

**EXPRESSION OF INTEREST
for**

**Upgradation, Engineering Procurement & Construction (EPC) and
Operation & Maintenance of existing Solid Waste Processing plant to
“Waste to Energy” at Bhariyal, Tara Devi Totu bye-pass Road,
Shimla on SWISS CHALLENGE MODEL.**

Municipal Corporation Shimla has set up a Solid Waste Processing Plant at Bhariyal which is non-functional presently. A proposal has been received from M/s Organic Waste Recycling Pvt Limited (ORS), Mumbai for Refurbishment, Upgradation of the existing plant for power generation with thermophilic high solid anaerobic digestion technology and its further O&M. The cost on the required machinery/equipments as mentioned in TOR for upgradation and repairs shall be borne by Municipal Corporation Shimla.

Based on the proposal submitted by M/s ORS, Municipal Corporation Shimla intends to invite Expression of Interest on SWISS CHALLENGE MODEL from the interested Companies/NGOs/Voluntary Groups/ Joint Ventures/ Other parties for the upgradation, EPC, and Operation & Maintenance (O&M) of the existing 100 MT/Day capacity Solid Waste Processing Plant installed at Bhariyal, Tara Devi-Totu Bypass road, Shimla initially for the period of three years which may be extended further on mutually agreeable terms on satisfactorily performance.

Site Information:

The existing plant is at Bhariyal on Tara Devi - Totu Bye Pass road. This site is located at a distance of about 13 KM. from ISBT.

Minimum Eligibility Criteria:

The EOI should be supported by the details of the applicant as follows:-

1. Brief profile of the bidder including qualifications & experience.
2. A Net Worth of minimum Rs. 25.00 Cr duly certified by Chartered Accountant.
3. The company should have executed atleast one project of MSW processing

in India with minimum plant capacity 100 TPD each within the last 5 years and the same should be in operation at least for a period of two years as per Municipal Solid Waste (Management & Handling) Rules, 2000.

SCOPE OF WORK:

1. Revamping of the existing solid waste processing plant to make it operational and upgradation for power generation with Thermophilic High Solid Anaerobic Digestion Technology.
2. Operation & Maintenance of revamped and upgraded 100 MT/Day capacity Municipal Solid Waste Processing plant as per MSW Rules, 2000 for minimum of three years.
3. Segregation of recyclable materials and RDF and also its marketing.
4. Scientific disposal of all the inert up to maximum of 20% of the MSW received shall be disposed to landfill through MC Shimla. The inert shall be made available at single place for Municipal Corporation Shimla to lift.

Anaerobic Digestion

1. Design, Engineering, Procurement, Supply, Commissioning, Testing, Trial of dry, thermophilic, high solid anaerobic digestion system.
2. The compost production should be as per FCO Standards.
3. All the recurring costs like water & electricity bills, use of chemicals, inoculum and sanitizer; salaries of staff deployed, etc. will be borne by successful bidder from the date of commencement of the operations of the plant after successful upgradation and commissioning of plant.

Note: The details can be obtained from Term of Reference (TOR) which can be downloaded from MC Shimla website www.shimlamc.gov.in.

SUBMISSION OF EOI

1. Bidders who want to form consortium / joint ventures, the bid should clearly state the Lead Partner/Agency.
2. Municipal Corporation Shimla will consider bid only from those bidders who deposit Earnest Money Deposit (EMD) of Rs. 5.0 Lac in the form of crossed Demand Draft in favour of Commissioner, Municipal Corporation, Shimla and a

non-refundable Demand Draft of Rs 5000/- (Rupees Five Thousand) only as processing fee in favour of Commissioner, Municipal Corporation Shimla, payable at Shimla.

3. The bid must have two separate envelopes, one for Technical Bid, Earnest Money Deposit & Processing fee and second for Financial Bid .

4. Interested bidders may submit their bid in the office of Commissioner, Municipal Corporation Shimla on or before 2.30 PM on 9th November, 2015. The Technical bids will be opened on the same day i.e. 9th November, 2015 at 3.30 PM. by the Tender Opening & Evaluation Committee in the presence of the representatives of the bidders, who may like to be present.

5. Commissioner, Municipal Corporation Shimla reserves the right to accept or reject any or all the bids without any liability or assigning any reason thereof.

Commissioner,
Municipal Corporation, Shimla.

TERMS OF REFERENCE

for

Upgradation, Engineering Procurement & Construction (EPC) and Operation & Maintenance of existing Solid Waste Processing plant to “Waste to Energy” at Bhariyal, Tara Devi Totu bye-pass Road, Shimla on SWISS CHALLENGE MODEL.

Municipal Corporation Shimla has set up a Solid Waste Processing Plant at Bhariyal which is non-functional presently. A proposal has been received from M/s Organic Waste Recycling Pvt Limited (ORS), Mumbai for Refurbishment, Upgradation of the existing plant for power generation with thermophilic high solid anaerobic digestion technology and its further O&M. The cost on the required machinery/equipments as mentioned in TOR for upgradation and repairs shall be borne by Municipal Corporation Shimla..

Based on the proposal submitted by M/s ORS, Municipal Corporation Shimla intends to invite Expression of Interest on SWISS CHALLENGE MODEL from the interested Companies/NGOs/Voluntary Groups/ Joint Ventures/ Other parties for the upgradation, EPC, and Operation & Maintenance (O&M) of the existing 100 MT/Day capacity Solid Waste Processing Plant installed at Bhariyal, Tara Devi-Totu Bypass road, Shimla initially for the period of three years which may be extended further on mutually agreeable terms on satisfactorily performance.

SCOPE OF WORK:

1. Revamping of the existing solid waste processing plant to make it operational and upgradation for power generation with Thermophilic High Solid Anaerobic Digestion Technology.
2. Operation & Maintenance of revamped and upgraded 100 MT/Day capacity Municipal Solid Waste Processing plant as per MSW Rules, 2000 for minimum of three years.
3. Segregation of recyclable materials and RDF and also its marketing.
4. Scientific disposal of all the inert up to maximum of 20% of the MSW received shall be disposed to landfill through MC Shimla. The inert shall be made available at single place for Municipal Corporation Shimla to lift.

Anaerobic Digestion

1. Design, Engineering, Procurement, Supply, Commissioning, Testing, Trial of dry, thermophilic, high solid anaerobic digestion system.

2. The compost production should be as per FCO Standards.
3. All the recurring costs like water & electricity bills, use of chemicals, inoculums and sanitizer; salaries of staff deployed, etc. will be borne by successful bidder from the date of commencement of the operations of the plant after successful upgradation and commissioning of plant.

PRE-QUALIFICATION

1. The company should be in incorporation for minimum 5 years and doing business in SWM sector during this period.
2. Must have successfully executed during past 5 years and/or is currently executing satisfactorily for more than one year, minimum 2 contracts relevant to processing of unsegregated Municipal Solid Waste in any Municipal authority.
3. The company should have executed at least one project of MSW processing in India with minimum plant capacity 100 TPD each within the past 5 years and the same should be in operation at least for a period of 2 years.
4. The company should have experience in operating at least one MSW facility successfully for a minimum period of 2 years as per the technology proposed for this project, proving that the desired products derived from the MSW processing plants are being produced successfully (Necessary relevant certificates / documents such as grid connectivity and certificate from DISCOM in case of waste to energy and Fertilizer Control Order license in case of waste to compost from concerned authority should be attached), in order to confirm the viability and long- term sustainability of the project. Technology proposed by the bidder / developer should be approved and authorized as per the MSW (H&M) 2000 Rules.
5. Preference would be given to dry, thermophilic, high solid anaerobic digestion.
6. A Net Worth of Rs. 25 Crores shall be considered
7. The bidder should have visited the plant site personally or through representative so as to be acquainted with the functioning of the plant on “**as it, where is basis**” and prepare methodology accordingly. This methodology will be submitted with the Technical Bid.
8. The bidder should not be black listed / penalized by any government authority. A declaration in this regards to be submitted

CONTENTS OF THE TECHNICAL BID

1. Suggested modification with proposed scheme, layout of the plant, additional equipments / components with basic specifications and technicalities, as per

list attached.

2. Details of the methodology to be adopted for the scientific operation of the plant as per Municipal Solid Waste (Handling & Management) Rules, 2000
3. Details of the experience of executing such projects of similar nature.
4. Details of personnel/man power for operating the plant.

CONTENTS OF FINANCIAL BID

1. The financial bid shall be in terms of amount of money to be charged for upgradation and EPC of the plant with details of repairs and machineries to be installed to make the plant operation into waste to energy as per the proposed technology. The amount to be incurred on equipment/Machinery shall be borne by MC Shimla.
2. The amount of Operation & Maintenance fee per MT to be charged from Municipal Corporation Shimla for the operation and maintenance of the Solid Waste Processing plant.

Note: The 1st refusal of right shall be given to M/s Organic Recycling Systems Pvt Limited.

SUBMISSION OF EXPRESSION OF INTEREST (EoI)

Bids must be submitted in three sealed envelopes clearly superscribed as under:-

1st: Earnest Money Deposit & Processing Fee (EMD & PF)

Earnest Money Deposit of Rs 5.0 Lac in the form of crossed Demand Draft/FDR in favour of Commissioner, Municipal Corporation, Shimla.

Similarly an amount of Rs. 5,000/- (Rs. Five Thousands) only/- in the form of crossed Demand Draft in favour of Commissioner, Municipal Corporation, Shimla should also be enclosed for non-refundable Processing Fee.

Earnest Money Deposit of successful bidder shall be converted into security amount and the Earnest Money deposited by rest of the unsuccessful bidders shall be returned back and the bidders shall have no right to claim interest on this. The Processing Fee being non-refundable shall not be refunded to any bidder.

2nd: Technical Bid only.

3rd: Financial Bid only.

Bid must reach in the office of undersigned latest by 09/11/2015 by 2.30 PM. Technical bids will be opened on same day at 3.30 PM. by the Committee constituted for the purpose in the presence of the authorized representatives of the bidders, who may like to be present. Envelop having Earnest Money Deposit & Processing Fee will be opened first. Technical bids will be opened only in cases where the earnest money and processing fee is received. The bids of the parties will be rejected straightway whose earnest money deposit and processing fee is not found in proper shape. Financial bids of those bidders will be opened who successfully fulfill the above mentioned Technical contents and date will be intimated later on.

Commissioner, Municipal Corporation Shimla reserves the right to reject any or all the bids without assigning any reason and no claim/dispute on whatsoever account shall be entertained.

Sd/
Commissioner,
Municipal Corporation, Shimla.

PROPOSED MECHANICAL WORKS AT MSW TO ENERGY PROJECT AT MUNICIPAL CORPORATION, SHIMLA					
Sr. No.	Equipment	MOC Contact part	Capacity / Size	Qty.	
A Revamping & making existing plant operational					
1	Shredder	MS	1.7 TPH (40 mm - 10 mm)	1	
2	Trommel (Modification 100 mm to 50 mm)			1	
3	Bucket elevator		2.7 m ³ /h	1	
4	Modifications of all existing equipments (conveyors, EOT, screens & others) & making them operational			As per requirement	
5	RDF unit		1.5 ton/hr	1	
B Upgradation for power generation using Thermophilic High solids Anaerobic Digestion					
1	Buffer Tank	MSEP	8.9 m ³	1	
2	Screw conveyer		2.7 m ³ /h	1	
3	Blending Tank with agitator	MSEP	2.7 m ³	1	
4	Feed Pump (Peristatic)		6.4 m ³ /h @ 10 Kg/cm ²	1	
5	Digester tank container (PREFABRICATED)	GRP	12 x 2.35 x 4.5 m Ht	5	
6	Agitator (Retrivable)	SS 304	Suitable for above digester - (2 per digester)	10	
7	Recirculation Pump (Peristatic)		3.7 m ³ /h @ 10 Kg/cm ²	5	
8	Gas ballbooth	PVC	120 m ³	5	
9	Flare	SS	165 m ³ /hr	1	
10	Pressure Release Valve	SS	165 m ³ /hr	6	
11	Flame arrestor	CI	165 m ³ /hr	6	
12	Dewatering Unit (Screw press)		3.8 m ³ /hr, 3.5 TPH	1	
13	Heating arrangement for digester		Heater + tank (2000 litres) + pipe within digester	1 Lot	
14	Piping & allied works			1 lot	
15	Scrubber		120 m ³ /hr	1	
16	Engine		225 KWH	1	