



Office of the Kalyani Municipality

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Memo No. 7259 / KM

Date : 19 / 10 / 2022

EXPRESSION OF INTEREST **E.O.I. NO.- 03/KM/EC OF 2022-23**

Expression of interest for Budgetary Rate are invited from the experienced bonafide firms / suppliers / individual contractors for the Supply, Delivery, Testing and successful commissioning of Special Purpose Vehicle Mounted Litter Picker Machin Aux Engine Driven Mounted on 1.7 Ton Pay Load (BS-VI) Chassis and Special Purpose Vehicle Mounted Grabbing Machin Mounted on 1.6 Ton GVW (es-VI) Chassis as par Technical Details (Annexure: A & B) under Kalyani Municipality.

In the event of e-filling, intending bidder may download and submitted the documents through online also to be documented through e-filling from the website <http://wbtenders.gov.in> directly with the help of Digital Signature Certificate.

Last Date of submission of EOI -16/11/2022 and its open dt. 19/11/2022.

| Name of Work: | | Quoted Rate (Inclusive all Taxes & duties) | | |
|---|----------|--|----------------------|--|
| (A) Supply, Delivery, Testing and successful commissioning of Special Purpose Vehicle Mounted Litter Picker Machin Aux Engine Driven Mounted on 1.7 Ton Pay Load (BS-VI) Chassis and under Kalyani Municipality. (Annexure: A) | | Rate to be Quoted | | |
| (B) Supply, Delivery, Testing and successful commissioning of Special Purpose Vehicle Mounted Grabbing Machin Mounted on 1.6 Ton GVW (es-VI) Chassis as par Technical Details under Kalyani Municipality.(Annexure: B) | | Rate to be Quoted | | |
| (A) SPECIAL PURPOSE VEHICLE MOUNTED LITTER PICKER MACHINE, AUX ENGINE DRIVEN, MOUNTED ON 1.7 TON PAY LOAD CHASSIS , AS PER THE FOLLOWING TECHNICAL SPECIFICATIO | | | | |
| General | | The machine is a Chassis Mounted Litter Picker working on the principle of suction by Vacuum. The machine is engineered to perform\ Fitted with a standard litter pick-up hose, the equipment is capable of covering areas within 1.8 metres radius from the side of the machine. The reach for cleaning can further be extended by attaching an additional hose extension kit. The equipment is easy to operate in dry and wet condition. This system is to be capable of picking up paper, plastic bottles, broken glass, wet or dry leaves and twigs, garbage and various other types of litter. | | |
| Sr. No | Category | Component/ sub assemblies | Parameter | Rating/Value/Size |
| 1 | Features | Container Body | Type | Honeycomb design. |
| | | | MOC | MS Grade- A conforming to IS 2062 latest |
| | | | Collection Mechanism | Spillage free closed Containers |
| | | | hopper capacity | 1750 litters |
| | | Suction Hose | Type | Spring Wire Reinforced Suction Hose |
| | | | Diameter | 203 MM |
| | | | Length | 6 meter. |
| | | | MOC | Plastic |
| | | Suction System | Drive | Auxiliary Engine Driven |



| | | | Type | Impeller |
|--------|------------|--------------------------------|--|---|
| | | | Flow Rate | 3500 CFM |
| | | | Suction Pressure | 70-78 mBar |
| | | | Speed | 3000-3600 RPM |
| | | | Cleaning Type | DRY and WET |
| | | | Suction hose | Dia -203 mm |
| | | | Suction hose Type | Smooth Wall, wear, tear, acid and UV resistant, |
| | | | Suction HOSE material | Reinforced PU |
| | | | Boom Length | 2.2 meter (with inbuilt extension). |
| | | | Boom Operating Arc range | 250-300 deg. |
| | | | Collection Tool | light weight, with caster wheel |
| Sr. No | Category | Component/ sub assemblies | Parameter | Rating/Value/Size |
| | | Engine data | Power | 24 hp minimum |
| | | | Cooling | Water/oil cooled. |
| | | | Cylinder | 2 Cylinder |
| | | | Voltage | 12 volt |
| | | | Fuel | Diesel |
| | | | Diesel tank Capacity | 15-20 Ltr. |
| | | 3 stage Air Filtration system | <p>Stage 1:-Separation by interruption. Due to the airflow striking the deflector plate located just after the rear inlet port. The heavier debris is deflected downwards and gets separated from the air stream.</p> <p>Stage 2:-Separation by sieving. Achieved by directing the airflow through filter mesh fitted inside the container unit itself.</p> <p>Stage 3:-Filtration using Cartridge filter. The mesh/micro strainer is the final stage and a very essential part of the filtration system.</p> <p>Filtration Area (Sqm) : 36, Filter Media - Polyester</p> <p>Automatic Filter Clean without human intervention ----- Yes</p> | |
| | | Material Emptying System | Hydraulic Tipping, Tipping angle - 50 deg. Minimum. | |
| | | Rear Door Opening | Minimum - 80 Deg. Open | |
| 2 | Mounting. | Chassis | Pay Load | Minimum - 1.7 Ton |
| | | | Make/model/wb/hp | MAHINDRA / BOLERO PICKUP / 3264 mm/65 hp -With load body (1.7 ton payload) |
| | | | Make/model/wb/hp | Any other equivalent model of other chassis manufacturers |
| | | | Scope | Supplier |
| 3 | Dimensions | Equipment | Equipment length | A= 3500 mm(Max) |
| | | | Equipment height | B = 2050 mm(Max) |
| | | | Equipment width | C =1600 mm(Max) |
| 4 | 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 customer |
| | | | Tank's interior | Coated with 2 coats of superior quality anti-corrosive grey epoxy paint. |



(B) SPECIAL PURPOSE VEHICLE MOUNTED GRABBING MACHINE MOUNTED ON A 1.6 TON GVW (BS-VI) CHASSIS, AS PER THE FOLLOWING TECHNICAL SPECIFICATION

| Theory | | The truck chassis mounted Grab is capable of de-silting civil/industrial drains and sewer lines. The equipment consists of a Grab & Bucket arrangement also, specially designed to quickly and safely cleanout the silt and other waste matter from Manholes and any other Chambers located at depths of up to 20 feet, without necessitating man-entry. The collected silt and waste is transported to the designated disposal sites and emptied by means of tipping of the hopper. The machine is be capable of mechanically desilting man holes through grab system | | |
|---------------------------|--------------------------|--|---------------------------|--|
| Sl. No | Category | Component/ sub assemblies | Parameter | Rating/Value/Size |
| GRABBING SYSTEM | | | | |
| 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 |
| | | Hydraulic Grab | Bucket Capacity | 15 litres. |
| | | | Max.travelling depth | 32 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 galvanised |
| | | Boom arm | Lifting angle | 45° degree |
| | | | Slewing angle | 90°degree |
| Container | Volumetric Capacity | 250 litres. | | |
| Hyd. Pump | Type | Gear type | | |
| | Drive | Chassis side PTO | | |
| | Grab and bucket arranger | Type | Hydraulically operated | |
| 2 | Mounting | Chassis | GVW | 1.6 Ton |
| | | | WB | Min 2100 mm |
| | | | Emission Norms | BS-VI Or as per local RTO norms |
| | | | Make /Model/ WB/HP | TATA /ACE GOLD/2100mm/ 20hp |
| | | | Side PTO | Required |
| 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 customer / tender requirements. |
| | | | | |
| Documents to be submitted | | i) Trade Licence ii) Pan Card iii) P.T. iv) GST Registration v) Income Tax , vi) Credential are to be accompanied with the Technical criteria . | | |

19/10/22
Chairman / Executive Officer
Kalyani Municipality

19/10/22
Executive Officer
Kalyani Municipality