

**Director of Agriculture  
Bihar, Patna**

**Invitation of Tender**

Sealed tenders in prescribed format are invited only from ISO certified manufacturers or their authorized dealers who do business with ETHICAL and MORAL values, for the purchase of Mobile Soil Testing Laboratory (Van with instruments), under Directorate of Agriculture, Bihar, Patna.

Bids, complete in all respect should reach in the office of Joint Director (Chemistry), Soil Testing Laboratory, Bihar, Mithapur Farm, Patna-800001 latest by 12:00 hours on **13.02.2017**. The bids will be opened in the office chamber of the Director Agriculture, Vikash Bhawan, Patna-15 on the same day at 3:00 PM. Bidders themselves or their representatives may attend the meeting. Pre bid meet is also scheduled on **23 January 2017 (Monday) at 03:00 PM**

Note :-

1. Tender details are available on website: [www.krishi.bih.nic.in](http://www.krishi.bih.nic.in) and also at [www.prdbihar.gov.in](http://www.prdbihar.gov.in)

Director of Agriculture,  
Bihar, Patna.

**Government of Bihar**  
**Office of Director Agriculture**  
**Agriculture Department**

**LIST OF ANNEXURE FOR TENDER DOCUMENT**

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1	General Terms & Condition, EMD, PSD, After Sales Services, CMC, MSTL Van Terms & Condition, Detailing of Technical Bid Proforma, Quoting Rate, Detailing of Financial Bid Proforma, Opening of Offer date & address. Certificate by Bidder.	Main Body of the Document	2 -6
2	List of Minimum Technical Specifications of MSTL Van Body, AAS, Spectrophotometer, Digital Flame Photometer, Digital Conductivity Meter, Digital pH Meter, Soil Sample Crusher, Rotary Shaker, Electronic Balance, Hot Plate, Genset, AC, Stabilizer, Fire Extinguisher, RO, Laptop, Printer, Home UPS, Chemicals, Glassware & Plasticwares, Laboratory Articles with MSTL Van.	I	7 – 9
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**General Terms and Conditions**

1. Sealed tenders in prescribed format are invited only from bonafied and ISO certified manufacturer or their authorized dealers / registered suppliers who do business with ETHICAL and MORAL values, for the purchase of essential equipments / instruments only for the following items-

Group / Item No	Instruments/Equipments	Expected Nos.	EMD amount	Delivery Point/ Paying Authority
<b>A</b>	<b>Van with Instruments and other accessories</b>			
1	Mobile Soil Testing Laboratory (Composite one) with following items as per terms & condition and <b>annexure I</b> - (specifications for every item is as per <b>annexure -I</b> ) Any suitable four or more wheeler van having more than 6 ton capacity ( Bus Type ) including requisite fabrication on <b>annexure -I</b>	6 (Six)	EMD amount Rs. 7.20 Lakhs	Rohtas, Nalanda, Aurangabad, East Champan, Samastipur, Araria
2	Atomic Absorption Spectro Photometer with accessories and Gas cylinder (Filled) (2 Nos.) with at least 3 year warranty			
3	Spectrophotometer			
4	Digital Flame Photometer with Gas cylinder (filled) (18 kg) 2 nos.			
5	Digital Conductivity Meter			
6	Digital pH Meter			
7	Soil Sample Crusher			
8	Rotary Shaker			
9	Table Top Electronic Balance			
10	Hot Plate (Rectangular)			
11	Green Gen Set Silent 7 KVA			
12	Air Conditioner & Suitable capacity Stabilizer			
13	Fire Extinguisher			
14	RO (Reverse Osmosis-Drinking Water)			

17	Lap Top ,color Printer & Home UPS Chemicals for 1000 soil samples analysis <b><u>annexure -II</u></b> , Glassware's/Plastic wares & Lab Articles for 50 soil samples analysis at a time, Aspirator Bottle with Stopcock for Distilled Water of 20 lts X 2 no. + 10 lts (1no.) <b><u>annexure - III</u></b> Other accessories and helping instruments			
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**Note :-** The quantity may vary as per the actual requirements.

2. As per Bihar Financial Rules the tender should be submitted in two bid systems (Technical & Financial bids) in separate envelope in prescribed **Technical bid form-1** and **Financial Bid Form-2** as enclosed. The Technical Bid & Financial Bid should be submitted separately in **sealed cover** super-scribed as "***Bid for supply of MSTL***" as applicable, addressed in manner given in **Para 23 of the general terms & conditions**. The name & address with email & Telephone/Mobile no. of the bidder should also be written/ printed on the cover of the envelopes containing Technical & Financial Bids.

2.1. Technical Bid should contain all the technical details along with proof of specification of the tendered items with original brochures, ISO/BIS Registration Certificate, Earnest Money Deposit (EMD) & other supporting papers except financial part of tendered item. All required details in the **Technical Bid Form-1** should be complete in itself and duly page numbers entered as per the column.

2.2. Financial Bid should contain price of the quoted items in the prescribed **Financial Bid format Form-2** duly completed in all respect.

3. Bidders are required to be registered in the Income Tax Department. To participate in tender bidders need not be registered in Bihar Sales tax Department. Bidder succeeded in tender, must be registered in Bihar Sales Tax Department before getting Supply Order within prescribed time limit.

3.1 Bidders have to enclose last 3 years audited report.

3.2 Bidders should have annual turn over of more than Rs Two Crores of last three years successively.

3.3 Bidders have to submit supply order of such laboratory items in Government/Semi-Government sectors for minimum amount of Rs. 25 Lacs during the last 3 years.

4. Firms will have to deposit an Earnest Money Deposit (EMD) as mentioned in para column 4 in the shape of crossed DD/FDR/Banker's cheque in favor of Joint Director (Chemistry), Soil Testing Laboratory, Bihar, Patna payable at Patna. Exemption from E.M.D. is applicable as per rule 131 (o) of Bihar Finance Rule 2005.

5. Except successful bidder, the EMD will be returned to the Firms after completion of the tender formalities.

6. A pre appraisal presentation will have to be given before the technical committee the date of which will be communicated on the mail address of the Bidders. This will add to the technical performance of the manufacturer.

7. Performance Security Deposit (PSD) @ 5% of order Value of the contract will have to made within 7 days on receipt of the supply order to ensure due performance of the contract by the successful bidders. The amount **in shape of FD** should be deposited with the respective purchasing authority / payee authority.

After depositing the PSD the earnest money will be returned to successful bidder. Performance security deposit will be refunded when contract period expires **i.e. upto AMC / CMC period.** If the instrument supplied is/are not working satisfactorily during the contract period & the services provided is inadequate the expenses incurred for repairs & spares will be recovered from PSD or as the case, full deposit may be forfeited.

8. Conditional tender will not be accepted.

9. Tender must enclose Technical Brochure in original and dully attested by the firm for the quoted brand items so that required specifications may be confirmed.
10. All taxes & duties must be indicated clearly and separately in the **Financial Bid Form 2**. All above articles were required in single van through a single supplier. Lowest Bid (L1) will be decided on total quoted basic price with all accessories, Equipments, chemicals, plastic ware , Glassware (without any tax including) & CMC charges for 5 years basis. Whereas Insurance, Registration, all valid tax and RTO Registration were calculated on Existing rate and were not calculated for determination of L1.
11. In case of any ambiguity & false information found, the tender is liable to be rejected. EMD will be forfeited and company will be blacklisted.
12. Quoted rates should be in INR & valid up to **30<sup>th</sup> June, 2017** from the tender opening date.
13. Quoted equipments should carry minimum one-year warranty for all the items from date of Installation & additional 4(four) years CMC (Comprehensive Maintenance Contract – implies service & spares) for Atomic Absorption Spectrophotometer with accessories, Spectrophotometer, Digital Flame Photometer, Digital Conductivity Meter, Digital pH meter.

In case of authorized dealers/supplier the documents regarding CMC must be approved and supported by the manufacturer except items viz. Soil Sample Crusher, Rotary Shaker, Electronic Balance, Hot Plate, Green Gen Set, Suitable capacity Stabilizer, Air Conditioner, Fire Extinguisher, RO (Reverse Osmosis – Drinking Water Purification system), UPS Home, Lap Top, Printer. For the aforesaid items self declaration regarding maintenance by the bidder will be accepted.

14. Tender will not be accepted after the last date & time.
15. Payment will be made only after check up of the product as per specification, proper installation, satisfactory demonstration & its operationalization.
- 15.1 On site visit / inspection of the fabrication work of MSTL Van will be done by government officials. Expenditure incurred on visit will not be a part of Bid. Inspection will be done within 15 days from date of receipt of request for inspection from successful bidder.
16. Bidder will have to arrange training for operation of the instruments/equipments to the concerned technical officials free of cost.
17. Price quoted must include all concern essential accessories to the equipments/apparatus etc.
18. Successful bidders will have to deliver the items within **75 (Seventy Five)** days of supply order received, unless extended. In case of imported items, bidders are expected to mention at the earliest about the delivery period.
19. Bidders are at liberty to withdraw or amend their quotations till the prescribed date and time of the tender.
20. No separate intimation will be delivered to the bidders regarding attending the meeting of the Tender Opening Committee.
21. In case of delay or failure in supply, order may be cancelled & PSD forfeited.
22. Undersigned reserves the right of acceptance of the tender in part, or rejecting any one or all at any stage without assigning any reason.
23. The Sealed tender completed in all respects will be received at the office of the **Joint Director (Chemistry), Soil Testing Laboratory, Bihar, Mithapur Farm, Patna latest by 12:00 hours on 13 February 2017.**
24. Technical tenders will be opened at 15:00 hours on 13 February 2017 in the office of Director of Agriculture, Bihar, Vikash Bhawan, Patna.
25. Bidders may remain present in self or through representatives during opening of tenders. Tenders will be opened even if no bidders or their representatives are present.
26. In case of any dispute, the jurisdiction will rest with Patna High Courts only.

**MSTL Van Terms and Conditions**

***Along with General Terms & Conditions***

1. Supplier should have complete solution comprising Van, required equipments with accessories & logistics.
2. MSTL Van with instruments and other accessories price, should be quoted for complete set of unit i.e. vehicle and instruments with accessories in prescribed. **Financial Bid Form 2.**
3. Registration, Insurance and entry tax of Van will be made as per actual.(Basic Price, Excise, CST/VAT, Road Tax)
4. Warranty and servicing of vehicle will be as per the authorized dealer who is able to provide after sales annual service guarantee facilities along with supply of genuine spare parts.
5. Instruments like Spectrophotometer, Digital Flame photometer, Digital Conductivity meter, Digital pH meter, Green Gen set silent, Air Conditioner with suitable capacity Stabilizer, RO, Laptop, Printer, and Home UPS should have service centre in Bihar.
6. Payment to the suppliers will be made after complete delivery and demonstration of the each MSTL van at the defined location.
7. Year wise AMC cost, excluding tax & Insurance Charges, of vehicle should be as per the norms of the manufacturer.
8. The supplier will have to provide Training of handling MSTL van as well as the instruments.
9. MSTL van equipped with Lab Instruments like AAS with accessories, Spectrophotometer, Digital Flame photometer, Digital Conductivity meter, digital pH meter, Soil Sample Crusher, Rotary Shaker, Electronic Balance, Hot Plate, Green Gen set, Suitable capacity Stabilizer, Air Conditioner, Fire Extinguisher, RO (Reverse Osmosis-Drinking Water), Home UPS, Lap Top, Printer , minimum 40 inch display unit for AV aid should be such that provision for at the on site service immediately on call be made available.
10. Chemicals to be supplied for each Mobile Soil Testing Laboratory will be for analysis of minimum 1000 samples as per **annexure - II**
11. Two sets of Glasswares / Plasticwares & Lab Articles to be supplied for each Mobile Soil Testing Laboratory will be for analysis of minimum 50 samples at a time with suitable rack & as per **annexure - III**
12. Chemical, Glasswares & Plasticwares with Lab Articles to be provided with the MSTL Van should be of a repute company like Merck / Rankem / Aldrich / Sigma / Tarsons / Borosil & Filter paper should be of Whatman
13. **MSTL Van Lay Out-** MSTL Van plan out lay is attached with inside, LHS & RHS view as per **annexure – IV A, B, & C**

Dy. Director (Chemistry),  
Soil Testing Laboratory,  
Bihar, Patna

Joint Director (Chemistry),  
Soil Testing Laboratory,  
Bihar, Patna.

**CERTIFICATE:**

Certified that the information furnished above are true and correct to the best of our/my knowledge and belief. In case, any or all the information given above is found to be incorrect at any time I undertake the liability to be proceeded with any manner, (Any change or changes in regard to the furnished information will be intimated to you as and when such changes occur).

Place & Date.

Signature of Bidder  
Name & Address in Block Letters

**TECHNICAL SPECIFICATIONS FOR MSTL VAN & THEIR INSTRUMENTS**

**(MINIMUM SPECIFICATION)**

Sl no	Name of Item	Actual Specification of the Product (as per Mnf.)
1	2	5
1	MSTL Van body building	<ol style="list-style-type: none"> <li>1. Any suitable Branded four wheeler or above van having more than 6 ton capacity ( Bus Type )</li> <li>2. Procured from original manufacturer or their authorized dealer. Fabrication should be done by approved ISO certified workshop, fitted with following equipment in shock proof/vibration free design. Laboratory area with at least 2 x 3.450 meter, height 1.65 meter. Generator cabin 1.000 x 2.000 meter &amp; driver cabin having driver seat &amp; 4 others seat with two folding berths inside drivers cabin.</li> <li>3. Enclosed chamber of 65% lab working area with sliding door &amp; window panels for sample preparation and acid reaction with space for acid stock storage. This chamber should have provision for exhaust and fire extinguisher 2 no's</li> <li>4. Laptop and color Printer should be provided. Provision of Minimum 40 inch display unit to be connected with laptop with accessories for A&amp;V aid of reputed company with latest feature to show films on sample collection, analysis, fertilizer use &amp; other promotional aspect fitted suitably on left side of body.</li> <li>5. Gen set of minimum 7 KVA branded silent type in special enclosure to remove fumes which has sliding facility.</li> <li>6. Under frame shall have 100 X550mm MS Rolled Channel with 70 X 25 X 3 mm formed GI Channels as longitudes. Provision of Safety exit.</li> <li>7. Floor shall be with 12mm Web Cheque covered with 1.50 mm Vinyl Floor.</li> <li>8. Side, Front, Rear and Roof Structure should be with 40 X 40 X 2 mm GI Square Tubes with 40 X 3 mm Skirt angle. Roof exterior paneling shall be in 0.90 mm GISPS , side exterior between Waist to Crib level shall be in 0.90 mm, and side skirt paneling shall be in 1.60 mm Aluminum Panels.</li> <li>9. Front end show should be in FRP and rear show should be covered with 0.90 mm GI sheet.</li> <li>10. Three compartments fabricated below the chassis. out of these , 1 compartment are on the same side as the fuel tank. used for carrying tents with accessories and folding steel furniture and cots. 2 compartments on other side have been designed to carry acid jars, fuel, kerosene &amp; other materials.</li> <li>11. 1 no. doors with handle, tower bolt &amp; locks has to be provided on left side in saloon,1 emergency Exit in rear side, 1 no door should be provided with 750 mm clear width at middle of rear end to accommodate Generator and 2 no. Doors in Driver Cabin. Sliding door to be provided in Lab to make partition. 4 no. Windows, 2 no. on each in Lab area and 2 no. Window in driver Cabin to be provided with Aluminum Mazda section and 4.80 mm toughened Bronze tinted glasses.</li> <li>12. One no. acid proof Wash basin with water pipe line and 200 Lts. Capacity water tank to be provided at top of the roof in luggage carrier with collapsible ladder.</li> <li>13. 1.50 Ton Air Conditioner make of reputed branded make should be provided having authorized service centre in most of the districts of Bihar. , 4 or more LED lamps with sufficient light &amp; fans inside &amp; proper exhaust.</li> <li>14. Interior wood work as per laboratory standard top covering furnishing with acid proof, heat resistant, Granite top Working tables with racks and doors as per choice in 750 mm height X 450 mm width and length as per requirement on both sides with 18 mm ISI mark plywood with sun glass lamination as per color choice to Keep Chemicals and Glassware stands. 2 lab chairs and 3 lab stool to be provided.</li> <li>15. Total wiring to be done with Finolex / Finecab fire retard wires and Modular switches and sockets, 4 no. lights at interior roof, 4 no. Indicator lights at all exterior top corners. Extra power points, 1 no. 32 Amps ELCB and 4 no. MCV with change over switch should be provided to run either on generator or on external supply of 230 Volts.</li> <li>16. Provision of concealed space for 2 LPG &amp; 2 acetylene gas cylinder, chemicals, fuel etc.</li> <li>17. Working space for Soil Sample Crusher, pH meter, Conductivity meter, Flame Photometer, Spectrophotometer, AAS, Rotary Shaker, Table top Centrifuge, Electronic Balance, Aspirator Bottle with Stopcock for Distilled Water of 20 X 2 + 10 lts., Hot plate (Rectangular), RO, Home UPS, 2 Lap Tops, Printers, and some small equipments .</li> </ol>



		<p>Working benches are suitably reinforced with angle iron pieces for mounting the shaking machine &amp; other portable instruments.</p> <p>18. Storage space for Glass ware, Plastic ware, Chemicals, soil samples, Trolley with rubber pad .</p> <p>19. All steel components used in the fabrication should be pre treated and applied with grade-I metal primer and body with cabin to be painted with PU paints as per color choice. Provision for display relating to 'SOIL TESTING APPLICABILITY' on the outer body of the Van.</p> <p>20. The MSTL Van plan outlay for inside will be as per sheet attached. Maximum variation of 10% is allowed except ground clearance.</p> <p>21. Provision of Pipette Stand (fixed), Glassware Stand (fixed) at least 10 bottle stand (fixed) on working table with angle iron or other suitable materials.</p> <p>22. Provision is made for a sheltered space covered by canvas on one side of the van away from fuel tank.</p>
2	AAS	<p><b>Atomic Absorption Spectrophotometer</b> (Computer controlled true double beam Atomic Absorption Spectrophotometer (Manufactured by ISO certified firm) with following condition :-</p> <ul style="list-style-type: none"> <li>• Four Lamp (on more) automatic turret with dedicated power supply. Compatible with coded lamps.</li> <li>• Monochromator with wavelength range: 190 to 900 nm or better, Focal length: 300 mm (approx), grating: 1800 lines / mm.</li> <li>• Must have wavelength locating by automatic peak searching and auto loading of all parameter. Slit width 0.1 to 2.0 mm automatically selectable through computer. Deuterium lamp background correction system. Reciprocal liner dispersion 1.5 to 2.0 nm/mm.</li> <li>• Single element coded hollow cathode lamp: Cu, Fe, Zn and Mn to be supplied with equipments.</li> <li>• Titanium burner suitable for air / acetylene flame to be supplied as standard. Burner rotation should be control through computer.</li> <li>• Fully inert nebulizer. PTFE inert spray chamber incorporating impact bead.</li> <li>• Sensitivity: Greater than 0.80 absorbance for 5mg/L Cu solution.</li> <li>• Computer controlled automatic flame control system with automatic flame changeover.</li> <li>• Full safety interlocks including pressure sensors on lines, power failure protection, burner interlock and flame sensor. Automatic flame ignition.</li> <li>• Software: Software compatible with Windows XP professional / Windows 7, user friendly. Should select analysis parameter for instruments control, analyzed the samples and perform calculations such as slope, mean value, standard deviation and RSD etc. provide a comprehensive AA cookbook for all elements. There should be option of Automatic merger of data after reading.</li> <li>• Accessories: <ul style="list-style-type: none"> <li>- Acetylene gas cylinder filled with at least 7 kg of gas in two nos. with regulator (double stage), Oil free silent air compressor, Exhaust hood and vent assembly, 3.0 KVA servo voltage stabilizer (130-270V).</li> </ul> </li> </ul> <p>Desktop Computer (Make – HP/Dell) with latest configuration, along with HP laser Jet printer, UPS (1 KVA) &amp; maintenance free batteries.</p>
3	<b>Spectro photo meter (Single Beam)</b>	<p><b>Scanning Visible Spectrophotometer</b> (Micro-Processor based Scanning Visible Spectrophotometer with facility for auto concentration (CNC) / Transmittance (%T), Absorbance (ABS) measurements by K Factor and multi standards. Wavelength range: 340-1000 nm approx.</p> <p><b>Accessories</b></p> <ul style="list-style-type: none"> <li>• PC based Software</li> <li>• Four pairs of quartz cubette.</li> <li>• Suitable online 2 KVA UPS.</li> </ul> <p><b>Warranty:</b> Instrument should have <b>warranty of one year from the date of installation.</b></p>
4	<b>Digital Flame Photo meter</b>	<p><b>Flame Photometer</b> (Micro-Processor/Micro-controller based, with Na, K and Ca filters, printer interface, air compressor and automatic ignition etc.).</p> <ul style="list-style-type: none"> <li>• Flame System : LPG (18 kg) 2 Nos.</li> <li>• <b>Power Requirement</b> : 230 ±10V, 50 Hz AC</li> <li>• <b>Accessories with Instruments:</b> Filters for Na, K, Ca, Li. Air Compressor with built in</li> </ul>

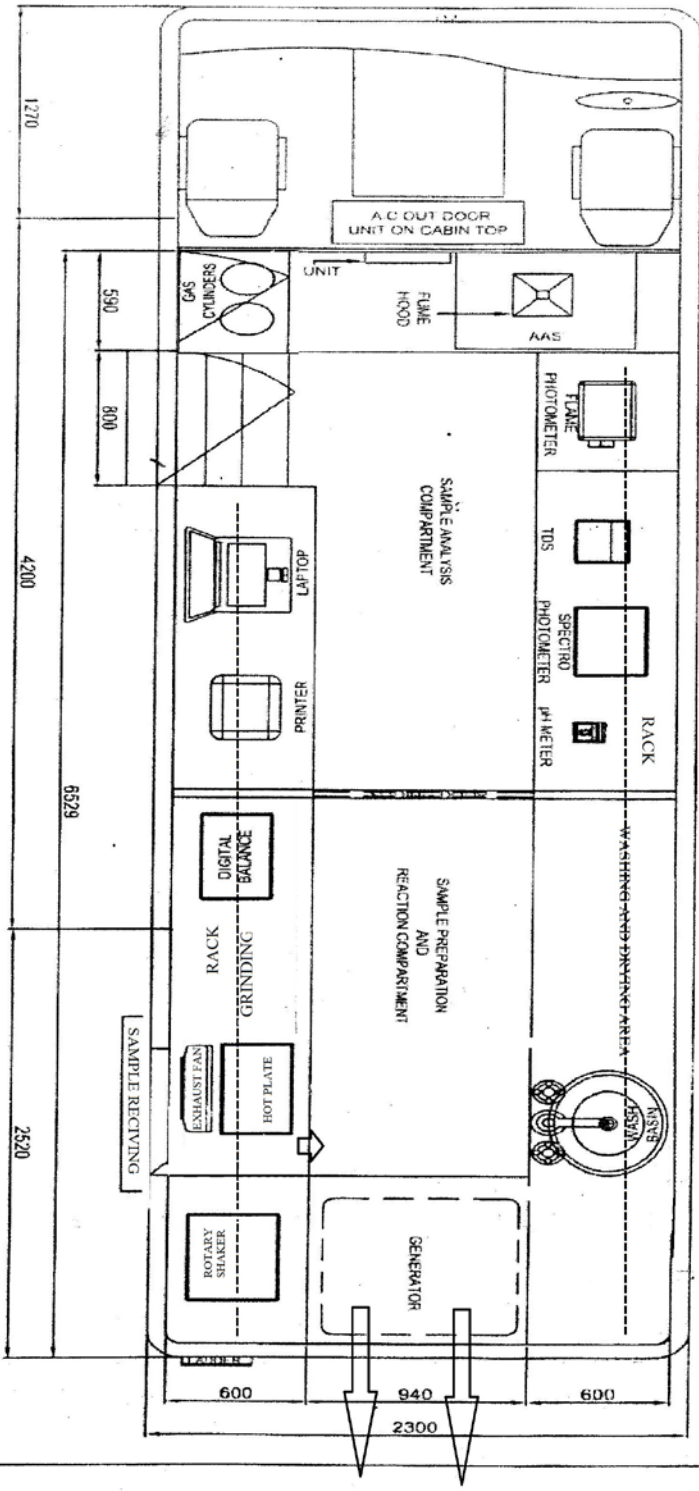
		<p>suitable air regulator and air filter. Gas lighter and Air Gas tube.</p> <p><b>Warranty:</b> Instrument should have <b>warranty of one year from the date of installation.</b></p> <p>The tenderer must indicate <b>CMC</b> charges for the quoted model for a period of 4 year's after warranty period is over with year wise break up.</p>
5	<b>Digital Conductivity Meter</b>	<p><b>Conductivity Meter</b> (Micro-Processor/Micro-Controller based, with ATC Probe and Conductivity Cell, Reproducibility: 1µS).</p> <ul style="list-style-type: none"> <li>• Calibration : Automatic with battery back-up</li> </ul> <p><b>Accessories : Conductivity cell, (0.1 &amp; 1.0) Temp prob., Stand with cell holding clamp.</b></p>
6	<b>Digital pH meter</b>	<p><b>pH Meter</b> (Micro-Processor/Micro-Controller based, with ATC Probe and combined electrode, 3 point calibration.)</p> <p><b>Accessories : pH Electrode, Temperature Probe, Electrode Stand &amp; Clamp, With printer port</b></p>
7	<b>Soil Sample Crusher</b>	<p><b>Hopper Capacity</b> : Max. 500 mg.</p> <p><b>Crusher Roller</b> : A pair of hexagonal roller</p> <p>Rotation Speed : 103 rpm (50 Hz)</p> <p>Oscillating Siev : Mesh size 1 Or 2 mm (Exchangeable)</p> <p>Power Source : 220 V.</p>
8	<b>Rotary Shaker</b>	<b>Rotary Shaker:</b> (Rotary type Shaking machine for 25 no. 100ml Flask Electrically operated variable speed controlling device.)
9	<b>Electronic Balance</b>	<b>Electronic Precision Table Top Balance with internal Calibration</b> - with glass cover having Weighing capacity: 300g approx., Readability: 0.001 g
10	<b>Hot Plate (Rectangular)</b>	<p>Rectangular Hot Plate, body made from thick (at least 18 mm) mild steel painted with hammertone paint. Upper portion is of thick (at least 25mm) iron plate or machine casted iron plate which can withstand high temperature, should have temperature control switch with sunvic energy regulator indicator lamp, wire and plug.</p> <p>Size: (45 cm x 60cm x 15cm) Rating 3 Kilo-watt</p> <ul style="list-style-type: none"> <li>• <b>Warranty:</b> Instrument should have <b>warranty of one year from the date of installation.</b></li> </ul> <p>The tender must indicate <b>CMC</b> charges for the quoted model for a period of 4 year's after warranty period is over with year wise break up.</p>
11	<b>Green Gen set Silent 7.0 KVA</b>	Suitable for MSTL Van - of a repute company.
12	<b>Air Conditioner &amp; Stabilizer</b>	Suitable for MSTL Van of a repute company.
13	<b>Fire Extinguisher</b>	Suitable for Lab purpose-of a repute company (in 2 nos.).
14	<b>RO</b>	<b>Reverse Osmosis – Drinking Water</b> of a repute Company
15	<b>Laptop,color Printer &amp; Home UPS</b>	Suitable for MSTL Van - of a repute company. <b>Home – UPS</b> having capacity of minimum 1 KW
16	<b>Chemicals &amp; Glassware's/ Plastic wares – Aspirator Bottle with Cock for Distilled Water (for 1000 soil sample analysis)</b>	As per attached Annexure – II & III

**Chemicals to be supplied with MSTL Van  
(Analysing Capacity 1,000 samples)**

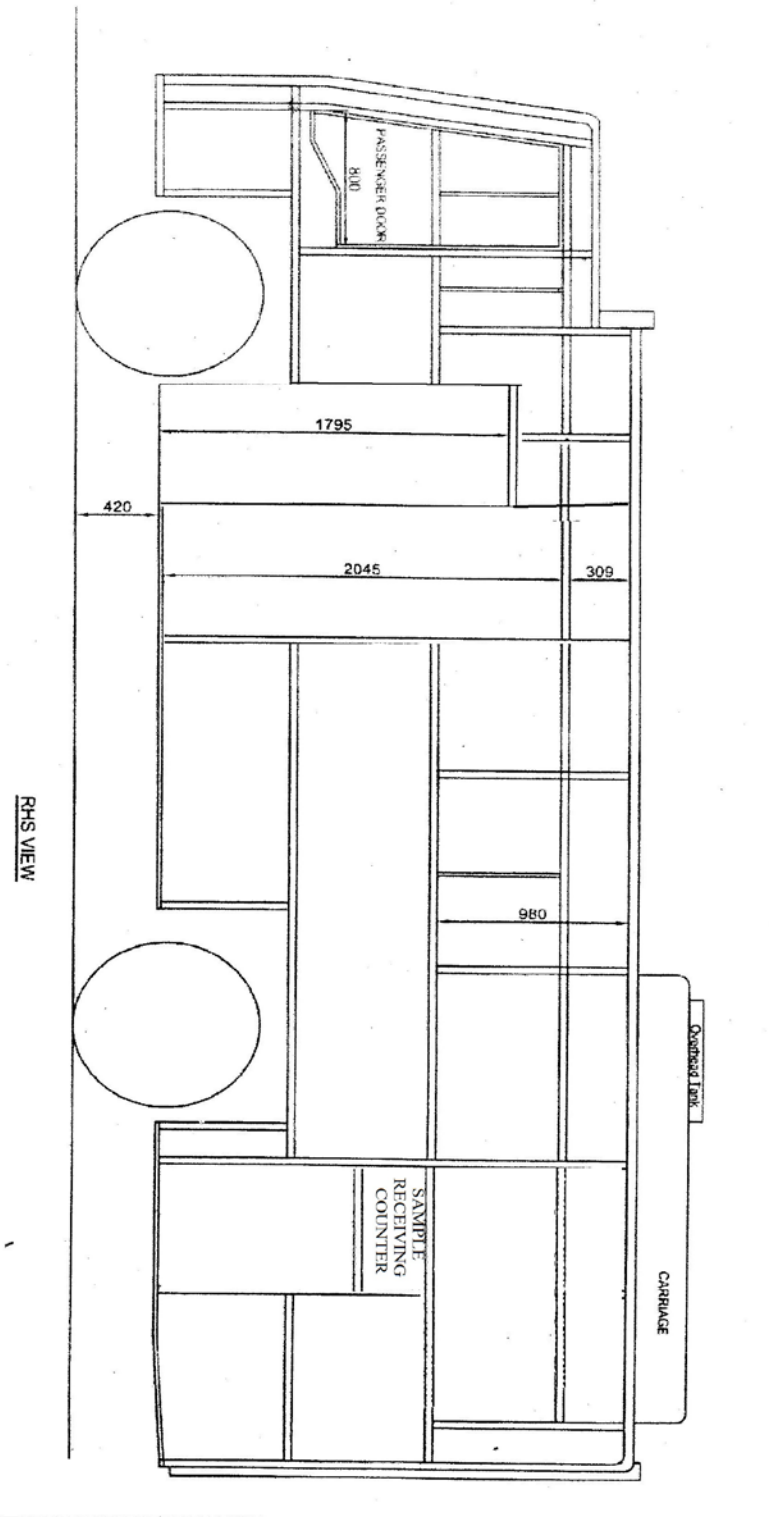
<b>S. No.</b>	<b>Name of the Chemicals</b>	<b>Grade</b>	<b>Packing Size</b>	<b>Quantity of Chemical</b>
<b>1</b>	<b>2</b>	<b>3</b>	<b>4</b>	<b>5</b>
1	Acetylene Gas			2 no.
2	Ammonium Acetate	GR	500 gm	5 nos.
3	Ammonium Molybdate Tetra hydrate		100 gm	1 no.
4	Antimony Potassium Tartrate		250 gm	1 no.
5	Ascorbic Acid		100 gm	2 nos.
6	Buffer Sachet 4.0		10 Sachet	1 no.
7	Buffer Sachet 7.0		10 Sachet	1 no.
8	Buffer Sachet 9.2		10 Sachet	1 no.
9	Calcium Chloride	AR	500 gm	2 nos.
10	Charcoal Activated		250 gm	4 nos.
11	Copper Sulphate	pure	500 gm	1 no.
12	Di-phenyl-Amine Indicator	AR	100 gm	1 no.
13	DTPA (Di-ethylene Tri-amine Penta Acetic Acid)	AR	250 gm	1 no.
14	Ferrous Ammonium Sulphate	AR	500 gm	10 nos.
15	Glacial Acetic Acid		2.5 Lt	1 no.
16	Hydrochloric Acid Conc.	AR	2.5 Lts.	2 nos.
17	Ortho-phosphoric Acid 85%	LR	2.5 lts.	2 nos.
18	Oxalic Acid Di-hydrate	GR	2.5 lts.	1 no.
19	P-Nitrophenol Indicator		100 gm	2 nos.
20	Potassium Chloride	GR	500 gm	2 nos.
21	Potassium Dichromate	AR	500 gm	5 nos.
22	Potassium Permanganate	GR	500 gm	1 no.
23	Potassium-dihydrogen Orthophosphate	GR	500 gm	1 no.
24	Sodium bi-carbonate	AR	500 gm	5 nos.
25	Sodium Fluoride	GR	500 gm	3 nos.
26	Sodium Hydroxide (Pilets)		100 gm	1 no.
27	Sulphuric Acid (Conc.)	AR	2.5 lts.	12 nos.
28	TEA (Tri Ethanol)	AR	500 ml	1 no.
29	Zinc Sulphate	pure	500 gm	1 no.
30	Whatman Filter Paper No.-41 (Sheet)		100 Pc.	10 nos.
31	Tissue Paper Roll			10 rolls

**Glasswares / Plasticwares & Lab articles to be supplied with MSTL Van  
(Analysing Capacity 1,000 samples)**

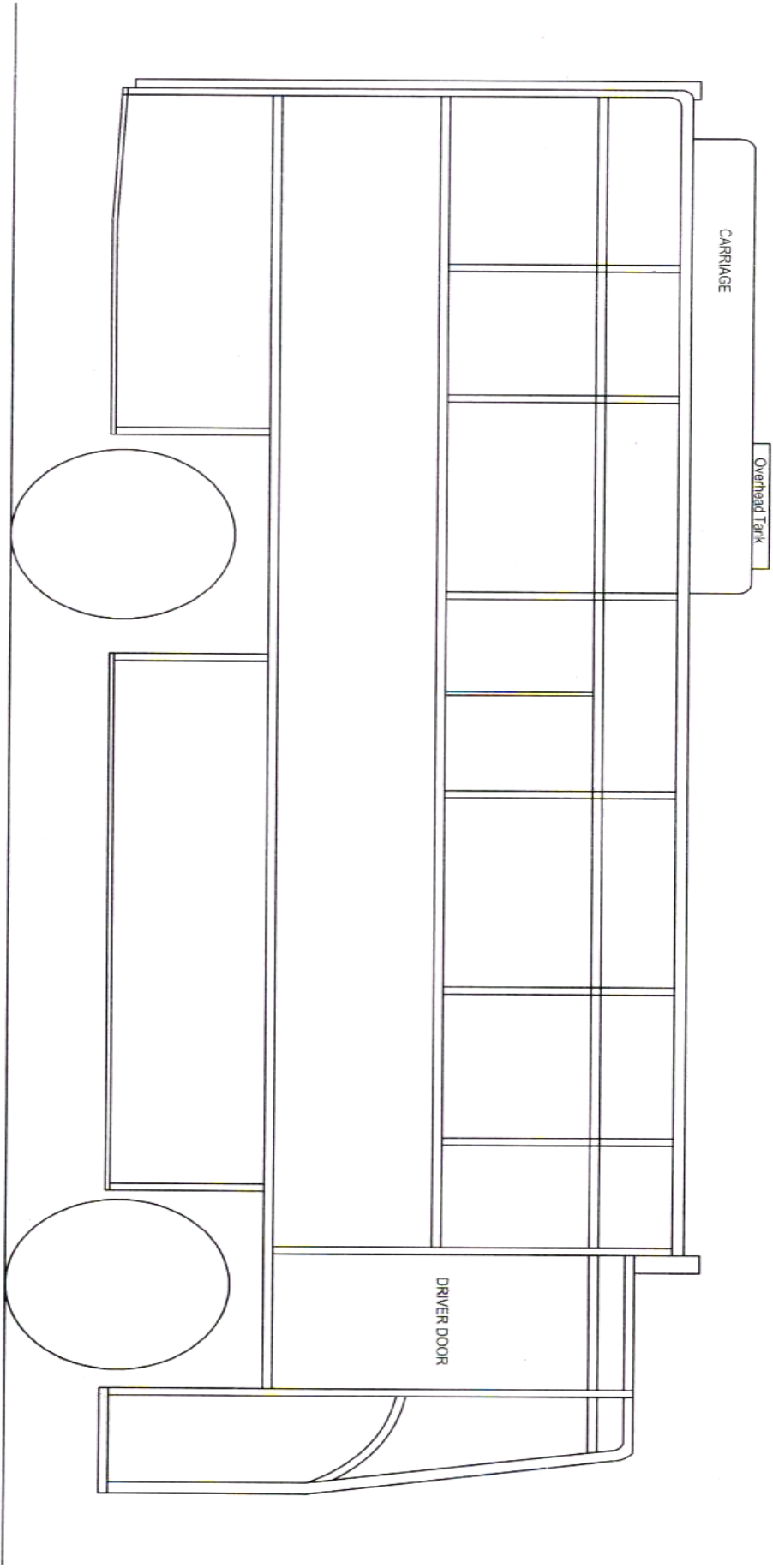
Sl. No.	Name of Glass ware	Capacity	Total Glass ware required in nos.
1	Bottle (Polyethelene)	20 Lt.	2
		10 Lt.	2
2	Bottle (Glass) for reagents with glass stoppers	Glass Stoppered 250 ml	10
		500 ml	20
		1000 ml	5
		2000 ml	5
3	Bottle (Glass) Amber	500 ml	5
4	Bottle (Polyethylene) - wash Bottle	250 ml	6
		500 ml	6
5	Burette (Mounted on reservoir ) Graduation Interval (0.1)	50 ml	2
6	Measuring Cylinder (Glass) Graduated with an Interval of	0.5 ml	2
		1 ml	2
		2 ml	2
		2 ml	2
		5 ml	2
7	Conical Flask	250 ml	10
		500 ml	50
8	Volumetric Flask	25 ml	5
		50 ml	10
		100 ml	10
		500 ml	20
		1000 ml	15
9	Beaker	50 ml	50
		100 ml	100
		250 ml	5
		500 ml	5
		1000 ml	5
10	Graduated Pipettes	5 ml	2
		10 ml	2
		25 ml	2
		50 ml	2
11	Glass Funnel	75 mm	50
		100 mm	5
12	Spatula & Spoons (Stainless Steel)	1 gm	2 Sets
		2 gm	
		2.5 gm	
		5 gm	
		10 gm	
		20 gm	
13	Burette Stand (fixed type)		2
14	Pipette Stand (fixed type)		2
15	Filter Stand (Wood / Plastic Make)	12 hole	3
16	Bottle Top Dispenser	50 ml	2
		100 ml	2
17	Tilt Measure	10 ml	2
		20 ml	2
18	Pipetteting Bulb		2
19	Glass Rod		4
20	Plastic Bottle	50 ml	50
		100 ml	50
21	Others-Apron, Gloves, Masks, Wipe Rubber & Duster	as per requirement	4 Set
22	Plastic Tray 1.5' x 1'		6
23	Aspirator Bottle with Stop Cock	10 lts	1
		20 lts	2
24	First-Aid-Box Kit		1



PLAN VIEW



LHS VIEW



# Form -1

## Technical Bid Form

Enclosures on Page No.

1. Tender No. - : Due Date .....
2. Tendered Article (Item No.) : .....  
(For which bid is submitted)
3. Name and Address of Bidding Firm : .....
4. ISO/BIS Certificate of Mnf. firm : .....  
(Certificate enclosed)
5. Name and Designation of the : .....  
person signing the bid
6. Mobile/Land Line Telephone Number : .....
7. Earnest Money Deposit Details : .....
8. CST/VAT Registration Certificate No. : .....  
of the tenderer (Copy enclose)
9. PAN Number (Copy enclosed) : .....
10. Authorized dealer/Distributor : .....  
(Copy of certificate issued by  
manufacturing company enclosed)
11. Audited Annual last 3 yr. turnover : .....  
(Copy enclosed)
12. Details about Service Centre - : .....  
Manufacturing Company Letter No.  
Address - Location
13. Year-wise amount of supply order : .....  
executed in last three years  
(copy of supply orders/invoices enclosed for each)
14. Terms and Condition of contract mentioned : .....  
in the invitation bid are ACCEPTABLE/  
NON-ACCEPTABLE
15. Deviation in Terms and conditions/specifications : .....
16. Capacity in which bid is signed by the Bidder : .....  
(PARTNER/DIRECTOR)
17. Details for each quoted items : .....

Group/ Item No.	Make/Model	Specification as per tender	Offered Specification (Detailed)	Offered Specification (at par / above par)
1	2	3	4	5

.....

Place & Date.

-----  
Signature of Bidder  
Name & Address in Block Letters



## Form -2

### Financial Bid Form

1. Tender No. - : Due Date - .....
2. Tendered Article (Item No.) : MSTL Van with all Lab equipments
3. Name and Address of Bidding Firm : .....
4. Financial Details for each quoted items :

(In case of MSTL Van Registration, Insurance will be incurred by the purchaser on actual basis)

Item No.	Details of Item Quoted Price & Taxes							Charges for CMC with taxes - year wise breakup				Remarks
	Name of the Items	Brand Name	Model/Make No.	Basic Price of Item with all accessories without VAT	Bihar Sales Taxes (Vat)	Other Taxes if any	All Price including VAT (5+6+7)	2 <sup>nd</sup> yr	3 <sup>rd</sup> yr	4 <sup>th</sup> yr	5 <sup>th</sup> yr	
1	Vehicle with body (Bus type)											
2	AAS with accessories											
3	Spectro photo Meter											
4	Digital Flame Photo Meter											
5	Digital Conductivity Meter											
6	Digital pH meter											
7	Soil Sample Crusher											
8	Rotary Shaker											
9	Electronic Balance											
10	Hot Plate (Rectangular)											
11	Green Genset Silent 7.0 KVA											
12	Air Conditioner, Stabilizer											
13	Fire Extinguisher (2 nos.)											
14	RO											
15	Laptop, Printer, Home UPS											
16	LPG Gas Cylinder (18 Kg) 2 nos.											

Item No.	Details of Item Quoted Price & Taxes							Charges for CMC with taxes - year wise breakup				Remarks	
	Name of the Items	Brand Name	Model/Make No.	Basic Price of Item with all accessories without VAT	Bihar Sales Taxes (Vat)	Other Taxes if any	All Price including VAT (5+6+7)	2 <sup>nd</sup>	3 <sup>rd</sup>	4 <sup>th</sup>	5 <sup>th</sup>		
								yr	yr	yr	yr		
1	2	3	4	5	6	7	8	9				10	
17	Chemicals & Glasswares / Plasticwares - DW Cannon (for 1000 soil sample analysis)												
<b>Total Quoted Price (without any tax)</b>													
1	Insurance at least for one year												
2	Temporary Registration												
3	Entry Tax (if any)												
4	Additional Warranty Charges (if any)												
5	Others (if any)												
6	VAT												
7	Registration with RTO												
<b>Net Price</b>													

Note :- Lowest Bid (L1) will be decided on total quoted basic price with all accessories, Equipments, chemicals , plasticware , Glassware (without any tax including) & CMC charges for 5 years basis. Whereas Insurance, Registration, all valid tax and RTO Registration were calculated on Existing rate and were not calculated for determination of L1.

.....  
Place & Date.

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Signature of Bidder  
Name & Address in Block Letters