

MUNICIPAL CORPORATION SHIMLA

“E-Procurement”

SHORT TERM E-TENDER NOTICE

No. MCS/CHO/2019-1306

Dated: 10-07-2019

Online tender are invited for the purchase of below mentioned items by the **Corporation Health Officer**, M.C. Shimla-1 on behalf of Municipal Corporation Shimla in the form of electronic tendering system in two covers from the experienced contractors/firms/supplier who can supply all the below items.

SUPPLY OF SPECIAL PURPOSE VEHICLES/ EQUIPMENTS					
Sr. No.	Description of works	Quantity	Estimated cost	Earnest Money (In Rs./-)	Cost of Tender form
1	SPECIAL PURPOSE VEHICLE MOUNTED VACUUM ASSISTED ROAD SWEEPER, WITH 4.5 TON MINI. GVW CHASSIS (MAHINDRA DI 3200).	1			
2	THREE IN ONE MACHINE FOR SEWER CLEANING JETTING SYSTEM(1500 LTR TANK CAPACITY), GRABBING SYSTEM, RIDDING SYSTEM, WITH 4.5 TON GVW CHASSIS (MAHINDRA DI 3200)	1			
3	SKID MOUNTED LITTER PICKING MACHINE + RODDING MACHINE WITH DG AS PER OUR TECHNICAL SPECIFICATION WITH MAHINDRA PICKUP BMT.	1	Rs. 199 Lacs	Rs. 4.0 Lacs	Rs.1000/-
4	SPECIAL PURPOSE VEHICLE MOUNTED REFUSE COMPACTOR 14 CUM MACHINE, MOUNTED ON 16 TON GVW CHASSIS (WITH TATA/BHARAT BENZ 1617/ EQUIVALENT)	1			
5	DUMPER (4.5 CUM) SUITABLE FOR REFUSE COMPACTOR 14 CUM MACHINE - SPECIAL PURPOSE VEHICLES	20			

1. Tender documents and other instructions can be downloaded or viewed online from the portal <https://hptenders.gov.in> by the firms/individual registered on the website which is free of cost

2. As the bids are to be submitted online they are required to be encrypted and digitally signed. The bidders are advised to obtain Digital Signature Certificate (DSC) from suitable vendors or from any authorized agency at the earliest.

3. Key dates are as under:-

1	Date of online publication	Online bidding	11.07.2019 at 5.00 PM
2	Downloading of e-tender Documents	Online bidding	From 11.07.2019 at 05.00 PM to 25.07.2019 up to 11 .00 AM
3	Date of submission of e-tendering	Online bidding	From 11.07.2019 at 05.00 PM to 25.07.2019 up to 11 .00 AM
4	Physical submission of Earnest money Deposit in shape of FDR/CDR and cost of tender documents payable at Corporation Health Officer, M.C. Shimla-171001.	On line bidding	Up to 11.00 AM on 25.07.2019
5	Date of Opening of bid	Online	02.30 PM on 25.07.2019

Tenders will be opened in the presence of the contractors or their authorized representatives, who may like to be present at the time of opening of the tenders.

Terms and conditions:-

The e-tender documents shall be uploaded online in two covers:-

- **Technical Bid (Cover 1):** shall contain scanned copies of “eligibility” information
- **Financial Bid (Cover 2):** shall contain “Financial Bid “on the prescribed form.

TECHNICAL BID (Cover 1): shall contain scanned copies of following eligibility information (Scanned copies to be uploaded in PDF file)

- i) The earnest money in the shape of Demand draft or fixed deposit duly pledged in favor of **Commissioner, M.C. Shimla-1 payable at Shimla** or certificate of exemption of earnest money deposit. In the event of said exemption an affidavit

regarding number of tenders in which he/they participated and total value of their earnest money involved be uploaded with the tender documents in case he/they gives false information, he/they will be liable to be blacklisted. The bidders should also produce their exemption of earnest money letter (if any) or earnest money in shape of Demand Draft/ FDR as mentioned above at the time of purchase of tender form. EMD is exempted for the suppliers/ Vendors/ OEM registered with MSME/SSI/ Udhdyog Aadhar and proof of registration shall be uploaded with tender documents.

- ii) The cost of form as mentioned above in the shape of demand draft / in case in favour of **Commissioner, M.C. Shimla-1** payable on any nationalized bank at Shimla.
- iii) Certificate of registration with MCS/IPH/PWD Department in appropriate class and latest renewal thereof. If the contractor/ firm is not registered with MCS/IPH/PWD Department in that case registration has to be got done before the award of work order
- iv) Income Tax Return for the last three years.
- v) Sales tax registration and latest clearance certificate thereof.
- vi) The Contractor/supplier would provide PAN/GST number as applicable
- vii) The Contractor/firm shall have valid authorization from manufacturer/ Dealer/Distributor otherwise same will be rejected.
- viii) The conditional tenders shall not be accepted.
- ix) The Manufacturer should have executed two work of similar nature, in the recent past in the last 3 years. Proof of supply/ work to this effect shall be uploaded in Cover 1 i.e. Technical Bid.
- x) The Contractor/ Firm should have GST Registration in Himachal Pradesh for supply/ billing of the items.

FINANCIAL BID (Cover 2): shall contain BOQ where contractor will quote his offer for each item. The rates should be quoted FOR Shimla exclusive of all taxes

- 4. The tenders of the contractor/firms who fail to fulfill the eligibility information (as per cover -1: TECHNICAL BID) will be summarily rejected.
- 5. The contractor will submit the attested documents as per TECHNICAL BID (cover -1) along with original Demand drafts/FDR for EMD and Demand Draft for the cost of Tender Form in the office of the **Corporation Health Officer, M.C. Shimla-1** on or before **25.07.2017 at 11.00 A.M.**

6. The offer of the tender shall remain valid for 90 days after the opening.
7. The vehicles/equipments should be able to be used in Shimla. The representative of the contractor/firm can inspect the site/topography himself and make conversant with the site conditions, if required.
8. If opening day is a holiday, the tenders shall be opened on the next working day at the same time.
9. The Special Terms & conditions are attached separately with this tender.
10. The undersigned reserves the right to reject (any or all the tenders without assigning any reason)

Corporation Health Officer
M.C. Shimla-171001
(Office contact No. 0177-2802771 (Ext.

TERMS AND CONDITIONS

Name of Work: SUPPLY OF SPECIAL PURPOSE VEHICLES/ EQUIPMENTS.

1. Commissioner reserves the right to accept or reject any or all the tender without assigning any reason thereof.
2. The work should be completed within stipulated period as mentioned.
3. The work will have to be done as per the specifications provided in the tender for each vehicle/equipment/item
4. Labour cess, Income tax & State sale tax (whatever applicable) will be deducted as per the rules in force of the Govt.
5. Quoted rates for all items should exclusive of GST. The rates should be inclusive of transportation, Toll Octroi for the delivery upto Shimla, complete in all respect and nothing will be paid extra on this account and incomplete tenders shall be rejected.
6. Validity: - The offer shall be valid for 90 days from the date of opening of tender.
7. Registration of work Contractor/supplier under the H.P .General State Sales Tax 1968:- The work shall be awarded only to such Contractor/suppliers who are registered with state sales tax department. Attested copy of state sale tax registration No. of state of H.P. must also be furnished with the tenders failing which contract shall not be awarded.
8. Certificate of registration with MCS/IPH/PWD Department in appropriate class and latest renewal thereof. If the contractor/ firm is not registered with MCS/IPH/PWD Department in that case registration has to be got done before the award of work order. Conditional tender shall not be accepted.
9. Material shall be supplied after getting the dispatch clearance by the department.
10. The supply can be started within 15 days after the award of the work Order.
11. Guarantee: - 12 months from the date of supply/commissioning. In case any defect is found within guarantee period the same will be replaced by the Contractor/supplier free of cost at the site of work within one week
12. The Contractor/supplier would provide PAN/GST number as applicable.
13. The Contractor/supplier shall be responsible for safe delivery of the material at site within 45 days of the supply order and shall arrange transit insurance prior to dispatch.
14. The firm/Contractor/supplier shall submit the certificate regarding similar nature of supplies/work done.
15. The payment schedule shall be discussed with the eligible Contractor/supplier during negotiation

SPECIAL PURPOSE VEHICLE MOUNTED VACCUM ASSITED ROAD SWEEPER WITH 4.5 TON MINIMUM GVW CHASIS (2CUM CAPACITY)- (MAHINDRA DI 3200)

Generic Parameters

Type of Road Sweeper	Truck Mounted Sweeping Machine
Main Engine Capacity (cc)	2523
Make of Chassis	Mahindra DI-3200
Type of Chassis Frame	As per OEM standard.
Category of Vehicle for which Chassis to be used	Light Capacity Commercial Vehicles
Type of Chassis	Chassis without face cowl
Type of Fuel	Diesel
Vehicle Emission Compliance	BS-IV
Fuel Consumption	As declared/certified by OEM.
Speed, Max (Km/Hr)	80
Max Engine Power BHP (BHP@rpm)	68
Max Engine Torque (N-M@rpm)	182
Main Engine Aspiration	Natural Aspiration
No of Cylinder in Main Engine	4
Fuel Tank Capacity (Ltrs)	60 liter
Width of Chassis (mm)	1700 millimeter
Gradeability of Vehicle with load(%)	20
Gradeability of Vehicle without load(%)	20
Ground Clearance (mm)	190 millimeter
Wheel Base (mm)	2654 millimeter
Kerb Weight (kg)	1840 kilogram
Gross Vehicle Weight (kg)	4850 kilogram
No of Axle	2
Axle Configuration	4x2
(No of Outside Tyre x No of Driving Tyre)	
Type of Front Axle and Suspension System	STANDARD AS PER OEM
Type of Rear Axle and Suspension System	STANDARD AS PER OEM
Type of Vehicle Tyre	Tube
Size of Front Tyres (mm)	177.8 millimeter
Size of Rear Tyres (mm)	177.8 millimeter
Chassis Transmission System	Manual
No. of Speed/ Forward Gears	5
Type of Steering	Power Operated
Turning Radius,Min (mm)	5950 millimeter
ABS Fitted	No

Front Vehicle Brake	STANDARD AS PER OEM
Rear Vehicle Brake	STANDARD AS PER OEM
Type of Clutch	STANDARD AS PER OEM
Sweeping Speed (Km/Hr)	5

Certification

Chassis Certification ARAI/VRDE/ICAT No.	To be provided
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Performance Parameters

Battery Warranty (Months)	12 month
Warranty Distance unlimited during warranty period(km)	Yes
No. Of Free Service	3
Standard Sparewheel with carrier mounted on chassis and Tool Kit	Yes
Warranty Time (Months)	12 month

Constructional Parameters

Length of Chassis (mm)	4634 millimeter
Height of Chassis (mm)	2210 millimeter
Size of Wheel (mm)	177.8 millimeter
Speed Governors	Yes
Auxiliary Diesel Engine for Hydraulic and Pneumatic Operation	Yes
If Yes Auxiliary Diesel Power (HP@rpm)	50
Auxiliary Diesel Engine Transmission	BELT
Auxiliary Diesel Engine fuel tank Capacity (Ltrs)	50
No. of Cylinders in Auxiliary Diesel Engine	3
No. of Centre Brush in Sweeping System	1
Diameter of Centre Brush (mm)	300 millimeter
Material of Centre Brush	POLYPROPYLENE
No. of Side Brush in Sweeping System	2
Side Brush Diameter (mm)	400 millimeter
Main Broom Diameter (mm)	300 millimeter
Main Broom Length (mm)	600 millimeter
No. of Main Broom	1
Main Broom Material	POLYPROPYLENE
Sweeping Width (mm)	2200 millimeter
Hydarulic System	Yes
Pneumatic System	Yes
Dust Collector Container capacity (Cu-m)	2
Dust Collector Container Material	Stainless Steel
Thickness of sheet from Dust Collector Container Made (mm)	3 millimeter
Type of Filter used in Dust Control	FILTER AIR BAG

Tipping Angle (Degree)	55
Dumping Height (mm)	1100 millimeter
Collector Mechanism	Vacuum based
Blower Speed (RPM)	2400
Blower Rating (m ³ /min)	150
Suction Hose (meters)	4 meter
Water Jetting Pump(Pressure Type)	Yes
Water Pump Pressure (Bar)	10
Water Tank Capacity (Ltrs)	500 liter
Material to be used in manufacturing of water tank	Stainless Steel
Thickness of Sheet to be used in water tank (mm)	3 millimeters
Spray Location	On each brush
Engine Oil Pressure Level Indicator in Control Panel	Yes
Engine Cooling Liquid Temperature Indicator in Control Panel	Yes
Fuel Gauge Indicator in Control Panel	Yes
Operating Hour Meter	Yes
Locking/Unlocking of Rear Dumper Discharge Container	Yes
Lowering/Lifting of Rear Dumper Discharge Container	Yes
Counter Weight	No
If yes Counter Weight (kg)	0 kilogram
Paint	As per requirement of MC Shimla.

**SPECIAL PURPOSE VEHICLE: THREE IN ONE
MACHINE FOR SEWER CLEANING JETTING
SYSTEM(1500 LTR TANK CAPACITY), GRABBING
SYSTEM, RIDDING SYSTEM, WITH 4.5 TON GVW
CHASSIS (MAHINDRA DI 3200)**

Jetting Machine:

Sr. No	Category	Component / sub assemblies	Parameter	Rating/Value/Size
1	Features	Jetting Pump	Type	Triplex plunger pump
			Displacement	Reciprocating positive displacement
			Drive	Hydraulic
		Jetting Hose	Dia./Length/Qty./Type	(3/4")/60 mtr/01 nos./Thermoplastic
		Jetting Nozzle	Size/Shape/Qty.	(3/4")/Round/01
			Size/Shape/Qty.	(3/4")/Conical/01
		Hose reel	Drive	Low speed high torque hydraulic motor.
			Type	Fixed
		Tank	MOC	S.S.
		Hyd. Pump	Type	Gear type
			Drive	Aux. output of SSU
		Tank	Volume	1500 ltr.
		Jetting Pump	Flow / Pressure / Power	122to153LPM/130to160bar/50hp
		Jetting Hose	Max. Working Pressure	172 bar
			Min. Burst Pressure	430 bar
		Split shaft pto	Throughput Torque	200 kgm.
No.of Auxiliary Outputs	2 nos.			
Hyd. Pump	Displacement/rpm	43 cc/rev/1500 rpm		
2	Safety	Water level indicator	Type/Qty	Tube type/01 nos.
		Water filtration system for Jetting pump	Type	Inline water filter

3	Mounting	Chassis	GVW	4.85 Ton Min.
			Emission Norms	As per Local RTO
			Chassis Engine output	Min. 68 HP
			Driver's Cabin Type	Day Cabin
			Make/model/wb/hp/Side PTO Provision	Mahindra JAYO DI3200
			Side PTO Provision	Provision required
			Fuel	Diesel
4	Dimensions	Equipment	Equipment length	2888 mm approx.
			Equipment height	1576 mm approx.
			Overall width	1700 -2000 mm approx.
			Overall height	2346 mm approx.
			Equipment rear over hang	930 mm approx.
			Overall Length of Vehicle	4560 mm max.
5	Painting	Surface preparation and finish	Equipment's Exterior	Spray-painted with two coats of superior quality anti-corrosive primer and two coats of enamel metal paint .Colour code will be as per direction of MC Shimla

Grabbing System:-

S r. N o	Category	Component/ sub assemblies	Paramete r	Rating/Value/Size
1	Features	Boom arm	Type	Telescopic and Hydraulic slewing type
		Container	Application / Type	Storage of Silt / Tipping type
		Wire rope	Type	Galvanised
			Storage	Wire reel of min 195 mm dia
		Hyd. Pump	Displacement/rpm	16.77 cc/rev/1500 rpm
		Hydraulic Grab	Bucket Capacity	15 ltrs.
			Max.travelling depth	20 ft for Manhole
			Manhole Dia.	2 Feet. Min.
			Hydraulic hose/Storage	¼" X 40 ft /pressed steel hose drum
			Drive	Hydraulic motor through a gear box.

			De-silting grab fork type	Hot deep galvanized
		Manual Grab	Bucket Capacity	05 Ltrs.
		Boom arm	Lifting angle	45° degree
			Slewing angle	90°degree
		Container	Volumetric Capacity	150 ltrs.
		Hyd. Pump	Type	Gear type
			Drive	Aux. output of SSU
		Grab and bucket arrangement	Type	Hydraulically operated
2	Mounting	Chassis	Type	Suitable to jetting machine
3	Painting	Surface preparation and finish	Equipment's Exterior	Spray-painted with two coats of superior quality anti-corrosive primer and two coats of enamel metal paint. Colour code will be as per direction of MC Shimla.

Rodding Machine:

Sr. No	Component/ sub assemblies	Parameter	Rating/Value/Size
1	Electric Motor	Type	Reversible Induction Motor
		Power / Voltage / Phase	0.5 HP / 220 V / Single Phase
		Cable /length	Suitable size copper cable with plug point /100 Mtrs.
		Storage for Electric Cable	Hose reel of 100 mtrs.
	Drive	Alternator	Suitable to drive 0.5 HP Motor / Power from Chassis engine.
2	Gearbox	Type / Gear ratio	Single speed / 12.11:1
3	Steel Rods	MOC	Chrome Vanadium material
		Qty. / Length / Dia.	100 nos. / 01 mtrs./ 8 mm dia.
		Manufacture std.	IS 1193 standard
		Storage for rods	Tray mounted on chassis
4	Standard Accessories (Rodding)	Accessory / Application	Rod spanner / To couple the rods
			Rod tightner / To tighten the rod
			Rod turner with two coupling / To rotate rods manually

			Push pull tool / To push & pull link of rods in & out of manhole
			Fishing tool / To remove hard material in sewer line
			Piston type tool for inspection of sewer line
5	Standard Tools (Rodding)	Accessory / Application	Single cork screw standard / for boring through sand, silt, gravel & roots
			Double cork screw / To pick up obstructions, such as grass root, rags & cans
			Auger flat / To clear out only sand & silt blocks, cut fibrous roots
			Sand borer / To permit bore pass through sand & clear blocks in the sewer line
			Spear point borer / To break bottle knock , Break bricks
			Drill point borer / when blockages are extremely hard
			Sand driller / To drill through hard blockages (size 45 & 65 mm)
			Adaptor / To join the rods
6	Equipment Mounting	Type	Trolley/ Trolley mounted.
7	Dimensions	Equipment length	1055 mm approx.
		Equipment height	676 mm approx.
		Equipment width	594 mm approx.

TECHNICAL SPECIFICATIONS FOR SKID MOUNTED VACUUM OPERATED LITTER PICKING MACHINE + RODDING MACHINE ON MAHINDRA PIK UP VEHICLE

SR. NO	DESCRIPTION	SPECIFICATIONS
1	Mounting	Vehicle Mounted
2	Chassis	Mahindra PIK UP (4x4) 1.2 GVW
	Pickup Hose	1.8 meter radius, extendable type
	Pickup Capability	paper, plastic bottles, broken glass, wet or dry leaves and twigs, and various other types of litter/MSW.
	Pickup Areas	Road Side. Parking lots, Along sense line, ditches and road shoulders & hill slopes.
	Debris Container	225 liters with heavy gauge GI Sheets
	Suction Hose and Boom	200 mm diameter, 3300mm long, plastic, spring wire reinforced suction hose with spring suction hose boom and extension quick connect hose kit 3.3 metre x 3 long with a 1.2 metre, light weight hose end suction nozzle with a quick connect coupling
	Vacuum System	Centrifugal Type Suction Fan with Impeller is manufactured from cast aluminum and is dynamically balanced for high speed running, the impeller speed being 2000 to 4000 rpm, variable. The airflow and velocity thus generated is 1100 L/sec and 33 m/sec respectively.
	Air Filtration	Rotating and self-cleaning type filter screen, constructed of high strength alloy steel incorporated in the path of the air flow.
	Drive System	A 13.0 Horse Power, electric start, air-cooled engine drives the directly mounted impeller. A10 litres fuel tank and a separate battery storage box will be provided. Technical Data of the Engine Make: HONDA/KAWASAKI/VANGUARD/KOHLER or équivalent Ignition: Key Ignition switch Throttle: Cable control

TECHNICAL SPECIFICATIONS FOR CABLING AND RODDING MACHINE

SR. NO	DESCRIPTION	SPECIFICATIONS
1	Mounting	Vehicle Mounted common with Litter picking
	Drive Type	Two Speed 0.5 HP 220 V, single phase, and reversible induction motor through a reduction gear box and belt
	Cable and Steel Rod	Chrome vanadium material section of the 8 mm dia. and 1 meter long, manufactured as per IS 1193
	Ratio	3.48: 1 / 12.11:1
	Overall length	1850mm
	Overall width	1050mm
	Overall height	1230mm
	Flexible cable capacity	4" to 12" (drain lines)
	Flexible cable	30 mm / 22 mm
	rod length	1000mm
	Generator	Reputed Make, 3 kVA, Petrolrun/ PTO

SPECIAL PURPOSE VEHICLE MOUNTED REFUSE COMPACTOR 14 CUM MACHINE, MOUNTED ON 16 TON GVW CHASSIS (WITH TATA/BHARAT BENZ 1617/ EQUIVALENT)

Generic Parameters

Vehicle Engine Capacity (cc)	5675
Vehicle Model No.	TATA LPT 1613
Pay Load Capacity (Tone Load)	11.25
Type of Fuel	Diesel
Vehicle Emission Compliance	BS-IV
Colour (Cabin) of the Vehicle	As Per OEM
Fuel Consumption (declared by OEM as certified by Test Agency under Rule 115of CMVR 1989) (Ltr/ Hours)	5
Max Engine BHP	135
Max Engine Torque (N-m)	490
Top Speed (Kmph)	80
Braking Distance (m)	32.8 meter
Gradeability of Vehicle (%)	21.25
Engine Aspiration System	Turbocharged Intercooled
Type of chassis for Vehicle	Truck Chassis
Fuel Tank Capacity (Ltrs)	225 liter
Type of Cabin	As per OEM
Load Body Type	Refuse Compactor
Trailer Type	Haulage
Ground Clearance (mm)	248 millimeter
Wheel Base (mm)	4225 millimeter
Kerb Weight (Kg)	4950 kilogram
Gross Vehicle Weight (Kg)	16200 kilogram
Type of Vehicle Tyre	Radial
No. of Front Tyre	2
No. of Rear Tyre	4
Size of BIS marked Front Tyre with Ply Rating	10.00 R 20 16PR
Size of BIS marked Rear Tyre with Ply Rating	10.00 R 20 16PR
Vehicle Transmission System	Manual
Drive Axle	Rear
No of Axle	2
Axle Configuration (No of Outside Tyre x No of Driving Tyre)	4 X 2
Type of Front Axle and Suspension System	As per OEM
Type of Rear Axle and Suspension System	As per OEM
No. of Speed/ Forward Gears	6
Type of Steering	Power Operated
Turning Radius (mm)	8400 millimeter
Type of Clutch	As per OEM
Type of Front Brakes	Full Air S-Cam
Type of Rear Brakes	Full Air S-Cam

CERTIFICATION

Vehicle Certification ARAI/VRDE/ICAT No	To be provided
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Constructional Parameters

Overall Length (mm)	8270 millimeter
Overall Width (mm)	2440 millimeter
Overall Height (cabin) (mm)	2837 millimeter
Type and Location of Shock Absorbers	As per OEM
Container Capacity (excluding hopper) (m3)	14

Color (Container)	As per MC Shimla directions.
Container Body Material	IS-2062
Roof panel thickness (mm)	3 millimeter
Side Panel thickness (mm)	3 millimeter
Floor thickness (mm)	4 millimeter
Hopper Capacity (m3)	2
Sewage Tank volume (Ltrs)	50 liter
Compression ratio	2.5
Universal bin lifting system	Yes
Dumper placer arms system	Yes
Tip cart/bin cart lifting system	Yes
Discharge model	Horizontal Ejection
Control	Electrically Hydraulic control
Emergency Stop Button	Hopper's Both Sides
Alarm (buzzer)	Yes
Stabilizers type	As per Standard
Power take off (PTO) type	SIDE PTO
PTO shaft rotation for hydraulic pump max.pressure (rpm)	1500
Manufacturer of Hydraulic system	ISO CERTIFIED
Replaceable filter to be provided in hydraulic system return line	Yes
Maximum pressure developed by hydraulic pump (bar)	240 bar
Max. Hydraulic fluid circulation rate of hydraulic pump (lpm@rpm)	87

Performance Parameters

Lift time (second)	20 second
Work cycle time (second)	50 second
Discharge time (second)	60 second
Lift capacity (Kg)	3500 kilogram
Max compression force (Tonnes)	280
Warranty Time (Months)	12 month
Warranty Distance (km) unlimited during warranty period	75000 kilometer
No. of Free Service	3

**TECHNICAL SPECIFICATIONS FOR 4.5 CUM
COMPACTOR BINS**

Sr. No	Description	Specifications
	Bin Capacity	4.5 m ³
	Bottom	5mm
	Side Straight	3mm
	Side Inclined	4mm
	Top Cover	3mm
	Overall Length	3086mm
	Overall Width	1948mm
	Overall Height	1358mm
	Bottom	1500mm
	Structure	Combination of ISMC 100, ISMC 75 and ISA 50
	Lift Pins	Suitable for lifting, unloading and placing with Compactor
	Surface Finish	Outside Two Coats of Red Oxide followed by two coats of synthetic enameled paint and Inside Two Coats of Epoxy Primer followed by two coats of Zinc Epoxy paint with shade as per direction.