

Request for Proposal

for

Execution of Rain Water Harvesting system for ground water recharge in selected schools of Nagpur Municipal Corporation, Nagpur, Maharashtra

under

‘Accelerating climate action through the promotion of Urban Low Emission Development Strategies (Urban-LEDS II)’

**ICLEI South Asia,
New Delhi, India**

**Tender Reference no.: ICLEI/Urban LEADS II/Nagpur/2021-22 Date:
23/08/2021**

UN-HABITAT

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This project is funded by the European Union. The views expressed on this document can in no way be taken to reflect the official opinion of the European Union.



About the project:

The Nagpur Municipal Corporation and the Nagpur Smart and Sustainable City Development Corporation Limited (NSSCDCL), with support from ICLEI-Local Governments for Sustainability, South Asia (ICLEI South Asia) and UN-Habitat are implementing a project on 'Accelerating climate action through the promotion of Urban Low Emission Development Strategies (Urban-LEDS II)' in Nagpur funded by European Commission. This project aims to reduce greenhouse gas emissions and support the climate actions at local level by the promotion of Urban Low Emission Development Strategies (Urban LEDS) in cities/towns of emerging economies (Brazil, Colombia, India, Indonesia and South Africa) and Least Developed Countries (Bangladesh, Lao PDR and Rwanda). This objective is aligned with the implementation of the Paris Agreement under the UNFCCC.

Background

Nagpur city, spatially covers an area of 217.10 sq.km and accommodates population of 2.4 million (as of the 2011 census). The city receives average annual rainfall of 1161.54 mm. Due to recent socio-economic changes, urban population growth and urbanization have seen spatial expansion within administrative regions demanding more water. In this rapid urban transition scenario faced by Nagpur, the natural and managed public urban green space such as lakes, drainage basins of Nag and Pili River, urban forests, institutional green spaces, parks, playgrounds, and gardens are under tremendous pressure of destruction and degradation in terms of natural recharge allowing percolation of runoff.

With this background, city is interested to use artificial recharge techniques to enhance its ground water level. As a baseline assessment of Nagpur City, the groundwater potential zones have been demarcated and divided into five categories very poor, poor, moderate, high, and very high regions with respect to natural recharge. Also, promoting rainwater harvesting and artificial recharge enhancing ground water table of the city are key issue sought by NSSCDCL and ICLEI South Asia for Nagpur City.

In this regard, ICLEI South Asia has conducted various on-field surveys and test to access the potential for augmentation of local water resources through ground water (shallow/ deep) recharge/aquifer recharge and rain water harvesting at Nagpur city and identified potential sites for artificial recharge of ground water. The two NMC owned schools (Sant Kabir School and Netaji Nagar School) located in ABD area of Nagpur Smart City have been selected for the pilot implementation. For this purpose ICLEI South Asia invites contractors/firms to bid for the proposed execution work.

Details	Timelines
Date of Publishing the RfP on the ICLEI South Asia website	23 rd August, 2021
Last date for submission of bid documents	5 th September, 2021
Notification to the successful bidder	8 th September, 2021

Details of the consultancy services:

- A. **Task:** Execution of Rain Water Harvesting system for ground water recharge in the schools of Nagpur Municipal Corporation, Nagpur, Maharashtra under the project on 'Accelerating climate action through the promotion of Urban Low Emission Development Strategies (Urban-LEDS II)'
- B. **Locations:** 1. **Sant Kabir Marathi Primary School**, Dharam Nagar, Bharatwada, Nagpur, Maharashtra 440035, (Google location: <https://goo.gl/maps/cD5tVkbudGHiSVfr5>) and 2. **Netaji Nagar School** in Nagpur Bharat Nagar Primary School, Neta Ji Nagar, Mangaldeep Colony, Near Sai Mandir, Behind Water Tank, Pardi, Nagpur, Maharashtra 440035 (Google location: <https://goo.gl/maps/8GcqCqW6pHEPRcRj9>)
- C. **Overall Scope of the Work:** Execution of Rain water harvesting system for ground water recharge in two (2) schools and display of the information for awareness.
- D. **Site Description:**
1) Sant Kabir School: The Sant Kabir School building is considered for roof top rainwater harvesting. The effective roof area of the building is 2,940 sq. ft. (Approx). Three rainwater downpipes are proposed from the roof level and brought down from the back side of the building connecting to the recharge shaft through to the underground pipeline (*refer Annexure I and II*). There is scope for roof repairing work which includes waterproofing and slope correction in west direction. Three borewells are proposed in premises; pumping well, recharge well and observation well. The pumping and recharge wells are proposed on the front side of the school and observation well is proposed on the backside of school. Installation of water pump, water tank and water line connecting the borewell to tank is also proposed under the scope.



Sant Kabir School

2) Netaji Nagar School: This school consists of two buildings; main building and unutilized building. Both buildings are considered for roof top rainwater harvesting. The effective roof area of both the building is 3,500 sq. ft. (Approx). The roof repairing work includes construction of parapet wall, waterproofing and slope correction in the North direction of the main building. Two borewells are proposed in premises; recharge well and observation well, on the front side of the school at the distance of 10 meters. Recharge trenches are also proposed in the premises to collect the rainwater runoff from the ground (*refer Annexure III to V*).



Netaji Nagar School

E. Detailed Scope of Work:

Selected bidder has to undertake execution and construction of following units
 (For detailed design please refer Annexure I to IV):

Sr	Task	Sant Kabir School	Netaji Nagar School
1	Excavation in Hard Rock	Excavation of soil/rock by mechanical means and disposal by the means of transportation including loading and unloading	
		Quantity: 10 CM	Quantity: 15 CM
2	Drilling and development of recharge, observation and pumping well	Drilling bore wells and providing casing	
		Drilling three bore wells of up to depth 50 m, 100 m and 50 m each from the surface level and providing 150mm casing, complete depth. Providing and Installing 2 HP single phase submersible pump with HDPE piping and fittings with required (80 m), cabling (90m) and wiring and installation of motor starter at the desired location.	Drilling two (2) bore wells of up to depth 50 m and 50 m each from the surface level and providing 150mm casing, complete depth.
3	Construction of recharge structure	Construction of recharge structure as per design specifications with Cement Concrete M-100 grade 1:3:6 in recharge structure PCC, laying pre-cast RCC rings up to required height, providing slots on recharge well and covering it with the nylon mesh, providing and fixing man hole (1.2 m dia cover of concrete and making it leak proof from the side.	
		Capacity: 2500 Litres and height 2 meters	Capacity: 5500 Litres and height 3 meters
4	Supply of Filter Media	Providing and laying 20mm uniform size filter media upto 1 meter height	
5	Plumbing Works	Connection of all the drains from the selected rooftops (Sant Kabir School (1 building), Netaji Nagar School (2 buildings) through 4" & 6" SWR Pipes of approved make and joining them to the recharge structure.	

		<ul style="list-style-type: none"> a) 24-meter 4" downpipe from the rooftop to ground level b) Installation of NEERain 4" rainwater filter on the downpipe c) Digging and laying 40-meter 6" underground pipe (SWR Finolex/Prince/Astral make) connecting to the recharge structure d) Supply and installation of 2,000 litre overhead water tank (Double layer, Syntax make) and reinstalling the old water tank on the ground floor toilet roof e) 1-inch c-PVC line (40 m) connecting the borewell to the overhead tank and overhead tank connection to the ground floor toilet tank. f) Installation of one inch solenoid valve and fully automatic water level controller with indicator and complete wiring at toilet roof tank 	<ul style="list-style-type: none"> a) 60-meter 4" SWR downpipe from the rooftop to the ground level (Building 1 & Building 2) b) Digging and laying 36-meter 6" underground pipe (SWR Finolex/Prince/Astral make) connecting to the recharge structure (Building 1 & Building 2) Installation of NEERain 4" rainwater filter on the downpipe
6	Roof Repair Work	Roof chipping, plastering using waterproofing compound & punning and providing the slope (1:300) towards eastern side.	
		Effective roof area: 250 sqm. (approx.)	<ul style="list-style-type: none"> a) Effective roof area: 200 sqm. (approx. Building 1) b) Construction of 1/2 ft Parapet wall (1/2 brick) on the roof with plastering and paint both sides covering roof parameter of 65 meter (approx. area: 10 sq. m., Building 1)



7	Site Restoration Work and display of information	<p>a) Paver placement on excavated area during the recharge structure construction and laying underground pipeline (Max. Area 25 sqm.)</p> <p>b) Reconstruction of 6 ft ½ brick boundary wall with plastering and paint both sides, if there any damages occur during the digging of borewell and recharge structure construction (Max Area. 15 sqm)</p>	Normal Site cleaning
		<p>Display of information for awareness: The information about ground water recharge scheme in English/Marathi language on a firm and permanent display two (2) boards of size 3ftX4ft each near the location. The information should consist of project name, donor and partners. The text shall be approved by ICLEI –South Asia. (Please refer Annexure VII)</p>	
8	Construction of Recharge Trenches	---Not Applicable---	Construction of 50m x 0.3m x 0.6m recharge trench on northern side and 30m x 0.3m x 0.6m recharge trench on southern side. Backfilling trenches with 0.3m course gravel and providing perforated mild steel cover (10 kg/m). Total trench length: 80 m



F. Time frame:

Tasks	Time line
1) Construction of various units as mentioned in Section 'E' and Annexure VIII - BoQ form for bidding of this document	Within twenty one (21) days from the award of contract
2) Display of information and cleaning of the site	Within thirty (30) days from the award of contract

G. Payment Schedule:

Instalment	Task
First instalment (30%):	At the time of signing the contract and submission of performance security deposit of 10% of the total contract amount (excluding taxes)
Second instalment (50%):	Satisfactory completion of civil work as mentioned in Section 'E', Annexure VIII and acceptance by ICLEI – SA and NMC/NSSCDCL
Third/last instalment (20%):	Satisfactory commissioning and completion of defect liability period of one month for the civil, plumbing and electrical work as mentioned in Section 'E', Annexure VIII and acceptance by ICLEI – SA and NMC/NSSCDCL

H. Qualification and experience

Technical Eligibility	<p>The contractor should qualify for the following minimum qualifications and experience criterion:</p> <p>Organizations or individuals can bid for this contract. At least 2 of the following conditions must be fulfilled to be eligible:</p> <ol style="list-style-type: none"> 1. Minimum 5 years of experience in implementing similar projects related to construction of rain water harvesting structures and/or sewage/water supply projects for ULBs or Rural areas in Maharashtra. 2. Contractor should have successfully completed work of at least two projects with the ULB or state government departments for water supply/sewerage/rain water harvesting, etc. for a cost of at least Rs. 5 lakh each. Contractors should furnish the self-attested copy of work
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	<p>orders for these works and should submit a copy of certificates for satisfactory construction of these plants/facilities from the same Institution at the time of bidding. Photographs of the work implemented should also be submitted.</p> <p>3. Minimum turnover of Rs. 15 lakh during last 2 years would be required in case of organizations and minimum of 3 Utilization Certificates or other completion documents for projects exceeding 10 lakh rupees (for last 2 years) each would be required in case of individuals.</p>
Additional information	<p>1. Contractors with PWD registration and valid license would be preferred.</p> <p>2. Experience of working in the State or city would be an additional benefit</p> <p>3. Contractors with experience in decentralized wastewater treatment plants/ ground water recharge structures/storm water drains would be preferred.</p> <p>4. Contractors listed/ empanelled under any mission/ scheme/ committee at National/ State/ ULB level shall be preferred.</p>

I. **Proposal submission:** Details required in a bid document are as follows.

Technical Bid	<p>1. Credentials of organization and/or individual</p> <p>2. Details of at least 3 similar projects implemented by the organization/individual with documentary proof for the same</p> <p>3. Registration certificate</p> <p>4. Tender Submission Form (Annexure IX)</p>
Financial bid	<p>1. Financial bid for tasks listed in the Section 'E' and Annexure VIII of this tender document. The total cost should include implementation costs and all the taxes whichever applicable. (Bill of Quantities form – Annexure VIII)</p> <p>2. Financial details of the organization to prove eligibility</p> <p>3. PAN or TIN number details</p> <p>4. Audited accounts statements and/or ITR for last 3 years</p>
Note	<p>1. All Technical and Financial bids should be in English. The financial bid should be in accordance with the State Government Schedule of Rates. Financial bid should include all costs including taxes, transport, labour, etc. and should be all inclusive.</p> <p>2. Bidders are encouraged to visit the site before submission of bid.</p> <p>3. Soft copy of the tender document (technical and financial)</p>

	<p>should be mailed to ICLEI South Asia on the contact details mentioned in this document within prescribed deadline.</p> <p>4. Qualified individuals/organizations should send cover letter, technical and financial proposals (in separate envelopes but both in a single envelope) to the contact information provided in this document in hard copy no later than 05th September 2021. Please send your application with “Rain water harvesting for ground water recharge at Nagpur under Urban LEADS II” in the subject line and on a sealed envelope.</p> <p>5. The bidder shall acquaint with the work and working conditions at site and locality. No claim shall be entertained on this issue after the bid has been submitted.</p> <p>6. The hard copy of bid document shall reach to the above mentioned address not later than 3 days from the last date of submission of bid document, provided the bid has been submitted through email before the due date of submission</p> <p>7. Bid Validity: All bids submitted shall remain valid for a period of 30 days from the time of submission. Any bids submitted for a lesser duration will be disqualified.</p> <p>8. Notification of selected contractor: Only the successful/shortlisted contractor(s) would be notified by 8th September 2021.</p>

J. Contact information

For bid submission (Email/soft copy)	For bid submission (Courier/hard copy)
<p>i) Soumya Chaturvedula, Deputy Director, ICLEI South Asia, Email: soumya.chaturvedula@iclei.org</p> <p>ii) Nikhil Kolsepatil, Manager (Energy & Climate), ICLEI South Asia, Email: nikhil.kolsepatil@iclei.org</p> <p>iii) Bhaskar Padigala, Deputy Manager (Energy & Climate), ICLEI South Asia, Email: bhaskar.padigala@iclei.org</p>	<p>Bhaskar Padigala, Deputy Manager (Energy & Climate), ICLEI South Asia, C-3, Green Park Extension, New Delhi-110016, India Tel: +91-11-49747200 Fax: +91-11-49747201 Email: bhaskar.padigala@iclei.org Website: https://southasiaoffice.iclei.org</p>

For local information and queries:

Shardul Venegurkar
Senior Project Officer, Nagpur
ICLEI – South Asia
Email: shardul.venegurkar@iclei.org
Contact number: 7276293919

- K. **Performance Security Amount:** Only the selected Contractor would be required to deposit a Performance Security Amount/ Ernest Money Deposit worth 10% of the total tender cost finalized with ICLEI South Asia (after negotiations). This amount should be deposited by the successful contractor at the time of signing the contract through Demand Draft in favour of ICLEI South Asia, payable at New Delhi with the validity not less than three (3) months from the date of signing the contract. The selected Contractor shall sign a contract with ICLEI South Asia within three (3) working days from the award of project. Upon successful completion of the project, the performance security amount would be returned to the Contractor.
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Other terms and conditions

Safety and surveillance

The following measures need to be taken by the contractor:

1. Provision of safety equipments like boots/shoes, gloves and jack, masks and sanitizer etc for workers. No additional costs for this can be charged to ICLEI South Asia.
2. Provision of all equipment and solutions/items required for maintaining adequate cleanliness and hygiene standards, to the satisfaction of ICLEI South Asia and local government authority.
3. Contractor is fully responsible for the safety and security of the equipments/material/labour stored temporarily/working at construction site. ICLEI – SA and/or NMC/NSSCDCL should not be held responsible for any damage/loss to the equipments/material/labour in any manner and no claim will be entertained thereafter.
4. Eco friendly or local material should be used wherever possible without any compromise with quality of the structure. The same should be informed to ICLEI South Asia

Quality Control

1. Officials from ICLEI South Asia or local government authority would undertake regular inspection of the site work during implementation phase as well as during 3 months maintenance phase. The officials will check the contractor's work and notify him/her for any defects that are found. The officials from ICLEI South Asia and/or local government authority can visit the site at any time for inspection without prior notice and can instruct the contractor to search for a defect and to uncover and test any work that the official considers may have a defect.
2. If the official instructs the contractor to carry out a test not specified in the specification to check whether any work has a defect all such test/tests shall be carried out by the contractor at his own cost and shall be deemed to be included in the rates given by contractor.
3. The official(s) from ICLEI South Asia and/or local government authority will give a notice to the contractor informing him/her of any defects after or during implementation and/or during maintenance phase. Every time notice of a defect is given, the contractor shall correct the notified defect within the length of time

specified by ICLEI South Asia in the notice issued to the contractor for defect correction. If the contractor has not corrected a defect within the time specified in the notice, ICLEI South Asia will assess the cost of having the defect corrected, and the amount will be recovered from the contractor.

4. All material supplied or used for the project shall be in accordance with National Standards. Officials from ICLEI South Asia and/or local government authority can inspect the materials being used for the implementation work and any material found defective or below standards would have to be replaced by the contractor at own cost. ICLEI South Asia would not be liable to pay any costs of material/labour/transport/other for any such replacement.
5. In case a defective or below standard material is found by the officials from ICLEI South Asia and/or local government authority, the same shall be notified to the contractor in writing and the contractor would be required to replace the material within 15 days of letter of notification. In case of failure to replace the material, ICLEI South Asia reserves the right to stop implementation work on site and delays or termination in accordance with 'Penalty and Termination of Contract' of this document would be charged.
6. In case of subcontracting, the costs would have to be borne by the contractor and ICLEI South Asia shall not liable to pay any costs to the subcontractor. Management of the subcontractor would be the responsibility of the contractor
7. The Contractor should ensure that pipes don't lead to any leakages. In case of leakages detected during implementation or during maintenance phase (manufacturing defect), the contractor shall permanently fix these leakages at own cost.
8. The contractor shall ensure safety and proper functioning of all equipment and systems on site.
9. The material waste from construction work shall be reused or disposed of by the contractor in accordance with the standards and local rules.
10. The contractor should ensure that waste piles for more than one week are not maintained on site.
11. All material purchased by the contractor as part of the contract shall be new and of best quality according to the specifications and shall be free from defects (including concealed fault, deficiency in design, material and workmanship). The contractor shall take approval (on quality of material) from representative from ICLEI South Asia at the time of delivery of material on site or at the time of use for

construction or other works on site. Materials replaced / repaired under guarantee / warranty period shall have further warranty for a period of 12 months from the date of repair / replacement.

12. All areas that are hazardous for human or animals should be duly provided with fencing or protection.
13. Any accidents or damages caused to users or any other person from structures/systems created under the projects would be the liability of the contractor alone. ICLEI South Asia or local government authority would have no legal or financial bindings for the incident or any implications arising out of the incident.
14. Size of all equipment/materials used should be as per National standards
15. All information displayed at the site should be in Marathi and English.
16. Samples or details of items should be discussed (including specifications/brand/make) with ICLEI South Asia before ordering. If upon delivery without prior approval, the product is found below standards, the contractor would have to replace the same with good quality product, as per the satisfaction of ICLEI South Asia, at own costs
17. Contractor shall bear all costs of any repairs/replacement of faulty material/items for the structures and systems created under the project within the 3 months maintenance phase that come under the scope of work of the contractor. No additional costs for this would be entertained.
18. Any issues related to the construction, maintenance should be resolved by the contractor at own costs.
19. Drawing/design showing project details and importance should be provided as a display board on the construction site by the contractor in partnership with ICLEI South Asia
20. During the maintenance phase, the contractors' authorized representative should visit the site at least once a month (preferably once a week) and immediately address any concerns or issues that are brought to the notice of this representative within a period of 3 days. In case of issues that might take longer to address, written permission from ICLEI South Asia should be obtained. In case written permission is not obtained and the issue is not addressed within the stipulated time, penalties/termination in accordance with 'Penalty and Termination of Contract' of this document would be applicable.

Labour and Material

1. All labour required for the completion of the task would be provided by the contractor in accordance with the laws of the land.
2. Any incidents that occur on site or with the labour during the course of the contract would be the liability of the contractor alone. ICLEI South Asia and local government authority would not have any liability in such case
3. Contractor's supervisor should visit the site frequently to ensure smooth and safe working during implementation and at least once a month during maintenance phase.
4. All labour or manpower involved in the project by the contractor should be above 18 years of age
5. The contractor shall in respect of labour employed by him/her or his/her sub-contractor complies with or causes to be complied with the Contractor Labour Regulation in regard to all matters provided therein.
6. Any loss of material or accidents or loss of life during the course of the contract would be the sole responsibility of the contractor.
7. Contractor has to make his own arrangement for power and water required for implementation work. Any other terms for water tanker or electricity supply or generator will not be accepted.
8. The Contractor shall indemnify and keep indemnified ICLEI South Asia and local government authority against:
 - i. Any claim arising out of third party loss/ damage to life or property caused by/ during execution of the work.
 - ii. Any claim arising out of loss/ damage to the workmen engaged by the contractor during execution of the work.
 - iii. Any claim due to non-compliance of applicable PF/ Labour laws, ESI regulations etc.
 - iv. Any claims arising from any accidents or emergency situations related to labour or residents, arising from the project, during the course of the tender or afterwards
9. Drinking water, food and other requirements for the labour shall be dealt by the contractor. ICLEI South Asia shall not be charged for this purpose.

10. The compliance of the Safety and Health provisions are of utmost importance to ICLEI South Asia. The contractors must note that ICLEI South Asia will take a serious view of any noncompliance report of safety norms and standards. ICLEI South Asia has a right to order stoppage of work till rectification is carried out for all safety norms and standards.
11. Provision of First Aid Kit should be ensured on site during the entire implementation period.
12. Contractor may arrange for regular medical check-ups of his/her labour during the execution phase. To maintain health and hygienic conditions for labour is the sole responsibility of the contractor.
13. Information on emergency contact numbers and details shall be provided to labour supervisor by the Contractor

Complaint Redressal

1. The Contractor shall ensure that the work on site should be conducted such that no construction or other works lead to any disturbance or complaints from neighbouring areas
2. Any complaints arising during the implementation phase would be the responsibility of the contractor and ICLEI South Asia or local government authority would not be liable to address these complaints. These complaints would be addressed by the contractor at his/her own costs.
3. In case of any complaints related to quality or timing or other aspects of the work or material used for the project (by ICLEI South Asia), the contractor shall be liable to address the same within 48 hours of the complaint being informed to the contractor (verbally or in writing) at own cost. In case of failure to address complaints within the stipulated time, a written notice shall be sent to the contractor by ICLEI South Asia to resolve the complaint within a period of one week. In case of noncompliance to meet the terms of the notice, the contractor can be penalized or the contract can be terminated at ICLEI South Asia's discretion in accordance with 'Penalty and Termination of Contract' of this document.

Variations during implementation

If during implementation, the contractor and ICLEI South Asia deem it necessary to undertake any task or implement any works that were not envisaged at the time of contract signing but are crucial for successful implementation of the contract and it has been verified that the contractor did not intentionally hide such a requirement or

the task is not arising due to incompetence or inexperience of the contractor, then in such cases, an amendment to the contract would be required for the project as an annexure. The costing for this additional task shall be as per the item wise costs quoted by the contractor at the time of bidding and the total amount of such variation cannot exceed 20% of the total contract value.

Extension

Any extensions to the contract can only be entertained if approved by ICLEI South Asia in writing and shall not exceed 15 days. In such cases, the financial bid for the contract shall remain unchanged. No additional payments would be entertained for the extension period.

Penalty and Termination of Contract

1. Failing the delivery schedule mentioned in the contract document or failure to adhere to the timelines submitted by the contractor would attract a penalty at the rate of 1% (of the total tender cost) per week with maximum ceiling of 10 % will be charged for non-completion of the work in prescribed time limit. If the work is not completed during this penalty period, then contract can be terminated, Performance Security Amount will be forfeited and contractor can be black listed.
2. In case of termination of contract, the contractor shall be paid on pro rata basis for the services successfully delivered to the satisfaction of ICLEI South Asia till the time of termination of contract.
3. Penalty would not be applicable of the delay due to: (a) Force majeure or (b) Abnormally bad weather, Epidemic or (c) Serious loss or damage by fire, or (d) Civil commotion, local combination of workmen strike or lockout, affecting any of the trades employed on the work, or (e) Any other cause, which, in the absolute discretion of ICLEI South Asia, is beyond the contractor's control.
4. Then upon the happening of any such event causing delay, the contractor shall immediately give notice thereof in writing to ICLEI South Asia but shall nevertheless use constantly his/her best endeavours to prevent or make good the delay and shall do all that may be reasonably required to the satisfaction of the ICLEI South Asia to proceed with the works.

Dispute Resolution

In case of conflict, both parties shall use their best endeavours to settle any dispute or claim arising out of or relating to the Contract and their attachments thereto through amicable discussions. If not amicably settled within fifteen (15) days of the dispute or claim arising, the decision of ICLEI South Asia would be considered

binding. The laws applicable for the contract shall be the laws in force in India. The courts of New Delhi will have sole jurisdiction in all matters arising in any dispute from this contract.

Corrupt or Fraudulent Practices

1. ICLEI South Asia expects the contractors to observe the highest standard of ethics and integrity during the procurement and execution of such Contracts.
2. If any bidder, even after selection, is found to indulge in malpractices or is found to have submitted false information at the time of submitting the bid or the quality of work is not found satisfactory by ICLEI South Asia, such contractor can be disqualified by ICLEI South Asia after giving a written notice. If the contractor fails to produce justification to the satisfaction of ICLEI South Asia or continues with the malpractices, ICLEI South Asia can terminate such a contract at any time without giving prior notice

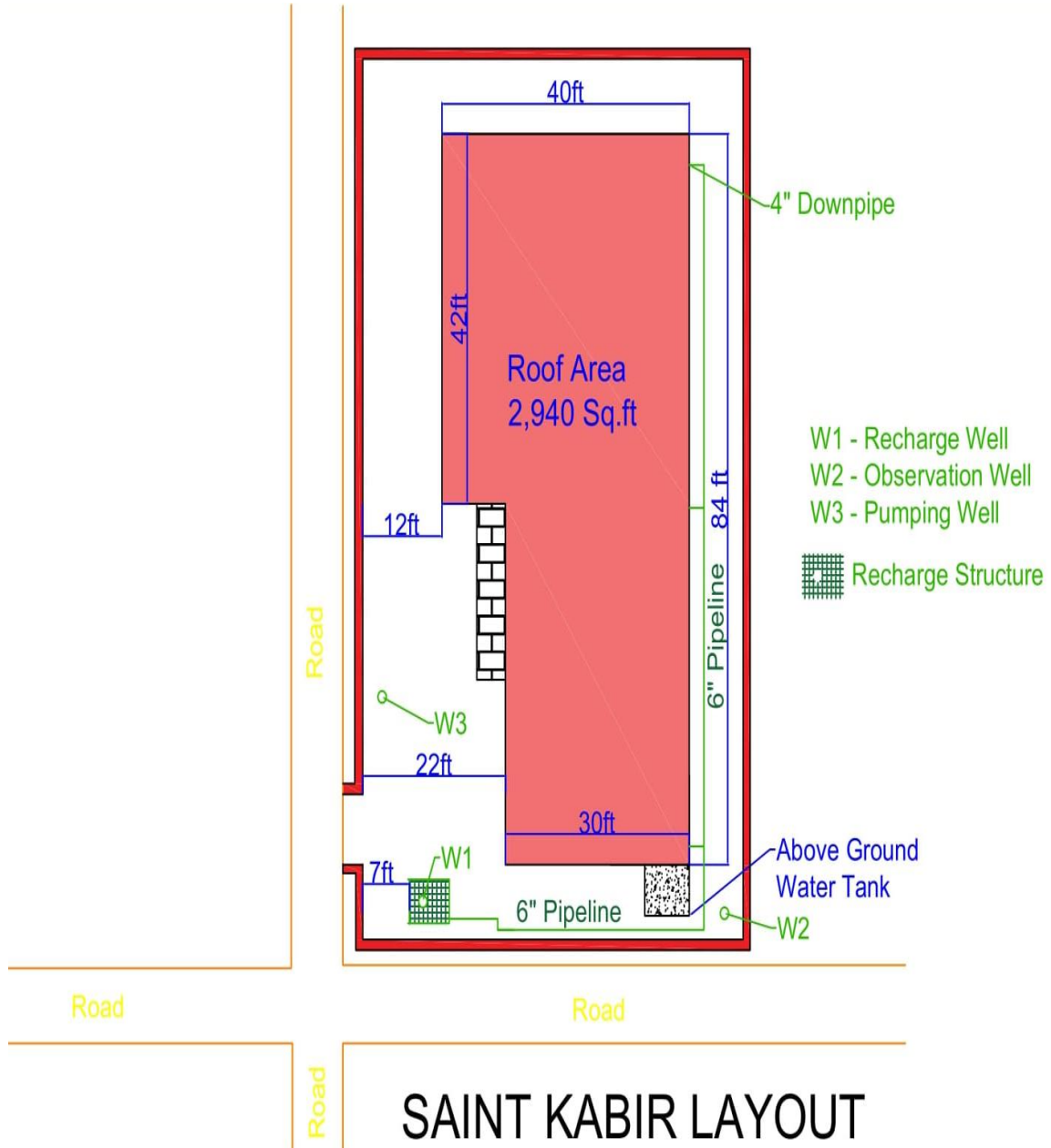
Force Majeure

Contractor would take all necessary steps to ensure prompt delivery. They would not, however, be held responsible for any delays due to circumstances beyond control. ICLEI South Asia would not have any liability in case of circumstances beyond control arising from natural disasters or manmade disasters or act of God.

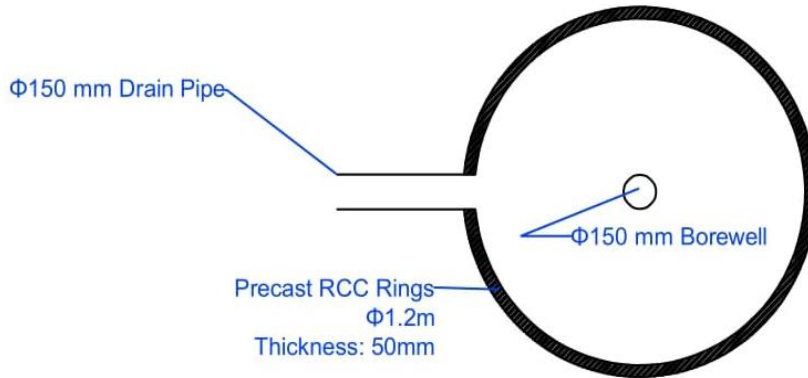
Additional Information

- ICLEI South Asia has the authority to call off this tender or make any changes or amendments to the contents of this tender in part or full, at any time, without giving any reason. The tenderers shall have no cause for objection or claim or action against ICLEI South Asia or local government authority for not selecting their tender.
- Sales Tax/GST/VAT/TIN/PAN registration number should be mentioned in the tender document and the bills/invoices raised after selection
- All requisite permissions from Authorities are to be undertaken by the Contractor. ICLEI South Asia would facilitate the same but it would be the Contractors responsibility to procure these. Contractor would be required to procure a Utilization Certificate for completion of the project to the satisfaction of ICLEI South Asia.
- The Contractor would have to raise an invoice for payment at each stage along with the required supporting documents.
- Financial bid quoted by the contractor shall be inclusive of all taxes and additional costs. No other costs, than those mentioned in the contract shall be entertained unless agreed mutually between ICLEI South Asia and the contractor
- All costs of transportation of material to the site are to be borne by the contractor. No additional payments shall be made for this
- Bids where the unit rates are found to be significantly higher than the standard costs can be disqualified
- The total cost of tender and item rates for the contract shall be fixed for the entire duration of the contract and no changes to the same shall be entertained at any cost
- All costs should be in INR. In cases where INR is not specifically mentioned, it shall be implied that the costs are in INR.
- Contractors can request for prebid conference call or site visit (at own cost) before submitting the tender
- Conditional tenders would not be accepted

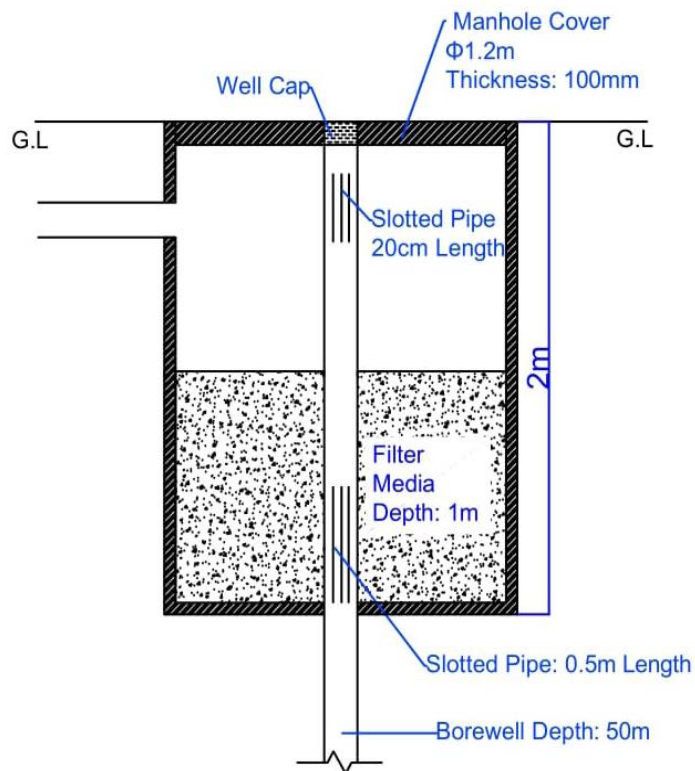
Annexure I: Layout of Sant Kabir School



Annexure II: Recharge Shaft at Sant Kabir School

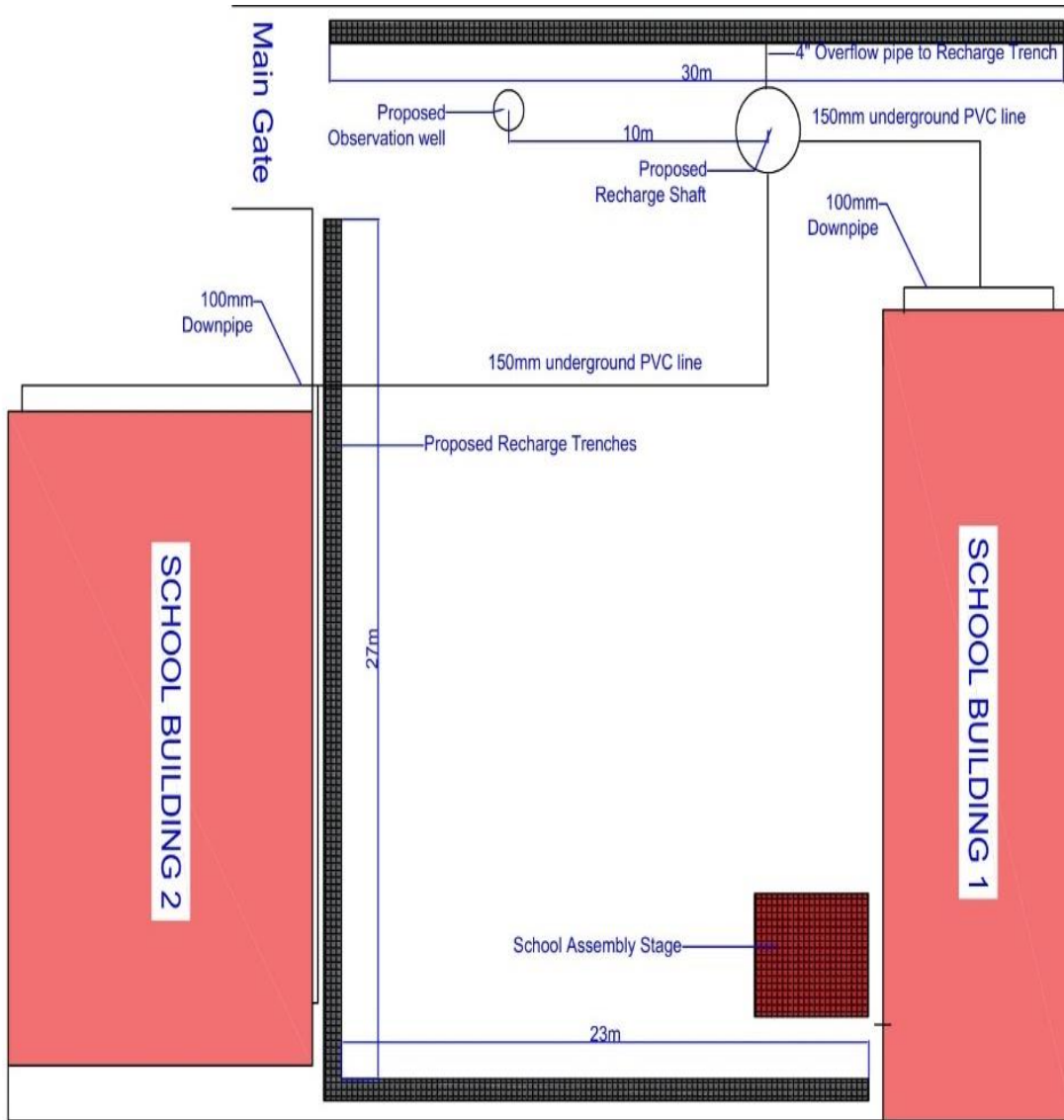


PLAN VIEW



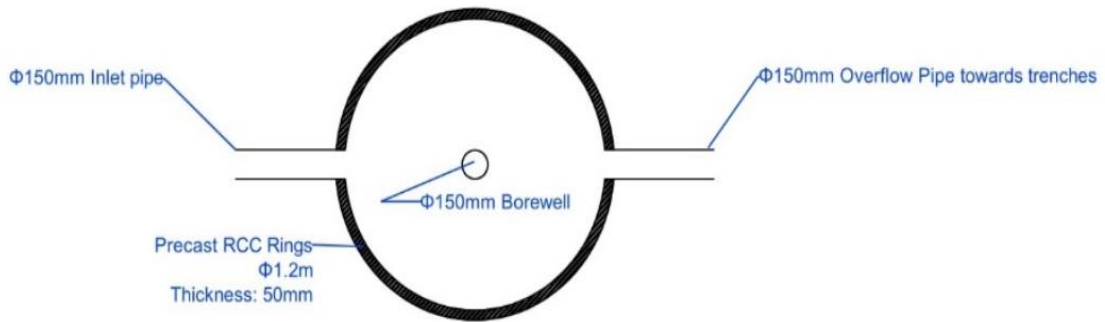
SECTION VIEW

Annexure III: Netaji Nagar School

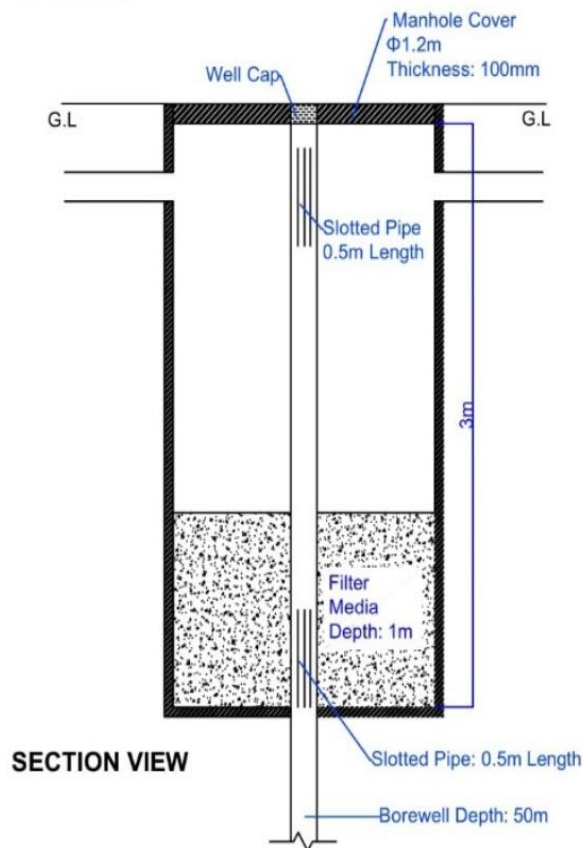


NETAJI NAGAR SCHOOL LAYOUT

Annexure IV: Recharge Shaft at Netaji Nagar School

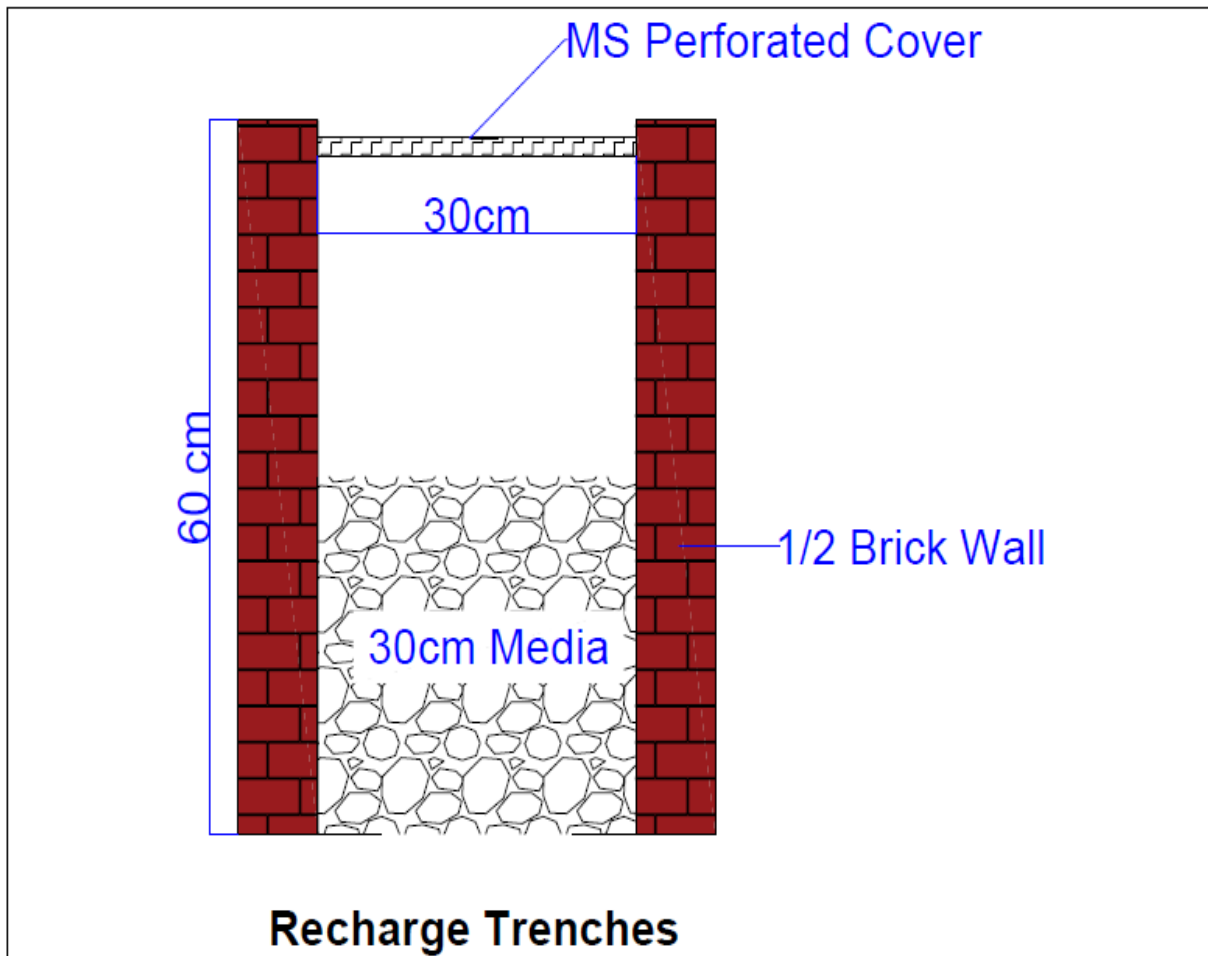


PLAN VIEW




SECTION VIEW


Annexure V: Recharge Trench at Netaji Nagar School



Annexure VI: Information Display Board


To be translated in Marathi and finalized after discussions with ICLEI South Asia






Rain Water Harvesting system for ground water recharge
under the project on
'Accelerating climate action through the promotion of Urban Low
Emission Development Strategies (Urban-LEDS II)'

Jointly Implemented by




URBAN LEADS
URBAN LOW EMISSION DEVELOPMENT STRATEGIES

Jointly Implemented by




UN HABITAT
FOR A BETTER URBAN FUTURE

Supported by



Local Governments
for Sustainability

Supported by



Annexure VII: List of Approved Makes for Civil & Plumbing Works

Sr.	Materials	Approved Make
1	CPVC PIPES / FITTINGS	ASTRAL/FINOLEX/ASHIRWAD/PRINCE/ SUPREME
2	G.I. PIPES / FITTINGS	ISI marked Jindal Hissar, Tata, Prakash or equivalent
3	4" & 6" SWR Pipes	ASTRAL/FINOLEX/ASHIRWAD/PRINCE/ SUPREME
4	Rainwater filter (wall mounted)	NEERain or equivalent
5	Water Tank	Syntax or equivalent
6	Submersible pump	CRI, Crompton or Kirloskar
7	Electrical cable/electrical components	Finolex/Havels/Polycap/BIS approved
8	Cement	OPC 53 grade (for roof works) ACC, Birla, Jaypee, L&T, Shree, J.K, Ambuja; OPC 43 grade (for other works) ACC, Birla, Jaypee, L&T, Shree, J.K, Ambuja
9	Sand	River Sand or Equivalent
10	White Cement Putty	J K Wall Care, Birla Wall Care
11	Water proofing compound	Dr. Fixit
12	Paints	NEROLAC / ASIAN PAINTS/Berger
13	Iron/steel works	ISI marked TATA TISCO, JINDAL, SAIL, RINL

The above list is not exhaustive and as such materials beyond the above said list shall be used in the work only after due approval from the ICLEI South Asia Team.

Annexure VIII: Bill of Quantities Form

1) Saint Kabir School

SN	Description of Work	Quantity	Rate	Per	Amount
1	Excavation in Hard Rock Earth work in excavation by mechanical means (Hydraulic excavator) / manual means in foundation trenches or drains (as required) including dressing of sides and ramming of bottoms, including getting out the excavated soil and disposal of surplus excavated soil to the lead of 5.0 km as per the instruction of Engineer/Consultant in Charge. All kinds of soil.	10		Cum	
2	Drilling and development of Recharge, observation and pumping well a) Drilling recharge well up to 50 m depth from the surface level and providing 150mm casing, complete. b) Drilling pumping well up to 100 m depth from the surface level and providing 150mm casing, complete. c) Drilling observation well up to 50 m depth from the surface level and providing 150mm casing,	50 100 50		m m m	



	<p>complete.</p> <p>d) Providing and Installation of 2 HP single phase submersible pump (CRI, Crompton or Kirloskar make)</p> <p>e) HDPE piping and fitting in pumping well, complete (80 m)</p> <p>f) Submersible Pump cable (90m), wiring and installation of motor starter at the desired location in the school premises, complete.</p>	<p>1</p> <p>80</p> <p>90</p>		<p>Nos</p> <p>m</p> <p>m</p>	
3	<p>Construction of recharge structure as as per design specifications (Capacity: 2500 Litres)</p> <p>Detailed Specifications:</p> <p>a) Providing and laying Cement Concrete M-100 grade 1:3:6 (1 cement: 3 coarse sand : 6 hand broken stone aggregate 20mm nominal size) in recharge structure PCC</p> <p>b) Laying pre-cast RCC rings up to the height of 2m.</p> <p>c) Providing slots on recharge well and covering it with the nylon mesh</p> <p>d) Providing and fixing man hole (1.2 m dia cover of concrete and sealing it from the side using</p>	2,500		Litre	



	silicon and plaster of Paris.				
4	Filter Media Providing and laying 20mm uniform size filter media upto 1 meter height	1		Cum	
5	Plumbing Works a) 24-meter 4" downpipe (SWR Finolex/Prince/Astral make) from the rooftop to ground level b) Installation of NEERain 4" rainwater filter on the downpipe c) Digging and laying 40-meter 6" underground pipe (SWR Finolex/Prince/Astral make) connecting to the recharge structure d) Supply and installation of 2,000 litre overhead water tank (Double layer, Syntax make) and reinstalling the old water tank on the ground floor toilet roof e) 1-inch c-PVC line (40 m) connecting the borewell to the overhead tank and overhead tank connection to the ground floor toilet tank f) Installation of one inch solenoid valve and fully automatic water level controller with indicator and complete wiring at toilet roof tank	24 3 40 1 40 1		m m m Nos m Nos	
6	Roof Repair work Roof chipping, plastering using waterproofing compound & punning and providing the slope (1:300) towards eastern side. (Effective roof	250		Sq. m	

	area: 250 sqm. Approx.)				
7	Restoration work				
	a) Paver placement on excavated area during the recharge structure construction and laying underground pipeline (Max. Area 25 sqm.)	25		sqm	
	b) Reconstruction of 6 ft ½ brick boundary wall with plastering and paint both sides, if there any damages occur during the digging of borewell and recharge structure construction (Max Area. 15 sqm)	15		sqm	
	c) Display of information board with fixed support and size of 3 ft. X 4ft.	1		Number	
Total Cost:					
Taxes (All)					
(A) Total for Sant Kabir School					

2. Netaji Nagar School

SN	Description of Work	Quantity	Rate	Per	Amount
1	Excavation in Hard Rock Earth work in excavation by mechanical means (Hydraulic excavator) / manual means in foundation trenches or drains (as required) including dressing of sides and ramming of bottoms, including getting out the excavated soil and disposal of surplus excavated soil to the lead of 5.0 km as per the instruction of Engineer/Consultant in Charge. All kinds of soil.	15		Cum	
2	Drilling of Recharge and Observation well a) Drilling recharge well up to 50 m depth from the surface level and providing 150mm casing, complete. b) Drilling observation well up to 50 m depth from the surface level and providing 150mm casing, complete.	50 50		m m	
3	Construction of recharge structure as per design specifications (Capacity: 5500 Liters) Detailed Specification a) Providing and laying Cement	5500		Liter	



	<p>Concrete M-100 grade 1:3:6 (1 cement: 3 coarse sand : 6 hand broken stone aggregate 20mm nominal size) in recharge structure PCC</p> <p>b) Laying pre-cast RCC rings up to the height of 3m.</p> <p>c) Providing slots on recharge well and covering it with the nylon mesh</p> <p>d) Providing and fixing man hole (1.2 m dia cover of concrete and sealing it from the side using silicon and plaster of Paris</p>				
4	<p>Filter Media</p> <p>Providing and laying 20mm uniform size filter media up to 1 meter height</p>	1.2		Cum	
5	<p>Plumbing Works</p> <p>a) 60-meter 4" SWR downpipe from the rooftop to the ground level (Building 1 & Building 2)</p> <p>b) Digging and laying 36-meter 6" underground pipe (SWR Finolex/Prince/Astral make) connecting to the recharge structure (Building 1 & Building 2)</p> <p>c) Installation of NEERain 4" rainwater filter on the downpipe</p>	60		m	
		36		m	
		4		m	



6	Roof Repair work				
	a) Roof chipping, plastering using waterproofing compound & punning and providing the slope (1:300) towards eastern side. (Effective roof area: 200 sqm. Approx. Building 1)	200		Sq. m	
	b) Construction of 1/2 ft Parapet wall (1/2 brick) around the school roof with plastering and paint both sides covering roof parameter of 65 meter (Approx. area: 10 sq. m., Building 1)	10		Sq.m	
7	Recharge Trenches				
	Construction of 50 m x 0.3m x 0.6m recharge trench on northern side and 30m x 0.3m x 0.6m recharge trench on southern side. Backfilling trenches with 0.3m course gravel and providing perforated mild steel cover (10 kg/m). Total trench length: 80 m	80		m	
8	Display of information board with fixed support and size of 3 ft. X 4ft.	1		Number	
Total Cost:					
Taxes (All)					
(B) Total for Netaji Nagar School					
Total A+ B					

Annexure IX: Proposal/Bid Submission Form

To
Executive Director
ICLEI-Local Governments for Sustainability, South Asia
New Delhi – 110016

I/We have read and examined the terms of reference (ToR) documents relating to 'Execution of Rain Water Harvesting system for ground water recharge in the schools of Nagpur Municipal Corporation, Nagpur, Maharashtra under the project on 'Accelerating climate action through the promotion of Urban Low Emission Development Strategies (Urban-LEDS II)' including the main tender document and Annexure I to IX.

I/We hereby submit our proposal for execution of the work/consultancy referred to in the aforesaid documents in accordance with the terms and conditions contained or referred to therein and in accordance in all respects with the specifications, designs, drawings and other relevant details at the rates furnished in the bid document and within the period(s) of completion as stipulated in Annexure documents and our proposal.

If I/We fail to keep the proposal open as aforesaid or make any modifications in the terms and conditions of the proposal which are not acceptable to ICLEI South Asia or after signing of contract are unable to provide work or services to the satisfaction of ICLEI South Asia as per the terms of the contract and annexure documents, I/We agree that ICLEI South Asia shall without prejudice to any other right, be at liberty to forfeit earnest money absolutely. Should this proposal be accepted, I /We agree to abide by & fulfil all the terms conditions of aforesaid document and the annexure documents.

If after the proposal is accepted, I/we fail to commence the execution of the work, I/We agree that ICLEI South Asia shall without prejudice to any other right or remedy is at liberty to forfeit the said earnest money absolutely.

Signature and stamp of applicant.....

Name.....

Organization.....

Date and place.....



