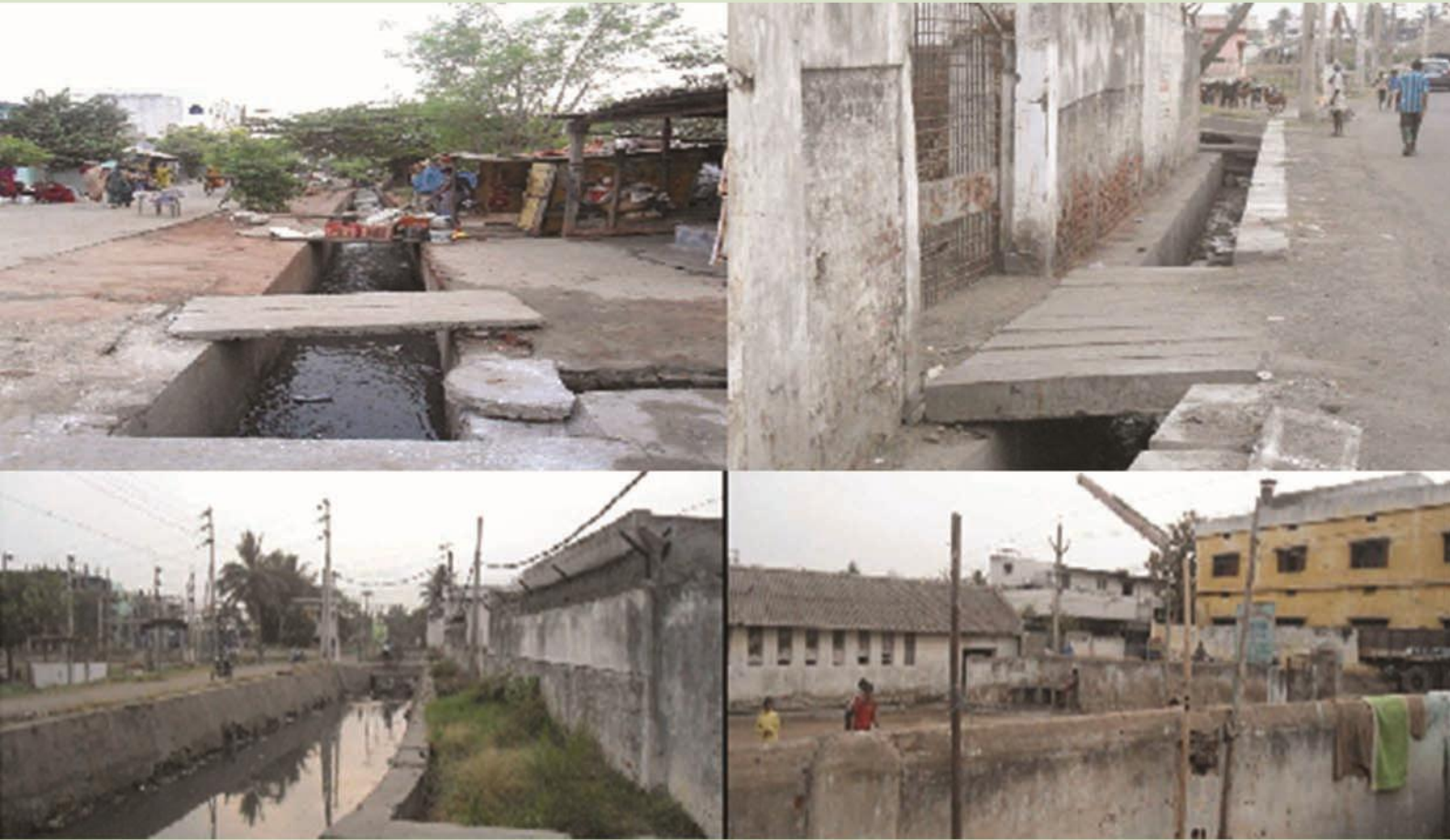




# ACCESSanitation

Accelerating City to City Exchange for Sustainable Sanitation  
Funded by Europe Aid



## TENDER DOCUMENT FOR PILOT PROJECT IMPLEMENTATION



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## I. DETAILED TENDER NOTICE

### ICLEI - LOCAL GOVERNMENTS FOR SUSTAINABILITY, SOUTH ASIA New Delhi

ICLEI - Local Governments for Sustainability, South Asia invites tenders for the construction of on-site treatment systems and public convenience complexes in Veerabadhra Nagar 1, Ward 16.

This tender is called towards implementing pilot projects in focus areas under the ACCESSanitation project funded by the European Commission. ICLEI South Asia invites the tender on behalf of the country (India) partners namely ICLEI South Asia and Ecosan Services Foundation, implementing the ACCESSanitation project in Rajahmundry city. This pilot project is supported by the Rajahmundry Municipal Corporation.

This tender is for construction of a public toilet complex and on-site decentralized wastewater treatment system in an identified and approved location in Veerabadhra Nagar.

Sealed Tenders are invited from experienced and technically qualified contractors having previous experience of similar types of works, on item rate basis.

**NAME OF WORK: - Construction of Community Toilet Block and Onsite Treatment plant at Veerabadhra Nagar, Ward No: 16, Rajahmundry.**

Sealed item rate tenders are invited for the following work, from the reputed and technically qualified Contractors in sealed covers, addressed to the Regional Manager ICLEI South Asia Southern Center 6-3-596/47/2, Venkatramana Nagar, Khairatabad, Hyderabad 500004, upto 12<sup>th</sup> Jan 2013 till 5.00 PM.

Blank tender forms and other information will be furnished by ICLEI South Asia on all working days except Sundays and public holidays declared by Government of Andhra Pradesh, during working hours from 10.30 AM to 05.00 PM at their office, as mentioned above. Tender documents may also be requested via e-mail by writing to ICLEI South Asia at [niroop.abbu@iclei.org](mailto:niroop.abbu@iclei.org)

1. Name of work : Same as above
2. Cost of each blank tender form : **Rs. 3000/-**(Non refundable) can be paid at the time of tender submission, if tender is purchased via internet.
3. Estimated cost of work put to tender : **Rs. 13, 03, 000/-**
4. Time Limit : **4 Months**
5. Earnest money : **Rs. 26,060/- only**
6. Security Deposit : **Rs. 52,120/- only**
  - a) Initial Security Deposit : **Rs. 26,060/- only**
  - and
  - b) Further Security Deposit to : **Rs. 26,060/- only** be deducted from R. A. bills.

**Signature of Contractor**

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7. Last date and time upto which : 10<sup>th</sup> Jan 2013 till 5.00PM  
blank tender forms will be issued
  8. Any queries regarding the tender documentation could be clarified by contacting ICLEI – South Asia, either via e-mail(niroop.abbu@iclei.org) or on the phone (+91-40-4003 4005), on any working day between 10:30 am and 05:30 pm, till 11<sup>th</sup> January, 2013.
  9. Date and time of receipt of tender : 12<sup>th</sup> Jan 2013 upto 5.00 PM.
  10. Award to the Tenderer or Company: The successful bidder shall be informed by the 18<sup>th</sup> of January, 2013. Tenders shall be scrutinized by the ACCESSanitation partners, based on evaluation criteria mentioned in this document and the successful bidder shall be informed by the 18<sup>th</sup> of January, 2013.
  11. Validity period : 21 Days
- The offer of the Contractor shall remain valid for acceptance for a minimum period of **21 days** from the date fixed for opening of envelope no. 2 (Main Tender).
12. The tender notice shall form a part of the contract agreement.
  13. The tenderer, firm or company, shall in their-forwarding letter, mention the names of all the partners/directors, of the firm or the company (as the case may be) and the name of the partner who holds the power of attorney if any, authorizing him to conduct transaction on behalf of the firm or company.
  14. Right is reserved to revise or amend the contract documents fully or part thereof prior to the date notified or amended for the receipt of tender. Such deviations/amendments if any shall be communicated in the form of corrigendum or by a letter as may be considered suitable.
  15. **In case of Item wise tender**, the tenderer shall enter the rates of particular items in the blank space as per enclosed sheet " Tender for the Work " the rates to be written in figures and. In case there is difference between written in figures and words the lower offer will be taken as final.
  16. Tenders which do not fulfill all or any conditions or are incomplete in any respect are liable to summarily rejection.
  17. Right is reserved to reject any or all tenders without assigning any reason thereof.
  18. No pages should be removed from, added in or replaced in the Tender.
  19. The Tenderer may, in the forwarding letter, mention any points he may wish to make clear but right is reserved to reject the same or the whole of the tenders if the same become conditional tender thereby.

## 1. GENERAL

- a) Time Limit: - The work is to be completed within time limit as specified in the Notice inviting tender which shall be reckoned from the date of written order of commencing the work and shall be inclusive of monsoon period, if any.
- b) Tender Rate: - No alteration in the form of tender and the schedule of tender and no additions in the scope of special stipulation will be permitted. Rates quoted for the tender shall be taken as application to all leads and lifts.
- c) Tender Units: - The tenderers should particularly note the unit mentioned in the Schedule on which the rates are based. No change in the units shall be allowed. In the case of difference between rates written in figures & words, the correct rate will be the one, which is lower of the two.
- d) Correction:- No corrections shall be made in the tender documents. Any corrections that are to be made shall be made by crossing the incorrect portion and writing the correct portions above with the initials of the tenderer.
- e) All pages of tender documents, conditions, specifications, correction slip & etc. shall be initialed by the tenderer. The tender should bear full signature of the tenderer, or his authorized power of attorney holder in case of firm.
- f) The Contract value is fixed and there will not be any more escalation in price.
- g) The Tax percentage in force from time to time or at the rate as intimated by the competent Income Tax authority shall be deducted from R.A. bill amount.
- h) If the Tendered withdraws his tender after the closing of the Tender and before the acceptance of his tender by the Authority, the tender deposit i.e. earnest money as specified in contract herein will be forfeited

## 2. EARNEST MONEY

2.1 Earnest money of **Rs. 26,060/- only (In words Twenty six thousand and sixty rupees only)** along with the tender should be in the form of Demand Draft of nationalized bank or FDR receipt for a period of six months issued by Nationalized / Scheduled Bank in favor of ICLEI South Asia, New Delhi.

2.2 Tenderer who do not deposit earnest money in one of the above acceptable forms their tender shall be summarily rejected without opening envelope no.2. Earnest money in any other form of cash or cheque will not be accepted.

2.3 The amount of earnest money will be refunded to the unsuccessful bidder on deciding about the acceptance or otherwise of the tender or on expiry of the validity period whichever is earlier. In case of the successful tenderer it will be refunded on his paying the initial security deposit and completing the tender documents or will be transferred towards a part of security deposit to be paid after awarding of the work. If successful tenderer does not pay the security deposit in the prescribed time limit and complete the agreement bond, his earnest money deposit will be forfeited.

2.4 Earnest money of the un-successful tenderers will be refunded on their application only after an intimation of rejection of their tender is sent to them or on the expiry of the validity period whichever is earlier.

### **3. TENDERING PROCEDURES**

#### **3.1 ISSUE OF BLANK TENDER FORMS**

Blank tender forms can be procured from the **office of the Regional Manager ICLEI South Asia Southern Center 6-3-596/47/2, Venkatramana Nagar, Khairatabad, and Hyderabad** or by sending a requisition email to ICLEI South Asia at [niroop.abbu@iclei.org](mailto:niroop.abbu@iclei.org). tender document will be issued only up to 05:00 pm on the 10<sup>th</sup> of January, 2013.

Blank tender forms may also be procured from the office of the Superintending Engineer, Rajahmundry Municipal Corporation, Opp. Anam Kala Kendram, Rajahmundry.

Tel: 0883-2479827. Mob: 9866657627

#### **3.2 QUERIES REGARDING THE TENDER**

3.2.1 Any queries regarding the tender documentation could be clarified by contacting ICLEI – South Asia, either via e-mail([niroop.abbu@iclei.org](mailto:niroop.abbu@iclei.org)) or on the phone (+91-40-4003 4005), on any working day between 10:30 am and 05:30 pm.

3.2.2 **IMPORTANT:-** All tenderers are cautioned that the tenders containing any deviation from the contractual terms and conditions, specifications or other requirements and conditions will be rejected as non responsive.

#### **3.3 MANNER OF SUBMISSION OF TENDER AND ITS ACCOMPAINMENTS**

- i) Tender shall be submitted in two separate sealed envelopes.
- ii) Tenderer shall submit the tender and documents in two sealed envelopes as below:-

##### **3.3.1 Envelope No. 1 (Documents)**

The first envelope clearly marked as "ENVELOPE NO 1" shall contain the following documents duly attested by a Class I officer.

a) Term Deposit Receipt for a period of six months of any Nationalized/Scheduled Bank for the amount of earnest money or attested copy of certificate of exemption for payment of earnest money, if applicable.

b) Details of Income Tax circle, or ward, of the district in which the tenderer is assessed to income tax, Tenderer's PAN No. & complete postal address with pin code & telephone no.

d) Details of the other works tendered for and in hand with the value of the work unfinished on the last date of submission of tender (in form no.1). i) Details of works of similar type and magnitude carried out by the Contractor, Work completion certificates should be provided.

k) Details of technical personnel on the pay rolls of tenderer,

**Signature of Contractor**

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l) Attested copy of registered partnership deed if the tenderer is a partnership firm and Power of Attorney.

m) Production of original or attested copy of valid registration with PWD, state govt or renewal certificate

n) Forwarding letter.

### 3.3.2 Envelope No. 2 (Main Tender): (Financial Bid)

The second envelope clearly marked as envelope no. 2 shall contain only the main tender including the common set of deviations and additional facilities (if any) issued by the Employer. A tender submitted without this would be considered as invalid.

The Contractor will have to sign the original copy of the tender papers and the drawing according to which the work is to be carried out. He shall also have to give a declaration to the effect that he has fully studied the plans, specifications, local conditions, availability of labor and materials and that he has quoted his rates with the consideration to all these factors.

The tenderer should quote his offer on Schedule at the appropriate place in the tender document to be submitted only in Envelope no. 2 under the heading TENDER FOR WORKS. He should not quote this offer anywhere directly or indirectly in envelope no.1. The Contractor shall quote for the work as per details given in the main tender. This tender shall be unconditional.

Even though the tenderers meet the above requirement they are subject to be disqualified if they have made misleading or false representations in the forms statements and attachments submitted in proof of the qualification requirements AND /OR Record of proof performance such as abandoning the works, not properly completing the contract, inordinate delay in completion or work litigation history or financial failures etc.

### 3.4 SUBMISSION OF TENDER

i) The two sealed envelopes 1 and 2 shall be again put together in one common cover and sealed. This sealed cover shall be marked on the left hand top corner **"Tender for the Work of Construction of Community toilet block with on-site treatment systems for Veerabadhra Nagar, ward No: 16, Rajahmundry**

ii) The full name and address of the tenderer shall be written on the bottom left hand corner. If submitted by post, the sealed envelope marked as above, shall be enclosed in another cover properly addressed and shall be sent by Registered Post Acknowledgement Due. The date and time for receipt of envelope containing tender shall strictly apply in all cases. The tenderers should ensure that their tender is received by the EMPLOYER, .before the expiry of the date and time. No delays on account of any cause will be entertained for the late receipt of the tender. Tender offered or received after the due date and time is over will either not be accepted or if inadvertently accepted, will not be opened and shall be returned to the tenderer unopened.

iii) All Xerox copies submitted in connection with tender shall be attested by class I officer. Otherwise their tender will not be considered for further action & envelope No. 2 will not be opened.

### 3.5 EVALUATION OF TENDERS

Tenders shall be evaluated based on the competency and cost effectiveness of the submitted bid. Each tender shall be evaluated based on stipulated technical and financial criteria.

Technical criteria – 10 points each

1. Relevant Past Experience -
2. Qualification of Team
3. Financial stability

Financial Criteria – 20 points

1. Financial turnover should be at least 50 lakhs.
2. Working limits from the bank.

### 3.6 OPENING OF TENDERS

On the date specified in the tender notice, following procedure will be adopted for opening of the tender. Tenders will be opened by ACCESSanitation partners, and assessed based on an equal and fair policy.

Envelope No.1:- First of all, Envelope No.1 of the tenderer will be opened to verify its contents as per requirements. If the various documents contained in this envelope do not meet the requirements of the and if the tenderer do not get a minimum score of 30 - based on the evaluation criteria, a note will be recorded accordingly by the tender opening authority and the said tenderer's Envelope No.2 will not be considered for further action but the same will be recorded.

Envelope No. 2 :- This envelope shall be opened immediately after opening of Envelope No.1, only if the contents of Envelope No.1 are found to be acceptable to the Employer, the tendered offer shall then be read out.

### 3.7 ACCEPTANCE OF TENDER

3.7.1 The acceptance of tender may be communicated to the Contractor by telephone/mail etc

3.7.2 The tenderer whose tender is accepted will have to give an undertaking in writing to the effect that he/they will pay the laborers engaged on the work, the wages as per Minimum Wages Act, 1948, applied to the zone in which the work lies and act accordingly.

3.7.3 The Contractor shall comply with the provisions of the payment of Wages Act, 1936, Minimum Wages Act, 1948, Employees' Liability Act, 1938, Workmen's Compensation Act, 1961, The Contract Labor (Regulation and Abolition) Act; 1970, and any modification thereof or any law relating thereto, and rules made there under from time to time.

3.7.4 The Contractor will have to sign the original copy of the tender papers and the drawings according to which the work is to be carried out. These drawings shall be made available after the successful tendered has been selected. The Contractor shall also have to give a declaration to the

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effect that he has fully studied the plans, specifications, local conditions, and availability of labor and materials and that he has quoted his rates with due consideration to all these factors.

### 3.8 SECURITY DEPOSIT

3.8.1 The successful tenderer shall have to pay 50% of initial security deposit in cash or in shape of or Term Deposit Receipt of Nationalized / Scheduled Banks in favor of the EMPLOYER or and complete the contract documents failing which his earnest money will be forfeited by the the employer. The balance 50% of security deposit will be recovered from the R.A. bills at 8 % of the bill amount. In any case the total SD will be recovered before 50 % of the work will be completed.

3.8.2 All compensation or other sums payable by the Contractor under the terms of this contract or any other contract or on any account may be deducted from this Security Deposit or from any sums which may be due to him or may become due to him by Employer on any account and in the event of the security being reduced by reason of any such above noted deductions, the Contractor shall within 10 days of receipt of notice of demand from the EMPLOYER in charge make good the deficit.

3.8.3 There shall be no liability on the Employer to pay any interest on the Security Deposited by or recovered from the Contractor.

3.8.4 The Security Deposit shall be refunded after completion of defect liability period prescribed for this contract in accordance with the provisions in clause of the contract.

## CONDITIONS OF CONTRACT

**Contracting authority: ICLEI - Local Governments for Sustainability, South Asia**

**PMC: ICLEI South Asia and Ecosan Services Foundation.**

### ***Clause 1: Compensation for Delay***

The time allowed for carrying out the work as entered in the tender shall be strictly observed by the Contractor and shall be reckoned from the date on which the order to commence work is given to the Contractor. The work shall throughout the stipulated period of the contract be proceeded with, with all due diligence (time being deemed to be the essence of the contract on the part of the Contractor) and the Contractor shall pay compensation an amount equal to one percent or such smaller amount as the EMPLOYER (whose decision in writing shall be final) may decide, of the amount of the estimated cost of the whole work as shown by the tenderer for everyday that the work remains unfinished after the proper dates. The programme for completion of work is to be submitted / attached in form of bar chart. The Contractor is supposed to carry out the work and keep the progress as per bar chart. The Contractor should complete the work as per phase period given below, which is to be arrived from the bar chart.

1/4<sup>th</sup> of the work in \_\_\_\_\_\*\*      1/4<sup>th</sup> of the time

1/2 of the work in \_\_\_\_\_\*\*      1/2 of the time

3/4<sup>th</sup> of the work in \_\_\_\_\_\*\*      3/4<sup>th</sup> of the time

Full work to be completed in **04 calendar months** (Including monsoon)

### ***Clause 2: Action when the progress of any particular portion of the work is unsatisfactory***

If the progress of any particular portion of the work is unsatisfactory, the Employer shall notwithstanding that the general progress of the work, be entitled to take action after giving the Contractor 5 days' notice in writing. The Contractor will not claim for compensation, for any loss sustained by him owing to such action.

### ***Clause 3: Final Certificate***

On the completion of the work the Contractor shall be furnished with a Final certificate. certificate by the Employer - of such completion, but no such certificate shall be given nor shall the, work be considered to be completed until the Contractor shall have removed from the premises on which the work shall have been executed, all scaffolding, surplus materials and rubbish, and shall have cleaned off the dirt from all wood work, doors, windows, walls, floor or other parts of any 'building in or upon which the work has been executed, or of which he may have had possession for the purpose of executing the work, nor until the work shall have been measured by the PMC or where the measurements have been taken by his subordinates until they have received approval of the Employer/PMC the said measurements being binding and conclusive against the Contractor.

### ***Clause 4: Payment on intermediate certificate to be regarded as advances***

The Contractor shall on submitting a monthly bill therefore, be entitled to receive payment proportionate to the part of the work than approved and passed by the Employer/PMC. Whose certificate of such approval and passing of the sum so payable shall be final and conclusive against the Contractor. The final bill shall be submitted by the Contractor within one month of the date fixed for the completion of the work, otherwise the Engineer-in-charge's certificate of the measurements and of the total amount payable for the work shall be final and binding on all parties

**Clause 5: *Bill to be submitted monthly.***

A bill shall be submitted by the Contractor to the i.e ICLEI in each month on or before the date fixed by the Employer/PMC for all works executed in the previous month, If the Contractor does not submit the bill within the time fixed as aforesaid, the Employer/PMC may depute a subordinate to measure up the said work in the presence of the Contractor or his duly authorized agent whose counter signature to the measurement list shall be sufficient warrant, and the Employer/PMC may prepare a bill from such list which shall be binding on the Contracts in all respects.

**Clause 6: *Bills to be on Printed form***

The Contractor shall submit bills on printed forms, which will be furnished subsequent to selection of the contractor. The charges to be made in the bills shall always be entered at the rates specified in the tender at the rates hereinafter provided for such work.

**Clause 7: *Works to be executed in accordance with specifications, drawings orders etc.***

The Contractor shall execute the whole and every part of the work in the most substantial and workmanlike manner, and both as regards materials and every other respect in strict accordance with specifications. The Contractor shall also conform exactly, fully and faithfully to the designs, drawings and instructions in writing relating to the work signed by the Employer/PMC The Contractor will be entitled to receive three sets of contract drawings and working drawings as well as one certified copy of, the accepted tender along with the work order free of cost.

**Clause 8: *Alterations in specifications and designs not to invalidate contracts' b) Rates for works not entered in estimate or schedule of rate of the district.***

The Employer/PMC shall have power to make any alterations in or additions to the original specifications, drawings, designs, and instructions that may appear to him to be necessary or advisable during the progress of the work, and the Contractor shall be bound to carry out the work in accordance with any instructions in this connection which may be given to him in writing signed by the Employer/PMC and such alteration shall not invalidate the contract, and any additional work which the Contractor may be directed to do in the manner above specified as part of the work shall be carried out by the Contractor on the same conditions in all respects on which he agreed to do the main work, and at the same rates as are specified in the tender for the main work. And if the additional and altered work includes any class of work for which no rate is specified in this contract, then such class of work shall be carried out at the rates entered in the Schedule of Rates of the Division or at the rates mutually agreed upon between the Employer/PMC and the Contractor, whichever are lower. If the additional or altered work for which no rate is entered in the Schedule of Rates of the Division, is ordered to be carried out before the rates are agreed upon then the Contractor shall within seven days of the date of receipt by him of the order to carry out the work, inform the Employer/PMC of the rate which it is his intention to charge for such class of work. In the event of a dispute the decision of the Employer/PMC will be final. Where, however, the work is to be

executed according to the designs, drawings and specifications recommended by the Contractor and accepted by the Competent Authority the alterations above referred to shall be within the scope of such designs, drawings and specifications appended to the tender.

**Clause 9: *Time limit for unforeseen claims***

Under no circumstances whatever shall the Contractor be entitled to any compensation from Employer on any account unless the Contractors shall have submitted a claim in writing to the PMC within one month of the case of such claim occurring.

**Clause 10: *Work to be open to inspection & Contractor or responsible agent to be present.***

All works under or in course of execution or executed in pursuance of the contract shall at all times be open to the inspection and supervision of the Engineer-in charge and his subordinates, and the Contractor shall at all times during the usual working hours, and at all other times at which reasonable notice of the intention of the Employer/and his subordinates to visit the work shall have been given to the Contractor, either himself be present to receive orders and instructions, or have a responsible agent duly accredited in writing present for that purpose. Orders given to the Contractor's duly authorized agent shall be considered to have the same force and effect as if they had been given to the Contractor himself

**Clause 11: *Notice to be given before work is covered up.***

The Contractor shall give not less than five days' notice in writing to the Employer/PMC or his subordinate in charge of the work before covering up or otherwise placing beyond the reach of measurement any work in order that the same may be measured and correct dimensions thereof taken before the same is so covered up or placed beyond the reach of measurement and shall not cover up or place beyond the reach of measurement any work without the consent in writing of the PMC or his subordinate in charge of the work, and if any work shall be covered up or placed beyond the reach of measurement, without such notice having been given or consent obtained the same shall be uncovered at the Contractor's expense, and in default thereof no payment or allowance shall be made for such work or for the materials with which the same was executed.

The defect liabilities period in particular for waterproofing treatment (building works) shall be 1 year and contractor has to give the warrant for such period to make good any defects occurring in this period.

**Clause 12: *Contractor to supply plant, ladder, scaffolding etc and is liable for damages arising from non-provisions light, fencing etc.***

The Contractor shall supply at his own costs all material (except such special materials, if any, as may, in accordance with the contract, be supplied from the P. W. D. stores), plant, tools, appliances, implements, ladders, cordage, tackles scaffolding and temporary works requisite or proper for the proper execution of the work, whether in the original, altered or substituted form, and whether included in the specification or other documents forming part of the contract or reference to in these conditions or not and which may be necessary for the purpose of satisfying or complying with the requirements of the PMC as to any matter as to which under these conditions he is entitled to be satisfied, or which he is entitled to require together with the earnings therefore to and from the work. List of machinery in Contractor's possession and which they propose to use on work should be submitted along with the tender.

**Clause 12 (A)** - The Contractor shall provide suitable scaffolds and working platforms, gangways and stairways and shall comply with the following regulations in connection therewith –

- a) Suitable scaffolds shall be provided for workmen for all works that cannot be safely' done from a ladder or by other means.
- b) A scaffold shall not be constructed, taken down or substantially altered except :-
  - i) under the supervision of a competent and responsible person; and
  - ii) as far as possible by competent workers possessing adequate experience in this kind of work.
- c) All scaffolds and appliances connected therewith and ladders shall
  - i) be of sound material.
  - ii) be of adequate strength having regard to the loads and stains to which they will be subjected, and
  - iii) be maintained in proper condition.
- d) Scaffolds shall be so constructed that no part thereof can be displaced in consequence of normal use.
- e) Scaffolds shall not be over-loaded and so far as practicable the load shall be evenly distributed. .
- f) Before installing lifting gear scaffolds special precautions shall be taken to ensure the strength and stability of scaffolds.
- g) Scaffolds shall be periodicity inspected by a competent person. .
- h) Before allowing a scaffold to be used by his workmen the Contractor shall, whether the scaffold has been erected by his workmen or not, take steps to ensure that it complies fully with the regulations herein specified,
  - i) Working platform, gangways, stairways shall
    - i) be so constructed that no part thereof can sag unduly or unequally.
    - ii) be so constructed and maintained, having regard to the prevailing conditions as to reduce as far as practicable risks of persons tripping or slipping, and
    - iii) be kept free from any unnecessary obstruction,
  - j) In the case of working platform', gangways, working places and stairways at a height exceeding 2 meters (to be specified),
    - i) every working platform and every gangway shall be closely boarded unless other adequate measures are taken to ensure safety)
    - ii) Every working platform and gangway shall have adequate width; and
    - iii) Every working platform, gangway, working place and stairway shall be suitably fenced,
  - k) Every opening in the floor of a building or in a working platform shall except for the time and to the extent required to allow the excess of persons or the transport or shifting of material be provided with suitable means to prevent the fall of persons or materials.
  - l) When persons are employed on a roof where there is a danger of falling from a height exceeding 2 meters (to be specified) suitable precautions shall be taken to prevent the fall of persons or materials, m) Suitable precautions" shall be taken to prevent persons being struck by articles which might fall from scaffolds or other working places.
  - n) Safe means of access shall be provided to all working platforms and other working places.
  - o) The Contractor (s) will have to make payments to laborers as per Minimum Wages Act 1948.

**Signature of Contractor**

**No. of corrections**

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**Clause 12 (B)** - The Contractor shall comply with the following regulations as regards the Hoisting Appliances to be used by him :-

a) Hoisting machines' and tackles, including their attachments, anchorages and supports shall  
i) Be of good mechanical construction, sound material and adequate strength and free from patent defect,

**And**

- ii) Be kept in good repair and in good working order.
- b) Every rope used in hoisting or lowering materials or as a means of suspension shall be of suitable quality and adequate strength and free from patent defect.
- c) Hoisting machines and tackles shall be examined and adequately tested after erection on the site and before use and be re-examined in position at intervals to be prescribed by the Government.
- d) Every chain, ring, hook, shackle, swivel and pulley block used in hoisting or lowering materials or as a means of suspension shall be periodically examined.
- e) Every crane driver or hoisting appliance operator shall be properly qualified.
- f) No person who is below the age of 21 years shall be in control of any hoisting machine, including any scaffold which or give signals to the operator.
- g) In case of every hoisting machine and of every chain, ring, hook, shackle, swivel and pulley block used in hoisting or lowering or as a means of suspension, the safe working load shall be ascertained by adequate means.
- h) Every hoisting machine and all gear referred to in preceding regulation shall be plainly marked with the safe working load.
- i) In the case of a hoisting machine having a variable safe working load each safe working load and the conditions under which it is applicable shall be clearly indicated.
- j) No part of any hoisting machine or any gear referred to in regulation (g) above shall be loaded beyond the safe working load except for the purpose of testing.
- k) Motors, gearing transmissions, electric wiring and other dangerous parts or hoisting appliances shall, be provided with efficient safeguards.
- l) Hoisting appliances shall be provided with such means as will reduce to minimum and the risk of the accidental descent of the load.
- m) Adequate precaution shall be taken to reduce to a minimum the risk of any part of a suspended load becoming accidentally 'displaced.

**Clause 13: Measure for prevention of fire.**

The Contractor shall not set fire to any standing jungle, trees, brushwood or grass without a written permission from the Employer. When such permit is given, and also in the cases when destroying, cut or dug up trees, brushwood, grass etc. by fire, the Contractor shall take necessary measures to prevent such fire spreading to or otherwise damaging surrounding property. The Contractor shall make his own arrangements for drinking water for the labor employed by him and provide sanitary and other arrangements.

**Clause 14: Liability of Contractor for any damage done in or outside work area**

Compensation for all damages done intentionally or unintentionally by Contractor's labor whether in or beyond the limits of Government property including any damage caused by the spreading of fire mentioned in Clause 22 shall be estimated by the PMC or such other officer as he may appoint and the estimate of the PMC subject to the decision of the -Employer on appeal shall be final and the

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Contractor shall be bound to pay the amount of the assessed compensation on demand, failing which, the same will be recovered from the Contractor as damages in the manner prescribed in Clause or deducted by the PMC from any sums that may be due or become due from Government to Contractor under this contract or otherwise.

The Contractor shall bear the expenses of defending any action or other legal proceedings that may be brought by any person for injury sustained by him owing to neglect of precautions to prevent the spread of fire and he shall pay any damages and cost that may be awarded by the court in consequence.

**Clause 15: Work not to be sublet. Contract may be rescinded and security deposit forfeited for subletting it without approval or for bribing a public officer or if contractor becomes insolvent**

- The contract shall not be assigned or sublet without the written approval of the Engineer-in-charge. And if the Contractor shall assign or sublet his contract, or attempt to do so, or become insolvent or commence any proceedings to get himself adjudicated and insolvent or make any composition with his creditors, or attempt so to do or if bribe, gratuity, gift, loan, perquisite, reward or advantage, pecuniary or otherwise shall either directly or indirectly be given, promised or offered by the Contractor or any of his servants or agents to any public officer or person in the employ of Government in any way relating to his office or employment, or if any such officer or person shall become in any way directly or indirectly interested in the contract, the Employer/PMC may thereupon by notice in writing rescind the contract, and the security deposit of the Contractor shall thereupon stand forfeited and be absolutely at the disposal of Government, and the same consequences shall ensure as if the contract had been rescinded under Clause 3 thereof and in addition the Contractor shall not be entitled to recover or be paid for any work therefore actually performed under the contract.

**Clause 16: Compensation under work-men's compensation Act.**

- The Contractor shall be responsible for and shall pay any compensation to his workmen payable under the Workmen's Compensation Act, 1923 (VIII of 1923), hereinafter called the said Act) for injuries caused to the workmen. If such compensation is payable/paid by the Government as principal under sub-section (1) of Section 12 of the said Act on behalf of the Contractor, it shall be recoverable by the Government from the Contractor under sub-section (2) of the said section. Such Compensation shall be recovered in the manner laid down in Clause 1 above.

**Clause 16 (A)** - The Contractor shall be responsible for and shall pay the expenses of providing medical aid to any workman who may suffer a bodily injury as a result of an accident. If such expenses are incurred by Government the same shall be recoverable from the Contractor forthwith and be deducted without prejudice to any other remedy of Government from any amount due or that may become due to the Contractor.

**Clause 16 (B)** - The Contractor shall provide all necessary personal safety equipment and first aid apparatus available for the use of the persons employed on the site and shall maintain the same in condition suitable for immediate use at any time and shall comply with the following regulations in connection therewith.

a) The workers shall be required to use the equipments so provided by the Contractor and the Contractor shall take adequate steps to ensure proper use of the equipment by those concerned.

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b) When work is carried on in proximity to any place where there is a risk of drowning all necessary equipment shall be provided and kept ready for use and all necessary steps shall be taken for the prompt rescue of any person in danger.

c) Adequate provision shall be made for prompt first aid treatment of all injuries likely to be sustained during the course of the work.

**Clause 16 (C)** -The Contractor shall duly comply with the provisions of The Apprentices Act, 1961" (III of 1961), the rules made there under and the orders that may be issued from time to time under the said Act and the said Rules and on his failure or neglect to do so he shall be subjected to all the liabilities and penalties provided by the said Act and said Rules.

**Clause 17: Claim for quantities entered in the tender or estimates**

Quantities in respect of the several items shown in the tender are approximate and no revision in the tendered rate shall be permitted in respect of any of the items so long as, subject to any special provision contained in the specifications prescribing a different percentage of permissible variation in the quantity of the item does not exceed the tender quantity by more than 25% percent and so long as the value of tidies excess quantity beyond this limit at the rate of the item specified in the tender, is not more than Rs.5,000/-.

(2) The Contractor shall if ordered in writing by the Engineer so to do, also carry out any quantities in excess of the limit mentioned above in sub clause (i) hereof on the same conditions as and in accordance with the specifications in the tender and at the

rates (i) derived from the rates entered in current schedule of rates and in the absence of such rates (ii) at the rates prevailing in the market

**Clause 18: Claim for compensation for delay in starting the work**

- No compensation shall be allowed for any delay caused in the starting of the work on account of acquisition of land or, in the case of clearance works; on account of any delay in accordance to sanction of estimates

**Clause 19: Claim for compensation for delay in execution of work**

No compensation shall be allowed for any delay in the execution of the work on account of water, standing in borrows pits or compartments. The rates are inclusive for hard or cracked soil, excavation in mud, sub-soil, water standing in borrows pits and no claim for an extra rate shall be entertained unless otherwise expressly specified.

**ADDITIONAL GENERAL CONDITIONS & SPECIFICATIONS**

**1. PROGRAMME OF WORK**

The work is required to be completed within a stipulated period of **04 month** (including the monsoon period). The tentative programme may be as per the Bar-chart.

**2. DAMAGE BY FLOODS OR ACCIDENTS:-**



The Contractor shall take all precautions against damage by floods or like or from accident etc. No compensation will be allowed to the Contractor on this account or for correcting and repairing any such damage to the work during construction. The Contractor shall be liable to make good at his cost any plant or materials belonging to the Government lost or damaged • by floods or from any other cause which is in his charge.

**3. SUPERVISION AND INSPECTION OF WORKS AND QUALITY CONTROL**

**3.1 SUPERVISION**

The Contractor shall either himself supervise the execution of the works or shall appoint the competent agent approved by the Engineer-in-charge, to act on his behalf. If in the opinion of the -Employer/PMC, the Contractor has himself no sufficient knowledge and experience of receiving instructions or cannot give his full attention to the works, the Contractor shall at, his own expenses employ as his accredited agent a qualified Engineer approved by the - Employer/PMC

Orders given to the Contractor's agent shall be considered to have the force as if these had been given to the Contractor himself.

**3.2 INSPECTION**

The Contractor shall inform the Employer/PMC in writing when any portion of the work: is ready for inspection giving him sufficient notice to enable him to inspect the same without affecting the further progress of the work. The work shall not be considered to have been completed in accordance with the terms of the contract until the Employer/PMC shall "have certified in writing to that effect. Approval of materials or workmanship or approval of " part of the work during the progress of execution shall not bind the PMC or in any way affect him even to reject the work which is alleged to be completed and to suspend the issue of his certificate of completion until such alteration and modifications or reconstruction have been effected at the cost of the Contractor as shall enable him to certify that the work has been completed to his satisfaction.

**4. INITIAL MEASUREMENTS FOR RECORD**

Where, for proper measurement of the work, -- & necessary to have an initial set of levels or other measurements taken, the same as re-corded in the authorized field book or measurement book of -Employer/PMC or his authorized representative will be signed by the Contractor who. will be entitled to have a true copy of the same made at his cost. Any failure on the part of the Contractor to get such levels etc., recorded before starting the work will render him liable to accept the decision of the –Employer/PMC as to the basis of taking measurements. Like-wise the Contractor will not cover any work which will render its subsequent measurements difficult or impossible without first getting the same jointly measured by himself and the authorized representative of the Employer. The record of such measurements on the Employer/PMC side will be signed by the Contractor and he will be entitled to have a true copy of the same made at his cost.

**QUALITY CONTROL TESTS AND FREQUENCY TABLE**

Sr. No	Material	Test	Frequency
1.	Masonry Stone	i) Compressive Strength. ii) Crushing value.	A set of 5 stones for each quarry and for doubtful quality
2.	Metal	i) Crushing value. ii) Impact value. iii) Abrasion value. iv) Water Absorption.	One test per 200 Cum or part thereof / change in quarry
3.	Bricks.	i) Crushing Strength. ii) Water Absorption.	A set of 15 bricks for each 50,000 consignment or part thereof
4.	Glazed Tiles.	i) Water Absorption.	A set of 16 tiles for each 200 tiles.
5.	Cement.	i) Compressive Strength. ii) Initial setting time. iii) Final setting time. iv) Specific Gravity. v) Soundness. vi) Fineness.	One test for each consignment of 50 M.T (1000 bags) or part thereof,
6.	Steel.	i) Weight per meter. ii) Ultimate tensile stress. iii) Yield stress. iv) Elongation.	One test for every 5.00 M.T or 1 part thereof for each diameter.
7.	Granular	i) Density of compacted layer. ii) C.B.R.	One test per 200 Cum as required
8.	Cement Concrete.	i) Mix design.	At the beginning and if there is change in source.
9.	Reinforcement steel bars.	i) Tensile strength. ii) % Elongation.	One test for every 5.0 M.T or part thereof for each diameter.

## 5. SAFETY CODE

Suitable scaffolds shall be provided for workmen for all works that cannot safely be done from the ground, or from construction-except such short period works as can be done safely from ladders

## 6. PAYMENTS

### a) **RUNNING BILLS**

One payment in a month will be granted by the Employer/PMC if the progress is satisfactory. Contractor should submit bills to the PMC in appropriate forms. The retention money of 10% on every RA bill to be cleared during the final payment

### b) **FINAL BILL**

The Contractor should submit final bill within 30 days after completion of the work and the same will be paid if it is in order.

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## 7. CLAIMS

Bills for extra work or for any claim shall be paid separately apart from the interim bills for the main work. The payment of bills for the main work shall not be withheld for want of decision on the extras or claims not covered in the appendices.

Claims for extra work shall be registered within 15 days of occurrence of the event. However, bills for these claims including supporting data/details may be submitted subsequently.

### Working Drawing

The Contractor shall submit two sets of working drawings on the base of which the measurements as aforesaid shall be based.

## 9. TECHNICAL COMPLETION REPORT

The Contractor shall submit Technical Completion report along with his final bill, which shall include.

- I) Detailed measurements
- II) Working Drawings
- III) Details of material brought on site and consumed in the work, which shall also indicate standard consumption and deviation, if any, with reasons.
- IV) Test results of all materials used in work with an abstract of total tests carried out and required as per frequency of tests as laid down in the relevant M.O.S.T specifications.

## 10. PHOTOGRAPHS

So as to observe the progress of work at different stages of execution of works the contractor shall take out colored photograph at 3 stages i.e. 1) Before execution 2) During execution 3) After completion of work Contractor shall take out at least 15 photographs of different location of each sub works at each stage. The photographs will be of post card size same shall be submitted along with the running bill in duplicate. No extra cost shall be paid to the contractor on this account.

### **FORM NO.1: STATEMENT OF PREVIOUS SIMILAR WORK**

SAMPLE FORM

**List of the works tendered for and in hand as on the date of submission of the tender**

Name of the Tenderer:

Sr. No:	Name of Work	Place & Country	Work in Hand		Anticipated date of completion	Work tendered for			Remarks
			Tendered Cost	Cost of Remaining Work		Estimated Cost	Date when decision is expected	Stipulated date of period of completion	
1	2	3	4	5	6	7	8	9	10

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**SPECIMEN FORM**

**DECLARATION TO BE FILLED IN BY THE CONTRACTOR /FIRM**

**SAMPLE FORM**

**Under clause no 3.3.1(f)**

**(This document should be on Original Stamp Paper of Rs, 100- not on Xerox Copy)**

**(To be submitted in ENVELOPE NO.1)**

Name of Work: - \_\_\_\_\_

\_\_\_\_\_

1. I / We, have the required machinery i.e .....etc. owned by me / us which can be spare for this work immediately after awarding I the work within a reasonable time. The documentary evidence i.e (i) copies of purchase bill in Envelope no.1.

**OR**

I / We, intend to hire the required machinery ---.....etc. from \_\_\_\_\_ who has promised to spare the said machinery for this work immediately after awarding the work, within a reasonable time the legal agreement of hire deed duly executed in front of magistrate / any other registration authority by government of Andhra Pradesh is given in Envelope no.1.

2. Any dispute arising with the owner of the land shall be amicably settled by me / us and it should not have any encumbrance on the work.
3. I / We. Shall observe the local authorities rules as would be applicable to all activities I; pertaining to the work.
4. I / WE shall be fully responsible to construct and maintain necessary approach road upto I the plant from the road and shall not claim any compensation whatsoever for this purpose.
5. I /WE shall also maintain the required standard traffic regulation system, without any extra v-cost to -Employer
6. That the Employer does not take any responsibility to acquire, maintain and utilize the land if for the above purpose.
7. I / WE am / are aware of the fact that I / WE, myself / ourselves shall have to make all ; arrangements, without any extra cost to Government to obtain the facilities if required such as Electric connection, Water supply, Telephone etc. and such other amenities as may be desired by the concerned authorities of the other Department also.
8. I / WE am / are aware that the erected .....shall be freely available for inspection to any authorities / representatives of PMC at any time without prior notice.
9. I / WE am / are aware that / We have to commence this .....under supervision of PMC or authorized / representative of PMC within maximum period of 10 days from the

date of issue of work order, failing which I/We shall be liable for the Security Deposit forfeiture

10. I / We have carefully gone through the conditions enlisted herewith and I / We shall abide by the same The above mentioned conditions are fully binding over me / us, I / We, am / are also aware that in case I / We shall not agree to these conditions Envelope No 2 of my / our tender will not be opened and I shall have no objection upon it.

**Name of Work:** - Construction of Community Toilet block along with Onsite Treatment Plant at Veerabadhra Nagar, Ward No: 16 Rajahmundry

**DECLARATION OF OFFER BY CONTRACTOR/FIRM**

I/We hereby declare that I/we have made myself/ourselves thoroughly conversant with the sub-soil conditions, the local conditions regarding all materials (such as stone, murum, sand, etc.) and labor of which I/we have based my/our rates for this work. The specifications, conditions, bore results and lead of materials to be used on this work have been carefully studied and understood by me/us before submitting this tender. I/We undertake to use only the best materials approved by the EMPLOYER, Integrated Unit, Hyderabad or his duly authorized assistant, before starting the work and to abide by his decision.

I/We hereby further declare that my/our tender is unconditional in every manner of whatsoever in nature.

I/We hereby undertake to pay the laborers' engaged on the work as per Minimum Wages Act, 1948 applicable to the zone concerned.

**TO BE FILLED BY THE CONTRACTOR**

I/We have quoted my/our offer rates in words as well as in figures. I/We further undertake to enter into contract with ICLEI – Local Governments for Sustainability, South Asia

**Name and Signature of Contractor(s) / Power of attorney holder**

**With complete address.**

**LETTER OF ACCEPTANCE**

**---- on letterhead paper of the Employer ----**

<<<<DATE>>>>

To:

<<<<NAME & ADDRESS of the contactor>>>>>>

Subject:

<<<<NOTIFICATION OF AWARD CONTRACT NO<<<<

This is to notify you that your Bid dated . . . DATE . . . for execution of the . . . . . NAME OF THE

CONTRACT AND IDENTIFICATION NUMBER, as given in the Appendix to Bid . . . . . for the Accepted Contract Amount of the equivalent of . . . . . AMOUNT IN NUMBERS AND WORDS AND NAME OF CURRENCY . . . . ., as corrected and modified in accordance with the Instructions to Bidders is hereby accepted by our Agency.

You are requested to furnish the Performance Security within 8 days in accordance with the Conditions of Contract.

We accept that \_\_\_\_\_ *[insert the name of Adjudicator proposed by the Bidder]* be appointed as the Adjudicator.

-

Authorized Signature: .....

Name and Title of Signatory: .....

Name of Agency: .....

Attachment: Contract Agreement



**CONTRACT AGREEMENT**

THIS AGREEMENT made the . . . . . day of . . . . ., . . . . ., between . . . . . NAME OF THE EMPLOYER. . . . . (here in after “the Employer”), of the one part, and . . . . . NAME OF THE CONTRACTOR. . . . .(here in after “the Contractor”), of the other part:

WHEREAS the *Employer* desires that the Works known as . . . . . NAME OF THE CONTRACT. . . . . should be executed by the Contractor, and has accepted a Bid by the Contractor for the execution and completion of these Works and the remedying of any defects therein,

The Employer and the Contractor agree as follows:

1. In this Agreement words and expressions shall have the same meanings as are respectively assigned to them in the Contract documents referred to.
2. The following documents shall be deemed to form and be read and construed as part of this Agreement. This Agreement shall prevail over all other Contract documents.

- (a) the Letter of Acceptance
- (b) the Bid
- (c) the Particular Conditions
- (d) the General Conditions;
- (e) the Specification
- (f) the Drawings; and
- (g) the completed Schedules,

3. In consideration of the payments to be made by the Employer to the Contractor as indicated in this Agreement, the Contractor hereby covenants with the Employer to execute the Works and to remedy defects therein in conformity in all respects with the provisions of the Contract.

4. The Employer hereby covenants to pay the Contractor in consideration of the execution and completion of the Works and the remedying of defects therein, the Contract Price or such other sum as may become payable under the provisions of the Contract at the times and in the manner prescribed by the Contract.

IN WITNESS whereof the parties hereto have caused this Agreement to be executed in accordance with the laws of . . . . . India.. on the day, month and year indicated above.

Signed by.....  
For and on behalf of the Employer

Signed by.....  
for and on behalf the Contractor

in the presence of:  
Witness, Name, Signature, ADDRESS, Date

In the presence of:  
Witness, Name, Signature, Address, Date

# INCLUSIONS

Name Of Work : A) Construction of Proposed Community Toilet Block						
Memorandum showing the approximate quantity of work to be carried out						
AS PER CPWD RATE 2012						
Item. No	Qty Estimated but may be more or less	Description	.	Unit	Rate in Rs.	Amount in Rupees
					In Figures	
1	46.33	Earth work in excavation by mechanical means (Hydraulic excavator) manual means over areas (exceeding 30cm in depth. 1.5 m in width as well as 10 sqm on plan) including disposal of excavated earth, lead upto 50m and lift upto 1.5m, disposed earth to be leveled and neatly dressed.	.	Cum		
2	23.17	Extra for excavating trenches for pipes, cables etc. in all kinds of soil for depth exceeding 1.5 m, but not exceeding 3 m. (Rate is over corresponding basic item for depth upto 1.5 metre).	.	Cum		
3	11.58	Earth work in excavation by mechanical means (Hydraulic excavator) manual means in foundation trenches or drains (not exceeding 1.5 m in width or 10 sqm on plan), including dressing of sides and Ramming of bottoms, lift upto 1.5 m, including getting out the excavated soil and disposal of surplus excavated soil as directed, within a lead of 50m. 2.8.1 All kinds of soil.	.	Cum		
4	27.80	Transporting the excavated material from site to 10 km outside including loading	.	Cum		

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		unloading etc complete			
5	13.93	Providing soling using 80mm size trap metal in centimeter layer including filling voids with sand/grit, ramming ,compacting, watering complete		Cum	
6	6.75	Providing and laying in position cement concrete of specified grade excluding the cost of centering and shuttering - All work up to plinth level.4.1.8 1:4:8 (1 Cement : 4 coarse sand : 8 graded stone aggregate 40 mm nominal size)		Cum	
7	7.56	Providing and laying in position specified grade of reinforced cement concrete, excluding the cost of centering, shuttering, finishing and reinforcement - All work up to plinth level :5.1.2 1:1.5:3 (1 cement : 1.5 coarse sand : 3 graded stone aggregate 20 mm nominal size)		Cum	
8	1.47	Reinforced cement concrete work in walls (any thickness), including attached pilasters, buttresses, plinth and string courses, fillets, columns,pillars, piers, abutments, posts and struts etc. up to floor five level, excluding cost of centering, shuttering, finishing and reinforcement 5.2.2 1:1.5:3 (1 cement : 1.5 coarse sand : 3 graded stone aggregate 20 mm nominal size)		Cum	
9	5.93	Reinforced cement concrete work in beams, suspended floors, roofs having slope up to 15° landings, balconies, shelves, chajjas, lintels, bands, plain window sills, staircases and spiral stair cases up to floor five level, excluding the cost of centering, shuttering, finishing and reinforcement, with 1:2:4 (1 cement : 2 coarse sand : 4 graded stone aggregate 20 mm nominal size).		Cum	

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10	5.41	Reinforced cement concrete work in arches, archribs, domes, vaults, shells, folded plate and roofs having slope more than 15° up to floor five level, excluding the cost of centering, shuttering, finishing and reinforcement, with 1:2:4 (1 cement : 2 coarse sand : 4 graded stone aggregate 20 mm nominal size).		Cum		
11	0.81	Reinforced cement concrete work in beams, suspended floors, roofs having slope up to 15° landings, balconies, shelves, chajjas, lintels, bands, plain window sills, staircases and spiral stair cases up to floor five level, excluding the cost of centering, shuttering, finishing and reinforcement, with 1:2:4 (1 cement : 2 coarse sand : 4 graded stone aggregate 20 mm nominal size).		Cum		
12	2.13	Steel reinforcement for R.C.C. work including straightening, cutting, bending, placing in position and binding all complete upto plinth level.5.22.6 Thermo-Mechanically Treated bars		MT		
13	39.96	Providing and laying water proofing treatment in sunken portion of WCs, bathroom etc., by applying cement slurry mixed with water proofing cement compound consisting of applying : a) First layer of slurry of cement @ 0.488 kg/sqm mixed with water proofing cement compound @ 0.253 kg/sqm. This layer will be allowed to air cure for 4 hours. b) Second layer of slurry of cement @ 0.242 kg/sqm mixed with water proofing cement compound @ 0.126 kg/sqm. This layer will be allowed to air cure for 4 hours followed with water curing for 48 hours. The rate includes preparation of surface, treatment and sealing of all joints, corners, junctions of pipes and masonry with polymer mixed slurry.		Sqm		
14	40.73	Providing and laying water proofing treatment on roofs of slabs by applying cement slurry mixed with water proofing cement compound consisting of applying: a) after surface preparation, first layer of slurry of cement @ 0.488 kg/sqm mixed with water proofing cement compound @ 0.253 kg/sqm. b) laying second layer of Fibre glass cloth when the		Sqm		

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		first layer is still green. Overlaps of joints of fibre cloth should not be less than 10 cm. c) third layer of 1.5 mm thickness consisting of slurry of cement @ 1.289 kg/sqm mixed with water proofing cement compound @ 0.670 kg/sqm and coarse sand @ 1.289 kg/sqm. This will be allowed to air cure for 4 hours followed by water curing for 48 hours. The entire treatment will be taken upto 30 cm on parapet wall and tucked into groove in parapet all around. d) fourth and final layer of brick tiling with cement mortar (which will be paid for separately. For the purpose of measurement the entire treated surface will be measured			
15	34.98	Brick work with common burnt clay machine moulded perforated bricks of class designation 12.5 conforming to IS: 2222 in superstructure above plinth level up to floor five level in cement mortar 1:6 (1 cement : 6 coarse sand) : 6.3.1 With F.P.S.(non modular) bricks		Cum	
16	43.05	Half brick masonry with common burnt clay F.P.S. (non modular) bricks of class designation 7.5 in foundations and plinth in : 6.12.2 cement mortar 1:4 (1 cement : 4 coarse sand)		Sq.m	
17	143.04	Rough cast plaster upto 10 m height above ground level with a mixture of sand and gravel or crushed stone from 6 mm to 10 mm nominal size, dashed over and including the fresh plaster in two layers, under layer 12 mm cement plaster 1:4 (1 cement : 4 coarse sand) and top layer 10 mm cement plaster 1:3 (1 cement : 3 fine sand) mixed with 10% finely grounded hydrated lime by volume of cement.13.19.1 Ordinary cement finish using ordinary cement		Sqm	
18	115.35	CEMENT PLASTER (IN FINE SAND) 13.1 12 mm cement plaster of mix :		Sqm	

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		13.1.1 1:4 (1 cement: 4 fine sand)			
19	54.04	6 mm cement plaster 1:3 (1 cement : 3 fine sand) finished with a floating coat of neat cement and thick coat of Lime wash on top of walls when dry for bearing of R.C.C. slabs and beams		Sqm	
20	115.35	INTERIOR FINISHING 13.37 White washing with lime to give an even shade : 13.37.1 New work (three or more coats)		Sqm	
21	54.04	Satna lime wash on walls with one coat.		Sqm	
22	143.04	Distemping with 1st quality acrylic distemper, having VOC (Volatile Organic Compound ) content less than 50 grams/ litre, of approved brand and manufacture, including applying additional coats wherever required, to achieve even shade and colour. 13.81.2 Two coats		sqm	
23	49.43	Kota stone slab flooring over 20 mm (average) thick base laid over and jointed with grey cement slurry mixed with pigment to match the shade of the slab, including rubbing and polishing complete with base of cement mortar 1 : 4 (1 cement : 4 coarse sand) : 11.26.1 25 mm thick		Sq.Mt	
24	12.00	Kota stone slabs 20 mm thick in risers of steps, skirting, dado and pillars laid on 12 mm (average) thick cement mortar 1:3 (1 cement: 3 coarse sand) and jointed with grey cement slurry mixed with pigment to match the shade of the slabs, including rubbing and polishing complete.		Sqm	

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25	50.64	Providing and fixing 1st quality ceramic glazed wall tiles conforming to IS: 15622 (thickness to be specified by the manufacturer), of approved make, in all colours, shades except burgundy, bottle green, black of any size as approved by Engineer-in-Charge, in skirting, risers of steps and dados, over 12 mm thick bed of cement mortar 1:3 (1 cement : 3 coarse sand) and jointing with grey cement slurry @ 3.3kg per sqm, including pointing in white cement mixed with pigment of matching shade complete. sqm		sqm		
26	0.16	Providing and fixing specified wood frame work consisting of battens 50x25 mm fixed with rawl plug and drilling necessary holes for rawl plug etc. including priming coat complete. 9.36.1 Kiln seasoned and chemically treated hollock wood		cum		
27	8.82	Providing and fixing ISI marked flush door shutters conforming to IS : 2202 (Part I) non-decorative type, core of block board construction with frame of 1st class hard wood and well matched commercial 3 ply Code Description Unit Rate No. SUBHEAD -9.0 WOOD AND PVC WORK 151 veneering with vertical grains or cross bands and face veneers on both faces of shutters : 9.21.3 25 mm thick (for cupboard) including ISI marked nickelplated bright finished M.S. piano hinges with necessary screws		Sqm		
28	15.75	9.27.1 35 mm thick shutters 9.27.1.1.2 Kiln seasoned and chemically treated hollock wood		sqm		
29	7.80	Providing and fixing panelling or panelling and glazing in panelled or panelled and glazed shutters for doors, windows and clerestory windows (Area of opening for panel inserts excluding portion inside grooves or rebates to be measured). Panelling for panelled or panelled and glazed shutters 25 mm to 40 mm thick : 9.7.1 Second class teak wood		Sqm		

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30	4.68	Providing precast cement concrete Jali 1:2:4 (1 cement : 2 coarse sand:4 graded stone aggregate 6 mm nominal size), reinforced with 1.6 mmdia mild steel wire, including centering and shuttering, roughening cleaning, fixing and finishing in cement mortar 1:3 (1 cement: 3 fine sand) etc. complete, excluding plastering of the jambs, sills and soffits.5.18.1 50 mm thick		Sq.M.		
31	5.06	Kota stone slab flooring over 20 mm (average) thick base laid over and jointed with grey cement slurry mixed with pigment to match the shade of the slab, including rubbing and polishing complete with base of cement mortar 1 : 4 (1 cement : 4 coarse sand) : 11.26.1 25 mm thick		Sqm		
32	1.00	Providing and fixing in position Steel Ladder of 45 cm wide steel ladder of 40x6mm Ms flat stringers and steps of 18mm dia ms bar for w.tank including fixing it in m-15 cement concrete block 60x30x30cm and painting the ladder complete.		Rmt		
33	10.00	Providing and fixing water closet squatting pan (Indian type W.C. pan ) with 100 mm sand cast Iron P or S trap, 10 litre low level white P.V.C. flushing cistern, including flush pipe, with manually controlled device (handle lever) conforming to IS : 7231, with all fittings and fixtures complete, including cutting and making good the walls and floors wherever required : 17.1.1 White Vitreous china Orissa pattern W.C. pan of size 580x440 mm with integral type foot rests		No.		
34	2.00	17.7 Providing and fixing wash basin with C.I. brackets, 15 mm C.P. brass pillar taps, 32 mm C.P. brass waste of standard pattern, including painting of fittings and brackets, cutting and making good the walls wherever require : 17.7.3 White Vitreous China Wash basin size 550x400 mm with a pair of 15 mm C.P. brass pillar taps		No.		

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35	10.00	Providing and fixing 15mm diameter screw down bib / stop tap of brass including necessary socket union nut complete.		No.		
36	2.00	Providing and fixing white vitreous china flat back or wall corner type lipped front urinal basin of 430x260x350 mm and 340x410x265 mm sizes respectively with automatic flushing cistern with standard flush pipe and C.P. brass spreaders with brass unions and G.I clamps complete, including painting of fittings and brackets, cutting and making good the walls and floors wherever required. 17.4.1 One urinal basin with 5 litre white P.V.C. automatic flushing cistern		No.		
37	5000.00	Providing and placing on terrace (at all floor levels) polyethylene water storage tank, ISI : 12701 marked, with cover and suitable locking arrangement and making necessary holes for inlet, outlet and overflow pipes but without fittings and the base support for tank.		Lits		
38	1.00	18.54 Providing and fixing PTMT bib cock of approved quality and colour. 18.54.2 15 mm nominal bore, 122mm long, weighing not less than 99 gms		No		
39	2.00	Providing and fixing 600x450 mm beveled edge mirror of superior glass (of approved quality) complete with 6 mm thick hard board ground fixed to wooden cleats with C.P. brass screws and washers complete.		no		
40	2.00	Providing and fixing in position 100MM C.I Multi-floor trap (Nahani trap) with solvent cement joint etc. all complete		no		

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41	2.00	Constructing masonry Chamber 30x30x50 cm inside, in brick work in cement mortar 1:4 (1 cement :4 coarse sand) for stop cock, with C. I. surface box 100x100 x75 mm (inside) with hinged cover fixed in cement concrete slab 1:2:4 mix (1 cement : 2 coarse sand : 4 graded stone aggregate 20 mm nominal size), i/c necessary excavation, foundation concrete 1:5:10 ( 1 cement : 5 fine sand : 10 graded stone aggregate 40mm nominal size ) and inside plastering with cement mortar 1:3 (1 cement : 3 coarse sand) 12mm thick, finished with a floating coat of neat cement complete as per standard design : 18.32.1 With common burnt clay F.P.S.(non modular)bricksofclass designation 7.5		no		
42	2.00	Constructing masonry Chamber 60x45x50 cm inside, in brick work in cement mortar 1:4 (1 cement : 4 coarse sand) for water meter complete with C.I. double flap surface box 400x200x200 mm (inside) with locking arrangement and RCC top slab 1:2:4 mix (1 cement : 2 coarse sand : 4 graded stone aggregate 20 mm nominal size) , i/c necessary excavation, foundation concrete 1:5:10 ( 1 cement : 5 fine sand:10 graded stone aggregate 40 mm nominal size) and inside plastering with cement mortar 1:3 (1 cement : 3 coarse sand) 12mm thick, finished with a floating coat of neat cement complete as per standard design :18.37.1 With common burnt clay F.P.S.(non modular) bricks of class designation 7.5		no		
43	10.05	Filling in plinth and floors with contractor's soil, sand or murum in 15cm to 20cm layers including watering and compaction complete.		Cum		
	80.00	Centering and shuttering including strutting, propping etc. and removal of form for :5.9.1 Foundations, footings, bases of columns, etc. for mass concrete		sq-m		

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	40.00	Lintels, beams, plinth beams, girders, bressumers and cantilevers			
		<b>TOTAL COST OF TOILET BLOCK (A) =</b>			

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EMPLOYER

**Name Of Work : B) DTS FOR PTC-1**

**Memorandum showing the approximate quantity of work to be carried out**

**SCHEDULE-B**

Item. No	Qty. Estimated but may be more or less	Description	D	Unit	Rate in Rs.	Amount in Rupees
					In Figures	
A	B	C	D	E	F	H
1	94.13	Earth work in excavation by mechanical means (Hydraulic excavator) manual means over areas (exceeding 30cm in depth. 1.5 m in width as well as 10 sqm on plan) including disposal of excavated earth, lead upto 50m and lift upto 1.5m, disposed earth to be levelled and neatly dressed. All kinds of soil		Cum		
2	65.55	Extra for excavating trenches for pipes, cables etc. in all kinds of soil for depth exceeding 1.5 m, but not exceeding 3 m. (Rate is over corresponding basic item for depth upto 1.5 metre).		Cum		
3	95.81	Transporting the excavated material from site to 10 km outside including loading unloading etc complete		Cum		
4	9.79	Providing soling using 80mm size trap metal in centimeter layer including filling voids with sand/grit,ramming ,compacting,watering complete		Cum		

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No. of corrections

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5	4.26	Providing and laying in position cement concrete of specified grade excluding the cost of centering and shuttering - All work up to plinth level.4.1.8 1:4:8 (1 Cement : 4 coarse sand : 8 graded stone aggregate 40 mm nominal size)		Cum		
6	8.51	Providing and laying in position specified grade of reinforced cement concrete, excluding the cost of centering, shuttering, finishing and reinforcement - All work up to plinth level :5.1.2 1:1.5:3 (1 cement : 1.5 coarse sand : 3 graded stone aggregate 20 mm nominal size)		Cum		
7	31.01	Providing and laying water proofing treatment in sunken portion of WCs, bathroom etc., by applying cement slurry mixed with water proofing cement compound consisting of applying : a) First layer of slurry of cement @ 0.488 kg/sqm mixed with water proofing cement compound @ 0.253 kg/sqm. This layer will be allowed to air cure for 4 hours. b) Second layer of slurry of cement @ 0.242 kg/sqm mixed with water proofing cement compound @ 0.126 kg/sqm. This layer will be allowed to air cure for 4 hours followed with water curing for 48 hours. The rate includes preparation of surface, treatment and sealing of all joints, corners, junctions of pipes and masonry with polymer mixed slurry.		Sqm		
8	20.51	Brick work with common burnt clay machine moulded perforated bricks of class designation 12.5 conforming to IS: 2222 in superstructure above plinth level up to floor five level in cement mortar 1:6 (1 cement : 6 coarse sand) : 6.3.1 With F.P.S.(non modular) bricks		Cum		

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9	3.32	Reinforced cement concrete work in beams, suspended floors, roofs having slope up to 15° landings, balconies, shelves, chajjas, lintels, bands, plain window sills, staircases and spiral stair cases up to floor five level, excluding the cost of centering, shuttering, finishing and reinforcement, with 1:2:4 (1 cement : 2 coarse sand : 4 graded stone aggregate 20 mm nominal size).		Cum		
10	1.18	Steel reinforcement for R.C.C. work including straightening, cutting, bending, placing in position and binding all complete up to plinth level.5.22.6 Thermo-Mechanically Treated bars		MT		
11	68.70	Rough cast plaster up to 10 m height above ground level with a mixture of sand and gravel or crushed stone from 6 mm to 10 mm nominal size, dashed over and including the fresh plaster in two layers, under layer 12 mm cement plaster 1:4 (1 cement : 4 coarse sand) and top layer 10 mm cement plaster 1:3 (1 cement : 3 fine sand) mixed with 10% finely grounded hydrated lime by volume of cement.13.19.1 Ordinary cement finish using ordinary cement		Sq.Mt		
12	138.97	CEMENT PLASTER (IN FINE SAND) 13.1 12 mm cement plaster of mix : 13.1.1 1:4 (1 cement: 4 fine sand)		Sq.Mt		
13	17.75	Providing and fixing 100 mm dia. stabilizer pipe/pvc soil vent/waste pipe and necessary fixtures and fitting such as bends, tees, single junctions, slotted vents, clamps etc complete.		Rmt		
14	9.00	Providing and fixing in position pre-cast R.C.C. manhole cover and frame of required shape and approved quality 19.19.1.1 Rectangular shape 600x450 mm internal dimensions		No		

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15	50.00	Centering and shuttering including strutting, propping etc. and removal of form for :5.9.1 Foundations, footings, bases of columns, etc. for mass concrete		Sq-m		
		<b>TOTAL COST OF DTS (B) =</b>				

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No. of corrections

EMPLOYER

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**Name Of Work : C) Construction of Caretaker's Room FOR RAJAHMUNDRY**

**Memorandum showing the approximate quantity of work to be carried out**

**SCHEDULE-B AS PER CPWD 2011-2012**

Item. No	Qty. Estimated but may be more or less	Description	Unit	Rate in Rs.	Amount in Rupees
				In Figures	
1	6.28	Brick work with common burnt clay machine moulded perforated bricks of class designation 12.5 conforming to IS: 2222 in superstructure above plinth level up to floor five level in cement mortar 1:6 (1 cement : 6 coarse sand) : 6.3.1 With F.P.S.(non modular) bricks	Cum		
2	1.71	Providing and fixing ISI marked flush door shutters conforming to IS : 2202 (Part I) non-decorative type, core of block board construction with frame of 1st class hard wood and well matched commercial 3 ply Code Description Unit Rate No.SUBHEAD -9.0 WOOD AND PVC WORK 151	Sqm		

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		veneering with vertical grains or cross bands and face veneers on both faces of shutters : 9.21.3 25 mm thick (for cupboard) including ISI marked nickel plated			
		bright finished M.S. piano hinges with necessary screws			
3	0.05	Providing and fixing specified wood frame work consisting of battens 50x25 mm fixed with rawl plug and drilling necessary holes for rawl plug etc. including priming coat complete.9.36.1 Kiln seasoned and chemically treated hollock wood			
4	39.05	6 mm cement plaster 1:3 (1 cement : 3 fine sand) finished with a floating coat of neat cement and thick coat of Lime wash on top of walls when dry for bearing of R.C.C. slabs and beams	Sqm		
5	39.07	CEMENT PLASTER (IN FINE SAND)	Sqm		
		13.1 12 mm cement plaster of mix :			
		13.1.1 1:4 (1 cement: 4 fine sand)			
6	12.26	Kota stone slab flooring over 20 mm (average) thick base laid over and jointed with grey cement slurry mixed with pigment to match the shade of the slab, including rubbing and polishing complete with base of cement mortar 1 : 4 (1 cement : 4 coarse sand) : 11.26.1 25 mm thick	Sqm		
7	75.33	White washing with lime to give an even shade :	Sqm		
		13.37.1 New work (three or more coats)			

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8	39.07	Distempering with 1st quality acrylic distemper, having VOC (Volatile Organic Compound ) content less than 50 grams/ litre, of approved brand and manufacture, including applying additional coats wherever required, to achieve even shade and colour. 13.81.2 Two coats	Sqm		
9	18.924	Providing non-asbestos high impact Polypropylene reinforced cement 6 mm thick corrugated sheets (as per IS: 14871) roofing up to any pitch and fixing with polymer coated J, or L hooks, bolts and nuts 8mm dia. G.I. plain and bitumen washers or with self drilling fastener	Sq.M.		
		and EPDM washers etc. complete (excluding the cost of purlins,rafters and trusses), including cutting sheets to size and shapewherever required.			
10	4.5	Steel work welded in built up sections/ framed work, including cutting,hoisting, fixing in position and applying a priming coat of approved steel primer using structural steel etc. as required.10.25.2 In gratings, frames, guard bar, ladder, railings, brackets, gates	kg		
		and similar works			
11	39.065	Satna lime wash on walls with one coat.	Sq-m		
		<b>TOTAL COST OF CARETAKER ROOM (C) =</b>			

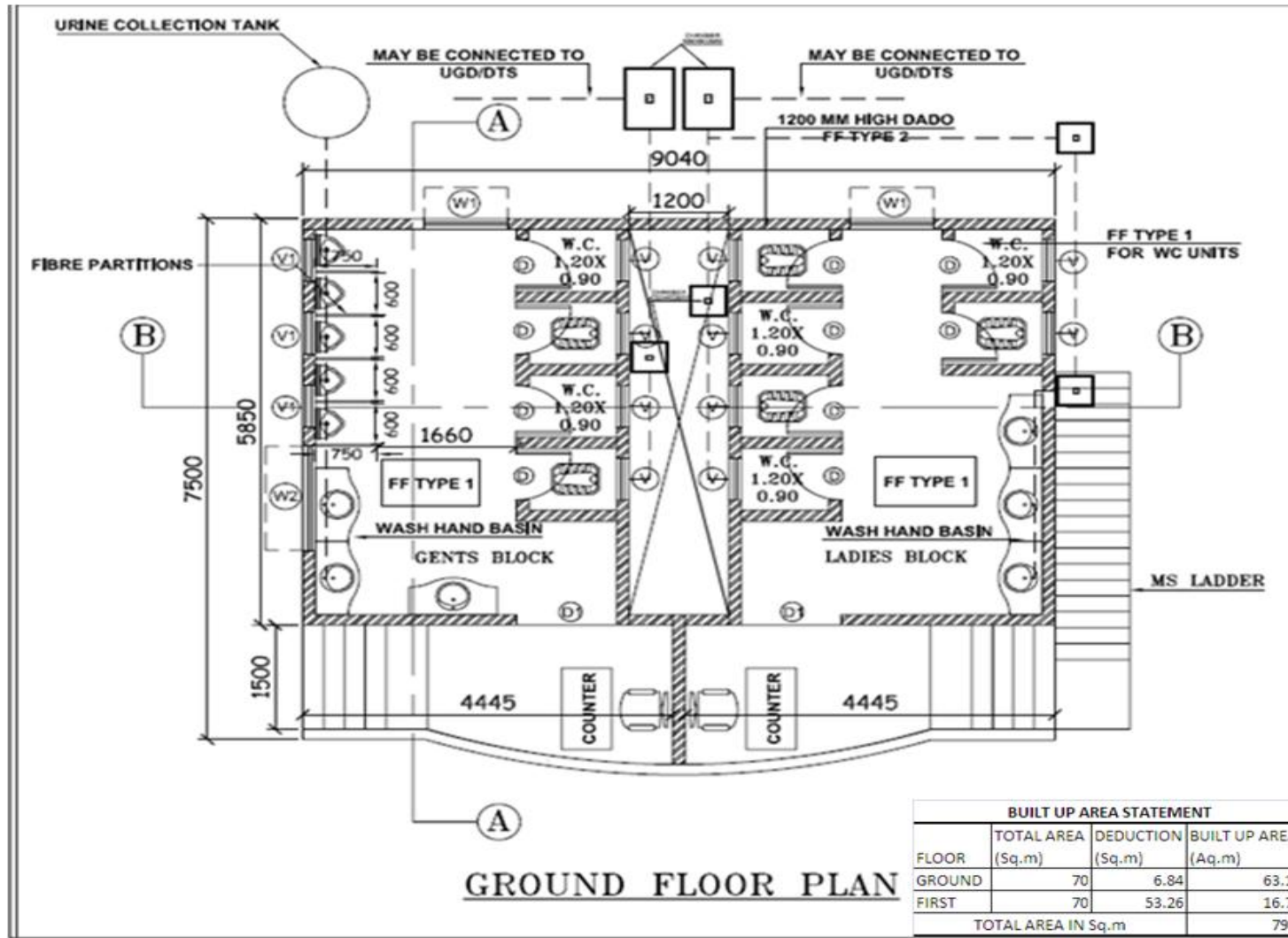
**TOTAL COST OF THE PROJECT = (A) + (B) + (C) =**

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No. of corrections

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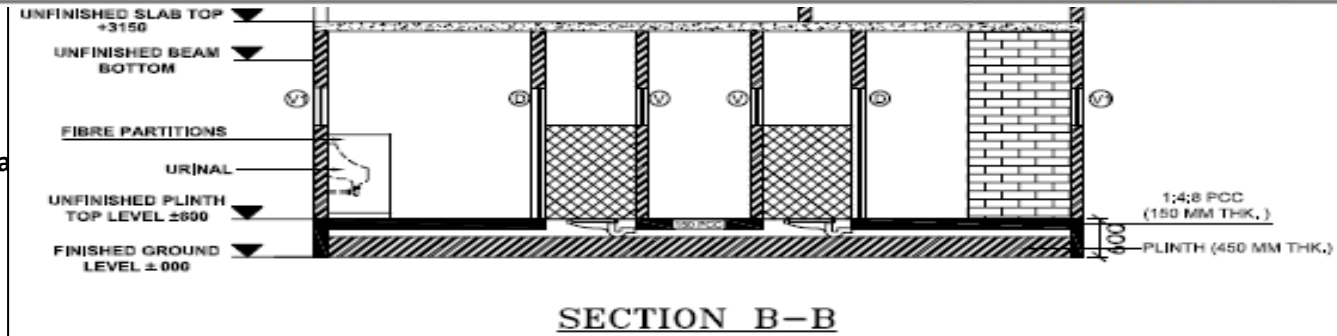
1. The drawing is issued for the technical verification only.
2. All dimensions are from unfinished to unfinished unless otherwise mentioned.
3. Do not scale with the drawing.
4. Any discrepancy in the drawing should be brought to the notice of the Architects before commencing any work.

**Specification**

1. INT. NERU PLASTER AND EXT. CEMENT PLASTER.
2. FOUNDATION UP TO HARD STRATA.
3. RCC FRAME STRUCTURE.
4. KOTA STONE FLOORING.
5. PVC DOOR WITH PVC FRAME

BUILT UP AREA STATEMENT			
FLOOR	TOTAL AREA (Sq.m)	DEDUCTION (Sq.m)	BUILT UP AREA (Aq.m)
GROUND	70	6.84	63.16
FIRST	70	53.26	16.74
TOTAL AREA IN Sq.m			79.9

**ECOSAN SERVICES FOUNDATION**

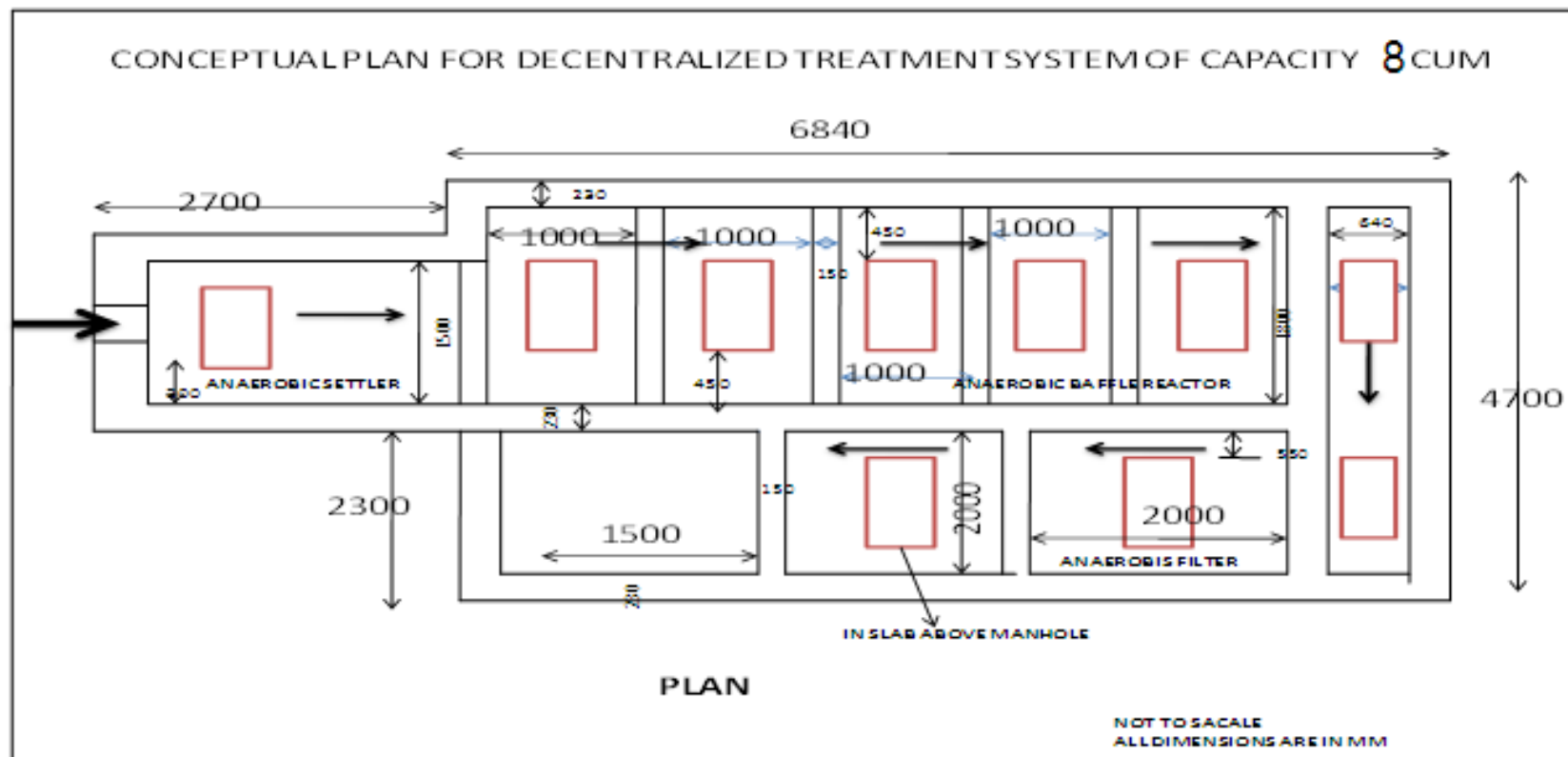


PROJECT : **PTC TYPE 1**

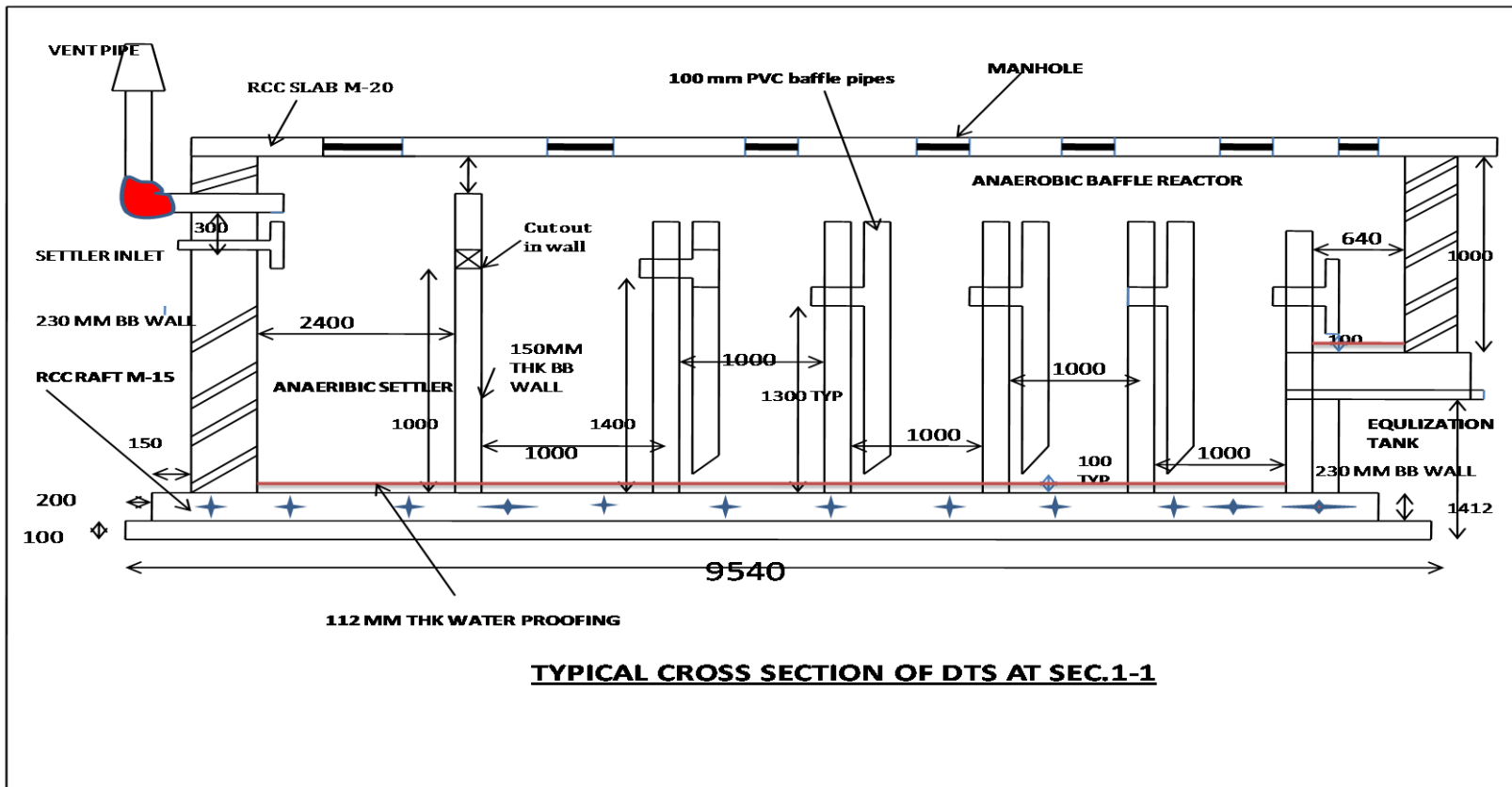
**MOHAN SAKHALKAR**  
 PLOT NO. RL 169, OPP. KSB PUMPS,  
 SHAHU NAGAR, CHINCHWAD PUNE. 19.

**ECOSAN SERVICES FOUNDATION**

Signal



Signa



**TYPICAL CROSS SECTION OF DTS AT SEC.1-1**

**Signature of Contractor**

**No. of corrections**

**EMPLOYER**