



Rajkot Municipal Corporation

Solid Waste Management

Dr. Ambedkar Bhavan, Dhebar Road, Rajkot.



Request for Proposal

for

Design, Built, Own, Operate & Maintain the Construction & Demolition (C&D) waste management system for treatment of Construction & Demolition (C&D) waste in Rajkot On Public private partnership Basis for a period of 20 Years

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Issue Date:- 30 / 09 / 2021

RAJKOT MUNICIPAL CORPORATION

SOLID WASTE MANAGEMENT

Notice no. REQUEST FOR PROPOSAL No. RMC/SWM (WOW Cell)/2021-22/01

Request for proposal for Design, Built, Own, Operate & Maintain the Construction & Demolition (C&D) waste management system for treatment of Construction & Demolition (C&D) waste in Rajkot On Public private partnership Basis for a period of 20 Years

The MSW RULES 2016 clearly indicates the need for proper construction & Demolition, collection and its disposal. It has been recognized to promote the setting up of processing plant for construction & Demolition waste in Rajkot city in a public private partnership mode agency has to undertake planning and development, mobilization of financial resources and construction, operation & maintenance of the plant. The RAJKOT MUNICIPAL CORPORATION would provide only land on token rent.

Request for Proposal (RFP) is sought from reputed firms, companies, NGOs and associations, individually or in a consortium, who are interested in developing any or all of the following project constituents, individually or in an integrated manner for Construction & demolition waste treatment.

For each the constituent above, interested parties while submitting their RFP shall provide details pertaining to relevant work experience; available infrastructure their financial position as reflected in their balance sheets, their tentative action plan for being a part of this project. A brief project profile along with funding arrangement may also be indicated. Proposal shall be incorporated with method of treatment including work plan, process description and requirement. Parties bidding as a part of a consortium may not bid individually. Integration of informal sector for the constituents above may be clearly indicated and will form an input in decision making.

The date and address for submitting the proposal in sealed cover with clearly indicating name of work on cover by RPAD/SPEED POST are as below:

Last date: 16 / 10 /2021

Rajkot municipal corporation, Deputy Executive engineer, WOW Cell, solid waste department, Third floor, Room no.02, Dr.Ambedkar Bhavan, Dhebar road, Rajkot

Note : Proposal without EMD of Rs.25,000(Demand draft of Nationalized or Schedule Bank Only/-) and Bid Document Charge of Rs. 5000/-(Demand Draft of Nationalized or Schedule Bank) in favour of the Rajkot municipal corporation, RAJKOT will not be considered for evaluation.

Detailed request for proposal document may be download from www.rmc.gov.in

Pre bid query ; please contact before 06 / 10 /2021

Deputy Executive engineer,WOW Cell, solid waste department, Third floor, Room no.02,Dr.Ambedkar Bhavan, Dhebar road, rajkot

Email: wowcell@rmc.gov.in

Notice No.. REQUEST FOR PROPOSAL No. RMC/SWM (WOW Cell)/2021-22/01

Design, Built, Own, Operate & Maintain the Construction & Demolition (C&D) waste management system for treatment of Construction & Demolition (C&D) waste in Rajkot On Public private partnership Basis for a period of 20 Years

The total quantity of C&D waste has increase over the period of time .new developments are coming around the city and many old buildings are been demolished at the same time. The quantity of waste generation will increase and thus need has arise of construction and recycling waste plant for producing value added building products. Construction and demolition waste is constitutes 10-15% of total waste collection from Rajkot city. The issue to indiscriminate dumping of construction debris on streets should be solved. Such waste in most of the cases is indiscriminately disposed off on the streets causing hindrance in traffic and obstruction in city cleaning process. The main modes of transporting of C & D waste are through tractors and dumpers and other modes in compact parts of the city include hand-cart, wheel barrows and donkeys (inside of walled city area where vehicular movement is not possible). RMC has its own vehicles and hire private contractors for removal of such waste through skip lifters, jcb, tractors etc. However this system is not working efficiently and the wastes end up on the street.SMC had started an initiative to collect and dispose of C & D waste separately, and trying to ensure that the same is not mixed with the municipal solid waste. Lack of C&D waste segregation, collection and processing systems has led to dumping of majority of the waste without segregation at open spaces or in low lying areas. Due to this materials which can be reused/processed is also dumped into the sites and thus recycling of waste is difficult. in most of the cases the sites allocated by RMC for disposal at project/household level are few and far resulting in non-authorized dumping of C&D waste along road side or in low lying areas.RMC has been undertaking many initiatives and following quality collection system and processes, effective segregated collection and processing of C&D waste, so as to explore we its strong potential for recovery, is still not in place.

This project aims to take care of the present construction and demolition waste of RMC and process the same in a scientific way so as to develop various building products out of it. The plant will have a specialized segregation system, debris handling system, crusher and other required units including a multiple section screening unit. The processed plant will then be used as a raw material for producing wide range of eco and green building materials like brick, paver blocks, etc. the whole system right from waste receiving to final finished eco-product would use state of the art technology and will have no adverse impact on environment .the recycling of construction and demolition waste will help reduce mining for aggregates(like sand and blue metal) and also save the valuable land which is otherwise wasted by mere dumping of waste. RMC is in the process of setting up various waste processing units for the municipal solid waste generated in its jurisdiction/as a part of the same, RMC is also considering for setting up a C&D processing plant.

C&D Waste characterization

The major components of C&D waste include cement concrete, cement mortar, bricks, steel, rubble, stone, sand and soli. The minor components include conduits (iron, plastic), pipes, electrical fixtures, panels and other material like glazed tiles, glass and timber/wood etc. these Components are also sub-divided into further stage as reusable materials and waste materials. C&D waste is not segregated at source or collection points and hence probability of getting mixed with other kinds of solid waste. Following components can be found from waste. Concrete, bricks/brick bats, stone & stone chips (also known as metal used in road), tiles waste fine materials, (power form of concrete, brickwork, plaster etc.) cotton waste, plastic etc.

The key details of the project may broadly be summarized as under:

- Type of Waste : Construction and Demolition (C & D) waste
- Waste Quantity under the EOI: 18250 per Year
- Site Location: At Village Nakarawadi, survey no.222/P ,landfill site.
- Land Provision: 1.5 acres Land will be allotted at a lease rent of rs. 1/sq. mtr./ year. .

Submission Details:

- 1) Last Date of Submission: Up to 16/10/2021 upto. 18:00 hrs IST.
- 2) Mode of Submission: Through RPAD/Speed Post only. Hand Delivery in person not permitted.
Offer to be submitted to: Deputy Executive Engineer, WOW Cell, solid waste department, Third floor, Room no.02, Dr.Ambedkar Bhavan, Dhebar road, Rajkot, Gujarat, India.
- 3) Pre-bid meeting: On date: 06/10/2021, Deputy Executive Engineer, WOW Cell, solid waste department, Third floor, Room no.02, Dr.Ambedkar Bhavan, Dhebar road, Rajkot, Gujarat, India at 17:00 hrs. IST. All queries in the regards shall be mailed to wowcell@rmc.gov.in,

Offer and role/obligation/scope of the private partner shall include but not limited to:

- 1) Agency will invest 100% of capital cost of the Project.
- 2) To provide appropriate technology for least rejected (C & D) Waste as suitable to the waste characteristic.
- 3) To set up necessary infrastructure including plant, building, machinery for Crushing & Screening and computerized Weigh Bridge of 50 tons capacity. The plant with all other necessary utilities likes internal road, lighting facility, compound wall etc..
- 4) The finished/ final products/Raw material from C&D waste plant will be owned by agency and as per C&D rules 2016, procurement of materials/ finished products/Raw material made from C&D waste shall be made mandatory to a certain percentage use in RMC contracts subjects to strict quality control and agency can take its rates as per latest schedules of rates (SOR) of RMC.
- 5) Agency shall lift the committed rejects/inert quantity from the waste processing facility and disposed at RMC landfill site.
- 6) Set a call centre for daily 8 AM to 8 PM all 365 days for registering a request for treatment of C&D waste.
- 7) To obtain necessary clearances/permissions from statute authorities.
- 8) To ensure that the technology suggested/offered follows all applicable standards as per prevalent Indian Laws. The technology should also be suitable to adapt/ upgrade any changes made in the laws/ policies from time to time.
- 9) To operate and maintain the processing for the entire concession period as per agreed terms and conditions.
- 10) The technical offer shall well include the technical details so as to derive the suitability and sustainability of the same. The technical details shall also include the final percentage (%) rejects to the total incoming waste at the end of processing cycle.
- 11) The offer shall also include the performance data of the plants operational by the same private partner at other locations.
- 12) Justification of suitability of the technology/ technology advantage.
- 13) Documents of company profile.

- 14) Documents of Proprietorship/Partnership deed/J.V. deed/ whichever applicable.
- 15) C.A. certified turnover certificate for last three financial years.

Rajkot Municipal Corporation's Role/Obligations:

- 1) 1.5 acres Land will be allotted at a lease rent of rs. 1/sq. mtr./year.
- 2) RMC will provide collected C&D waste up to the plant site.
- 3) RMC shall provide treated sewage water free of cost from sewage treatment plant. If agency will demand for normal water, RMC will provide water with prescribed charges. However agency will have to make arrangement for transportation with their own cost.
- 4) RMC shall if required, provide with introduction letter/recommendation letter so as to obtain any licenses, approvals, permissions, grant, subsidy etc. However, RMC doesn't own any responsibility towards the same.

Rajkot Municipal Corporation's role/obligation however shall be indicative and shall bear no responsibility towards the outcome of the offer.

Concession Period:

The Concession Period for the said processing facility shall be for **20** years.

Pre-Qualification/ Eligibility Criteria:

(A) Technical Qualification Criteria

The bidder should have at least one such operational C&D waste plant/Crusher plant of capacity not less than 50 TPD. The C&D waste processing facility/Crusher plant Facility should be operational for a period of not less than 1 year in India.

(B) Financial Qualification Criteria

The bidder/J.V. consortium bidding for the EOI/Tender should have an average annual turnover of 50 Lacs for last three financial years.

Joint Venture/ Consortium:

Joint Venture/ Consortium is allowed. However, the maximum number of permissible members to form a joint venture/ consortium shall be two (2).

Construction Period:

The project period shall be 06 months from the date of agreement. The project period shall include study, survey, analysis, detail design, mobilization, procurement, construction, installation, testing-commissioning, obtainment of necessary approvals from statute authorities and other required facilities, services, amenities etc. The private partner shall be responsible to operate and maintain the plant for the entire concession period as per the terms and conditions of the agreement.

Security Deposit against installation of plant:

The successful private partner shall provide with a bank guarantee worth INR 10.00 lakhs issued in favour of Rajkot Municipal Corporation for a period of 18 months from the date of agreement. The period shall include 12 months satisfactory operation period from the date of commercial commissioning. If the operation of the plant is not found satisfactory, RMC reserves the right to forfeit/encase/liquidate the bank guarantee.

Security Deposit against performance for operation and maintenance of plant:

The successful private partner shall also provide with a sum of INR 10.00 lakhs in the form of Fixed Deposit Receipt of any local Nationalized Bank in favour of Rajkot Municipal Corporation. The security deposit shall be retained for the entire concession period and shall be released only after the concession period.

Earnest Money Deposit:

An amount of INR 25,000/- in form of Demand Draft payable at Rajkot of any Nationalized Bank shall in favour of Rajkot Municipal Corporation shall also be provided as Earnest Money Deposit along with the offer.

Bid Document Charge (non refundable) : An amount of INR 5,000/- in form of Demand Draft payable at Rajkot of any Nationalized or Scheduled Bank shall in favour of Rajkot Municipal Corporation shall also be provided as Earnest Money Deposit along with the offer.

Bid Evaluation Process:

The bids received shall be evaluated for two stages:

- 1) Technical Proposal
- 2) Financial Proposal

Financial offers of only those bidders shall be opened whose technical offer are to the satisfaction of Rajkot Municipal Corporation. The final outcome of the financial offer shall be based on the tipping fees/ royalty/ no cost offered as the case may be.

Submission of Offer :

The offer shall be send in the manner as mentioned below :

Cover 1: (To be clearly super scribed as “Technical Proposal” on the cover)

1. EMD and BID DOCUMENT CHARGE
2. Technical proposal
3. Any other relevant data/ details as may be necessary so as to support the proposal but should not contain in any direct/ indirect manner any financial structuring

Cover 2: (To be clearly super scribed as “ Financial Proposal “ on the cover)

- 1) Financial proposal

Cover 3: (To be clearly super scribed as “ Main Cover” on the cover)

Cover no. 1 and cover no.2 shall be placed in cover no. 3 and appropriately sealed and send.

All three covers shall be sealed and super scribed with the name of work as “Expression of Interest for Setting up of Waste Processing Facility for Rajkot Municipal Corporation”.

**Deputy Municipal Commissioner
Rajkot Municipal Corporation**

PRICE - BID

I /We hereby undertake Rate for processing of per metric ton of Construction & Demolition waste as per the conditions of EOI and agreement as under:

| Sr. No. | Description | Rate/MT | Model |
|---------|--|---|--|
| 1. | Rate for processing of C & D waste per metric ton as per the conditions of EOI | 1) Royalty given to RMC Rs.(Per M.T.) (In Word)..... OR 2) No cost basis OR 3) Tipping Fee given by RMC Rs..... (Per M.T.) (In Word)..... | Bidder to mention the applicable option of the rates as tipping fees/Royalty sharing/ No cost basis |

Note:

1. Agency has to offer only one option from above three rates shown in above table.
2. In case of Tipping Fee option, there will be increment of 5% on sanctioned rates every year in incremental manner as price escalation.
3. In case of Royalty option and No cost basis option, the offer shall be considered as flat rate for full concession period.

Authorized Person : _____

Signature: _____

Contact Number : _____

Deputy Municipal Commissioner
Rajkot Municipal Corporation