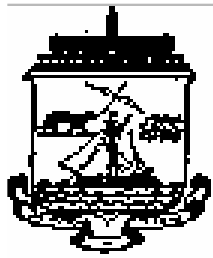


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**M.E.D.SCD.C.NO.M1/1498/10**

**CORPORATION OF CHENNAI**

**Mechanical Engineering Department**



**CONTRACT FOR THE SUPPLY OF  
COMPACTOR EQUIPMENT OF 6 CU.M CAPACITY  
MOUNTED ON LMV CHASSIS – 28 Nos.  
WITH 2 YEARS MAINTENANCE.**

**TECHNICAL BID**

**Cost of Forms: Rs.16,875/-**

## **CORPORATION OF CHENNAI**

### **RIPON BUILDINGS, CHENNAI – 600 003**

#### **TENDER NOTICE**

Superintending Engineer (Mechanical), Corporation of Chennai invites sealed tenders in “two Cover system” (Techno commercial & Price bids) from the reputed manufacturers of firms dealing in the line for the following work

Sl. No	Description of Tender	Qty	EMD to be paid Rs.	Due Date	Last date for issue of blank tender	Contract period
1	Supply of compactors of 6 Cu.M capacity mounted on LMV chassis with Operation & Maintenance for 2 years.	28 Nos	6.16 Lakhs by Demand Draft or Bank Guarantee favouring Commissioner, Corporation of Chennai from Nationalised scheduled bank.	14/05/10	12/05/10	2 years

The tender documents can be purchased at the cost of Rs.16,875/- including all taxes, in the form of DD for each tender from the office of Superintending Engineer (Mech) , Ripon Buildings, Chennai – 600 003 on any working day between 10.00 am to 3.00 p.m. on all working days or can be downloaded from Website [www.tenders.tn.gov.in](http://www.tenders.tn.gov.in), free of cost. The tender shall be submitted on or before 3.00 pm on 14/05/2010.

Interested tenderers may obtain further informations from the office of Superintending Engineer (Mech) at the address given above.

The tenders shall be submitted in sealed covers up to 3.00 pm. The covers “A” of the tenders will be opened on 14/05/2010 after 3.00 pm, at the office of Chief Engineer (General), Ripon Buildings. Opening of Price Bid will be intimated separately.

Sd.  
Superintending Engineer (M)  
Mechanical Engineering Department

## **SCOPE OF SUPPLY**

Under this contract, the successful bidder has to supply.

- A. Suitable Chassis with Engines with emission norms currently in vogue.
- B. Driver-cum- attendant Cabin as per specifications.
- C. Supply & fitment of Compactor equipment & body as per specifications.
- D. Operating & maintaining the equipment on Annual Comprehensive basis.

## **ELIGIBILITY**

1. The tenderer shall be the manufacturer of compactors or such type of equipments for more than 5 years and should show proof for the same.
2. The tenderer shall have achieved total turnover of not less than Rs.6 Crores at least twice during last 5 years. The certificate to that effect duly certified by Chartered Accountant shall be attached
3. The tenderer should attach proof for having sold not less than 30 Nos. of the model of compactor that is to be quoted in the last 5 years.
4. The tenderer shall have a capacity to manufacture at least 15 nos. of compactors at stretch.
5. At least 15 nos. of hopper type compactors manufactured by the tenderer or their principal/collaborator shall be in operation as on 01.04.2010. The performance certificate to that effect (for 15 nos) from the clients shall be attached along with the tender.
6. The tenderer should produce solvency certificate for 6 Crores from a Nationalised bank. Bank guarantee can be accepted.
7. The tenderer or their local representative shall have their own workshops to accommodate atleast three vehicles at a time in and around Chennai or enter into MOU with local workshop within 30 days from the date of issue of order.
8. Should submit the list of major components and assemblies which will be indigenously manufactured and the list of major components and assemblies which will be imported.
9. Vehicle manufacturers can also take part in the tender if they fulfill the following requirements, apart from the other mandatory condition and eligibility requirements as per the document.
  - a) They should enter into MOU with any compactor Manufacturer Company.
  - b) The Compactor Manufacturer in turn should meet eligibility Criterion mentioned in Technical Bid.
  - c) Eligibility criterion Nos.6,7 & 8 of technical bid can however be met jointly by vehicle manufacturer and the compactor manufacturer.

Signature of Tenderer.

- d) The MOU entered upon between the vehicle manufacturer and the Compactor manufacturer should meet all the Criteria prescribed in the Annexure – I of Technical bid.

Necessary documentary evidences shall be attached as proof for each of the above.

### **MANDATORY CONDITIONS**

The tender will be rejected if the tenderer

- a) Stipulates the validity period less that what is stated in the form of tender
- b) Does not disclose the full names and address of all his partners in the case of all partnership concern.
- c) Does not fill in and sign the Tender Form Specification of the articles and works as well as Bill of Quantities and Rates completely.
- d) Does not submit the Tender in sealed envelope.
- e) Does not submit the Original Tender Form duly signed and stamped.
- f) Submit the tender without stating the rates in words and / or in figures and / or both.
- g) Submit the tender without latest solvency certificate for Rs.6 Crores.
- h) Does not submit the annexures duly signed and stamped.
- i) Does not submit a valid original “Notarized” agreement between them and the principal/collaborators giving back up guarantee for design, manufacture and supervision of compactor units as required under technical supervision.
- j) Does not submit an original letter from the principal/collaborator stating that locally manufactured compactors in India will be fabricated under the technical guidance and direct supervision of principal/collaborator and will be certified by them.
- k) The tenderer should submit certified copies of PAN documents and certified copies of his/their photographs failing which ‘The tender shall be rejected outright’.
- l) Does not submit the tender with manufacturer documentary evidence of supplying 30 nos. of mobile compactors in India in the last 5 years.
- m) Does not submit details of local agent, his workshop, skilled workers, and supervisory staff working with him.
- n) Does not submit manufacturer’s original undertaking towards guarantee for spares and services for 10 years in Chennai.
- o) Does not quote for all the items slated in the schedule of quantities.
- p) Does not submit the certificate from the concerned authorities regarding 15 nos. of compactors in operation as on 01/04/2010.
- q) Does not submit the certificate from Chartered Accountants for having achieved turnover of Rs.6 Crores atleast twice during the last 5 years.

Signature of tenderer

**NAME OF THE TENDERER M/S. ....**

**ADDRESS.....**

**TENDER FOR THE SUPPLY OF 28 NUMBERS OF COMPACTORS OF 6 CU.M  
CAPACITY WITH 2 YEARS OPERATION & MAINTENANCE.....**

**SPECIFIC INSTRUCTIONS TO TENDERERS**

The Corporation of Chennai invites sealed tenders for the supply of 28 Nos. of 6 Cu.M. Mobile compactor to be mounted on suitable LMV Chassis as per the terms and conditions and specifications given below;

1. The tenderer are invited in two cover system i.e., cover “A” containing Technical and cover “B” containing only Financial Bid. Both these covers will be sealed individually and they will be put in to an outer envelope which will also be sealed. The cover “A” will be opened on due dates as specified in the Tender Notice. The cover “B” will be opened only after receipt of clarification if any from the tenderers. The due date of opening of cover “B” will be communicated to the prospective tenderers three days in advance.

**The Covers “A” & “B” shall be clearly marked as Cover “A” & Cover “B” . If the tenderers fail to mark these Covers then their tenders will not be opened.**

The tenderers will have to submit their tender before due date in the Tender Sales Counter, Chief Engineer’s Office , PRO’s Office and Vigilance Officer office , Ripon Buildings, Chennai – 600 003

The tenderer are expected to fill their tender carefully and scrutinize them before delivering them to the Corporation authorities stated above. No variation on any ground such as mistake or misunderstanding will be allowed after the tender is opened recommended or accepted.

The rates and amount must be quoted in figures as well as in words.

Signature of tenderer

**2. Cover “A” shall contain the “Certified Copies” of the following documents.**

- a) EMD in the form of Demand Draft or Bank Guarantee in favour of Commissioner, Corporation of Chennai shall be placed inside Cover “A” only. If on opening cover “A” EMD Demand Draft or Bank Guarantee is not found, then the tender shall be rejected.
- b) Registration Certificate of the Company.
- c) Original tender document duly signed.
- d) Latest Bank solvency certificate for 6 Crores.
- e) Latest registered partnership deed, in case of partnership firm.
- f) Details of manufacturer’s country of origin.
- g) Manufacturers or their authorised dealers’ documentary evidence for establishing the supply of minimum 30 nos. of compactors during last 5 years.
- h) The documentary evidence from the manufacturer of compactors giving back up service to the tenderer if the tenderer is fulfilled by the collaborator to manufacturer.
- i) The documentary evidence showing that the tenderer has got workshop or MOU with local workshop to accommodate 3 vehicles at a time.
- j) Copy of PAN card with photo duly notarised.
- k) The documentary evidence from the manufacturer of compactor equipment giving back up service to the tenderer is fulfilled by the collaborator to manufacturer.
- l) A Copy of the MOU to be attached that the tenderer has entered into any 3<sup>rd</sup> party for executing including undertaking to supply his spares.
- m) The original notarised agreement between the manufacturer or their principal/collaborator duly signed by both the firms confirming the collaboration for design, manufacture and supervision of compactor units as required under technical specifications.
- n) The original letter from the tenderer or their principal/collaborator giving information that the compactors will be produced under their technical guidance and direct supervision, if fabricated totally.
- o) An undertaking from the manufacturer to supply all the spares required for the equipments for next 10 years.
- p) All the literature & drawing in support of the product.
- q) Order copies showing proof for having supplied at least 30 Nos. of same type of Compactors.
- r) Performance certificates for 15 nos of compactors from the clients.
- s) Turn over certificates obtained from Chartered accountants duly notarised.

Signature of tenderer

**3. Cover “B” shall contain the schedule of rates and quantities duly filled**

1. The price of the goods, quoted shall be, ex-site in South Chennai Depot, No.30, Adithanar Salai, Chennai-600 002.
2. The rates of taxes, duties & custom duties applicable on the day of opening shall be clearly shown in the offer
3. Prices quoted shall be fixed for both Chassis and Compactor.
4. Charges for transportation, insurance and other incidental expenses for delivery of the equipment shall be included in the cost.
5. The prices, cost stated in the tender shall be in Indian Currency only.
6. Prices quoted by Tenderer shall be fixed except for statutory levies (In case of Chassis only) .The tenderers shall have to attach a certificate from vehicle manufacturer certifying that the rates stated for Chassis are special Government prices and applicable to the Government departments, During the contract no other price variations will be allowed under any circumstances. Tender submitted with variable price, tender will be treated as non- responsive and will be rejected out rightly.
7. Documents Establishing Tenderer’s Eligibility and Qualifications;

The documentary evidence of the Tenderer’s qualifications to perform the contract if its Tender is accepted, Shall establish to the departments satisfactions before the opening of Cover “B”.

- a) That in the case of a Tenderer offering to supply goods under the contract which the Tenderer does not manufacture or otherwise produce, the Tenderer has been duly authorised by the good’s manufacturer to produce and supply the goods.
- b) That the Tenderer has the financial, technical and production capability necessary to perform the contract**
- c) That , in the case of a tenderer not doing business with the purchaser’s country, the tenderer is or will be ( if successful ) represented by an agent in that country equipped and able to carry out the supply and supplier’s maintenance , repair and spare parts stocking obligations prescribed by the conditions of the contract and / or Technical Specifications.
- d) The tenderer shall have own workshop facility or MOU with a workshop in Chennai for having such facilities for maintenance of at least three unit in a time. Such workshops facility shall be available in and around Chennai. It is desired that the workshop shall have all facilities including maintenance of hydraulic system used in the unit. In case of MOU the same shall be for minimum period of 2 years. The copy of the same shall be attached along with the tender in Cover ‘A’

Signature of Tenderer.

8. The tenderer shall quote only for the brand stated in the tender. In case of imported components, the makes shall be approved by principals and international originations with due certificate. The tender will be rejected if any other brands are quoted.
9. The tender deposit shall be submitted in the form of Demand Draft only payable to the Commissioner, Corporation of Chennai.
10. **The Tender Security may be forfeited :**
  - a. If a Tenderer withdraws the tender during the period of validity specified by the Tenderer on the Tender form ; or
  - b. In case of a successful Tenderer, if the Tender fails ;
    - I. To sign the contract in accordance or
    - II. To furnish performance security in accordance with relevant Clause.
11. The tender shall remain valid for 90 days after the date of Tender opening prescribed by the Department. The tenders valid for fewer periods will be out rightly rejected.
12. All pages of the Tender, except for unamended printed literature shall be initiated by the person or persons signing the Tender.
13. The tender shall contain no inter lineation. Erasures or over writing expect as necessary to correct errors made by the persons or persons signing the Tender. Any correction in the tender document shall be endorsed by the tenderer with the signature.
14. Tenders must be received by the departments at the address specified above not later than 3.00 pm on 14/05/2010. **Please note that tenders will not be accepted after the hour and date fixed for opening of tenders.**
15. Any tender received by the Departments after the deadline for submission of the Tenders prescribed by the Department shall be outright rejected.
16. The department will open "A" cover of the tender, in the presence of Tenderers representative who chooses to attend, after 3.00 pm on the same day at the following location;  
Superintending Engineer(Mech)  
Corporation of Chennai  
Ripon Buildings, Chennai – 600 003
17. If the date of opening of the tender happens to be a holiday then the tender shall be opened on the next working day.
18. The tenderers representatives who are present shall have to sign a statement in respect of witnessing of tender opening.

Signature of Tenderer.

19. The tenderers names, Tender prices, modifications, Tender withdrawals and the Presence or absence of the requisite Tender security and such other details as the department, at its discretion, may consider appropriate will be announced at the opening.

20. **The tender shall be evaluated on the total cost of following;  
As in the Annexure “G” of Cover “B” in the price bid, While evaluation the total cost, the taxes, and custom duties applicable on the day of quotations shall be taken into consideration. Subsequently deductions or additions of the taxes will not affect the ranking of the tenders. However any or all mandatory taxes, levies, duties etc., increase may be considered on submission of proof for the same.**

**The Tender shall be evaluated on the price quoted for supply of chassis, Fabrication & Erection of Driver’s cabin on the chassis, mounting of compactor body, Operation & Maintenance cost {(A)+(B)+(C)+(D)+(E)}.**

21 . The department reserves the rights at the time of award of Contract to increase or decrease by up to 25% the quantity of goods specified in the Schedule of Requirements without any change in the price or other terms and conditions.

22. The Commissioner, Corporation of Chennai reserves the right to accept or reject any or all of the tenders at any time prior to award of contract without assigning any reasons.

23. **Performance Security**

Within 30 days of the receipt of notification of award from the Department, the Successful Tenderer shall furnish the contract deposit in accordance with the Conditions of contract. In the Contract Deposit Form provide in the Tendering Documents or another from acceptable to the Department. The contract deposit of 2% will be calculated on the total contract cost including Chassis, Compactor Equipment and O & M cost for 2 years, to be produced by way of Bank Demand Draft/Bank Guarantee in favour of Commissioner, Corporation of Chennai and also sign an agreement for faithful performance.

24. The tenderer must be accompanied by PAN certificate duly notarized

25. The tender shall be faultless in figures and entirely free from erasures. Any Tender containing corrections, alterations, over writings, erasures, or Mistakes in figures shall be rejected if not countersigned.

Signature of tenderer.

26. The tender deposit will be refunded, if the tender is not accepted by the competent authority. In case of successful tenderer the deposit will be retained as security till execution of the written contract.
27. In the event of the tender being accepted, full amounts of contract must be signed by all the partners of the firms and shall one or more partners if not a available for this purpose, signatory must produce a Power of Attorney authorizing him to sign on behalf of all absent partners. All such Power of Attorney must be registered in the office of Chief Accountant and the Chief Engineer (General) shall be informed accordingly.
28. The Commissioner, Corporation of Chennai does not bind himself to accept the lowest or any tender, and reserved the right to select one or more items of the tender without reference to other items of the tender and the tenderer will be required to supply any items of items so selected at the rate or rates tendered.
29. The prices quoted shall be firm and no variation will be allowed on any account.
30. **The tenderer shall quote only for one make & model of chassis as well as compactor unit**, i.e., the tenderer cannot collaborate with more than one company at a time. In case of tenderer submits the tender with collaboration of more than one company, **the tender will be rejected outright**. However, the tenderer may submit alternative offer in to with same make and collaboration with indigenous; partly imported, fully imported components and assemblies. Separate schedule "E" i.e., schedule of quantity and rates should be used or each alternatives. However, the responsibility for supply of quality product duly tested and certified rests with principal manufacturer.
31. The tenderer in their offer shall clearly mention whether the compactor will be manufactured indigenously fully or partly. In case the same is to be manufactured partly the list of components and assemblies to be indigenously made and those imported shall be clearly stated in the Annexure "D". The equipment should be indigenously manufactured/assembled.
32. The work of fabrication of compactor if done locally shall be carried out under the direct supervision of representatives of the principals / collaborators. A letter to that effect in original from the principal / collaborator shall be attached with the tender or else the tender will be rejected.

Signature of Tenderer

33. If the successful tenderer brings the components in CKD form from the principal / collaborator, the tenderer should assemble these components strictly under the supervision of the principal / collaborator in assembled condition and mount the same on the chassis in their workshop. A certificate to that effect will have to be produced from the principal / collaborator at the time of submission of the tender. The list of components which will be obtained from the principals and those manufactured locally shall be clearly stated in the tender.
34. The tenderer should clarify the type of body to be mounted with its drawing to the chassis manufacturer so that the chassis manufacturer can offer suitable chassis for the said design. The tenderer shall be fully responsible for procurement of suitable 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 should be such that it can be mounted on the standard chassis manufactured by the chassis manufacturer. The tailor made chassis for the purpose will not be accepted.
35. The tenderers shall submit layout dimensional drawings, literature, brand name, ISO certification no (if available) along with the tender. The successful tenderer will be required to submit detailed technical and dimensional drawings with materials specifications and weight calculations within 15 days from the receipt of order or acceptance letter. However the submission of such drawing and approval thereof will not absolve the successful tender from his responsible of complying of the contractor. Delay in submission of drawing or its approval will not be considered for extension of delivery period.
36. Tenders containing contradictory onerous and vague stipulations and hanging conditions such as "Subject to prior sale" "Offer subject to availability of "Stock" "Offer subject to confirmation at the time of order" "Rates subject to Market Fluctuation" etc., are liable to be rejected out rightly.
37. The tenderer shall quote for complete job. The tender which does not include the complete job as specified in schedule of quantities will be rejected.
38. The Corporation of Chennai will not provide any Import License or any other such type of Licenses for the supply of compactors and the bins.
39. The increase in statutory taxes or any other Govt. Levies will be accepted only against production of documentary proofs.

Signature of Tenderer.

40. The tenderer shall note that any claim, dispute or difference arising in respect of contract the cause of action there shall be deemed to have arising in Chennai and all legal proceedings in respect of any such claim, dispute or Difference shall be instituted in a competent court in Chennai only.
41. The tenderers shall submit layout dimensional drawings, literature, and brand name, ISO Certification number (if available) along with the tender.
42. The increase in statutory taxes or any other Govt. Levies will be accepted only against production of documentary proofs.
43. The tenderer shall note that any claim, dispute or difference arising in respect of the contract the cause of action there shall deemed to have arising in Chennai and all legal proceedings in respect of any such claim, dispute or difference shall be instituted in the competent Court in Chennai city.
44. The tenderer should quote separately for O & M, failure to do so the tender shall be rejected.

Signature of tenderer

## **GENERAL:**

### **1. R.T.O. Requirements**

The tenderer has to take necessary care of insurance, registration and FC etc., of the vehicle till the final handing over. The tenderer has to observe RTO restrictions regarding height, width and overhang of equipment and the tenderer shall make his own arrangement to get the vehicle registered permanently from RTO Chennai as per latest emission norms. **All necessary fees like registration fee, FC Fees, Insurance premium etc., will be refunded on production of necessary challan.** The vehicle with the Compactor has to be registered at Chennai RTO's.

### **2. Guarantee**

The complete equipment including rubber parts, seals, hoses, cylinders and other hydraulic equipments shall be guaranteed for 12 months from the date of commissioning of equipment. The tenderer will have to give the maintenance guarantee. Any damages defects are observed during this guarantee period, the same shall be made good by the tenderer at his own cost.

### **3. Technical Detail**

The following details of the Compactor equipment shall be supplied by the tenderer along with the tender cover "A"

- a) The General description of the equipment
- b) The drawing of the equipment
- c) The continuous working capacity.
- d) The compaction ratio expected to be achieved.
- e) The details of hydraulic oil to be used. ( The Oil grade shall be that manufactured by Nationalised Oil Companies )

The tenderer will have to supply the following with the vehicles;

- |   |   |         |
|---|---|---------|
| a. Workshop manual for chassis  | - | 06 nos. |
| b. Spare parts catalogue for chassis                                  | - | 06 nos. |
| c. Workshop manual for Compactor with preventive maintenance schedule | - | 06 nos. |
| d. Spare parts catalogue for Compactor                                | - | 06 nos. |
| e. Price List for all the components of the Compactor equipment       | - | 06 nos. |

### **4. Availability of spares**

The tenderer shall state the details of availability of spares after completion of guarantee period and name of the authorised dealers etc., from where the genuine spare parts can be obtained.

Signature of tenderer

## **Payment for the equipment**

The following payments shall be released after supply of the fully built compactor equipment after Registration, F.C, and other RTO formalities have been completed:

- a) 70% of the chassis cost only will be paid to the tenderer on production of Invoice in the name of Commissioner, Corporation of Chennai
- b) The 90% payment (of cost of compactor equipment plus cost of chassis less 70% of the cost of the chassis) will be made within 30 days of registration of vehicles in the name of Commissioner. Corporation of Chennai
- c) The balance 10% payment will be released only after 60 days after Confirmation that the vehicles are adhere to Technical Specifications in actual use.

## **8. Inspection**

- 1.1 The department or its representative shall have right to inspect and / or to test the Goods to confirm their conformity to the Contract. The special conditions of contract and / or the Technical Specification shall specify what inspections and tests the supplier will carry out, in writing to the identity or any representatives retained for these purpose.
- 1.2 The inspections and test may be conducted on the premises of the supplier or manufacturer or it subcontractor(s) at point of delivery and / or at the Goods final destination. Where conducted on the premises of the Supplier or manufacture or its subcontractor(s), all reasonable facilities and assistance including access to drawings and productions data shall be furnished to the inspectors at no charge to the department. Any to & fro traveling and stay on duty for carrying out such inspection by the purchaser's representatives shall be to the supplier's account.
- 1.3 Shall any inspected or tested goods fails to conform to the specifications, the Department may reject them and the supplier shall either replace the rejected goods or make all alternations necessary to meet specifications, requirements free of cost to the department.
- 1.4 The department's right to inspect, test and where necessary , reject the Good's arrival at the departments destination shall in no way limited or waived by reason of the Goods having previously been inspected, tested and passed by the department or its representative prior to the Good's transportation from the manufacturer's workshop or godown.

Signature of tenderer

- 1.5 Nothing in above in any way release the supplier from any warranty or other obligations under this contract.

The successful tenderer will arrange for the inspection of the compactors at their works at the following stages;

1. Completion of structure
2. Completion of paneling and mounting of tailgate
3. Completion of painting
4. Final trial with actual load

- 1.6 All the inspection Expenditure will have to be borne by the tenderer.

- 1.7 The successful tenderer will have to produce a certificate at the time of inspection from the steel manufacturers or reputed laboratory regarding the quality and type of steel supplied. In case of important equipments a certificate from the principals / collaborators or MOC certificate shall be produced.

- 1.8 The vehicle should at least have capacity to work 16 hours continuously without any break per day

**1.9 Insurance**

The Goods supplied under the contract shall be fully insured in a freely convertible currency against loss or damage incidental to manufacture or acquisition, transportation, storage and delivery in the manner specified in the Special conditions of Contract

Signature of tenderer.

### **SPECIAL DIRECTION TO THE TENDERERS**

1. The work involves fabrication, erection, supply and commissioning of Garbage compactors having minimum 6 Cu.M capacity mounted on suitable LMV 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. The machine shall have mechanised container loader system operated hydraulically.
4. The compactor shall be built to withstand the strength and vibration of the roads as well as those at landfill site. The tenderers are requested to see landfill site in order to ensure the conditions under which the vehicles are expected to operate.
5. All moving parts shall be provided with adequate means of lubrication by providing nipples etc. All reciprocating parts shall be suitably guarded
6. The equipment shall be capable of being operated under average conditions for at least 8 hrs. Continuously without any ill effects on its component
7. The refuse compactor will meet the requirement of Motor vehicle Act 1989 with the latest emission norms, if any.
8. The compactors offered shall be about to give a compaction ratio minimum 1: 2
9. The tenderer will have to give the demonstration of the compactor offered whenever called for by the department
10. The tenderer shall offer the equipments/components of the makes stated in the specifications. If any deviation is made the tender is likely to be rejected. However imported components shall be approved by principals and international organisation with certificates.
11. Every part of the equipment including rubber hoses shall be guaranteed for a period of one year.

Signature of tenderer.

12. **The rates quoted for chassis shall be DGS& D rates or special rates applicable to the Government Departments. The certificate regarding the same from the vehicle manufacturer or their authorised dealer shall be attached along with the offer. The rates quoted shall be Ex-Chennai and no entry tax will be paid by the department.**
13. The rates applicable to the Govt. department at the time delivery for the chassis will be accepted subject to production of a certificate from the manufacturer regarding the prevailing price of the said chassis.
14. It will be the responsibility of the tenderer to collect the chassis from the regional sales office of the manufacturer or their authorised dealer and transport the same to their workshop. Any charges applicable for the same shall be included in the tender.
15. It will be the responsibility of the tenderer to deliver the vehicle after the completion of the fabrication of the Compactor equipment to Chennai. The charges applicable for the same including Octroi if any shall be included in the tender.
16. The prices for the equipment shall be inclusive of all taxes & duties namely, Custom duty, Excise duty, Octroi duty. Transit insurance, incidental and other expenses, extra fitment etc, however any change in statutory levies / charges after award of work may be accepted.
17. The successful tenderer will be fully responsible for the safety of the chassis when in their workshop. The successful tenderer will take out the necessary insurance, for risk against fire, theft, etc., the successful tenderer will have to sign an indemnity bond on the stamp paper in this regard.
18. 70% of the chassis cost only will be paid to the tenderer on production of Invoice in the name of Commissioner, Corporation of Chennai and necessary certificates to state that the prices are DGS & D or Special Government prices.
19. **The delivery of the compactors will have to be given at South Chennai Depot , No.30, Adhithanar Salai ,Chennai 600 002**

Signature of Tenderer.

## SPECIFICATIONS FOR COMPACTOR EQUIPMENTS

### II DETAILED SPECIFICATIONS;

#### A. VEHICULAR CHASSIS

The vehicular chassis supplied shall be as per following specifications for mounting Compactor Equipment suitable for use with containers as per specifications attached.

Make of Chassis	:	Any suitable Chassis
Type	:	Full forward only. Single axle at the rear.
Engine	:	4/6 Cylinder water cooled engine developing suitable BHP. The engine shall be operated with diesel as a fuel and shall meet recent emission norms. A certificate to this effect shall be produced from the manufacturer.
Wheel Base	:	of suitable Wheel Base
G.V.W.	:	Around 8 Tonnes minimum
Tyres sizes	:	Suitable size.
Gear Box	:	5 forward and 1 reverse gear (Synchromesh)
Fuel Tank	:	Capacity of 100 litres (Approximate)
Starter / Alternator	:	Lucas or equivalent make only
Battery	:	Exide / AMCO / Amaron or equivalent make only
Wheel Base	:	Suitable to accommodate drivers cum- attendant compartment and compactor body of 6 Cub.M without exceeding the permitted over hang, as per RTO Norms.
Drive	:	Right Hand Drive only
Steering	:	Power Steering only
Brakes	:	Full Air Brakes with Air dryer kit and automatic slack Adjuster
Requirement of Spares: & Tools	:	1. Spare Wheel Rim with spare Tyre and Tube 2. Free Service Coupons 3. Hydraulic Jack & Tool Kit

Signature of Tenderer.

The rates quoted for the vehicular chassis shall not be more than the DGS & D rates if available or rates applicable to Govt. Departments including transportation to Chennai. The letter from the manufacturer conforming the DGS & D or special Govt. Prices quoted shall be attached. Tenderer shall purchase the chassis from the authorised dealer or the manufacturer. No Entry Tax will be paid by the Corporation. However payment for chassis will be made by COC on production of Invoice and necessary certificates. The tenderer shall make their own arrangement to take delivery of chassis from the dealer and transport it to their work place at no extra cost to Corporation of Chennai.

The excise duties, taxes, Octroi, transportation charges, fuel, freight and insurance charges shall be clearly specified. No Octroi exemption form shall be supplied by Corporation of Chennai.

The tenderer should quote for suitable models Chassis having engine meeting emission norms presently in vogue.

#### **COMPACTOR EQUIPMENT:-**

#### **CONSTRUCTION:**

##### **General:-**

The rear loading compactor shall be mounted on suitable chassis. The compactor shall comprise of three main parts.

- a) The body and Ejector plate
- b) The tailgate and compaction hydraulic unit at rear body.
- c) The bin lifter unit.

The packing system will comprise of two moving plates the packing plate and the sweeping plate. The packing plate will travel on cured track. At the end of this track the sweeping plate will be activated and clean the hopper. At the end of its travel the packing plate will reverse its travel thus drawing and compressing the refuse into the body. The tailgate shall be provided with a hydraulic universal bin lifter which shall be suitable to lift standard containers of size 120, 240 and 600 & 1100 ltrs.

#### **A. The Body & Ejector plate :-**

The body shall be with minimum capacity to carry 6 Cu.M. Garbage, the hopper shall be of suitable size to carry minimum 0.5 Cu.M. of garbage. The body shall be mounted on the chassis with the help of cross member and suitable 'U' bolts. The paneling of the body shall be as follows

- |             |   |                                    |
|-------------|---|------------------------------------|
| 1. Material | - | EN 24/2062 Steel IS Specifications |
| 2. Sides    | - | 3mm thick                          |
| 3. Flooring | - | Minimum 4mm thick                  |

Signature of tenderer.

The body shall be reinforced with equitable size channel at appropriate distance so as to with stand the compression force of the garbage. The complete structure shall be fully welded to with stand the compaction. The body shall be open at the rear end.

**B. Hydraulic System:-**

- a) Hydraulic pump : Suitable to be directly mounted on Power take off or on gear box (Shaft Connection between PTO & Pump will not be accepted)

**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 6 Cu.M
2. The equipment i.e. the compactor shall be suitable to carry pay load of minimum 6 tonnes.
3. The equipment shall be rear loading type and shall be able to load and unload 120,240 600 and 1100 ltrs. Containers Universal loading comb arm arrangement to be provided.
4. Arrangement shall be provided to manually load the vehicle also. **The height of hopper for manual loading shall not be more than 800 mm to 1000mm.**
5. The construction of the vehicle will consist of the body, the ejector system, the tailgate and hydraulically bin loading system
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 turn buckle one on each side to hold tailgate and body together.
8. **Grab handles shall be located on each end of the tailgate.** The tailgate shall be fixed with heavy duty pins at the top with the compactor body.

Signature of Tenderer.

9. The tailgate shall be provided with sturdy arrangement for raising and controlling of descent.
10. The tailgate shall be provided with one piece removal rubber gasket extending across the entire bottom width of the tailgate and vertically upto 600mm.
11. The operation of the tailgate mechanism shall include operation by two hands so that the possibilities of accidents are minimum
12. Hose burst non return valves shall be provided to prevent the tailgate descending in the event of hydraulic failure.
13. Standing platform should be provided on either side in the rear.
14. The packer plates shall be designed as per the specifications given.
15. 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.**
16. The packer blade shall be designed as per the specification given.
17. The packer blade shall be fitted with sturdy mounting to the cylinders.
18. There shall an inter lock valve fitted to prevent packing/occurring when the hopper is raised.
19. Arrangement shall be provide to control the speed of the engine automatically at the time of operation of Compacting system so that the sped is not depend on the throttle opening of the engine when the vehicle is stationery.
20. The ejector plate shall be suitably angled & so that proper ejection takes place when operated.
21. **Arrangement shall be provided such that the tailgate will not come down even in case of hydraulic failure**
22. **Pressure regulation switch shall be provided for setting desired pressure of telescopic cylinder on the ejector plate.** The regulation switch shall have a lock & key arrangement for pressure setting & for safety of the system.

Signature of tenderer.

**HYDRAULICS:-**

- a. The vehicle chassis shall be selected to mount hydraulic equipments easily
- b. Arrangement to have direct drive or shaft drive from P.T.O. to the hydraulic pump shall be made.
- c. P.T.O hydraulic pump and the hydraulic system fitted including valves shall be manufactured by reputed manufacturers like Wipro, U.T. Ltd./Dowty/ Vickers and equivalent.

The pump shall be directly coupled with power take off and shall develop sufficient pressure to operate the complete hydraulic system. The necessary valves shall be provided, so as to have the simultaneous operation of the system.

Suitable Hydraulic tank with Air breather-cum-filter shall be provided. The filter shall be provided at the inlet line and return line.

**SPECIFICATION FOR DRIVER – CABIN ;**

The Chassis shall be of standard make and fitted with standard cabin with all standard and mandatory fitments meeting all R.T.O. mandatory requirements.

**SPECIFICATION FOR THE COMPACTOR EQUIPMENT**

- 1. Compactor Capacity - 6 Cu. Metre
- 2. Compaction Ratio - Not less than 1: 2
- 3. Control Valves and Cylinders - To be of reputed Indigenous make
- 4. Control Valves of the following make
  - a. Dowty
  - b. Wipro
  - c. UT
  - d. Vickers or equivalent
- 5. Heavy duty hoses to be provided
- 6. Hopper capacity - 0.5 Cub. M.
- 7. Hopper height from ground level - not more than 1 metre
- 8. Both arm lifting and Comb arm arrangement for universal bin loading to be provided. The Bin loading arrangement should be capable of loading bins of the following sizes;

120 Litres / 240 Litres / 600 Litres / 1100 Litres

Signature of Tenderer.

## **MISCELLANEOUS**

- I. The cabin shall be provided and fixed with
  - a) Roof Light - 02 Nos.
  - b) Heavy duty Wiper Machine (Elgi Pneumatic) - 02 Nos.  
(With Arm & Blade)
  - c) Heavy duty Bracket type convex mirror - 02 Nos.
  - d) Extra wiring wherever necessary
- II. Suitable size battery box of 10 SWG aluminum sheet to accommodate two batteries shall be provided inside the cabin. The extra length of battery cable shall be provided by the tenderer.
- III. Stop lights, direction indicator lights and tail lamps shall be provided and fitted.
- IV. The dash board shall be fixed behind the steering wheel near driver's seat so as to enable him to see the dash board and also enable him to operate the switches without bending or stretching his hand too long.
- V. All controlling switches for lights, driver cab light and wiper machines shall be provided on dash board panel or near driver's seat to operate easily.
- VI. The cabin shall be painted externally and internally in IEL 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 cabin shall be painted with three coats of dulux paint or equivalent externally and internally. The colour scheme will be informed at the time of fabrication.

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

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

Signature of tenderer.

## **BIN LIFTER**

- I. The bin lifter shall be suitable to lift the standard containers of size 120,240, 600 & 1100 Lts.
- II. A control panel shall be installed at convenient position such that the working of hydraulic cylinder can be controlled safely. The arrangement shall also to provide to accelerate the automobile engine automatically from the rear.
- III. A safety valve shall be provided to avoid sudden descent of bin lifter in case of failure of hydraulic pressure.
- IV. Both arms type & comb lifting attachment to be provided.

## **OTHER EXTRA FITMENTS**

- a) Two Footsteps shall be provided one each on left and right side at the rear & Two Hand bars one on each side at the rear side shall be provided for the equipment operators to stand and travel when the compactor is moving.
- b) One large flashing light shall be provided in the front in the centre at the highest point so as to be seen clearly.
- c) Two emergency stop switches shall be provided on either side of the body to instantly stop the operation in case of emergency.
- d) A level indicator shall be provided to indicate hydraulic oil level in the tank
- e) The rear door shall be provided with packing so that fluid does not flow out.
- f) The necessary safety features shall be provided to safeguard the operators. The details of these features shall be clearly stated in the tender.
- g) All extra wiring will have to be carried out by the successful tender.
- h) The vehicle shall be provided with reverse horn so that it gives the indication at the time of reversing.
- i) Arrangement shall be provided to get an indication as soon as the garbage contained reaches its maximum (6 Cu.M which will be specified at the time of fabrication). Arrangement shall also be provided to stop the operating cycle as soon as the Compactor is full.

Signature of tenderer

Annexure – A  
Technical and infrastructure ability of tenderer

1.	Name of the Tenderer's firm/ company	
2.	Whether proprietorship / partnership / Pvt Ltd., / Ltd / Govt. / Semi. Govt. / Undertaking / any other	
3.	Names of proprietor / partners / directors / C.E.O. etc.,	
4.	Power of Attorney , if any	
5.	Address of the business with telephone / mobile / fax nos.	
6.	Address of the works / factory	
7.	Area of the works / factory	
8.	Line of business, manufacture & experience	
9.	Present deployed manpower; Technical Administrative Others	
10.	Name of the collaborator / principals / address & country of origin	
11.	Address & area of the workshop of the collaborator / principal / agents with M.O.U.	
12.	Name of the Bankers of the tenderer and their full address	
13.	Latest solvency certificate Bank Amount Date	

14.	Whether the tenderer is listed with Govt / Semi-Govt. Department. If so , details of Registration etc.,	
15.	Whether the tenderer or his partner or his principal / collaborator have been blacklisted by any of the Govt. / Semi Govt. department any time	
16.	<b>No. of similar compactors supplied by the tenderer with list of customers, quantity, year of supply and addresses during last 5 years.</b>	
17.	<b>No. of similar compactors supplied by the principal / collaborator of the tenderer with list of customers , quantity, year of supply and addresses during last 5 years</b>	
18.	<b>Details of mobile compactors working with various organizations as on 01.04.10 with list and addresses</b>	
19.	Turnover during last 5 years	
	Financial Year	
	2004-05	
	2005-06	
	2006-07	
	2007-08	
	2008-09	

Signature of tenderer

Annexure – B  
Details of the Collaborator

1.	Name of the company	
2.	Country of origin	
3.	Business address / works address	
4.	Sister concern or Tie-up in any other country	Yes / No
5.	If yes, Names and address	
6.	Year of incorporation of parent Co.	
7.	Year since manufacturing of similar units of compactors started	
8.	No. of similar units of compactors manufactured so far. Please give year wise breakup	
9.	Manufacturing capacity per year	
10.	List of customers performance certificates from different users during last 10 years	
11.	Details of authorised manufactures / distributors in Chennai ( India )	
12.	Details of after sales service of the manufacturer in Chennai ( India )	
13.	Details of authorised manufacturer's distributors	

Note: The above details should be obtained from the Collaborator duly signed and sealed and attach with the tender.

Tenderer's signature with stamp and seal

**ANNEXURE – C**

**CHASSIS DETAILS**

SL. No.	Description	Corporation of Chennai Specification	Offer
1.	Make	Suitable Chassis	
2.	Type	Full Forward	
3.	Engine	4/6 Cylinders meeting Emission norms presently in vogue	
4.	GVW	8 Tonnes Approx. minimum	
5.	Tyre Size	7.5 x 15 – 6 nos.	
6.	Gear Box	5 forward 1 reverse synchromesh	
7.	Wheel Base	Suitable to accommodate 6 Cu.M Compactor body	
8.	Brakes	Full Air Brake with Air Dryer kit and automatic Slack Adjuster	
9.	Emission Standard	Meeting Emission norms presently in vogue	

Tenderer's Signature & Stamp / Seal

### Delivery Schedule

The fully built Compactor mounted on suitable chassis after registration shall be delivered at the address mentioned within 60 days of receipt of order.

### Penalty

Subject to Force Majeure, if the supplier fails to deliver any or all of the goods or perform the services within the time period(s) specified in the contract, the department shall deduct from the contract price a sum equivalent to **0.5%** of the delayed goods for **each day** of delay up to **maximum** deduction of **10%** of the delayed supply or services. Once the maximum is reached the department may consider termination of contract.

### ANNEXURE – 'D'

#### List of components to be imported from the principal

Sl. No.	Description of Item	Make
1		
2		
3		
4		
5		
6		
7		
8		
9		
10		
11		
12		
13		

Signature of tenderer

ANNEXURE – ‘E’

1. The MoU should clearly designate one of the Consortium Member as the Lead Member
2. The Lead Member shall be responsible for ensuring the individual and collective commitment of each of the Consortium Members in honoring the Project Company’s obligations. The Lead Member would be overall responsible for the execution of the Project. The MoU should be duly signed by each of the Consortium Members.
3. The MoU should be executed on a non-judicial Rs.100/- stamp paper.
4. The MoU should be specific to this Project.
5. The MoU should be valid for a minimum of twelve months from the date of award of work. The validity period of the MoU should be extendible on the original terms , if required by Corporation of Chennai.
6. All members of the Consortium shall be liable jointly and severally for the execution of the project in accordance with the terms of the Concession Agreement and a statement to this effect shall be included in the MoU.
7. The MoU entered into between the members of the Consortium should be specific to the Project.

**EXHIBIT – 5 ; DESCRIPTION OF THE BIDDING COMPANY / BIDDING CONSORTIUM**

Name of the Bidding Company / Bidding Consortium	
Name of the Lead Member ( In case of a Bidding Consortium )	

**In case of a Bidding Consortium:**

<b>Sl. No.</b>	<b>Name of each Consortium Member</b>	<b>Proposed % equity contribution into the Project</b>	<b>Role as per the MoU signed by and between all the Consortium Members</b>

Tenderer’s Signature & Stamp/Seal.

## **COMPREHENSIVE MAINTENANCE OF COMPACTOR EQUIPMENT**

### **(INCLUDING CHASSIS)**

The equipment shall be fully guaranteed including all rubber parts and hoses for a period of one year. After the completion of delivery of the vehicle the tenderers will have to enter into a comprehensive maintenance contract for a period of 2 years for the equipment ( Including chassis ) as per the details given below. The chassis maintenance will also be carried out by the tenderer

- a) The scope of work includes routine maintenance of the machines and chassis as per manufacturer's guidelines. Therefore, it covers day to day maintenance of mobile compactor with prescribed level of maintenance service , adjustments, settings,etc., The preventive maintenance shall be carried out in a required sequence for which , trained personnels shall be appointed who are fully conversant with operation and maintenance including mechanical, technical electrical and hydraulic circuit system of the unit. and the chassis.
- b) **All spares/accessories including batteries & tyres shall be supplied by the successful tenderer. Only fuel (Diesel) shall be given by Corporation.**
- c) **The work includes replacement of normal routine items like oil and parts like pipes, nuts, bolts, washers and all electrical and hydraulic spares, etc and any other spare parts and items which are required to be changed under normal wear and tear. The spare parts and items which are required to be changed on account of established accidental damages and which cannot become part of routine maintenance will be supplied by Corporation of Chennai or the cost of such spare parts / items will be reimbursed by Corporation of Chennai on actuals. Such spares should be sourced only from the manufacturers or their Authorised Dealers; however, the labour charges shall be borne by the successful tenderer. The tenderer shall keep adequate essential parts / spares in their stock to render satisfactory services without any interruption.**
- d) All the spare parts supplied shall be original. The spare parts cost shall be charged as per the prevailing price list of the manufacture, only in case of accidentally damages. In case if the tenderer wants to add any taxes or other charges on the above price list the same shall be clearly stated in the tender. No variation in this respect will be allowed once the tender is finalized.,

Signature of tenderer

- e) The complete compacting equipment supplied shall have a guarantee of one year. However the routine preventive maintenance i.e., the replacement of consumables, like Filter, replacement / filtration of oil etc., will have to be carried out by the tenderer during the warranty period. The rates quoted shall include the cost for the said servicing and maintenance.
- f) All the old removed spare parts will have to be returned to the Corporation, in case of replacement of parts.
- g) In case of major servicing, the vehicle will be taken by the Tenderer to workshop of the tenderer. However, all the toll taxes required to be paid will be paid by the successful tenderer.
- h) The successful tenderer/ their authorised dealer shall have their own workshop.
- i) The work also includes the cost of labour, all parts, accessories, replacement of oil etc.
- j) The replacement of such parts will be carried out by the successful tenderer under the proper supervision and as per the recommendations of the manufacturers
- k) The Hydraulic Oil for topping up will have to be supplied by the successful tenderer and the Oil will have to be filtered and changed as per the recommendations of the manufacturers. The Oil grade used shall be that easily available in India.
- l) It will be necessary for the successful tenderer to submit periodical reports in hard copy of the maintenance works carried out for the vehicle.
- m) Necessary records showing maintenance of the compactors (with the chassis) shall be duly maintained. They shall be subjected to inspection as and when called for.

Signature of tenderer

- n) The successful tenderer shall see that their representative attends the faults regarding the Compactor within 24 hours, if he fails to do so a penalty of Rs.500/- per day will be charged to the contractor even if the vehicle is in operation
- o) Any damages to the Corporation and other properties while carrying out the work shall be rectified by the successful tenderer free of cost.
- p) Corporation of Chennai will not be responsible for any human accident or hazard if occurred to the person of the contractor while carrying out the work.
- q) The successful tenderer shall bring their own tools and accessories for carrying out the maintenance work.
- r) If the event of any vehicle being off road for more than 5 days, the tenderer should make suitable arrangements to provide another alternative Compactor on hire basis.
- s) In the event of the Tenderer not arranging for another compactor even after 30 days, then penalty to the extent of hiring charges for hiring private Lorries
- t) The successful tenderer will have to inspect and check all the hydraulic components of Compactor equipments once in a month irrespective of whether any problem arises or not. The programme for the same will be submitted to the department in advance. In addition to the above in case of any problems the tenderer will have to attend the work within 24 hours.
- u) **THE TENDERER SHALL QUOTE OPERATION COST ALONE FOR THE FIRST YEAR AND SECOND YEAR OPERATION AND MAINTENANCE COST SHALL BE QUOTED ONLY FOR SECOND YEAR. THE FIRST YEAR MAINTENANCE COST WILL BE FREE AS PER WARRANTY CONDITIONS.**
- v) THE TENDERER SHALL NOTE THAT THE COST OF OPERATION & COMPREHENSIVE MAINTENANCE QUOTED SHALL BE TAKEN INTO CONSIDERATION FOR EVALUATION OF TENDER.
- w) The successful Tenderer shall ensure the march-out of the equipment everyday. In case of non-march-out of the equipment /break-down of the equipment, the payment shall not be made.

Signature of tenderer

## **PENALTY FOR NON – OPERATION OF COMPACTOR**

The vehicle shall not be under repair for more than 24 hours. If after 24 hours the vehicle is under repair, then the tenderer has to pay penalty.

### **Penalty for Non-March-out:**

At the rate of Rs.500/day shall be imposed for every day's non-march out due to vehicle repair.

If the non-march out is due to vehicle repair, spare vehicle shall be provided and if the repair continues beyond more than 2 days, penalty shall be imposed at the rate of Rs.500/vehicle/day.

Every vehicle should be compulsorily water washed and lubricated once a week. Failure to do so, shall attract penalty at the rate of Rs.200/vehicle/week. Necessary documents for the same shall be maintained and certificate obtained from the specified officers. . Any penalty as and when imposed by competent authorities of Corporation shall also be deducted from the bills.

### **Payment for the Maintenance**

For **everyday** March-out payment shall be made as quoted. The payment shall be claimed every month after getting the bill duly certified by AE/JE and AEE (M) of North Chennai/South Chennai Depot or operating depots to which the compactor is attached.

Signature of tenderer