CORPORATION OF THE CITY OF PANAJI
PANAJI-GOA.

REQUEST FOR PROPOSAL

PROCUREMENT DOCUMENT

Supply of Refuse Garbage Compactor
7Cu.mt. capacity

FOR

MUNICIPAL SOLID WASTE MANAGEMENT

ISSUED TO: ________________________________________________

______________________________________________
INDEX

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Notice inviting tender for Supply of Refuse Garbage Compactor for Municipal Solid Waste Management for Panaji City.

No. F.20/CCP/MSW/2012-2013/3735 Date: 13/07/2012

Sealed tenders are invited in two cover system from manufacturing companies/authorized dealers for supply of Refuse Garbage Compactor as per specifications given below:

<table>
<thead>
<tr>
<th>Sr. No.</th>
<th>Description of works</th>
<th>Period of completion (in days)</th>
<th>Earnest money (₹)</th>
<th>Application fees for request for Proposal</th>
</tr>
</thead>
<tbody>
<tr>
<td>1.</td>
<td>Supply of Refuse Garbage Compactor 7cu.m. of carrying capacity 9 tons GVW, with Universal Bin lifting arrangement, rear end loading refuse compactor of TATA 1109 LPT BS II, WD-3600mm (3nos.)</td>
<td>120</td>
<td>1,46,400.00</td>
<td>5,000.00</td>
</tr>
</tbody>
</table>

1. ISSUE OF DOCUMENT
Documents will be issued individually on requisition in writing from the intending firms or their accredited representatives on payment of the requisite application fee payable in the form of cash or Bank Draft drawn from a scheduled Bank/Nationalized Bank payable at Panaji, Goa during working hours on any working day up to
26.07.2012, also available for download on website http://www.ccpgoa.com. Payment fees of document downloaded from website can be made by draft in favour of Commissioner, Corporation of the City of Panaji, payable at Panaji, Goa in a separate envelope. Cash receipt obtained of payment in this regard should be produced for obtaining tender documents.

2. ADDRESS, DATE & TIME FOR SUBMISSION

2.1 Last date for receipt of completed and sealed Tender documents addressed to Commissioner, Corporation of the City of Panaji, Goa – 403 001 is 01.08.2012 upto 15.00 hours.

2.2 Tender Documents may be sent by registered post/speed post only through Posts & Telegraph Department, and photocopy of registration slip may be retained with the firms so that same can be produced on demand for verification, however the Corporation of the City of Panaji is not responsible for any postal delay in such cases.

2.3 Late offers or proposals/incomplete RFP/telegraphic offers through private courier services or proposals received after due date and time stipulated for submission shall not be accepted.
3. DATE & TIME FOR OPENING

Envelope – I (Earnest Money with covering letter)
Envelope – II (Technical Bid & Financial bid in separate envelope)

(i) Date & Time : Date 01/08/2012 at 04.00 p.m.
(ii) Place : In the office of the Commissioner,
            Corporation of the City of Panaji,
            Panaji, Goa.

4. Others details may be obtained from the Tender Documents

Commissioner
Corporation of the City of Panaji
SUBMISSIONER OF TENDER

The completed Tender document shall be submitted at the following address by registered post/speed post only through Posts & Telegraph Department

Commissioner,
Corporation of the City of Panaji,
Panaji, Goa.
403 001

Offers which are not signed will not be accepted. Tender copy shall be accompanied by EMD in the form of Demand draft/Pay order of nationalised bank only in favour of Commissioner, Corporation of the City of Panaji. Tenders not submitted in line with the tender clauses and without EMD in the form specified, will be rejected. The Technical bid of only those bidders will be evaluated who have remitted tender fees and submitted correct EMD.

OPENING OF TENDER

The Technical bid will be opened on 01.08.2012 at 4.00pm. Intending bidders or their authorised representatives who wish to participate in tender opening can remain present on the due date and time. Financial bids of only those bidders who are successful in the qualification Criteria and technical Evaluation will be opened at a later date. The date & time for financial bid opening shall be informed to the successful bidders.
GENERAL INSTRUCTIONS

1. The cost of bid documents i.e. tender fees will not be refunded under any circumstances.
2. EMD in the form as specified in bid document only shall be accepted.
3. The bid offer shall be valid for 120 days from the date of opening of Technical Bid.
4. Tender offers without tender fees, Earnest Money Deposit (EMD) and which do not fulfil all or any of the condition or submitted incomplete in any respect will be rejected.
5. Conditional tender shall not be accepted. Commissioner, Corporation of the City of Panaji reserves the right to accept or reject such tenders without assigning any reason thereof.
6. The bidder shall enter into an Agreement with the Corporation on Rs 100/:- Non judicial Stamp Paper.
7. Bidder shall submit necessary registration details [Articles of Association] and details like TIN, PAN number, along with tender document.

Commissioner, Corporation of the City of Panaji reserves the right to accept or reject any or all tenders without assigning any reason thereof. The tenderers are advised to read carefully the “Instructions to suppliers” and “Qualification Criteria” contained in the tender documents.

Commissioner
Corporation of the City of Panaji

Contractor’s Sign
With seal
INSTRUCTIONS TO SUPPLIERS

1.0 Commissioner, Corporation of the City of Panaji invites tenders for Supply of Refuse Garbage Compactor 7 cu.mt. capacity – 3 units, for Municipal Solid Waste Management.

2.0 The requirement of Refuse Garbage Compactor 7 cu.mt. capacity and their detailed technical specifications are set out in Appendix 1. Interested and qualified parties, based on qualification criteria set out in Appendix 2, are requested to submit information about bidder and a single financial Bid in a manner prescribed in Appendix 3 & 4.

3.0 Each Supplier shall submit only one (1) Bid in response to this Procurement Document (PD). Any Supplier who submits more than one Bid will be disqualified.

4.0 The Bid shall remain valid for a period not less than 120 days (bid validity period) from the date of opening of tender i.e. Technical bid. Commissioner, Corporation of the City of Panaji reserves the right to reject any Bid, which does not meet this requirement. In exceptional circumstances, prior to expiry of the original bid validity period, Corporation of the City of Panaji may request Bidders to extend the bid validity period for a specified additional period. Bidders not extending the bid validity period when so requested would automatically be disqualified.
5.0 **Earnest Money Deposit (EMD)**

5.1 Each Bid shall be accompanied by EMD of Rs 1,46,400/- (Rupees one lakh forty six thousand four hundred only).

5.2 The EMD shall be in the form of a Demand Draft/Pay Order in favour of The Commissioner, Corporation of the City of Panaji, on any Nationalised/Scheduled Bank only, payable at Panaji, Goa.

5.3 The EMD shall be forfeited in the following cases:

   (a) If the Supplier withdraws its Bid during the interval between the Bid Due Date and expiration of the Bid Validity Period. 

   (b) If the successful supplier fails to provide the Performance Security within the stipulated time or any extension thereof provided by CCP;

6.0 **Performance Security**

6.1 The successful bidder shall submit a Irrevocable Bank Guarantee from a nationalised bank favouring the Corporation of the city of Panaji, Panaji-Goa in the prescribed format, valued at 10% of the accepted total order value as ‘Performance Guarantee’ for a period of one year. The Corporation of the city of Panaji will release the Bank Guarantee after a period of one year only on the successful bidder’s satisfactory performance of work as per the contract.
7.0 Formats and Signing of Bid

7.1 The Supplier would provide all the information as per this bid document. Corporation of the City of Panaji would evaluate only those Bids that are received in the required format and are complete in all respect. Each Bid shall comprise the following:

(a) Details of the Supplier in the format set out in Appendix 3
(b) Technical bid in the format set out in Appendix 2 in separate envelope.
(c) Financial Bid for Supply of Refuse Garbage Compactor 7 Cu.mt. capacity in the format set out in Appendix 4 in separate envelope.
(d) Tender document fee receipt.
(e) The Bidder shall duly sign all the pages of the Tender Document.
(f) EMD in separate envelope.

7.2 The bidder shall seal the original Technical Bid and the original Financial bid in two separate envelopes, which shall be marked as “TECHNICAL BID” and “FINANCIAL BID” respectively. These two envelopes shall then be sealed in a single outer envelope and clearly marked as Envelope II. EMD shall be sealed in a single envelope and clearly marked as Envelope I. Envelope I & Envelope II shall be put in another Outer Envelope. All envelopes shall be properly sealed.

7.3 The Bid documents shall be typed or written in indelible ink and each page shall be initialled by an authorised signatory of the Bidder or any Individual, as applicable. The person(s) signing the Bid shall also initial all the alterations, omissions, additions, or any other amendments made to the Bid.
8.0 **Sealing and Marking of Bid**

8.1 The outer envelope must be super scribed with the following information:

(a) Name and Address of Supplier
(b) Name of work
(c) Tender due date and time

8.2 If the envelope is not sealed and marked as instructed above, Corporation of the City of Panaji assumes no responsibility for the misplacement or premature opening of the contents of the Bid submitted and such Bid, may, at the sole discretion of Corporation of the City of Panaji, be rejected.

8.3 The envelope shall be addressed to:

Commissioner,
Corporation of the City of Panaji,
Panaji, Goa.
403 001

And submitted through Registered Post/Speed post only through Posts & Telegraph Department.

9.0 **Bid Due Date**

9.1 Bids should reach the office of the Corporation of the city of Panaji before 3.00p.m. IST on 01st August, 2012, in the manner and form as detailed in this bid document. Bid submitted by either facsimile transmission or telex or email or in person will not be accepted.

9.2 Corporation of the City of Panaji may, in exceptional circumstances, and at its sole discretion, extend the above Bid Due Date by issuing an Addendum.
10.0 Opening of Bids and Clarifications

10.1 Corporation of the City of Panaji would open the Bids possibly on Bid Due Date as mentioned in this bid document for the purpose of evaluation.

10.2 Commissioner, Corporation of the City of Panaji reserves the right to reject any Bid not submitted on time and which does not contain the information/documents as mentioned in the bid document.

10.3 To facilitate evaluation of Bids, Corporation of the City of Panaji may, at its sole discretion, seek clarification in writing from any Supplier regarding its Bid.

11.0 Evaluation

11.1 As part of the evaluation, the Bids shall be checked for responsiveness with the requirements of the bid document and only those Bids, which are found to be responsive, would be further evaluated in accordance with the criteria, set out in this bid document.

11.2 The Bid would be considered to be responsive if it meets the following conditions:
(a) It is received by the Bid Due Date including any extension thereof.

(b) It is signed, sealed and marked as stipulated in the bid document.

(c) It contains all the information and documents as requested in bid document.
(d) It contains information in formats specified in this bid document.

(e) It mentions the bid validity period as stipulated in this bid document.

(f) It provides information in reasonable detail. (“Reasonable Detail” means that, but for minor deviations, the information can be reviewed and evaluated by Corporation of the City of Panaji without communication with the Supplier). Corporation of the City of Panaji reserves the right to determine whether the information has been provided in reasonable detail.

(g) There are no inconsistencies between the Bid and the supporting documents. A Bid that is substantially responsive is one that conforms to the preceding requirements without material deviation or reservation. A material deviation or reservation is one.

(i) which affects in any substantial way, the scope, quality, or performance of the project, or (ii) which would affect unfairly the competitive position of other Suppliers presenting substantially responsive Bids.

11.3 Corporation of the City of Panaji reserves the right to reject any Bid, if:

(a) If the tender is incomplete; or

(b) At any time, a material misrepresentation is made or discovered; or

(c) The Supplier does not respond promptly and diligently to requests for supplemental information required for the evaluation of the Bid.
11.4 In case the Bid is found to be responsive, the Bid would be evaluated in accordance with the Qualification Criteria as set out in Appendix 2.

11.5 In case the Bid is found to be inadequate, Corporation of the City of Panaji may request the Supplier for modifications to the Bid submitted. As part of the evaluation of the Bid, Corporation of the City of Panaji may also request the Supplier to submit clarifications.

11.6 The Financial Bids/Bid of only those Suppliers, who meet the Qualification Criteria, would be opened.

11.7 The bidder offering the lowest bid for supply of the Refuse Garbage Compactor 7 cu.mt. capacity would be declared as the Preferred Supplier for the same.

11.8 In the event of acceptance of the Preferred Supplier Corporation of the City of Panaji shall declare the Preferred Supplier as the Successful Supplier. Corporation of the City of Panaji will notify the Successful Supplier through a Letter of Award (LOA) that its Bid has been accepted. The successful supplier shall enter into an Agreement with the Corporation of the city of Panaji within 7[seven] days from the date of receipt of LOA and shall also submit Performance Security.

11.9 Notwithstanding anything contained in this bid document, Commissioner, Corporation of the City of Panaji reserves the right to accept or reject any bid, or to annul the bidding process or reject all bid, at any time without any liability or any obligation for such rejection or annulment, without assigning any reasons thereof.
12.0 If any dispute arises about the contract or any terms of contract, Commissioner, Corporation of the City of Panaji shall be the sole arbitrator and his decision would be final binding to all the parties.

13.0 First unit/sample shall be inspected/verified by authorised representative/s of Corporation of the City of Panaji with the specification of Corporation of the City of Panaji and on approval of first unit/sample; tenderer shall have to fabricate rest of units. The inspection shall be carried out at various stages of fabrication also if required.

14.0 The price escalation or variation clause will not be accepted. Tenderer has to quote the total price, net including of all taxes and duties etc., and for evaluation and finalisation purpose, the total price will be taken in to consideration. Transportation Packing, Forwarding, Insurance charges should be included in the indicated price. However any change in the Excise, VAT/Sales tax will be considered at actual for which contractor will have to submit necessary documentary proof as required by Corporation.

15.0 The technical specification for Refuse Garbage Compactor 7 cu.mt. capacity is given in Appendix 1.

16.0 EXTENSION FOR DELAY

If the supply is delayed by:

(a) Force Majeure.
(b) Abnormally bad weather, or
(c) Serious loss or damage by fire
(d) Civil commotion or strike or lockout of principal workshop.

OR

Any other cause which is beyond the contractor’s control then upon the happening of any such event causing delay, the contractor shall immediately inform in writing to
the Commissioner, Corporation of the City of Panaji. In such event Commissioner, Corporation of the City of Panaji can take the final decision regarding the late delivery penalty for such cause.

17.0 **PAYMENTS DUE FROM BIDDER**

The Commissioner, Corporation of the City of Panaji shall be entitled to recover costs, damages, or expenses for which under the bid, the bidder is liable to the Corporation of the City of Panaji from any money due or becoming due to the bidder under the bid. The Commissioner, Corporation of the City of Panaji will have the liberty to recover the amount from the bidder.

18.0 **Payment Terms**: - For supply of refuse garbage compactor preferable after satisfactory Delivery at Panjai, Goa within 60 days.

19.0 Only manufacturer of vehicles and/or its authorized dealer/distributor can take part in the tender for which necessary documentary proof should be enclosed with tender.

20.0 **Special Conditions**

(a) The bidder has to make the invoices in the name of the Corporation of the City of Panaji.

(b) Bidder has to instruct the dealers to render after sale service for the supplies made, and copy of the same to be enclosed with bid if service will be provided through dealer network. Even in such circumstances all liabilities will rest on supplier only.

(c) The tenderer shall be fully responsible for procurement of chassis from the manufacturer and in no way any kind of relaxation will be given if there is any problem with the chassis received. The tenderer should see that the design of
equipment should be such that it can be mounted on the standard chassis manufactured by the chassis manufacturer.

(d) The tendered shall quote for complete job. The tender that does not include the complete job as specified in the bid document will be rejected. The successful bidder shall be responsible for taking timely delivery of chassis from chassis suppliers. The successful bidder shall be responsible for any fault, shortfall in the chassis proposed for rear end loading refuse garbage compactor body required in the tender etc. or any other requirement which is mandatory for the completion of successful equipment manufacturing.

(e) It will be the responsibility of the tenderer to collect the chassis from the regional sale office/depot of the manufacturer or their authorized dealer and transport the same to their workshop. Any charges applicable for the same shall be included in the tender offer.

(f) It will be responsibility of the tenderer to deliver the vehicle after the completion of the fabrication of the equipment to Corporation of the City of Panaji, Panaji, Goa.

(g) The successful tenderer will be fully responsible for the safety of the chassis when in their workshop.

(h) Emission Norms for Chassis:

Tenderer must have to quote for chassis having TATA 1109 LPT BS II, WB-3600mm., tenderer must have to supply the unit mounted on chassis TATA 1109 LPT BS II, WD-3600mm.
(i) The technical specification for the manufacture and supply of rear end loading refuse garbage compactor with a universal bin lifting arrangement system, mounted on vehicle chassis of carrying capacity 9 tons GVW, 7cu.m. is given in Appendix 1. Bidder has to design accordingly to the requirements, fabricate, mount and supply the fully built garbage compactor unit to Corporation of the City of Panaji. Necessary design and final approval from RTO and other Government agencies (as required) as per latest norms and rules is supplier’s responsibility.

Commissioner
Corporation of the City of Panaji

Contractor’s Sign
With seal
APPENDIX 1

Specifications of Refuse Garbage Compactor 7 cu.mt.capacity

The number of Refuse Garbage Compactors 7 cu.mt. capacity to be supplied is 3nos. However, actual number of procurement will be at the sole discretion of Corporation of the City of Panaji.

Tender Validity period

The Validity period is 120 days.

Emission Norms for Chassis:

Tenderer must have to quote for chassis of TATA 1109 LPT BS II, WB-3600mm.

Procurement period (i.e. Delivery Period)

The total procurement period is 120 days. Delivery period will commence from the date of issue of LOA.

Delivery Schedule

As per requirement Corporation of the City of Panaji will give delivery schedule (if delivery is required in staggered manner/delay) to the successful bidder. The price quoted as per Appendix 4, will be valid for the entire procurement period, which will be binding on the supplier.

Delivery location: Panaji, Goa.

Payment Terms: -

90% payment will be made on delivery of the Refuse Garbage Compactor and the balance 10% on successful commissioning of Refuse Garbage Compactors.
The Corporation of the city of Panaji will release the Bank Guarantee after a period of one year only on satisfactory performance of work as per the contract.

**Transit Insurance**

The Supplier is responsible for transit and all other insurance till the tools/machineries/vehicles and equipment and delivered at the location mentioned in the supply order.

**Taxes and duties**

All taxes and duties shall be included in the indicated price. Tenderer has to quote the total price; net inclusive of all taxes & duties etc., and for evaluation and finalisation purpose, the total price will be taken into consideration. Transportation, Packing, Forwarding, Insurance charges are to be included in the indicated price.

However any change in the Excise, VAT/Sales tax will be considered at actual for which contractor will have to submit necessary documentary proof as required by department.

**Warranty Period**

Supplier shall warrant that the supply shall be warranted against faulty materials and workmanship for **Refuse Garbage Compactors 7 cu.mt. capacity** for a period of minimum 12 months from the date of commissioning or 1.5lakh kms. Whichever is earlier on chassis/Engineer and 12 months on body building, only for manufacturing defect.

**Inspection**

The bidder will make arrangement for inspection of the Refuse Garbage Compactor 7 cu.mt. capacity by authorised representatives of Corporation of the City of Panaji &/or Third Party (if Required) along with Corporation of the City of Panaji, before delivery at site & also before colour work. Commissioning of the Refuse Garbage Compactor 7 cu.mt.capacity will be carried out at PANAJI at site specified
by Corporation of the City of Panaji (if required). If any discrepancy is found in the material supplied and technical specifications approved, the same lot shall be rejected and bidder will collect rejected material within seven days. No claim for the rejected material shall be entertained.

**Liquidated damages for delay**

Supplier in accordance with the delivery period specified in the tender shall make delivery of the refuse garbage compactors within 120 days.

An unexcused delay by the supplier in the supply of its delivery obligations, the supplier will be held liable and Corporation of the City of Panaji can take actions to forfeit of his performance security, imposition of liquidated damages and/or termination of the contract by default. If the supplier fails to deliver any or all of the refuse garbage compactors within the said period, Corporation of the City of Panaji shall deduct from the contract price as liquidated damages, a sum equivalent to 2 percent of the delivery price of the delayed goods per fortnight or part thereof on the value of the delayed work will be recovered from the supplier without any reference to the suppliers. The amount of liquidated damages will be however subject to the maximum of 10% of the total contract sum. However delay in excess of 45 days after completion of delivery period may be cause for termination of contract and forfeiture of performance security.

**Commissioner**

**Corporation of the City of Panaji**

Contractor’s Sign
With seal
Specification of Truck Mounted Garbage Compactor 7 cu.mt.capacity.

1. SCOPE OF SUPPLY

Under this contract, the successful bidder has to supply.

A. Refuse Garbage Compactor 7 cu.mt. Carrying capacity, 9-11 tons GVW, WB-3600mm with universal bin lifting arrangement, and rear loading unit.- 3 nos.

Chassis:

The equipment shall be designed, fabricated, mounted and integrated to the Suitable TATA 1109 LPT BS II, WB-3600mm & shall meet all requirements of various Government agencies/RTO rules.

Functional Requirements: MCV cab-chassis with PTO is required to build up the hydraulically operated Garbage Compactor having 7cu.mt capacity as per the specifications and requirements mentioned in the tender documents.

POWER TAKE OFF UNIT (PTO).

Total power take off is to be entirely designed to allow to draw the ample power from vehicle engine. The PTO will be provided on the body of gearbox and one auxiliary output. The engagement and dis-engagement of PTO outputs system will be effected by pneumatically or electrically or mechanically operated and controlled system situated in the driver’s cabin. Output H.P. of PTO should be as required by the system for smooth and trouble free operation.
COMPACTOR EQUIPMENT:

CONSTRUCTION:

General:

The rear loading refuse garbage compactor shall be mounted on suitable 9-11 Ton GVW chassis. The compactor shall comprise of three main parts.

1. The body and Ejection Barrier
2. The Hopper and compaction hydraulic unit at rear body.

The packing system will comprise of two moving plates the packing plate and the sweeping plate. The packing plate will travel on angular track, and at the end of the stroke, sweeping plate will be activated and clean the hopper, at the end of its travel, packing plate start it’s reverse travel and start compressing the refuse into the body. It’s called one complete cycle of compaction. The entire compaction system shall be operated at designed speed. It shall be easy to handle and will allow the loading personnel to operate the vehicle with minimum physical effort and maximum safety.

The loading height shall approx.. 1.0Mtr. from the ground level.

The body will consist of:

Front bearings of the refuse collection body, Refuse collection body with ejection panel. Tailgate with hopper; slide plate, and Bin lifter (optional).

3. Two emergency stop switches will be provided on either side of the body to instantly stop the operation in case of emergency.
   (a) A level indicator will be provided to indicate hydraulic oil level in the tank.
(b) The Vehicle will be provided with lights so that it gives the indication at the time of reversing.

(c) Arrangement will be provide to get an indication as soon as the garbage contained reached its maximum. Arrangement shall also be provided to stop the operating cycle as soon as the Compactor is full.

<table>
<thead>
<tr>
<th>Sr. No.</th>
<th>Description</th>
<th>Specifications</th>
</tr>
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<tbody>
<tr>
<td>1</td>
<td>Material</td>
<td>EN 24 for machined component &amp; IS 2062 for fabricated component</td>
</tr>
<tr>
<td>2</td>
<td>Roof Paneling Thickness</td>
<td>3mm</td>
</tr>
<tr>
<td>3</td>
<td>Side Paneling Thickness</td>
<td>3mm</td>
</tr>
<tr>
<td>4</td>
<td>Flooring Thickness</td>
<td>4mm</td>
</tr>
<tr>
<td>5</td>
<td>Rear Cross Bar Thickness</td>
<td>6mm</td>
</tr>
</tbody>
</table>
## Tail Gate

<table>
<thead>
<tr>
<th></th>
<th>Description</th>
<th>Material</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>Material</td>
<td>EN 24 for machined component &amp; IS 2062 for fabricated component</td>
</tr>
<tr>
<td>2</td>
<td>Side Paneling Thickness</td>
<td>3.15mm</td>
</tr>
<tr>
<td>3</td>
<td>Rear side of Hopper Plate Thickness</td>
<td>4mm</td>
</tr>
<tr>
<td>4</td>
<td>Hopper Bottom Plate Thickness</td>
<td>5mm</td>
</tr>
<tr>
<td>5</td>
<td>Superstructure Member Thickness</td>
<td>4mm</td>
</tr>
</tbody>
</table>

## EJECTOR SYSTEM

<table>
<thead>
<tr>
<th></th>
<th>Description</th>
<th>Material</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>Ejector Plate Material</td>
<td>EN 24 for machined component &amp; IS 2062 for fabricated component</td>
</tr>
<tr>
<td>2</td>
<td>Pads</td>
<td>(UHMWPE) Ultra high molecular weight polyethylene</td>
</tr>
<tr>
<td></td>
<td>HYDRAULIC SYSTEM</td>
<td></td>
</tr>
<tr>
<td>---</td>
<td>------------------------------------------------------</td>
<td>----------------------------------</td>
</tr>
<tr>
<td>1</td>
<td>Power Take off</td>
<td>As per Vehicle Manufacturers</td>
</tr>
<tr>
<td>2</td>
<td>Hydraulic Pump Pressure</td>
<td>175 Bar</td>
</tr>
<tr>
<td>3</td>
<td>Hydraulic pump working speed</td>
<td>500 – 1700 RPM approx.</td>
</tr>
<tr>
<td>4</td>
<td>Hydraulic Cylinders Quantity</td>
<td>09 Nos.</td>
</tr>
<tr>
<td>5</td>
<td>Hydraulic Cylinder Make</td>
<td>As per ISO-9001/9002</td>
</tr>
<tr>
<td>6</td>
<td>Hydraulic Cylinders single acting</td>
<td>Nil.</td>
</tr>
<tr>
<td>7</td>
<td>Hydraulic Cylinders double acting</td>
<td>09 Nos.</td>
</tr>
<tr>
<td>8</td>
<td>a) Packer Plate Hydraulic Cylinder Internal Diameter</td>
<td>100 MM</td>
</tr>
<tr>
<td></td>
<td>b) Packer Plate Hydraulic Cylinder Stroke</td>
<td>300MM</td>
</tr>
<tr>
<td>9</td>
<td>a) Tailgate Hydraulic Cylinder internal Diameter</td>
<td>90MM</td>
</tr>
<tr>
<td></td>
<td>Description</td>
<td>Value</td>
</tr>
<tr>
<td>---</td>
<td>--------------------------------------------------</td>
<td>-----------</td>
</tr>
<tr>
<td>10</td>
<td>a) Carrier Plate Cylinder internal Diameter</td>
<td>80MM</td>
</tr>
<tr>
<td></td>
<td>b) Carrier Plate Cylinder Stroke</td>
<td>860MM</td>
</tr>
<tr>
<td>11</td>
<td>a) Ejector Cylinder</td>
<td>Telescopic type</td>
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<tr>
<td></td>
<td>b) Ejector Cylinder no. of stages</td>
<td>03nos.</td>
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<td></td>
<td>c) Ejector Cylinder Internal Dia.</td>
<td>115mm, 105mm</td>
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<td></td>
<td>d) Ejector Cylinder Stroke</td>
<td>1845mm</td>
</tr>
<tr>
<td>12</td>
<td>Hydraulic Pump</td>
<td>Wipro make, model-P 130, 40LMP or equivalent</td>
</tr>
<tr>
<td>13</td>
<td>Size of Suction Filter</td>
<td>149 Microns</td>
</tr>
<tr>
<td></td>
<td>Size of Ejector Plate</td>
<td>H=1306MM, W=1880mm</td>
</tr>
<tr>
<td>14</td>
<td>Cycle duration for Compaction system</td>
<td>50Sec.</td>
</tr>
<tr>
<td>15</td>
<td>Cycle Duration for Bin Lifter</td>
<td>10Sec.</td>
</tr>
<tr>
<td></td>
<td>Description</td>
<td>Details</td>
</tr>
<tr>
<td>---</td>
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</tr>
<tr>
<td>16</td>
<td>Loading Height of the Hopper</td>
<td>1mtr.</td>
</tr>
<tr>
<td>17</td>
<td>Duration of Ejection</td>
<td>35Sec.</td>
</tr>
<tr>
<td>18</td>
<td>Pump &amp; PTO Mounting</td>
<td>Directly coupled without any intermediate shaft</td>
</tr>
<tr>
<td>19</td>
<td>Compaction Ratio obtained</td>
<td>1:2 Depending on the type of garbage</td>
</tr>
<tr>
<td>20</td>
<td>Additional Accessories provided if any</td>
<td></td>
</tr>
<tr>
<td>21</td>
<td>Oil capacity</td>
<td>Minimum 125 litres.</td>
</tr>
</tbody>
</table>
All cylinders will be double acting and cushioned, manufactured from ST-52 Grade steel and seals of reputed ISO-9000 manufacturer will be used.

The Compactor equipment shall be mounted on the TATA chassis1109 LPT BS II equivalent of 9-11 Ton GVW and approx. 3600mm wheel base, with PTO. Bidder shall furnish full details of vehicles chassis in the technical bid. Supplier shall also make arrangements to procure the vehicle with cabin from the manufacturer. The standard tools accessories and spares supplied with the chassis shall be handed over to us at the time of delivery of the unit.

The supplier shall make arrangements for mounting equipment on the chassis according to the rules laid down by the Regional Transport office, Panaji, Goa and loads recommended by the chassis manufacturer on the front and rear axles. The bidder shall make arrangements for registration of the complete unit along with its design approval with the Regional Transport office. The Government fees required for registration of the units shall be paid by the supplier.

UNIVERSAL BIN LIFTER

1. The bin lifter shall be made from 2062 Steel IS Specification.

2. Two double acting hydraulic cylinders (one on each side) shall be provided for lifting the bin.

3. The bin lifter shall be suitable to lift the standard bins of size 240 liters, (HDPE Bins) 660 and 1100 liters (GI Bins)/Structural steel.

4. The bin lifter shall contain a bin catcher made from EN series steel.

5. A control panel shall be installed at convenient position such that the working of hydraulic cylinder can be controlled safely.
6. The length of the bin lifter shall be minimum 1.4mtrs. (or suitable to tail gate & bin lifting operation).

7. The safety valve shall be provided to avoid sudden descent of bin lifter in case of failure of hydraulic pressure.

8. Both arms types & comb lifting attachment to be provided.

Commissioner
Corporation of the City of Panaji
GENERAL DESCRIPTION: -

The compactor body shall be constructed of steel as per the details given: -

1. The compactor body must be sufficiently strong and will have inside volume of minimum 7 Cub. Mt.

2. The equipment i.e. the compactor shall be suitable to carry payload of minimum 9 tonnes.

3. The equipment shall be rear-loading type.

4. Arrangement shall be provided to manually load the vehicle also. The height of hopper for manual loading shall not be more than 1000mm.

5. The construction of the vehicle will consist of the body, the ejector system and the tailgate.

6. The garbage will be loaded in the hopper either manually or by emptying the containers hydraulically with the help of lifting mechanism. The garbage from the hopper shall be swept by sweeping plate fitted at the end of packing plate and pushed inside the body and then compressed against the ejection plate.

7. The tailgate shall be equipped with heavy-duty turnbuckle one on each side/other suitable mechanism to hold tailgate and body together.

8. The tailgate shall be provided with sturdy arrangement for raising and controlling of descent.
9. The operation of the tailgate mechanism shall be such that it avoids the possibilities of accidents.

10. The packer plates shall be designed as per the specifications given.

11. Lever shall be provided on the rear side of the vehicle to start packing mechanism. Arrangement shall be provided to stop the system instantaneously with the help of switches provided at the rear of the vehicle.

12. The packer blade shall be designed as per the specification given.

13. The packer blade shall be fitted with sturdy mounting to the cylinders.

14. Arrangement shall be provided to control the speed of the engine automatically at the time of operation of Compacting system so that the speed is not depend on the throttle opening of the engine when the vehicle is stationary.

15. The ejector plate shall be suitably angled & so that proper ejection takes place when operated.

16. Pressure regulation switch shall be provided for setting desired pressure of telescopic cylinder on the ejector plate. The regulation switch shall have a key lock arrangement for pressure setting & for safety of the system.
MISCELLANEOUS

1. The cabin shall be provided and fixed with
   - Roof Light – 02 Nos.
   - Heavy duty Wiper Machine – 02 Nos. (with Arm & Blade0
   - Heavy-duty Bracket type convex mirror – 02 Nos.
   - Hand operated Traffic Signal – 01No.
   - Extra wiring wherever necessary

2. Suitable size battery box shall be provided under the attendants seat. The tenderer shall provide the extra length of battery cable.

3. Stoplights, direction indicator lights and tail lamps shall be provided and fitted.

4. All controlling switches for lights, driver cab light and wiper machines shall be provided on dashboard panel or near drivers’ seat to operate easily.

5. The cabin shall be painted externally and internally in Dulux paint of approved shade.
PAINTING

The under chassis parts and the portion shall be painted with anticorrosive black. Complete unit including cross and super structure member shall be painted with superior quality anti-rust paint. All the paint material shall confirm to ISI specifications and shall be of specified makes. The colour scheme will be informed at the time of fabrication.

The compacting unit shall be painted with anti-corrosive primer before painting with two coats of polyurethane paint of ISI approve make. All necessary indicative labels shall be pasted on for easy operation.

The rear body shall be painted from outside with Dulux paint. The colour scheme will be intimated later.

- All welding work must be MIG welding only. All necessary finishing shall be carried out prior painting. Welding wire shall be of ESAB/ADOR/L&T only.
- All angle and channels and other raw materials are as per Indian standard.
- All MS material shall be of Tata/SAIL/Jindal/Vishakhapatnam steel/Essar/Ispat/Hardox/as suggested in the tender (for angle/channel if no available of above brand then it shall be of IS/ISO approve make) only. Contractor has to submit necessary test report and/or invoice copies.
Other conditions:

1) The work involves design, fabrication, erection, supply and commissioning of Garbage compactors having minimum 7cu.mt. capacity mounted on suitable Chassis to be purchased by Tenderer, as per specifications attached.

2) These specifications only show the requirement briefly. Each tenderer shall attach descriptive literature along with a detailed description of the machine covering all the salient features.

3) All moving parts shall be provided with adequate means of lubrication by providing nipples etc.

4) All reciprocating parts shall be suitably guarded.

5) The equipment shall be capable of being operated under average conditions for at least 8hrs. continuously without any ill effects on its component.

6) The refuse compactor will meet the requirement of Motor vehicle Act 1989 with the latest emission norms, if any.

7) The tenderer will have to give the demonstration of the compactor offered whenever called for by the department.

However imported components shall be approved by principals and international organisation with certificates.

8) Every part of the equipment including rubber hoses shall be guaranteed for a period of one year.

Commissioner
Corporation of the City of Panaji

Contractor’s Sign
With seal
APPENDIX 2

QUALIFICATION CRITERIA

NAME OF WORK: Supplying of Refuse Garbage Compactors.

<table>
<thead>
<tr>
<th>Sr.no</th>
<th>QUALIFICATION CRITERIA</th>
<th>MAX.POINTS</th>
<th>EVALUATION</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>1. In case of manufacturer: Specific experience in manufacturing and supplying Refuse Garbage Compactors for MSW in India - Form C.</td>
<td>30</td>
<td></td>
</tr>
<tr>
<td></td>
<td>2. In case of authorized dealer: Experience in supplying minimum 4 nos. Rear Loading Garbage Compactors in Goa - Form D</td>
<td></td>
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<tr>
<td>2</td>
<td>Financial Capacity of the firm: Turnover in past 5 years, not less than Rs. 1 crore in each year - Form E.</td>
<td>20</td>
<td></td>
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<td>3</td>
<td>Valid Solvency Certificate: Not less than Rs 30 lakhs.</td>
<td>10</td>
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<td>4</td>
<td>Details of local office and service station/ Personnel [Refer Form A].</td>
<td>10</td>
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<tr>
<td>5</td>
<td>Detailed description of Rear Loading Refuse Garbage Compactor with photographs, model number and its working/suitability, etc.- Form H.</td>
<td>15</td>
<td></td>
</tr>
<tr>
<td>6</td>
<td>Brief description of service/maintenance provided for Rear Loading Garbage Compactors with documentary proof – Form F and G</td>
<td>15</td>
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<td>TOTAL</td>
<td></td>
<td>100</td>
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NOTE: Performa Enclosed.

Commissioner
Corporation of the City of Panaji

Contractor’s Sign
With seal
FORM ‘A’

STRUCTURE & ORGANISATIONAL SETUP

Applicant

Organization Details:

1. Registration Details [Articles of Association to be attached].
2. Firms/Companies are required to indicate main area of business [consultancy] as indicated below:
   a. ------------------------ since -------------------
   b. ------------------------ since -------------------
   c. ------------------------ since -------------------

3. Type of organization of the applicant [Proprietorship/ Partnership/ Private Limited/ Public Limited].
4. Establishment year and incorporation.
5. Address [With telephone and facsimile numbers].
   a. If the applicant is a subsidiary of any other company.
   b. Describe the relationship with the Associates or Holding Company.
   c. Identify Common directorship.
   d. Identify the legal limits of liability of the company.
   e. Provide an organization chart.
6. List by name, the owner and all executive directors of the company including nationality, responsibility, year of experience, years with the company.
7. Name and contact details to nodal officer with whom the Corporation of the city of Panaji can co-ordinate.
8. Details of local / Goa office.
9. Details of local / Goa authorized service centre.

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Corporation of the City of Panaji

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FORM ‘B’

STRUCTURE & ORGANISATIONAL SETUP [Continued]

Applicant

[The name of the applicant shall be the name of the intended joint venture/consortium].

COMPANY DETAILS

1. Lead Partner
   Name of the company :
   Main line of business :
   Names of representatives :
   Telephone number :
   Facsimile number :
   Office Address :

2. Other Partner
   Name of the Company :
   Main line of business :
   Names of representatives :
   Telephone numbers :
   Facsimile number :
   Office Address :

3. Each member company of the joint ventures shall provide
   a. The date of establishment and brief history of the company.
   b. A summary of the company’s business and associated business.
   c. The lead company shall provide evidence of intent to form the joint venture.

4. The consortium agreement / joint venture agreement shall be attached, indicating the scope of work and responsibility identified by each partner. The partner shall be jointly and severally responsible for the intended work under this tender.

5. In case of consortium/joint venture, the other partners shall provide a written ‘Power of Attorney’ authorizing the lead partner’s authorized representative to act on their behalf.

Commissioner
Corporation of the City of Panaji

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With seal
FORM ‘C’

SPECIFIC EXPERIENCE OF THE BIDDER

SPECIFIC EXPERIENCE OF THE MANUFACTURER

Applicant

LIST OF WORK EXECUTED

<table>
<thead>
<tr>
<th>Sr. No</th>
<th>DETAILS OF SUPPLY [MODEL NO., ETC]</th>
<th>AGENCY FOR WHICH WORK WAS EXECUTED</th>
<th>DATE OF MANUFACTURE</th>
<th>DATE OF SUPPLY</th>
<th>CONTRACT VALUE</th>
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<tbody>
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<td>1.</td>
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</tbody>
</table>

Note: Documentary proof for successful implementation of work should be submitted.

Commissioner
Corporation of the City of Panaji

Contractor’s Sign
With seal
FORM ‘D’

SPECIFIC EXPERIENCE OF THE BIDDER

SPECIFIC EXPERIENCE OF THE AUTHORISED DEALER

Applicant

LIST OF WORK EXECUTED

<table>
<thead>
<tr>
<th>Sr. No</th>
<th>DETAILS OF SUPPLY [MODEL NO., ETC]</th>
<th>AGENCY FOR WHICH WORK WAS EXECUTED</th>
<th>DATE OF MANUFACTURE</th>
<th>DATE OF SUPPLY</th>
<th>CONTRACT VALUE</th>
</tr>
</thead>
<tbody>
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<td>1.</td>
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</table>

Note: Documentary proof for successful implementation of work should be submitted.

Commissioner
Corporation of the City of Panaji

Contractor’s Sign
With seal
FORM ‘E’

FINANCIAL CAPABLITY OF THE FIRM

FINANCIAL TURNOVER

[To be filled by the bidder ].

Financial capability of the firm : Average annual turnover in the field of manufacturing or supplying of ‘Refuse Garbage Compactors during the past five years shall not be less than Rs. 1 crore per year.

FINANCIAL STATUS/ CAPABILITY STATEMENT

1. Audited financial statement.
2. Annual works undertaken.

<table>
<thead>
<tr>
<th>CATEGORY WORK</th>
<th>AMOUNT IN INDIAN RUPEES</th>
</tr>
</thead>
</table>

Note : Documentary proof should be submitted.

Commissioner
Corporation of the City of Panaji

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FORM ‘F’

SPECIFIC EXPERIENCE IN MAINTENANCE OF THE BIDDER

SPECIFIC EXPERIENCE OF MAINTENANCE/ REPAIRS PROVIDED [MANUFACTURER/DEALER]

Applicant  ........................................................................................................................................

LIST OF WORKS EXECUTED

<table>
<thead>
<tr>
<th>Sr.No</th>
<th>DETAILS OF MAINTENANCE CARRIED OUT [MODEL NO.,ETC.]</th>
<th>AGENCY FOR WHICH WORK WAS EXECUTED WITH CONTACT DETAILS</th>
<th>RESPONSE TIME TO BREAK DOWN CALL</th>
<th>TIME TAKEN TO COMPLETE THE WORK</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
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</table>

Note : Documentary proof for successful implementation of work should be submitted.

Commissioner
Corporation of the City of Panaji

Contractor’s Sign
With seal
FORM ‘G’
PROVISION OF MAINTENANCE - RESPONSE TO BREAKDOWN

Commissioner
Corporation of the City of Panaji

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With seal
FORM ‘H’

DETAILED DESCRIPTION OF ‘REAR LOADING GARBAGE COMPACTING SYSTEM’

1. Suitability of the ‘Rear Loading Garbage Compactor System’.
2. Size /Dimensions.
3. Photographs.
4. Power point presentation of proposed ‘Rear Loading Garbage Compacting System’ [Presentation should be clear and detailed and specific].
5. Video Presentation of the proposed ‘Rear Loading Garbage Compacting System’ [Presentation should be clear and detailed and specific].

Commissioner
Corporation of the City of Panaji

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LIABILITY

OF THE PROSPECTIVE BIDDER [ MANUFACTURER / DEALER ]

1. The bidder shall be a manufacturer or dealer of the ‘Refuse Garbage Compactors or an authorized dealer having an office in the state of Goa.
2. The prospective bidder should have trained personnel / full fledged authorized after sale back –up service present in the state of Goa, dealing in the ‘Rear Loading Garbage Compacting System’
3. The bidder should be able to deliver the required Refuse Garbage Compactors within 120 days after receiving a written supply order from the Corporation of the city of Panaji.
4. The bidder shall train the staff of the Corporation of the city of Panaji in the operation and handling of the Refuse Garbage Compactor for a period of one month.
5. The bidder shall also train the maintenance / garage staff of the Corporation of the city of Panaji in the operation, handling, maintenance and repairs of the Refuse Garbage Compactors for a period of one month.
6. The prospective / intending bidder should provide after sales service for a year at no extra cost and should provide paid services for an additional period of 4 years.
7. The prospective bidder should respond to a breakdown call within a reasonable period subject to the period not exceeding 24 hours or one working day, if next day happens to be a holiday.

OF THE CORPORATION OF THE CITY OF PANAJI

1. The Corporation of the city of Panaji shall ensure that payments are made as specified and agreed, based on completion of work and confirmation that the work has been carried out as specified by periodic inspection by its appointed personnel.

Commissioner
Corporation of the City of Panaji

Contractor’s Sign
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APPENDIX 3

Details of Suppliers

1. (a) Name of the Supplier
   
   (b) Address of the office(s)
   
   (c) Date of incorporation and/or commencement of business

2. Brief description of the Supplier's main lines of business

3. Details of individual(s) who will serve as the point of contact/communication with the CCP:
   
   a) Name:
   
   b) Designation:
   
   c) Company/Firm:
   
   d) Address:
   
   e) Telephone number:
   
   f) E-mail address:
   
   g) Fax number:
   
   h) Mobile number:

4. Name, Designation, Address and Phone Numbers of Authorised signatory of the Supplier
   
   a) Name:
   
   b) Designation:
c) Company/Firm:
d) Address:
e) Telephone number:
f) E-mail address:
g) Fax number:
h) Mobile number:

5. Details of the refuse garbage compactor supplied

- Specification

- Pictures

- Brief description

- Delivery Schedule

Commissioner
Corporation of the City of Panaji

Contractor’s Sign
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APPENDIX 4

Financial Bid for the Refuse Garbage Compactor 7cu.mt. capacity

(On the Letterhead of the Company)

Date:

To,
The Commissioner,
Corporation of the City of Panaji,
Panaji, Goa 403 001

Sub: - Financial Quote for Supply of Refuse Garbage Compactor 7cu.mt. capacity required for Municipal Solid Waste Management services.

Dear Sir/Madam,

We, hereby, having reviewed and fully understood all the terms and conditions of this Procurement Document, submit our financial quote for the supply of following equipment for your evaluation. The price quoted includes packing, forwarding charges, insurance, all taxes and duties etc. Delivery will be made at Panaji, Goa at site specified by CCP and will be as per the Bid Document.

Notwithstanding any qualifications or conditions, whether implied or otherwise, contained in our Bid we hereby represent and confirm that our Bid is unconditional in all respect and we agree to the terms of this Bid Document.
<table>
<thead>
<tr>
<th>Sr. No.</th>
<th>Details</th>
<th>Financial Quote PER UNIT (₹)</th>
<th>Quantity</th>
<th>Total Amount</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>Basic Price</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>2</td>
<td>Excise Duty</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>3</td>
<td>VAT</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>4</td>
<td>Other Taxes and Duties if any</td>
<td></td>
<td></td>
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<tr>
<td>5</td>
<td>Transportation</td>
<td></td>
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<td>6</td>
<td>Others</td>
<td></td>
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</tbody>
</table>

Refuse garbage compactor 7cu.mt. capacity as per tender specifications

3Nos.
Please provide information on applicable fields.

The price quoted above is net including all taxes & duties, Packing, forwarding, insurance charges etc. are included in the indicated price. The prices are fixed and firm and are inclusive of all applicable taxes and duties as may be statutorily applicable.

Yours faithfully,

For and on behalf of (Name of Supplier)

Duly signed by the Authorised Signatory of the Supplier

(Name, Title and Address of the Authorised Signatory)

Commissioner
Corporation of the City of Panaji

Contractor’s Sign
With seal