1 |
| 3. | AB | AIR BLOWER FOR CT & MBBR | 3 |
| 4. | STP | SEWAGE TRANSFER PUMP | 4 |
| 5. | MBBR | MOVING BED BIOREACTOR | 1 |
| 6. | LC | LAMELLA CLARIFIER – RCC | 1 |
| 7. | FFT | FILTER FEED TANK –RCC | 1 |
| 8. | FFP | FILTER FEED PUMP | 2 |
| 9. | PSF | PRESSURE SAND FILTER | 1 |
| 10. | ACF | ACTIVATED CARBON FILTER | 1 |
| 11. | TWT | TREATED WATER TANK–RCC | 1 |
| 12. | SHT | SLUDGE HOLDING TANK–RCC | 1 |
| 13. | FPFP | FILTER PRESS FEED PUMP | 2 |
| 14. | FP | FILTER PRESS | 1 |
| 15. | CDS | CHLORINE DOSING SYSTEM | 1 |

LEGEND

| Sr.no | Type | Name |
|---|---|---|
| 1 | —⋈— | BF(Butterfly valve) |
| 2 | Z | NRV(non-return valve) |
| 3 | ◄— | By Pumping |
| 4 | ◄— | By Pressure |
| 5 | ◄— | BackWash |
| 6 | ◄— | By Gravity |
| 7 | ⧖ | BV (Ball Valve) |
| 8 | —⊗— | Pressure Guage With Isolation Valve |
| 9 | Ⓕ | Flow Meter |

ALL THE RIGHT OF PROCESS IS OF SUPERKLEAN

NOTE: THE TANK SIZES ARE TENTATIVE AND CAN BE CHANGED AS PER SITE CONDITION.

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SUPERKLEAN ENV. ENG. PVT. LTD.
3A SUNMILL COMPOUND,
LOWER PAREL(W), MUMBAI– 400 013.
PH: 91–22–43111993.
e–mail: superklean@gmail.com

| Client | ACME HOUSING | Project | ACME OZONE PLOT A 1015 KLD THANE | Designed: | S.V | 25.09.14 | Approved: | AKG | Rev. no. | Date |
|---|---|---|---|---|---|---|---|---|---|---|
| Title: | P&I DIAGRAM | Drg. no. | SEE/ACM/DWG/1/1 | Drawn: | R.N | 25.09.14 | Checked: | AKG | | |
| | | | | Sheet no. 1 of 1 | | | | | | |

# ANNEXURE- A : Work contract value more than 5 lac per annum

As a contractor engaged by us for providing workmen at our project sites, you are required to comply with the following statutory requirements viz, documents & registers / Challans receipts / acknowledged copies as a part of statutory compliance.

Documents/Registration certificates listed at sr no 1 to 12 have to be submitted one time only. Any revision/amendment to it should be submitted as and when revised/renewed. Labour license (Ref sr 13) needs to be submitted once annually. The renewed copy has to be submitted to us as and when it is renewed. Items listed at sr 14 to 23 have to be submitted to us regularly on a monthly basis with your invoice. Proof of the same will be verified by IR Executive on regular basis. Passing of your invoice for payments will depend upon this.

| Sr. No. | Particulars | ACT | Frequency | Remark |
|---|---|---|---|---|
| 1 | P.F. Registration Certificate | P.F. | Onetime | Compulsory if yearly work contract more than 5 lac |
| 2 | ESI Registration Certificate | ESI | Onetime | Only for Electric contractor's |
| 3 | PT Registration Certificate | PT | Onetime | Compulsory to all |
| 4 | MLWF Registration Certificate | MLWF | Onetime | Compulsory to all |
| 5 | Workmen Compensation policy | Workmen Compensation | As per valid date of policy | Compulsory to all before engaging any labour in the premises of site. |
| 6 | PAN Card copy (For Accounts purpose) | General | One time | Compulsory |
| 7 | Service Tax registration certificate (For Accounts purpose) | Service Tax | One Time | As per accounts department requirement |
| 8 | VAT registration certificate (For Accounts purpose) | VAT | One Time | As per accounts department requirement |
| 9 | Work order | General | One time | Compulsory to all |
| 10 | Authority Letter in Annexure A | General | One time | Compulsory to all if documents signed other than owner of contractor. |
| 11 | CAR (Contractor all Risk) policy, if require as per agreement betn' us. | General | As per valid date of policy | As per terms conditions of engineering department and TOP Management. |
| 12 | Building and Other Construction registration certificate, if applicable | Building & Other | One Time | Compulsory if numbers of labour more than 10 at site. |

| | | | | |
|---|---|---|---|---|
| | | Construction Act | | |
| 13 | Contract Labour license, if applicable | Contract Labour Act | Yearly | Compulsory if number of labour 20 or more than 20 at site. |
| 14 | Copy of Muster roll cum wage register copy i.e. Payment disbursement sheet (Duly signed by workmen, contractor authorized representative) in Form II under Minimum Wages Act | Contract Labour Act | Monthly with bills | Compulsory to all. |
| 15 | ID Card to workers | Contract Labour Act | Monthly with bill for new joinee only. | Compulsory to all. |
| 16 | P.F. Challan | P.F. | Monthly with bills | Compulsory if yearly work contract more than 5 lac |
| 17 | PT Challan | PT | Monthly with bills | Compulsory to all. |
| 18 | ESI Challan | ESI | Monthly with bills | Compulsory to electric contractors' |
| 19 | M.L.W.F Challan | M.L.W.F. | Half Yearly (June & Dec) | Compulsory to all. |
| 20 | P.F. Form 11 in respect of uncovered employees from the beginning. 12. | PF | Monthly with bills | Compulsory to all. |
| 21 | P.F. ECR File (Highlight employees deployed at our site) | PF | Monthly bills | Compulsory if yearly work contract more than 5 lac |
| 22 | Notice under rule 62 if Contract Labour Act applicable | Contract Labour Act | Half yearly with bills | Compulsory if number of labour 20 or more than 20 at site. |
| 23 | Register of Workmen | Contract Labour Act | Monthly with bills | Compulsory to all. |

**Above all documents will be attested by an authorized signatory with seal.**

For further clarification please call on 9969893101 OR shyam@acmehousing.com

