Tender for Municipal Solid Waste Processing and Disposal for 2 Wards in Kishangarh (Ward No. 17 & 28) as per Municipal Solid Waste Rules, 2016

**Section 1: Name of work**

Tender for compost plant construction and operation; for composting of wet waste collected from wards under AdoptIUWM pilot project in Kishangarh city.

**Section 2: Project Background**

ICLEI South Asia is implementing the European Commission funded project on Adopting Integrated Urban Water Management in Indian Cities (AdoptIUWM) in 2 cities of Rajasthan (Jaisalmer and Kishangarh) and 2 cities of Maharashtra (Kishangarh and Ichalkaranji). Through implementation of IUWM toolkit, each project city has come up with 2 pilot projects for implementation. One of the pilot projects being implemented by Kishangarh city is for solid waste management for two wards of the city. ICLEI South Asia in partnership with Kishangarh Municipal Council initiated segregated door to door waste collection in two wards of the city: Ward 17 and Ward 28 under AdoptIUWM project. Under this initiative, nearly 450 households are being covered at present (150 commercial and 150 residential units are to be added in December 2016) and 4 way segregation of waste is currently being undertaken. This includes: wet waste, recyclables, dry waste and food for Gaushala (cow shelter). The estimated wet waste collection from 450 households is 250 kg/day and expected wet waste collection from all 750 units (after additional 300 units are covered in December 2016) is expected to be between 400 to 450 kg/day. Waste from a local Sabzi Mandi or vegetable market would also be included in this. The segregation achieved at present is nearly 85 to 95%. Monthly user fee is also being collected from the households and the project has been operational since July 2016.

In the second phase, the wet waste from the wards is proposed to be composted and the compost is proposed to be sold to generate revenue to meet the operational costs of the compost plant. This facility is proposed to be set up as a model to demonstrate benefits of composting and as a model for replication by individuals or Kishangarh Municipal Council in future.

**Section 3: Scope of Work**

This tender would lead to a tripartite agreement between the contractor, ICLEI South Asia and Kishangarh Municipal Council (KMC). A compost facility based on a combination of windrow composting and vermicomposting is proposed to be set up in accordance with MSW Rules 2016; as per following specifications and details given in this tender documents and its annexure. Purchase of items as given in Annexure 1 needs to be undertaken. (note: For the purpose of this contract, the term ‘contractor’ refers to the composting facility contractor under this tender, unless specified otherwise):

**Primary collection of waste**

- Collection of waste from households would be undertaken by the door to door collection contractor already in place.
- The existing contractor for door to door collection would provide segregated wet waste (at least 80% segregation) in containers at a designated place, mutually agreed between ICLEI South Asia and contractor, for collection by contractor.
- Containers for storage of wet waste would be provided by ICLEI South Asia
- Space for storage of containers with wet waste shall be provided by Kishangarh Municipal Council. Ensuring safe storage of wet waste till the time of collection by contractor on a weekly basis (twice a week) would be the responsibility of KMC

**Transportation of waste**

- Transportation of waste from the designated site to the composting facility would be the responsibility of the composting contractor
- The composting contractor would be required to collect approximately 2800 kg of wet waste in two rounds per week. The composting contractor would be required to arrange for vehicle for transportation of approximately 1200 kg of wet waste per round. The spacing between the collection should be such that the collected wet waste should not lead to stink or
complaints in the neighbouring areas close to the storage site. In any case, the collection of waste cannot be more than 4 days apart.

- The Contractor shall provide closed body type/coverable three/four wheeler vehicle with suitable capacity and quality. The vehicle shall meet all applicable Central Motor Vehicles Rules (CMVR) of India/ Govt. safety norms, Emissions & other norms applicable as per the date of manufacture.
- All vehicles used should be registered in Regional Transport office, Kishangarh, shall be fully insured, PUC cleared and shall strictly follow all the rules and regulation of RTO Kishangarh. Yearly RTO passing must be done by agency at scheduled time, failure to do so shall invite action.
- All vehicles shall be painted/provided with stickers mentioning name of contractor, contact no. in case of complaints, IEC messages for the citizens and AdoptIUWM project details (with EU logo) and any other information as instructed by KMC or ICLEI South Asia from time to time. The contractor shall provide a board showing that the vehicle is on Municipal duty (conservancy work).
- The Contractor shall ensure that the transportation of MSW takes place only in closed/covered vehicles to prevent littering/spilling.
- The Contractor is required to maintain all the vehicles in full serviceable condition during the period of contract entirely at his/her own cost including the cost of fuel, spare accessories, lubricants, punctures, air, hydraulic oils etc.
- To avoid mishap or accident during the contract period, the Contractor shall ensure that only skilled staff/drivers with sufficient experience in their respective trade are deployed for the job.
- The Driver must be always be in possession of a valid professional driving license and the driving license should be at least two years old.

Composting

- The contractor would have to provide a land parcel of at least 400sqm for setting up of compost plant and wind row composting facility. The contractor would be required to produce necessary documents to show ownership or rental or lease of the said parcel of land for at least 5 years.
- Compost facility would be designed for 500kg of wet waste per day or approximately 180 tonnes of wet waste per year
- The composting facility would comprise of a mix of wind row composting followed by vermicomposting.
- The contractor would have to provide land for construction of the windrow platform, composting shed and composting pits as per specifications given in this tender document and its annexure.
- Wet waste collected from Kishangarh project wards would be brought to the site and would be put for 14 days of windrow composting followed by 30 days of vermicomposting. The contractor would be responsible for ensuring that the waste is transported to the composting facility twice a week, dried for 14 days at the windrow platform and then transferred to the vermicomposting site. Adequate curing and mixing of waste at regular intervals would be the responsibility of the contractor.

Operation and maintenance including sale of compost

- The contractor would be required to add 2 barrels of cowdung (50 kg each) and 10kg of earthworms every week during the operation period
- The contractor should ensure water proofing of composting facility during rains and avoid excessive heating of the composting pits during summers.
- The contractor should maintain documentation of weight of wet waste received on a weekly basis in a log register
- The contractor would be required to add water and ensure adequate shading of the composting pits during the operational phase
- The contractor would be responsible for ensuring good quality compost production from the facility.
- The contractor would be responsible for packaging of compost for sale and transportation (if required) to the market for sale of compost.
- The revenue earned from sale of compost would be used by the contractor for operation and maintenance of the composting facility and transfer of benefits to the users (households giving waste from Kishangarh project wards).
The contractor should take responsibility for successful functioning of the composting facility for a period of at least three months as part of this contract. Beyond the contract period, the contractor should undertake measures to ensure successful functioning of the composting facility for a period of at least one year.

The contractor should ensure that compost sale is mobilized within 45 to 50 days of delivery of first batch of wet waste.

The contractor should ensure that construction of the composting facility takes no longer than 45 days from the day of award of contract.

The contractor should actively participate and cooperate in public awareness campaigns organized by KMC and ICLEI South Asia

The contract would be a tripartite agreement between KMC, Contractor and ICLEI South Asia and would be valid for a period of 4 months till March 2017 (whichever is earlier). Subsequently, KMC and the contractor can enter into a revised contract after completion of duration of this contract

The contractor, in consultation with ICLEI South Asia and door to door collection contractor, should ensure a fixed timing and schedule for collection and transportation of wet waste

All equipment and vehicles required for composting facility are to be arranged by the contractor. KMC or ICLEI South Asia will not provide any equipment, vehicles or manpower for this contract, unless agreed in writing between KMC, ICLEI South Asia and the contractor.

The rates for sale of compost by contractor shall be approved by ICLEI South Asia and shall be in accordance with the standard rates in and around Kishangarh.

The contractor would be required to maintain a detailed logbook of compost generated, compost sold, revenue earned and utilization of the earned revenue along with receipts/invoices where applicable. The contractor would be required to issue receipts for sale of all compost from the composting facility and maintain a receipt book. Representatives from ICLEI South Asia and/or KMC can visit the site and check these records at any time

The financial model for the composting facility is given in Annexure III

Any additional waste other than wet waste that is received at the composting facility but cannot be used for composting shall be disposed off in accordance with MSW Rules 2016 by the contractor. The contractor can deliver this other waste back to the door to door collection contractor for safe disposal.

The contractor shall ensure that no complaints arise from storage, transportation, composting and sale of compost under the project. It shall be the contractor’s responsibility to address any such complaints. All complaints should be addressed within 6 hours; in certain cases a maximum of 24 hrs can also be permitted after consent from KMC and ICLEI South Asia. The Contractor would be required to maintain a register with log and redressal details of each complaint in the format given by ICLEI South Asia

In case of festive season or special occasions, waste collection frequency more than twice a week might be required and shall be undertaken by the contractor at own discretion

The contractor should take adequate measures for odour control and mosquito prevention at and around the composting facility

The contractor should ensure attainment of necessary permissions and certificates from State Pollution Control Board and/or KMC for sale of compost

Handholding support and IEC activities

The contractor would be provided initial handholding support by team from ICLEI South Asia but construction and maintenance of the composting facility and all its components in accordance with the specifications given in the contract would be the responsibility of the contractor.

One day training programme for contractor and other entrepreneurs on composting would also be arranged by ICLEI South Asia

The contractor would be required to actively participate in KMC and ICLEI South Asia’s public awareness campaign for generating awareness and sensitization among community to inculcate habit of segregation at source, separate storage and composting. The activities required to be undertaken by the Contractor will include display (painting) prominently on the
vehicle/composting facility slogans, messages, etc. for promoting segregated waste collection and benefits of composting; in at least one local language.

- Undertake awareness campaign for its staff involved in collection, transportation of segregated waste and delivery upto composting facility
- The Contractor shall have to paint the slogan like "CLEAN KISHANGARH GREEN KISHANGARH" or other slogans communicated from time to time in at least one local language on vehicles or at composting facility as and when directed by Municipal Commissioner, KMC or ICLEI South Asia or their authorized representative.
- Participation in stakeholder workshops conducted under the project

**Purchase of items**

- Purchase of items as listed in Annexure would be undertaken by the contractor and these items would be provided to door to door waste collection contractor or used for composing, as per directions of ICLEI South Asia.
- The contractor would take full responsibility of the purchased items. Any defects or substandard material would have to be replaced at no additional costs.

**Section 4: Human Resources**

- The Contractor shall provide well-trained, disciplined, honest and sincere workforce in sufficient numbers (at least one), which shall be maintained throughout the contract period. No additional payments will be made if contractor needs to increase the workforce, vehicles, equipment, cleaning material at a later stage after signing of the contract to meet the requirements of the work.
- The Contractor shall comply with all the provisions of the laws regarding deployment of labor under the contract. It shall be the liability and responsibility of the Contractor to implement the provisions of the Act, the abolition of Contract Labor Act, The Minimum Wages Act and the Workers’ Compensation Act etc.
- The Staff / drivers deputed by the Contractor during the course of contract must behave decently and cooperate in project implementation, especially with KMC officials and ICLEI South Asia officials. The Contractor shall have to withdraw such person(s), who is found to be undisciplined, misbehaving, under the influence of any intoxicant or whose services are considered detrimental to the KMC’s interest, failing which KMC may serve a Notice to the Contractor. Failure to replace the personnel after issuance of notice by KMC/ICLEI South Asia in writing can lead to termination of the Contract. It will not be binding on the part of KMC to justify the reasons to the Contractor for advising such withdrawal of staff.
- All staff employed by the contractor should be able to communicate in Hindi. Ability to communicate in English would be an added advantage.
- The Contractor may, at his own cost and responsibility, consider increasing his workforce, equipment, vehicles and materials in order to meet the requirements of the work.
- KMC reserves the right to ask for the replacement of the personnel not found fit enough or for the want of discipline, honesty, sincerity or quality. The same shall have to be replaced by the Contractor without any extra cost to KMC.
- The Contractor shall take full responsibility to provide the following benefits to his deployed staff:
  - Timely payment of wages to workers
  - Medical check-up of each staff engaged with management and handling of MSW
  - Ensuring that the deployed staff are in prescribed uniform and identity card (ID) with photo during working hours.
  - Adequate safety gear (gloves, boots/shoes/wellies, jacket) are worn by the staff/workers at all times during the MSW collection and transportation.
- The Contractor, in performing the obligations under the contract, shall use no harmful chemicals or reagents. If at all the same are to be used sparingly, prior approval from KMC or ICLEI South Asia in writing is necessary, without which the loss arising out of the same shall be debited to the Contractor. KMC and their authorized representatives reserve the right to impose financial penalty, during the routine inspection carried out by KMC or ICLEI South Asia staff. The decision on amount of penalty within the above limit is sole discretion of the Commissioner KMC and shall be binding on the Contractor.
• The Contractor shall maintain a First Aid Kit at the composting facility with necessary medicines including bandages, antiseptic creams/liquid, burn cream/powder as required to attend to any emergency situations.
• All necessary insurances for the said work and workforce are to be made effective by the contractor. Insurance for Third Party Liability, workman compensation arising out of Contractor's equipment, cleaning agents or workforce should also be taken by the Contractor from the first day of operation. KMC or ICLEI South Asia shall not be responsible for any losses occurring to the Contractor on this account.
• In case of any accidents that might arise during the course of the work involving any staff or equipment, the liability for the same would be with the Contractor. KMC or ICLEI South Asia would not be liable for any such damages or losses. Hence, it is advisable that the Contractor should get insurance for equipment and staff on work.
• The contractor cannot subcontract the full or any part thereof of the contract, without prior permission of KMC and ICLEI South Asia in writing
• Contractor shall take due precautions to ensure that no inconvenience or damage to any public/private property/person/others is caused during the course of the contract. In case of any such incident, the complete liability for the incident and any impacts arising thereof, would be with the contractor. KMC and ICLEI South Asia shall have no liability for the same.
• 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.

Section 5: Reporting, Monitoring and Evaluation

1. KMC and ICLEI South Asia reserve the right to carry out inspection, as and when required of the composting facility, without intimating the Contractor. Any shortcomings found during inspection shall have to be attended immediately by the Contractor or his workers. However, continuous shortcomings shall lead to the penalties for the Contractor. The penalties imposed on the Contractor, shall be recovered from the Visibility Gap Funding. KMC and ICLEI South Asia reserve the right to treat continuous shortcomings as “Deficiency of Service” and terminate the Contract with immediate effect.
2. The Contractor is required to ensure that all materials and equipment used for project work are of standard quality.
3. KMC along with ICLEI South Asia has the right to charge the contractor for any damage caused to KMC assets and the same shall be recovered from the Contractor with immediate effect.
4. It is unlawful for the Contractor to dump or dispose of solid waste, garbage, or recyclables upon any street, alley or other publicly owned property unless explicitly authorized by the KMC for special collection programs.
5. The Contractor has to maintain weekly log registers for collection of waste from designated spot in Kishangarh city.
6. The Contractor shall carry out all reporting to the concerned officials as required by KMC and ICLEI South Asia.
7. The contractor shall inform ICLEI South Asia and KMC in case of non receipt of wet waste or any other issues related to raw material procurement for composting.
8. It is the responsibility of the Contractor to promptly attend complaints, grievances, and emergency situations. The complaints should be attended to, within a response time of 6 hours and satisfaction report/consent on action taken should be obtained from the complainant (in format given by KMC and ICLEI South Asia). Non satisfactory or delayed resolution of such complaint can attract penalties in accordance with Section 19
9. The Contractor shall also provide attendance reports of their labour/staff members confirming their presence/attendance on duty to enable field verification and evidence in times of accidents etc.
Section 6: Eligibility Criteria

Technical eligibility

The contractor must meet the following ‘mandatory conditions’ and at least one of the ‘additional conditions’ required for this tender. Contractor should also meet the financial eligibility criterion. Contractors meeting technical and financial eligibility should submit the financial bid along with supporting documents for technical and financial eligibility.

Individuals, registered institutions or NGOs can bid for this tender individually or in Joint Venture with other firms that qualify the eligibility criteria. Contractors are encouraged to undertake city visit and identify the site suited for composting before submitting the bid.

Mandatory conditions
a. The entity(ies) must be registered in India
b. The entity(ies) must have experience in operating a compost plant for at least one year.
c. The entity(ies) should not be blacklisted or should not be a defaulter with any government or donor agency.
d. The tenderer should have ownership or lease or rental documents for the said parcel of land of at least 400sqm with retainership for at least 5 years for establishment of composting facility.

Supporting documents for all the above conditions should be provided by the contractor.

Additional conditions
a. Entity(ies) from Rajasthan would be preferred
b. Entity(ies) should be registered/associated/affiliated with Municipal Council of Kishangarh or any other government agency in Rajasthan
c. Entity(ies) should have at least 2 staff hired as full time employees
d. Local contractor(s) with experience in Kishangarh/Ajmer region would be preferred.

The contractor would be required to provide supporting documents for all the applicable ‘additional conditions’

Financial Eligibility

The contractor should satisfy at least two of the following:
- Net worth of lead member: Minimum INR 1.5 Lakhs
- Net cash accruals: Minimum INR 1.5 Lakhs
- Liquid assets and or availability of credit facilities of not less than INR 1.5 lakhs in the form of Credit lines/ Letters of credit/bank deposits statement/ certificates from Nationalized banks
- Registration with any government department in Rajasthan

The contractor would be required to provide supporting documents for all the applicable ‘financial eligibility’ conditions. True copy of labor License, PF, vehicle tax & professional tax paid as per rules & documents (where applicable) shall be submitted to ICLEI South Asia and/or KMC, Kishangarh.

Financial Bid

The contractor should submit the financial bid for the project
1. Financial bid for tasks listed in the bid document and Annexure 1. The total cost should include implementation costs and costs for 3 months O&M of the structure and systems created
2. Item wise break up for all structures and services for the composting facility (in accordance with Annex I, II and III)
3. Financial Audit or Income Tax report for at least one year, preferably last 3 years
4. Tender submission Form (Annexure IV)

Note: All Technical and Financial bids should preferably be in English. The financial bid should be in accordance with the State government Schedule of Rates.
Soft copy of the tender document (technical and financial) should be mailed to ICLEI South Asia on the details mentioned in this contract.

Financial bid should be inclusive of all taxes. Any additional charges, over and above the financial quote will not be entertained.
Section 7: Duration of contract
This contract would be valid from the day of signing of contract by both parties till March 2017 (over approximately 4 months)

Section 8: Key specifications
Refer to Annexure I. Drawings for the composting facility are given in Annexure II

Section 9: Ernest Money Deposit (EMD)
1. The successful Contractor shall deposit and keep deposited with the KMC/ICLEI SA a sum of INR 5,000 as mentioned in NIT as Earnest Money Deposit (EMD).
2. The Earnest Money Deposit (EMD) shall be in the form of a Demand Draft from a nationalized/ scheduled bank in favour of the KMC payable at Kishangarh, Rajasthan.
3. EMD should be valid for a period of 4 months and would be returned to the contractor at the end of this duration.

Section 10: Financial Model
1. The financial model for the contract shall be based on Annexure III.
2. The contractor shall either provide consent to the proposed financial model or submit an alternative financial model for functioning of the composting facility for a duration of one year
3. If the contractor is selected, the proposed financial model can be revised in consultation with the selected contractor and based on consent of KMC, ICLEI South Asia and contractor at the time of signing the contract.
4. The Contractors are expected to work out their own rates, considering different aspects of scope of work. This includes all requirements under the Contractor’s responsibilities for performing different tasks for MSW and, those required by the bidding documents, the acquisition of all permits, approvals and licenses, etc, operation, maintenance and training services and such other items and services as per the scope of work specified in the bidding documents, all in accordance with the conditions of the Contract.

Section 11: Roles and Responsibilities

Role of contractor
1. To ensure collection of wet waste from the designated spot in Kishangarh city on a weekly basis (twice a week) using own vehicle and driver
2. To ensure construction of composting facility and related services in accordance with specifications given in this tender document and its annexure
3. To ensure operation and maintenance of the composting plant and undertaking successful composting of wet waste from Kishangarh city project wards over the contract duration
4. To compost at least 400kg of waste or wet waste collected from project wards in the city, whichever is higher, on a daily basis after plant construction
5. To ensure that adequate care is taken to prevent pollution of water or soil and adequate hygiene is maintained at the composting facility
6. To ensure that the composting facility does not lead to any spread of diseases or any complaints from neighbouring areas or KMC or ICLEI South Asia
7. To ensure adequate watering of the waste and ensure adequate shade for effective functioning of earthworms
8. To ensure disposal of inerts & rejects from wet waste in accordance with the MSW Rules 2016.
9. To ensure that the plant is able to process and handle entire MSW generated in the city with yearly incremental quantities.
10. To ensure that the final product ‘compost’ meets the standards specified in the MSW Rules, 2016, FCO 2013 and other rules.
11. To ensure that the plant meets stipulated pollution norms and guidelines and the municipal solid waste is handled and managed in compliance with the MSW (Handling and Management) Rules 2016 and also conforming to the guidelines of the revised Manual on Municipal Solid Waste Management published by CPHEEO, Govt. of India.
12. To provide adequately skilled staff to undertake O&M of the composting facility
13. To ensure water and power availability for the composting facility
14. To ensure that land parcel is available for establishment of composting facility and is either owned/rented/leased to the contractor for at least 5 years
15. To ensure that the compost product is adequately packaged and transported for sale at a regular basis (decided in consultation with ICLEI South Asia and KMC)
16. To ensure that compost is sold at market rates
17. To maintain records for compost transported to composting facility on a weekly basis and compost sold in the market
18. To undertake complaint redressal
19. To maintain active communication with ICLEI South Asia and KMC and to regularly update both agencies on project progress
20. To facilitate site visits or inspections by representatives from ICLEI South Asia, KMC and European Commission
21. To provide any information required for reporting to European Commission

**Role of Kishangarh Municipal Council**

1. KMC shall be the Nodal agency for the project and a key agency for contracting the activity. The main answerability of the contractor would be to the KMC.
2. The staff of KMC as appointed by the Commissioner shall supervise the Contractor's work and services at all times and notify the Contractor in writing of any defects found/identified in operation and service level during inspection. Such inspection/checking shall not affect the Contractor’s responsibilities. The Contractor shall have to correct a defect and improve service level within the time specified in the notices.
3. KMC shall provide space for safe storage of wet waste until such waste is collected by the contractor (twice a week). KMC should also ensure that this space is guarded against intrusion by animals or others who can cause damage to the containers or cause spillage of collected wet waste
4. KMC shall also supervise transfer of some benefits, mutually agreed between contractor, ICLEI South Asia and KMC, back to the households in the project wards from whom waste is being collected
5. KMC will ensure that the city authorities and other stakeholders cooperate with the contractor for successful composting of the waste
6. KMC will ensure that there is no threat to the Contractor and his/her workers by the presence of any informal sector working in waste sector in the two wards. The KMC will be responsible for maintaining the necessary law and order situation in the two service areas.
7. KMC can initiate amendments to the contract
8. Kishangarh Municipal Council shall grant in a timely manner all such approvals, permissions and authorizations which the Contractor may require or is obliged to seek from Municipal Council under its Agreement, in connection with implementation of the Project and the performance of its obligations.
9. KMC shall ensure that the compost generated is in accordance with standards
10. KMC shall ensure that the compost is sold on rates that are in accordance with the standard market or government rates.
11. KMC can supervise processing and sale of compost by the contractor to ensure compliance to standards

**Role of ICLEI South Asia**

1. ICLEI South Asia shall be the main handholding agency providing guidance and select resources for the purpose of implementation of this contract.
2. ICLEI South Asia (ICLEI SA) shall provide funding for construction of the composting facility and Viability Gap Funding (against invoices) for the initial period under project funding from European Commission, in accordance with the terms given in this contract and its annexure (Annexure III).
3. ICLEI SA shall monitor the construction/ installation of the composting facility and composting process; and provide suggestions on the compliance of the same with the construction requirements and bring any deviations to the attention of the KMC.
4. ICLEI SA can conduct such tests as warranted to ensure the efficacy of the treatment facilities and make note of the same.
5. ICLEI South Asia can conduct inspections (with or without notice) to composting facility. KMC along with ICLEI South Asia would issue notice to the contractor in case of noncompliance. The contractor would have to honor all notices issued by KMC and/or ICLEI South Asia in accordance with the terms of this contract.

6. ICLEI SA shall provide all the necessary support, guidance and handholding to the Contractor enabling him to successfully implement the composting plant facility. One set of safety gear (gloves, boots/shoes/wellies) shall be provided by ICLEI South Asia to the staff of the contractor involved in composting of waste

7. ICLEI SA will also provide for bins for storage of waste at designated spot for collection by contractor on weekly basis (twice a week)

8. ICLEI South Asia can initiate amendments to the contract

9. ICLEI South Asia shall conduct IEC activities and handholding of contractor and other entrepreneurs on composting

10. Conduct trainings for capacity building of contractor staff, Municipal staff and residents.

Section 12: Quality Control

1. Officials from ICLEI South Asia or Kishangarh Municipal Council would undertake regular inspection of the site work during implementation phase as well as during the 3 month Operation and Maintenance phase. The officials shall check the Contractor’s work and notify the Contractor of any Defects that are found. The officials from ICLEI South Asia and/or Kishangarh Municipal Council 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. The Contractor shall permit the official(s) from ICLEI South Asia or Kishangarh Municipal Council to check the work and notify the Contractor of any defects that are found.

3. 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.

4. The official(s) from ICLEI South Asia and/or Kishangarh Municipal Council can give notice to the Contractor informing him/her of any defects after or during implementation and/or during Operation and 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.

5. The official(s) from ICLEI South Asia and Kishangarh Municipal Council can undertake survey of the composting facility. The Contractor and/or caretaker(s) shall facilitate and show cooperation for all such inspections and surveys.

6. All material supplied or used for the project shall be in accordance with National Standards. Officials from ICLEI South Asia and/or Kishangarh Municipal Council 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 below standard material used for implementation.

7. In case a defective or below standard material is found by the officials from ICLEI South Asia and/or Kishangarh Municipal Council, 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 Section 19 would be charged.

8. The Contractor would provide a board on the composting facility mentioning the AdoptIUWM project name, European Commission support as well as logos of ICLEI South Asia and project partners.

9. The Contractor cannot sublet the entire work or any subcomponent of the work unless agreed in writing with ICLEI South Asia. 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.

10. Protection of works or material during construction period shall be the sole responsibility of the Contractor. ICLEI South Asia shall not be liable to any damage/claim arising from this.

11. The Contractor should ensure that pipes don’t lead to any leakages. In case of leakages detected during implementation or during O&M phase, the Contractor shall permanently fix these leakages at own cost.

12. The Contractor shall ensure safety and proper functioning of all equipment and systems on site.
13. The Contractor shall train the caretaker(s) and stakeholders in maintenance of individual and community level systems and structures created to ensure regular O&M post withdrawal of support.

14. The material waste from construction work shall be used or disposed of by the contractor in accordance with the standards.

15. The Contractor should ensure that waste piles for more than one week are not maintained on site.

16. 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 or Kishangarh Municipal Council 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 / warrantee period shall have further warranty for a period of 12 months from the date of repair / replacement.

17. During the contract period, any broken items or services are to be replaced within 3 days of such event at the cost of the Contractor with similar model/type.

18. The Contractor shall repair, maintain and operate the allotted composting facility along with its services in good condition, during the contract period.

19. The contractor should ensure leachate from storage of waste on site or in the composting pits or wind row beds should not be generated. The contractor should ensure that the stored waste, compost pits or the stored compost don’t come in direct contact with surface water or groundwater source. Any contamination of water source(s) by leachate or compost or waste shall be the responsibility of the contractor alone. ICLEI South Asia or KMC shall not have any liability in this.

20. All components and services used should be as per National standards.

21. The contractor should make arrangements for adequate watering of compost, adequate care of earthworms and adequate shading of composting facility.

22. Samples or details of items should be discussed (including specifications/brand/make) with ICLEI South Asia and Kishangarh Municipal Council 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.

23. Any issues related to the composting facility should be resolved by the contractor at own costs.

24. The contractor should ensure that the composting facility should lead to foul odour or should not act as breeding ground for mosquitoes.

25. The Contractor may be allowed to display advertisements at the composting facility. However, the advertisements displayed shall not be repugnant to the general standards of morality and should not hurt the religious sentiments of any section of the society or compete with services provided.

26. The contractor would participate in IEC activities to train the community or other potential entrepreneurs, in partnership with ICLEI South Asia. IEC material can be displayed on the walls of the composting facility.

27. No neighbouring properties should be damaged by the construction or operation of the composting facility.

28. In instances where despite due precautions and monitoring any leakage or other external factors lead to polluted water infiltration from the structures built under the project, managing such instances (along with the cost required for preventive measures) and mitigation of related impacts shall be the liability of the Contractor. ICLEI South Asia and KMC shall not be liable for this or any legal implications arising out of such acts.

29. Actual working facility or role model facility mentioned by the bidder may be visited by expert team at any stage between tender openings to agreement signing.

30. The Contractor must meet Municipal Solid Waste (Management and Handling) Rules, 2016 and other Acts, Rules that may be imposed by Govt. Agencies. All the relevant regulations/stipulations/guidelines etc. given by CPHEEO/IPNM Task Force Report will be met by the successful bidder.

31. Within parameters of contract, all the O&M expenses including staff, fuel, maintenance, insurance, will be to the account of the successful bidder and they will not raise any claim to this effect on the Kishangarh Municipality.

32. The applicants may suggest new and advanced technologies and innovations with proper justification and merits.

33. The unit rates and prices shall be quoted by the Contractor entirely in Indian Rupees. All payments to the successful Contractor under the proposed contract shall be made entirely in Indian Rupees (Rs.).

34. The construction work should be completed in all respects within 45 days from the date of issue of work order/ date of agreement/ date of final go ahead whichever is later.

35. The contractor shall comply with the provision of the Apprentices Act 1961, minimum wages Act 1948, Workmen's compensation Act 1923, contract labour (Regulation and Abolition Act 1970), payment of wages Act 1936 Employer's
liability Act 1938 Maternity Benefits Act 1961 and the Industrial Disputes Act 1947 as applicable or all relevant act prevailing during the agreement period and the rules and regulations all amendments issued there under from time to time. Failure to do so shall amount breach of the contract and the contract may be terminated.

36. All materials and workmanship shall be of best quality conforming to latest IS Codes and PWD Specifications. Any substandard materials used can be rejected by ICLEI South Asia or representative of KMC. The contractor shall take full responsibility of such replacement of substandard material with material(s) as per standards, at his/her own costs.

37. The successful Tenderer shall be responsible for the good conduct, competence, proper and prompt performance of the laborers employed by him.

Section 13: Terms of Payment

**First instalment:** 35% mobilization advance against Ernest Money Deposit (valid for 4 month period)

**Second instalment:** 30% against delivery of material and completion of construction of composting shed

**Third instalment:** 25% on completion of following activities:
- Completion of construction of composting facility as per specifications given in this contract and its annexure
- Collection of compostable waste twice a week over a period of 6 weeks from the designated waste storage site and transportation to composting facility
- Completion of composting of first batch of compost for at least 400kg of wet waste
- Packaging of compost for sale
- Operation and maintenance of composting facility for at least one month
- Participation in Focus Group discussions, stakeholder workshops or other project workshops, as per requirement of ICLEI South Asia

**Fourth instalment:** 10% after 3 months of construction of composting facility subject to completion of the following activities:
- Successful functioning of composting facility for at least 3 months, including first batch of compost
- Participation in Training programmes and FGDs as required
- Sale of compost over a period of one month

Section 14: Timelines

The Contractor would be required to complete construction of composting facility within 45 days of award of contract and undertake operation and maintenance of facility for a minimum period of 3 months after construction. Any deviation of more than one week from the proposed schedule would invite penalties/termination in accordance with Section 19. The duration of this contract would be from the date of signing till March 2017 and the subsequent 3 month reporting period to European Commission.

Section 15: Operation and Maintenance

The contractor would be responsible for Operation and Maintenance of the facility for a period of 3 months after construction

Section 16: 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 Kishangarh Municipal Council would not have any liability in such case
3. The entire responsibility of proper conduct of staff would be with the Contractor
4. The contractor shall ensure that all staff are above the age of 14 years, preferably above the age of 18 years. In case the contractor is found to hire any underage staff, legal action, in accordance with the law of the land can be initiated against the contractor. In any such case, the entire liability would be with the contractor and KMC and ICLEI South Asia shall not have any liability.
5. The Contractor shall in respect of labour employed by him or his sub-contractor comply with or cause 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. In any circumstances water and water tanker or electricity connection will not be provided by Council or ICLEI South Asia. Any other terms for water tanker or electricity supply or generator will not be accepted.

8. The Contractor shall maintain safety of workers on site and should provide the appropriate safety equipment and gears for the same. No additional costs for this can be charged to ICLEI South Asia.

9. The Contractor shall indemnify and keep indemnified ICLEI South Asia and Kishangarh Municipal Council 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.

10. The Contractor shall maintain an attendance register on site during implementation phase and ensure all workers mark their attendance and signature. This list can be checked at any time by ICLEI South Asia representative.

11. Drinking water, food and other requirements for the labour shall be met by the Contractor.

12. The Compliance of the Safety and Health provisions are of utmost important 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.

13. Provision of First Aid Kit should be ensured on site during the entire implementation period and 3 month O&M period by the Contractor.

14. Information on Emergency contact numbers and details shall be provided to labour supervisor by the Contractor.

15. The Contractor shall make payment before 5th day/designated scheduled day of every calendar month to the manpower engaged by him on this work irrespective of monthly sale of compost.

16. If there is hike in fuel and oil price after the finalization of tender, KMC or ICLEI South Asia will not bear any extra expenses on that account and additional funding shall not be provided for the same.

17. The Contractor is liable to provide information to KMC or ICLEI South Asia or any other person that is needed under Right to Information Act, 2005.

**ACCIDENT/DAMAGES/CLAIMS/LIABILITIES**

18. In the event of any accident/damage due to the vehicles being used for the project work or due to composting facility, ICLEI South Asia shall be completely free from any liability of any nature and any impacts thereof. The Contractor will be fully and exclusively responsible for any damage to life or property in such an instance.

19. The Contractor will be fully and solely responsible for any death or body injury to his staff member or any of the people/person in the employment of the Contractor. This includes any third party claims.

20. The Contractor will be solely responsible for any consequences under laws, arising out on any accident caused by his vehicles, machinery or his employees to the property or personnel of KMC or ICLEI South Asia or any third party.

21. The KMC and ICLEI South Asia shall not be responsible for any claim/compensation that may arise due to damages/injury/death pilferage to the Contractor's or any other vehicles, machinery, property, person, staff party or the property under any circumstances while providing services under the Contract.

**INDEMNIFICATION**

The Contractor shall bear responsibility for loss of or damage to the property, death or injury to person (or any claim against KMC or ICLEI South Asia in respect thereof and all expenses relating thereto) suffered by KMC or ICLEI South Asia or third party in connection with the services provided under the contract resulting from any negligent act or omission of the Contractor without recourse to the KMC. The Contractor will hold the KMC and ICLEI South Asia fully indemnified in respect thereof. The indemnified party shall have the right, but not the obligations, to contest/defend, and liquidate any claim, action. Suit or proceeding by any third party alleged or asserted against KMC or ICLEI South Asia in respect of, resulting from, relating to or
arising out of any matter for which the KMC or ICLEI South Asia is entitled to be indemnified there under, and the reasonable costs and expenses thereof shall be subject to the indemnification obligations of the Contractor there under. The Contractor shall be liable for all payments, proceedings, liabilities including payment of counsel fees.

**Section 17: 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 the residents of the area or Kishangarh Municipal Council or ICLEI South Asia.
2. Any complaints arising during the implementation phase or during the 3 month operation and maintenance period after implementation would be the responsibility of the Contractor and ICLEI South Asia would not be liable to address these complaints.
3. In case of any complaints related to quality or timing or other aspects of the work or material used for the project (by Municipal Council or 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 Section 19.

**Section 185: 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.

**Section 19: Penalty and Termination of Contract**

1. Failing the delivery schedule mentioned in the contract document, 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 will be terminated, Ernest Money Deposit 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 is due to:
   (a) Force majeure or (b) Abnormally bad weather 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 (d) Any other cause, which, in the absolute discretion of ICLEI South Asia, is beyond the Contractor’s control.

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.
4. After award of the contract, should it appear to the department that:
   (i) The successful Contractor is not executing the order in accordance with the contract.
   (ii) The successful Contractor is not proceeding fast enough to ensure the completion of the work by the time stipulated in the order or that such time has already expired.
   (iii) The successful Contractor has refused to carry out the reasonable instruction of the authorized representatives of KMC or ICLEI South Asia.
   (iv) The successful Tenderer has committed any other breach of the contract.

Then, ICLEI South Asia in consultation with KMC can terminate the contract and re - contract to any other person(s) or Cancel the tender in totality. KMC or ICLEI South Asia shall not be liable for any loss to the successful Tenderer as a result of such action of KMC or ICLEI South Asia.
Section 20: 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 sixty (60) days of the dispute or claim arising, the decision of ICLEI South Asia would be considered binding. In case the Contractor has objections to the decision of ICLEI South Asia, the dispute would be decided by a panel of three (3) external Arbitrators chosen mutually by ICLEI South Asia and the Contractor. The parties agree that the decision of the majority of the Arbitrators so appointed shall be final and binding upon the parties.

Section 21: 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.

Section 22: Bid Validity

All bids submitted shall remain valid for a period of 45 days from the time of submission. Any bids submitted for a lesser duration can be disqualified.

Section 23: Deliverables

- Construction of composting facility including windrow facility as per specifications given in this tender document and its annexure
- Composting of approximately 400kg of wet waste per day for a period of at least 45 days during the contract duration
- Sale of compost at a price mutually decided between KMC, contractor and ICLEI South Asia
- Transferring some benefits from composting to the users/households in Kishangarh city from where waste is being collected
- Successful functioning of composting facility for a period of 3 months
- Participation in Focus Group discussions, stakeholder workshops or other project workshops, as per requirement of ICLEI South Asia
- Showcasing successful revenue generation from compost sale to meet O&M costs of the composting facility

Section 24: 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.

Section 25: Duration of Tender for bidding purposes

This tender would remain open for a duration of 15 days from the day of issue. Interests sent by the Contractors would be evaluated on the basis of Technical eligibility. Tenders qualifying in technical eligibility would be considered for financial eligibility. Lowest financial bid amongst the qualifying bids would be selected. The shortlisted Contractor(s) would be required to give a presentation to the KMC (costs of this meeting are to be borne by the Contractor). After approval of Municipality, the Contractor would be finalized.

Section 26: Notification of successful Consultant

The bid shall remain open for a total of 15 days from the day of floating the tender. Successful/shortlisted Consultant(s) would be notified latest by 21st July, 2016.
Section 27: Additional Information

- Minor changes might be made to the proposed designs based on actual implementation planning and would be discussed with the selected Contractor before finalization.
- 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 Kishangarh Municipal Council for not selecting their tender.
- Sales Tax, VAT/TIN/PAN registration number should be mentioned in the tender document and the bills/invoices raised after selection.
- Financial sustainability of the project would be the complete responsibility of the contractor and ICLEI South Asia would have no liability, financial or legal, in case of losses incurred in O&M of the composting facility.
- The Contractor would be answerable to ICLEI South Asia and representative(s) from Kishangarh Municipal Council.
- 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, other 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.
- Kishangarh Municipal Council and/or ICLEI South Asia reserves the right to (a) amend the scope and value of the contract (b) cancel contract without giving any reason.
- The Contractor shall indemnify the KMC, ICLEI South Asia and its employees against any penalties as PRINCIPAL EMPLOYER, for any failure of the Contractor to honour various State Laws / Enactments / Contract Labour (R&A) Act 1970 (C) / Minimum Wages Act / Bonus Act / EPF & MP Act 1952 etc.
- 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.
- The contractor shall be responsible for ensuring water supply for the composting facility.
- The contractor shall be responsible for ensuring that the composting facility does not lead to any pollution (of soil or surface water or groundwater or others) or spread of diseases of any kind. The contractor shall be liable to ensure hygiene at the composting facility as per standards. In case of any such instance of spread of pollution or disease due to the composting facility, the contractor shall be responsible for this. ICLEI South Asia or Kishangarh Municipal Council will take no liability for the same.
- To assist him in the examination, evaluation, and comparison of Bids, KMC may ask Bidders individually for clarification of their Bids including breakdown of unit rates/prices. The request for clarification and the response shall be in the writing, but no change in the prices or substance shall be sought, offered or permitted on Contractor’s desire except as required to confirm the correction of arithmetical errors discovered during the evaluation of Bids.
- Costs for preparation and submission of the tender are to be borne solely by the contractor. No reimbursement shall be made for this purpose by ICLEI South Asia or KMC.
- ICLEI South Asia might enter into negotiations on the financial bid with the shortlisted Contractor(s).
- The Contractor and/or any staff or subcontractor associated with the Contractor can be liable to audit or check by staff from European Commission and Contractor and all such staff or subcontractors shall cooperate in case of such audits or site visits by European Commission.
- Contractors can request for prebid conference call or site visit to door to door collection wards (at own cost) before submitting the tender.
- In case of any violation of the prevailing laws, acts, rules or the court decisions by the Contractor, the Contractor shall be liable to face the consequences at his/her own risk & cost. KMC and ICLEI South Asia shall have no liability in this case.
- Conditional tenders would not be accepted.

Section 28: Contact person

Ms. Meesha Tandon, Programme Coordinator: Water, ICLEI South Asia, Email: meesha.tandon@iclei.org
Address: ICLEI South Asia, NSIC Complex, Okhla Industrial Estate, New Delhi 110020
Tel: 91 11 4106 7220, Fax: 91 11 4106 7221
Annex I: Key specifications for composting facility

a. **Summary**

OVERALL COST OF THE PROJECT FOR 14 DAYS WINDROW COMPOSTING FOLLOWED BY 30 DAYS VERMICOMPOSTING

<table>
<thead>
<tr>
<th>Sno</th>
<th>Description</th>
<th>Cost</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>Windrows</td>
<td></td>
</tr>
<tr>
<td>2</td>
<td>Vermi compost pits</td>
<td></td>
</tr>
<tr>
<td>3</td>
<td>Shed for Vermi compost</td>
<td></td>
</tr>
<tr>
<td></td>
<td>TOTAL</td>
<td></td>
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</table>

b. **Windrow plant**

<table>
<thead>
<tr>
<th>Description</th>
<th>Unit</th>
<th>No</th>
<th>L</th>
<th>W</th>
<th>D</th>
<th>Quantity</th>
<th>Rate</th>
<th>Amount</th>
</tr>
</thead>
<tbody>
<tr>
<td>KSRRB M1200-4.1. i) PCC design mix M15 with OPC cement @ 240kgs, with 40mm and down size graded granite metal coarse aggregates @0.63 cum and fine aggregates @ 0.42cum</td>
<td>Cum</td>
<td>-</td>
<td>-</td>
<td>-</td>
<td>-</td>
<td>-</td>
<td>-</td>
<td>-</td>
</tr>
<tr>
<td>P.No : 195, I.No : 26.5.4</td>
<td>Cum</td>
<td>-</td>
<td>-</td>
<td>-</td>
<td>-</td>
<td>-</td>
<td>-</td>
<td>-</td>
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<tr>
<td>WINDROW platform</td>
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<td>15.30</td>
<td>3.80</td>
<td>0.08</td>
<td>4.36</td>
<td>4.36</td>
<td>4.36</td>
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</tr>
<tr>
<td>TOTAL</td>
<td></td>
<td></td>
<td></td>
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<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>GRAND TOTAL</td>
<td></td>
<td></td>
<td></td>
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<td></td>
</tr>
</tbody>
</table>

c. **Composting Tanks**

<table>
<thead>
<tr>
<th>Description</th>
<th>Unit</th>
<th>Number</th>
<th>L</th>
<th>W</th>
<th>D</th>
<th>Quantity</th>
<th>Rate</th>
<th>Total</th>
</tr>
</thead>
<tbody>
<tr>
<td>1 KSRRB M1200-4.1. i) PCC design mix M15 with OPC cement @ 240kgs, with 40mm and down size graded granite metal coarse aggregates @0.63 cum and fine aggregates @ 0.42cum</td>
<td>Cum</td>
<td>195, 26.5.4</td>
<td>12.20</td>
<td>2.30</td>
<td>0.10</td>
<td>8.42</td>
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<tr>
<td>VC FLOOR</td>
<td>3</td>
<td>12.20</td>
<td>2.30</td>
<td>0.10</td>
<td>8.42</td>
<td>8.42</td>
<td></td>
<td></td>
</tr>
<tr>
<td>2 KSRRB 5-14 : Providing and constructing precast concrete solid blocks with compressive strength not less than 3.5 Newton per sqmm with cement mortar 1:4 masonry (quoin, Jamb, closer blocks ) with solid concrete blocks of size 40x20x20cms conforming to I.S: 2185/1965 in superstructure including cost of materials, labour charges, scaffolding, curing complete as per specifications.</td>
<td>Sqm</td>
<td>3</td>
<td>26.20</td>
<td>0.80</td>
<td>65.68</td>
<td>65.68</td>
<td></td>
<td></td>
</tr>
<tr>
<td>WALLS</td>
<td>3</td>
<td>26.20</td>
<td>0.80</td>
<td>65.68</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>3 KSRRB 5-14: Providing and constructing non-load bearing wall with cement concrete solid blocks with compressive strength not less than 3.5 Newton per Sq. mm with cement</td>
<td>Sqm</td>
<td>3</td>
<td>26.20</td>
<td>0.80</td>
<td>65.68</td>
<td>65.68</td>
<td></td>
<td></td>
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</tbody>
</table>
mortar 1:4 (Jamb, closer blocks) with blocks of size 40X10X20 cms (lxbxh) conforming to IS: 2185/1965 in superstructure including cost of materials, labor charges, scaffolding, curing complete as per specifications

P.No : 25, I.No : 5.28

WATER SEAL

| Sqm | 3 | 28.20 | 0.10 | 8.46 |

4 KSRB15-3.10 : Providing 20mm thick cement plaster in single coat with cement mortar 1:3, to stone masonry & concrete surface including rounding off corners wherever required smooth rendering, scaffolding, including cost of materials, labour, curing complete as per specifications.

P.No : 113, I.No : 15.18

COMPOST

| Sqm | 3 | 26.20 | 1.80 | 141.48 |
| 100mm WALLS | 3 | 28.20 | 0.60 | 60.12 |

TOTAL

GRAND TOTAL including taxes

d. Composting shed

<table>
<thead>
<tr>
<th>Sl.No</th>
<th>Description</th>
<th>Unit</th>
<th>No</th>
<th>L</th>
<th>W</th>
<th>D</th>
<th>Quantity</th>
<th>Rate</th>
<th>Amount</th>
</tr>
</thead>
<tbody>
<tr>
<td>1.1.</td>
<td>Earth work in excavation for foundation of structures such as culverts, bridges etc., as per drawing and technical specification, including setting out, construction of shoring and bracing, removal of stumps and other deleterious matter, dressing of sides and bottom, backfilling with approved material complete as per specifications. I. Ordinary soil - A Manual Means (i) Depth upto 3 m. MORTH Specification No. 304</td>
<td>Cum</td>
<td>10</td>
<td>0.80</td>
<td>0.80</td>
<td>0.60</td>
<td>3.84</td>
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<tr>
<td>2.</td>
<td>Filling the foundations with approved material complete as per specifications.</td>
<td>Cum</td>
<td>1</td>
<td>16.30</td>
<td>9.10</td>
<td>0.30</td>
<td>44.50</td>
<td></td>
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</tr>
<tr>
<td>3.1.</td>
<td>PCC design mix M15 with OPC cement @ 240kgs, with 40mm and down size graded granite metal coarse aggregates @0.63 cum and fine aggregates @ 0.42cum</td>
<td>Cum</td>
<td>10</td>
<td>0.80</td>
<td>0.80</td>
<td>0.10</td>
<td>0.64</td>
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<tr>
<td>3.2.</td>
<td>Providing and constructing granite / trap / basalt rubble stone masonry in foundation with cement mortar 1:8 (uncoursed), bond stones at two m. apart in each course including cost of materials, labour, curing complete as per specifications. KBS 5.1.12</td>
<td>Cum</td>
<td>1</td>
<td>44.20</td>
<td>0.40</td>
<td>0.10</td>
<td>1.77</td>
<td></td>
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</tbody>
</table>
Providing and constructing burnt brick masonry for basement and superstructure with approved quality of non-modular bricks of standard size of class designation 3.5 Newton per sqmm with cement mortar 1:8 including cost of materials, labour charges, scaffolding, curing complete as per specifications.

Specification No. KBS 6.2

<table>
<thead>
<tr>
<th>Description</th>
<th>Cum</th>
<th>10</th>
<th>0.60</th>
<th>0.6</th>
<th>0.3</th>
<th>1.08</th>
</tr>
</thead>
<tbody>
<tr>
<td>SSM1</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>SSM2</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

Providing and laying to required line and slope roofing with Fibre Reinforced Plastic (FRP) sheet 5mm thick fixed with galvanized iron J or L hooks, bolts and nuts 8mm dia C1 plain and bitumen washers over the existing purlins, rafters and trusses including cost of materials, labour, complete as per specifications.

<table>
<thead>
<tr>
<th>Description</th>
<th>Sqm</th>
<th>2</th>
<th>6.20</th>
<th>14.20</th>
<th>176.08</th>
</tr>
</thead>
<tbody>
<tr>
<td>SHED ROOF</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Description</th>
<th>Kgs</th>
<th>1</th>
<th>88.04</th>
<th>4.00</th>
<th>352.16</th>
</tr>
</thead>
<tbody>
<tr>
<td>SHED ROOF</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

### Purchase of items

<table>
<thead>
<tr>
<th>Item</th>
<th>Cost</th>
</tr>
</thead>
<tbody>
<tr>
<td>1 Shedder for breaking down waste</td>
<td></td>
</tr>
<tr>
<td>1 Sieve for compost</td>
<td></td>
</tr>
<tr>
<td>6 Compost beds to provide for additional composting space</td>
<td></td>
</tr>
<tr>
<td>Dresses for waste collection staff</td>
<td></td>
</tr>
<tr>
<td>Saree bags, Dustbins with garbage bags to be distributed at the household level (total 600 to 700)</td>
<td></td>
</tr>
<tr>
<td>Large Dustbins for storage or waste, as required</td>
<td></td>
</tr>
<tr>
<td>2 Cycle rickshaws for waste collection in narrow lanes of the wards</td>
<td></td>
</tr>
<tr>
<td>Weighing machine for weighing of waste</td>
<td></td>
</tr>
<tr>
<td>Any additional requirements that might arise/miscellaneous</td>
<td></td>
</tr>
<tr>
<td><strong>Total</strong></td>
<td></td>
</tr>
</tbody>
</table>
Composting shed

Plan
## Annexure III: Financial Model for O&M of composting facility

<table>
<thead>
<tr>
<th>Description</th>
<th>Value</th>
<th>Unit</th>
</tr>
</thead>
<tbody>
<tr>
<td>Tonnage handled per day</td>
<td>0.5</td>
<td>Tonnes</td>
</tr>
<tr>
<td>Tonnage handled per year</td>
<td>182.5</td>
<td>Tonnes</td>
</tr>
<tr>
<td>Transport cost per week</td>
<td>1000</td>
<td>rupees</td>
</tr>
<tr>
<td>Transport cost per year</td>
<td>52000</td>
<td>rupees</td>
</tr>
<tr>
<td>Workers cost per year(one part time worker)</td>
<td>36372</td>
<td>rupees</td>
</tr>
<tr>
<td>Cost of water per year</td>
<td>10000</td>
<td>rupees</td>
</tr>
<tr>
<td><strong>Total costs incurred per year</strong></td>
<td><strong>98372</strong></td>
<td>rupees</td>
</tr>
</tbody>
</table>

### Revenue Generation:
- Total quantity of compost produced per year: 54.75 Tonnes
- Income generated @2000 rupees/T: 109500 rupees
- **NET INCOME per year**: 11128 rupees

<table>
<thead>
<tr>
<th>VGF Model</th>
<th>Time period</th>
<th>VGF (INR)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Plant construction start up funding</td>
<td>0 to 45 days</td>
<td>15000</td>
</tr>
<tr>
<td>First lot of vermi composting</td>
<td>45 to 90 days</td>
<td>15000</td>
</tr>
<tr>
<td>First lot of vermi compost for sale</td>
<td>Equipment and manpower</td>
<td>15000</td>
</tr>
</tbody>
</table>
Annexure IV: Tender Submission Form (To be provided on INR 100 Stamp Paper)

To
Executive Director
ICLEI South Asia
NSIC Complex, Okhla Industrial Estate
New Delhi 110020

I/We have read and examined the following documents relating to……………………………………………………………………(Name of the Work) including the main bid document and Annexure 1, 2 and 3.

I/We hereby tender for execution of the work 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.

In consideration of I/We bidding for the tender, I/We agree to keep the tender open for acceptance for 90 days from the due date of submission thereof and not to make any modifications in its terms and conditions which are not acceptable to ICLEI South Asia.

A sum of Rs. ______ will be deposited as Earnest Money Deposit in the form of Demand Draft in favour of ICLEI South Asia, payable at New Delhi at the time of signing of contract with ICLEI South Asia.

If I/We fail to keep the tender open as aforesaid or make any modifications in the terms and conditions of the tender which are not acceptable to 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 tender be accepted, I /We agree to abide by & fulfil all the terms conditions of aforesaid document and the annexure documents.

If after the tender 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 of contractor………………………
Organization_____________
Date____________
Witness _____________