

**Bid Corrigendum** 

GEM/2024/B/4578723-C9

Following terms and conditions supersede all existing "Buyer added Bid Specific Terms and conditions" given in the document or any previous corrigendum. Prospective bidders are advised to bid as per following Terms and Condition

#### **Buyer Added Bid Specific Additional Terms and Conditions**

- Actual delivery (and Installation & Commissioning (if covered in scope of supply)) is to be done at following address
   District of Murshidabad, Birbhum, Pururila, Jhargram, Kalimpong, Dakshin Dinajpur, Paschim Medinipur, Purba Bardhaman
   Bankura, Basirhat HD

   Diamond Harbour HD, Bishnupur HD
   Nandigram HD, Rampurhat HD
- Bidders shall quote only those products (Part of Service delivery) in the bid which are not obsolete in the marl and has at least 7 years residual market life i.e. the offered product shall not be declared end-of-life by the OI before this period.
- 3. Bidders can also submit the EMD with Payment online through RTGS / internet banking in Beneficiary name West Bengal Medical Services Corporation Ltd

Account No. 105605003391 IFSC Code ICIC0001056 Bank Name ICICI BANK Branch address BIDHANNAGAR, SALT LAKE, SECTOR-V

Bidder to indicate bid number and name of bidding entity in the transaction details field at the time of on-line transfer. Bidder has to upload scanned copy / proof of the Online Payment Transfer along with bid.

4. Buyer Added text based ATC clauses

1 Bidders should arrange for an onsite functional demonstration of the offered equipment on the tified date at facility at Kolkata, West Bengal or at **Swasthya Bhavan**. The evaluation of the spec inc ator will be made based on the reports of the onsite functional demonstration of the equipments. The nsite functional demonstration of the equipment is purely at the discretion of the Technical Bid Evalu on Committee and its input shall be treated as only corroborative in nature and will not be a substitut for technical evaluation of the document submitted along with the bid. The decision of the Technical mmittee in this regard will be final.

Bidder has to comply with all parameters of the technical specifications except deviation(s) which wil e considered minor and acceptable by the team of Experts to be engaged by WBMSCL to take workin / functional demonstration of the offered equipments.

2. **Experience Criteria:** Bidder should submit following documents of same / similar type of e uipment in support of supplies made to Govt. Hospitals or reputed private hospitals for the period of ast three calendar years ending December 2022:

Proof of installation (Installation certificate / Service report duly signed by the hospital / /he thcare facility) of the same / similar type of equipment.

OR

Proof of payment against supply and installation of the same / similar type of equipment.

3. Bidder should mention the bid reference number along with the quoted make and model of the equent in the OEM Authorization certificate and the certificate should be issued to bidder from OEM aft publishing of the bid.

4. Bidder should submit minimum average annual turnover for last 3(Three) financial years in letter h d of chartered accountant with mentioning valid UDIN (Unique Document Identification Number). The ata should be submitted in a table duly signed and stamped by chartered accountant.

5. Exemption of EMD as per Memorandum bearing West Bengal Finance Department Mem-No. 375-F(Y) Dated 30.01.2023 where has been clearly mentioned that, in order to get more parti ants and obtain better competition in procurement through GeM, it is decided to include following cat gories of sellers / service providers, in addition to our existing provisions, for exemption of EMD depo in GeM:

- i. All registered Micro and Small Enterprises being manufacturer of the Primary Prod uct Category or Service Provider of the Primary Service Category, whose credenti als are validated online through Udyam / NSIC (National Small Industries Corporat ion) database/ DIC (District Industries Corporation) database.
- ii. Sellers of Primary Products/Primary Services having their credentials verified thro ugh the Vendor Assessment process in GeM.
- iii. Sellers/ Service Provider having annual turnover of Rs 500 Crore or above.
- iv. Sellers/ Service Providers of Primary Product Categories having BIS (Bureau of In dian Standards) certification.

**6.** Successful bidder/OEM will have to ensure that adequate number of dedicated technical service ersonals / engineers are designated / deployed for attending to the Service Request in a time bound | nner and for ensuring Timely Servicing / rectification of defects during warranty period.

7. As many as number required, end user training must be provided within the warranty period winout any charges.

8. Restrictions under Rule 144(xi) of the general Financial Rules(GFRs),2017:As per offic memorandum from the Ministry of Finance, Govt. of India the following clause will be effe ive from dated- 08.02.2021 where has been clearly mentioned that, "in case a bidder has propose to supply finished goods procured directly/indirectly from the vendors from the countries sharing land order with India, such vendor will be required to be registered with the competent Authority."

**9. Bid Validity:** 2(two) years from the last date of online bid submission (**Bid validity of 180 day:** written above may be ignored)

10. Price Validity: 2(two) years from the last date of online bid submission

11 . WBMSCL's right to vary quantities:

WBMSCL reserves the right to increase the quantity in case of need / or to decrease the antity of goods and related services initially specified in Bid Document and without any ange in the unit prices or other terms and conditions of the Bid Documents.

# Bidder must accept and agree to the fact that both the bid and price will remain valid for period of 2(two) years from the last date of online bid submission of this tender.

12. Bidders shall quote only those products in the bid which are not obsolete in the market and has a east 7(seven) years residual market life i.e. the offered product shall not be declared end-of-life by th OEM before this period.

13. The medical equipment should be USFDA / European CE (4 digit European notified body) / BIS/UK T as applicable. The Quoted model name & make should be mentioned in the certificate

The organization those are issued CE certificate should be enlisted in this https://ec.europa.eu/growth/toolsdatabases/nando/index.cfm?fuseaction=notifiedbody.main link. If a arification required, the bidder should show us the document in the above link.

#### 14. Pre-Bid Meeting : 09th February(Friday); 2024 Time : 03:00 PM onwards

Physically presence of the bidders are mandatory at conference Room of West Bengal Medical Servi s Corporation (WBMSC), at 2nd floor , Swasthya Sathi Building, Swasthya Bhawan , Kolkata – 700091

15. Bidders are requested to ignore Performance Bank Guarantee of 5% written above and **consider** erformance Bank Guarantee as 10%.

#### N.B. Please ignore the GeM Technical Specification along with the Additional Specification Docur

nts and follow only the Technical Specification given below:

#### **Technical Specifications along with Terms and Conditions**

#### A. Technical Specifications

#### Mobile Food Testing Laboratory (MICROBIOLOGY READY) - FSSAI

### Major product category: Motor Vehicles

Parameters	Descriptions	Bid Requirement (Allowed Values)
	Category of Vehicle	Medium
	Vehicle Engine capacit y	2500 cc or above
	Minimum Engine Torqu e (Nm) at rated RPM	220.0 or higher
	Type of Fuel	Diesel
	Vehicle Emission Compl iance	BS -VI,Stage-2
	Type of Steering	Power Operated

	Ground Clearance (mm )	180 to 210
Vehicle parameters(Ge neric)	Length of the Va n body (Lab area) excluding driver cabin.	2900mm and above.
	Inside height of t he Van body (Lab area.	1800 mm or above.
	Width of the Van body (Lab area)	1750mm or above.
	Pay load capacity of the vehicle	2600kgs or above.
	No of wheels	Rear -02/4, Front-2, Stepney-1
	Type of rear door	Two leaf divided rear do or or flap type rear door at rear end with side-way s opening.
	Additional requir ement	The alignment between t he driver cabin and van b ody is a critical requirem ent for this project. It is i mperative that no part of the van body projects or outlines beyond the dime nsions of the driver cabin . The alignment should b e such that the Driver Ca bin and van body form a seamless and integrated structure, ensuring a coh esive and integrated app earance.
	Warranty:-	Comprehensive warranty for 3 (three) lakh Km / 3- year whichever is earlier.
	Van Body	<ul> <li>The Insulated Van is fabricat ed as per the requirement of t he conditions inside the unit.</li> <li>The PUF Insulated Van Body i s built and designed for trans portation of perishable materi als at Low Temperature and i n Highly Clean and Hygiene C onditions.</li> </ul>

	Features of the Panel V	<ul> <li>Base frame made up of I00X</li> <li>50mm channel.</li> <li>Cross channel 75X40mm.</li> </ul>
	an	<ul> <li>External Structure made up of 1.6 mrn GI sheets</li> </ul>
Van Body	Others	<ul> <li>Plane sheet for the Van mad e out of 1.6 mm Gl and inside 0.5 mm SS 304 grade/3mm F RP.</li> <li>All sheets joints are continuo usly welded with MS welding r od to strength the Van. The in ternal strength is given by th e internal framing by pipes/ M S strips.</li> <li>The external paint colour sha de and marking shall be as pe r specific customer requireme nts.</li> <li>The PUF will have average d ensity of 38 - 40 kg/m3 and th ermal conductivity value of 0. 017 W/ m deg. K. All six sides of the Body shall be homogen eously insulated with PUF.</li> <li>The average insulation thick ness will be 50 mm.</li> <li>Rear Door with Flush Toughe ned Glass Windows (02 Flaps)</li> <li>Sliding windows x 2, Fixed W indows - 1 no.</li> <li>The Van Body floor is 16 mm plywood laid over the insulati on.</li> <li>Insulated Body is double doo r fitted with inner and outer s eals.</li> <li>Electrical wiring: Electrical wi ring to be done as per the req uirement, fitment of sockets/ switches , Light (DC) and Fan (DC) x 4 nos.</li> <li>Screws, Bolts and Rivets: Sta inless Steel (SS-304) and plac ed at even spacing.</li> <li>Chassis &amp; Body Integration: U Bolts</li> <li>Retractable/ pull out awni ng from side of vehicle of dimensions 2900 ( ± 300) mm x 1523( ± 100) mm</li> <li>The interior paneling of the L ab compartment including sid ewalls, 60 mm</li> <li>Toughened Glass partitio n in between Microbiological and Chemical Work Flow Area</li> <li>Partition between proced ure cabin and driver cabin , roof, dor panels and all oth er surfaces in the compartme nt should be made from long I ife superior quality material s</li> </ul>

Exterior	Exterior	uch as non-halogenated Flam e Retardant Polymer of grade C-1196 HF. The interior material should have the following characteris tics: Thickness - minimum 3.0 mm, Fire retardant as per IS - 674 6 of 1988 or latest equivalent as applicable. No painting sha Il be allowed The insulating material shoul d be heavy duty thermal PUF insulation to provide better te mperature control. Sufficient reinforcement for holding the wall/floor mounte d equipment securely while in transit should be present on t he side walls The van interiors are suitable for easy cleaning, scientific fu migation & treatment with dis infectants. Joints should be fl ushed, seamless, hermetically sealed, waterproof & easy to disinfect. All interior materials shall comply with the fire safe ty requirements. The vehicle has an additiona I Exhaust fan. The Body has a carrier and the Ladder. Ceiling of the body should h ave insulator material (as coa ting or a material) on the insi de. Glass Window (size 50" X18" ) for complete Toughened Gla ss (6mm thickness) view Pan el sized 54"X56" with MS Frame Structure (duly pai nted 2" in size) for provision f or display of TV, Books (A4 siz e) and posters (A3 size) Electronic Scroller Display (L eft Side) Outdoor Image Display Scrol ler with additional provision with Toughened Glass 5 mm with operable door and FRP c over from inside (48"X36") There is one set of a radio a nd an amplifier along with tw o movable loud speakers with fixtures on the roof. Foot step is at the back end of the vehicle for entering/cli mbing Workbenches on both sides
		with adequate moving space of a minimum two feet in the central area. Workbenches h ave storage below and above the working platforms. All the

	I		work honchos should be medial
			work benches should be mad
			e of SS-304 {16 SWG (1.6 m
			m) for top of the bench and 1 $S_{1} = S_{2} $
			8 SWG (1.2 mm) for the body
			of the bench). All the storage cabinet and drawers for stori
			ng minor instruments, access
			ories, basic glassware and ch emicals must be made of SS-
			304 only.
			Space is provided for safely f
			ixing the generator, refrigerat
			or and also securing the gas c
			ylinder(s).
			The interior have chemical r
			esistant Vinyl / PVC flooring o
			r any suitable material.
			Provision is made to safely s
			ecure the equipment under a
			vibration free, cushioned and
			fitting separations in order to
			prevent any damage during t
			he vehicle is under movemen
			t.
		·	Sliding windows is provided
			on both the walls of the vehicl
Interior			e.
(All furniture-		·	Collapsible/retractable ledge
(All furniture-			of 9-inch depth x 30 inch {18
SS 304 Grade)			SWG (1.2 mm) of SS 304} out
			side one of the windows for a
			cceptance of samples. This le
			dge is in such a way that it ca n be secured flat on the body
			of the vehicle when the MFTL
			is on the move.
			Stowing area/room for acco
			mmodating the stools after w
			orking.
			Tissue paper roll holder, han
			d wash holder, towel holder,
			spatula holder, tweet pipette
			holder, test tube stand holder
			, separating funnel holder etc
			. is placed inside the lab in su
			ch a way that it can be acces
			sed by sitting on the stool its
			elf. The bottle holder should
			be air tight and spillage free.
		•	The door have full length gra
			b rail that is not projecting ou
			tside from the door front surf
			ace. The grab rails should be
			made of powder coated Alumi
			nium.
		•	Dedicated space for keeping
			One 10 liters carboy to be pr
			ovided.
			Appropriate space and
			easily accessible positioning f
		Ι.	or placing fire extinguisher. Fabrication : Warranty as pe
		· ·	r the bid criteria
		•	One Dual Mode Petrol driven
			Silent Generator with self star
			•

Power Supply	Power Supply	t of a minimum 7 KVA. One 5 KVA UPS to be provides as Ba ckup for the Generator for mi nimum 45 min -1 HR Backup. All equipment/AC should be p owered by gen-set when stati onary OR external line availa ble at location to the Genset. Minimum of 10 meter cable f or direct connection of power from outside sources is requir ed.
	Capacity of fresh wat er tank (liter)	100 (minimum)
Water Tank and Sink	Capacity of waste wa ter collecting tank w ith outside	100 (minimum)
(Acid and Alkaline resist ant)	drain (liter)	
	Sink	Sink of SS, moulded as one piece. The minimum dimension of the si nk is 32x32x20 cms. The sink doe s not have any sharp corners insi de
	Type of Air Condition er	Split (having Copper coil)
Air Conditioner includin	Nominal cooling cap acity in Ton	1
g Compressor	BEE Star Rating	3
	Others	In-door unit is installed appropriat ely for uniform cooling inside the lab area
	Capacity	80 - 100 Litres
Refrigerator	Type of Door	Single
	Temperature	0-4°C
	Туре	LED (Smart)
Television	Screen Size	40 Inches
	Screen Resolution	1920 x 1080 (Full HD)
	Minimum number of Power points on eac h side on two work b enches	6 nos. or higher
Electrical Fittings		<ul> <li>Minimum six power points on each side are given on two w ork benches to make equipme</li> </ul>

and Wiring	Power Points	<ul> <li>nt's operable. The power sup ply of these points is from the generator.</li> <li>Each of these power points h as both 5A and 15A (12 nos of 5A &amp; 5nos of 15A)</li> </ul>
Lighting	Lighting	LED lights & Tube Lights in the la b for adequate illumination.
Eye wash pump	Eye Wash Pump	Suitable eye wash pump shall be provided near the wash basin.
	Weighing Range (gm )	300g / 0.01 g
Digital Balance	Readability	0.01 g
Digital Dalafice	Repeatability	± 0.03 g
	Power Supply	AC Adapter : 9V / 500 mA
	Approx. size of Body Outer Size	Laminar Air Flow (WxDxH) in mm - 710 x 610 x 1040
	Approx. size of Inner Chamber Size	Laminar Air Flow working area (W xDxH) in mm - 625 x 515 x 450 · Completely made of 304 gra
Clean Air Biological Sec tion Cabinet	Specification for La minar Air Flow	<ul> <li>des S.S. workbench covered with 304 SS grade perforated sheet, microprocessor control digital display with filter alar m.</li> <li>Microprocessor based switch for blower and fluorescent lig ht, UV light with LCD system.</li> <li>Pre Filter 99.00% down to 5 micron.</li> <li>HEPA Filter: ISO 14644 Class 5 (Class 100), 99.97%- 99.99 % down to 0.3 micron, mesh guard for protection of HEPA f ilters.</li> <li>Air flow: Vertical.</li> <li>Noise Level: 60 decibel ±5%</li> <li>.</li> <li>Velocity: 0.35-0.50m/sec.</li> <li>Work Table: 304 Grade S.S. &amp; Cock for gas on work table.</li> <li>Front Door: Acrylic.</li> <li>UV lamp: 15/30w Philips Holl and.</li> <li>Illumination: 20/40w floresce nt tube with defogger. Power: 230V, 50Hz.</li> <li>Air Flow Type: Constant Air V olume type with automatic b y pass.</li> <li>Interior Construction and Lin ers: Standard Model with thic k Water/Heat/Fire Resistant P henolic Resin Lamination</li> <li>Support Base with storage c abinet.</li> </ul>

		<ul> <li>The storage cabinet at base to store chemical or apparatu s and fitted with exhaust port connected internally to, work in tandem with the main exha ust system.</li> <li>Electric Supply Socket: Two sockets to be located on the s ide panel for optimum conven ience of using small electrical devices inside the cabinet</li> <li>Front Counter balanced Sas h/ Shutter: A vertical rising sa sh/ shutter consist of a thick t oughened transparent glass/ Acrylic window for a clear insi de view. The sash should be c ounter balanced for smooth a nd lightweight operation for e asier access to work zone an d enhanced user safety.</li> <li>Sash (Window): Made of 6-8 mm thick toughened transparent glass/ Acrylic</li> <li>Apparatus Holding Grid: App aratus holding grid for easy cl amping/ holding to various la boratory glassware's and acc essories.</li> </ul>
	Capacity (Liter)	28.0 - 30.0
	Temp. Range	5°C to 60°C (Resolution 0.1°C)
BOD Incubator	Temp. Accuracy	±0.5°C at 37 °C
(Portable Type)		Force Convention Type
	MOC Outer	Made of Stainless Steel (SS- 304)
	MOC Inner	Chamber and trays made of Stain less Steel (SS-304)
	Body Outer Size (Ap prox. size)	Fume Hood (WxDxH) in mm - 111 0 x 610 X 1040
	Inner Chamber Size ( Approx. size)	Fume Hood working area (WxDxH ) in mm - 800 x 400 x 700
		• Double wall construction made of Stainless Steel as per requirem ent. The construction materials of fume hoods are type 304 stainles s steel
		• Fume hood generally equipped with vertical sashes but as requir ed horizontal sashes can be fixed
		<ul><li>Front Door: Acrylic.</li><li>UV lamp: 15/30w Philips Hollan</li></ul>
		d.

Fume Hood		• Illumination: 20/40w florescent.
Chemical		<ul> <li>Highly recommended for exhau st of toxic gases, acidic/alkaline f</li> </ul>
Section with	Specification of FUM	umes, chemical vapours, remova
Exhaust System		ble of odours etc. from the hood working area.
& Glove Ports &	E HOOD Cabinet	• These fume hoods are designed
Attached Lab		in both Ducted and ductless patt ern.
Blender in The		• The front door moves vertically
Work Station		up and down with concealed coun ter balanced weight.
		• Electric Supply Socket: Two soc kets to be located on the side pan el for optimum convenience of us ing small electrical devices inside the cabinet
		• Front Counter balanced Sash/ S hutter: A vertical rising sash/ shut ter consist of a thick toughened tr ansparent glass/Acrylic window fo r a clear inside view. The sash sh ould be counter balanced for smo oth and light weight operation for easier access to work zone and e nhanced user safety.
	Front facing panel	To be fitted with 15/5 Amp socket with switched for exhaust system and fluorescent light
	Power Supply	220 / 230 volts A.C. Supply.
		<ul> <li>Raw Milk Quality and Adulter ation Screening Analyzer sho uld be a portable instrument, based on the Advanced FTIR Technology approved by glob al bodies like AOAC INTERNA TIONAL (Association of Officia I Analytical Chemists), IDF {In ternational Dairy Federation) 141:2013{E) and ISO (Interna tional Standards Organization ). ISO 9622:2013(E), which re commends the application of FTIR Technology for Liquid Mil k Analysis.</li> <li>Raw Milk Quality and Adulter ation Screening Analyzer sho uld use the recommended FTI R technology for Milk Paramet er analysis like Fat, SNF and Protein.</li> <li>Raw Milk Quality and Adulter ation Screening Analyzer sho uld include an inbuilt calibrati on including a detailed "finge rprint" of the Milk Sample's c hemical composition.</li> <li>Raw Milk Quality and Adulter</li> </ul>

Rapid Milk Screpparatus / Raw ality and Adult Screening Ar	Milk Qu creen teration Raw I Adult	ay Rapid Milk S ing Apparatus / Milk Quality and eration Screeni alyzer	ualify the Milk a
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ng Analyzer sho he spectrum of w Milk with the ure Raw Milk th e FTIR analyzer al techniques c and SEP (comm niques in spect

ison and differe aw Milk Quality on Screening A display the ab mple milk.

Quality and Ad ening Analyzer to give a DIRE ent of FAT, SNF and not a softw display

lity and Adulter ng Analyzer sho screen maximu common adulte ame FTIR techn ent concentratio dded Water, Ur n Sulphate, Suc trin, Glucose, S ine, Sodium Chl Citrate, Starch, oxide, Formalde nts, Sodium Ca im bicarbonate, when mixed wit nulsifier; and Q as Abnormal Mi splay Milk Abno ne of the chemi h chemicals are < at various con</pre>

Quality and Ad ening Analyzer splay the prese adulterants lik r, Urea, Sucrose Sulphate and M

ein calibrations ensitized towar ce of common a erefore assuring SNF and Protein ed by the prese dulterants.

photometer sho analyze raw un Milk sample for tein in the rang to maximum ra % Fat b. 0-8% P 6 SNF

he FTIR spectro

		<ul> <li>photometer milk parameters to be submitted by the manuf acturer.</li> <li>a. Fat ≤ 0.14 SD</li> <li>b. Protein ≤ 0.10 SD</li> <li>c. SNF ≤ 0.14 SD</li> <li>Repeatability of the FTIR spe ctrophotometer milk paramet ers to be submitted by the m anufacturer.</li> <li>a. Fat ≤ 0.05 SD</li> <li>b. Protein ≤ 0.05 SD</li> <li>c. SNF ≤ 0.10 SD</li> <li>Analysis speed required 40- 50 seconds</li> <li>Instrument warm up time M aximum 20-30 minutes.</li> <li>Sample Temperature Raw Mi lk should able to be measure d in a temperature range of 5 -40 deg. C</li> <li>Sample Volume should be le ss than 5 ml.</li> <li>Display LCD, Graphical Displ ay</li> <li>Built-in Diagnostics: Optics T est, Cuvette test, Stability tes t, Cleaning Message display, Error Message display</li> <li>Manuals: Instrument should be supplied with Quick Guide, User Manuals</li> <li>Training and Installation: Tra ining and Installation services should be offered along with the Instrument</li> </ul>
	pH range	0 to 14.00,
Digital Multi- Parameter Hand	TDS	0 to 1000 ppm or better
Held Meter (pH,	Conductivity	0.00 - 20.00 mS/cm or better
Conductivity,	mV	-1000 to 1000 mV or better
TDS and	Temperature	0.0 to 60.0 °C, 32 to 140.0 °F
Temperature)	Power	DC 1.5 V x 4 battery (UM-4/AAA) Auto power off after 10 minutes
	Sugar Content / Tem perature Range	Brix -0 to 85% or better
	Temperature Range	0 to 40°C or better (32 to 104°F or better)
	Refractive Index	1.3330 to 1.5000 or better
	Sugar Content Resol ution/Accuracy	0.1% Brix/ ±0.5% Brix or better
Digital refractometer/ B	Refractive index Res	

utyro refractometer -Po	olution / Accuracy	0.0001 / ± 0.0003 or better
rtable	Temperature Resolut ion/Accuracy	0.l °C (0.l°F)/ ±0.5 °C {± 1 °F) or better
	Measurement Time	Approximately 3 seconds or bette r
	Display	LCD
	Battery Type / Life	9V or AAA / approximately 5000 r eadings
	Body	M.S. Body with S.S. top
Hot Plate	Size	10" x l2" rectangular or 10" x 10" circular
	Power Supply	220/230 volts AC, Supply 50 Hz S ingle Phase I.5KW
	м.о.с	Stainless Steel 304, Single wall C hamber
Portable Autoclave	Capacity	20 Ltrs 2.0 KW, 0-2.1 kgf/cm 2 {3 0 psi)
	Exhaust of pressure	Manually through exhaust valve
	Power Supply	220/230 volts AC, 50-60 Hz
	No. of jars	At least 2 jars
	Power supply	50Hz : 220-240V;
Mixer Grinder	Power consumption	500 Watt
	Operation	at 3 different speeds
	Jar Material	Stainless steel
	Screen Size	20 inch
	Processor type	i5 or higher
	Processor Generatio n	10th
	Graphic Card (GB)	Integrated Graphics(Dedicated/Di screte)
Desktop Computer and other accessories with wi-fi facility	RAM Size	4 GB or higher
	Hard Disk type	SSD
	Total HDD Capacity ( GB)	500 GB or higher
	Power Supply Capaci ty (Watt)	150.0 - 150.0 Or lower

	Operating System	Windows 10 Professional
	Printer	LaserJet multifunction (Print, Cop y & Scan) monochrome printer
	Power	12 V
	Mike	1 no.
Public Address System	Amplifier	1 no.
	Speaker	2 no.
Fire Extinguisher	Types	ABC
GPS Tracker	GPS Tracker	GPS based Vehicle Tracking Devic es - Intangles Make [complete inf ormation related to GPS tracking along with GPS integration( <b>open</b> <b>API</b> )
		Qty- 1 no.
	Test Tube stand	Material- polycarbonate or equiv alent
	Spatula Holder	Qty- 1 no.
	Separating Funnel H	Qty- 1 no.
	older with Stand	Rod, Base and Holder
	Pipette Stand	Qty- 1 no.
	Stools	Qty- 2 no.
Other accessories	· · ·	Material- SS
	Sitting arrangement s	Fixed Seat with backrest - 2 nos.
		Front Seat with backrest (excl. D river seat) – 2 nos.
	Dustbin ·	Qty- 2 no.
	Tissue Paper Holder	Qty 1 no.
	Liquid Soap Dispens er	Qty. – 1 no.
	White Board with Ma rker Pen and Duster	Qty. – 1 no.
Other Equipment Tools	Other Equipment Tools	<ul> <li>Basic tools for simple repairs Equipment I (screwdrivers, wr enches etc.) tools</li> <li>Emergency kit (extinguisher, towing cable, emergency sign , emergency light)</li> <li>First-aid kit</li> </ul>
Warranty of all above i		

ncluding Calibration an d other necessary servi ces (if any)

\*\* Make, Model of the vehicle and other equipment must be mentioned in heet in the Technical Bid.

separat

#### B. WHO CAN BID

The bidder must be an Indian based manufacture of the base vehicles/c ustomized vans of similar nature viz ambulance, food truck with controlled a tmosphere, mobile hospitals, mobile health check up van, mobile training/ ex hibition van, mobile water and soil testing van etc or its authorized sole sale & service dealer/ Fabricator.

In case fabrication of the Mobile Food Testing Laboratory is carried ou t other than base Vehicle Manufacturing Plant, the bidder has to mention the name & address of the Fabricator Workshop in the technical bid documents a long with the documentary proof of the fabricator workshop that having in ho use facility to produce completes Mobile Food Testing Laboratory.

The Bidder should have been in its comprehensive operational aftersa le service network in the state of West Bengal at least for last three years.

#### C. Inspection, Testing and Quality Control

Pre-Inspection of fabrication of Mobile Food Testing Laboratory by the bidders: The bidder should satisfy themselves that the fabrication work of Mobile Food Testing I boratory are in accordance with the terms of the contract and fully conform to the required specification by carrying out a thorough pre-inspection including shower st of the Mobile Food Testing Laboratory before actually tendering the same for i pection to the Inspection Committee nominated under the terms of Contract. Such recaution on the part of the bidder minimizes the chances of rejection and the cor quences thereof.

<u>Inspection during fabrication</u>: - Bidder should intimate the TIA in writing for sta inspection before installing Food Testing Laboratory equipments and finalizing ec pments layouts.

Pre-Dispatch Inspection by Inspection Committee:

i) The Mobile Food Testing Laboratory on no account be dispatched / deliver

without getting the same inspected and issue of Inspected notes by the Inspectior ommittee nominated in this reference.

ii) The Bidder should ensure that fabrication work of Mobile Food Testing Lab atory accepted by the Inspection Committee after inspection have been properly nd legibly stamped by latter's identification stamp/Seal.

iii) The Bidder shall allow all reasonable facilities and free access to his works nd records to the Inspection Committee. The Bidder shall afford to the Inspection mmittee all reasonable facilities as may be necessary for satisfying himself that th Mobile Food Testing Laboratory are being and/or have been manufactured/Fabric ed in accordance with the contract requirements. For the aforesaid purpose it may equire the fabricator to make arrangements for inspection and/or testing of the s plies or any part thereof or any material at his premises or at any other place spec ed by the Inspection Committee. The samples, all materials, tools, labour, testing quipment and assistance which the Inspection Committee may demand of him to rify the conformity of the ambulances to the quality requirement etc. will b provid without any extra charge.

iv. Inspection by a committee with regard manufacturing capacity & availabil of infrastructure prior to acceptance offer may be undertaken by the department, case of any deviation is found in tender submission and conclusion of by inspectic committee aforesaid, the offer of the Bidder may not be considered.

### D. Packing & Insurance

i) The Mobile Food Testing Laboratory will be delivered at the destination ir erfect condition. The firm if so desires may insure against loss by theft, destructic or damage during transit/fabrication under exposure to weather of otherwise in ar situation. The insurance charges will have to be borne by the fabricator and the d artment shall not be required to pay any such charges, if incurred.

ii) In the event of any loss or damage to the Mobile Food Testing Laboratory duri transit, firm shall be liable for repair and replace the Mobile Food Testing Laborato

at destination after the Checking/inspection of Mobile Food Testing Laboratory by the consignee. No extra cost on such account shall be admissible.

### E. Emblems, Marking & Colour Scheme

Complete body exterior should be uniform white in colour. All external marking sh uld be retro- reflective in nature, Standard Specification for Retro-reflective sheeti g for Traffic Control. **All exterior full body Graphic design & lettering shoulc be as per requirement of the TIA (As per specific requirement of custom r).** 

#### F. Layout Drawings

The bidders MUST provide 2D & 3D rendered drawings for the quoted Mobile Food Testing Laboratory showing location of various components, sub-assemblies for s ructure, interior layouts, fitment of Testing equipments, layout of seats & furniture medical equipments, non-OEM electrical system layout, etc along with the technic I bid.

"Participated bidders are requested to submit their Contact details, Ema ID and Address in the additional documents section while submitting the bid documents in GeM portal. The details should be submitted in a letter ead of the company with signature and stamp"

### Amendment I

**1.** Point No.2 ". Experience Criteria: Bidder should submit following documents of same similar type of equipment in support of supplies made to Govt. Hospitals or reputed private hospitals for the period of last three calendar years ending December 2022:

Proof of installation (Installation certificate / Service report duly signed by the spital / /healthcare facility) of the same / similar type of equipment.

#### OR

 Proof of payment against supply and installation of the same / similar type of equip ent ".....DELETED

2. Bidder should mention the bid reference number along with the quoted make and model of the Ba vehicle & equipment in the OEM Authorization certificate and the certificate should be issued to bidd rom OEM after publishing of the bid. However, authorization for Rapid Milk Screening Apparatus / Rav Milk Quality and Adulteration Screening Analyzer may be submitted either during submission of bid o rior to issuance of Award of Contract

3.Delivery Timeline : 60 Days

## 4. Revised Technical Specifications

### <u>Mobile Food Testing Laboratory (MICROBIOLOGY READY) -</u> SSAI

#### Major product category: Motor Vehicles

Parameters	Descriptions	Bid Require ment (Allowed Val ues)
	Category of Vehicle	Medium
	Vehicle Engine capacit y	2500 cc or above

	Minimum Engine Torqu e (Nm) at rated RPM	220.0 or higher
	Type of Fuel	Diesel
	Vehicle Emission Compl iance	BS -VI,Stage-2
	Type of Steering	Power Operated
	Ground Clearance (mm )	180 to 210
Vehicle parameters(Ge neric)	Length of the Va n body (Lab area) excluding driver c abin.	2900mm and above.
	Inside height of t he Van body (Lab area.	1800 mm or abov e.
	Width of the Van body (Lab area)	1750mm or above.
	Pay load capacity of the vehicle	2600kgs or above.
	No of wheels	<mark>Rear -4</mark> , Front-2, Stepn ey-1
	Type of rear door	Two leaf divided rear door or flap t ype rear door at r ear end with side -ways opening.
	Additional require ment	The alignment be tween the driver cabin and van bo dy is a critical re quirement for thi s project. It is im perative that no part of the van b ody projects or o utlines beyond th e dimensions of t he driver cabin.
	Warranty:-	Comprehensive warranty for 3 (th ree) lakh Km / 3- year whichever is earlier.

Van Body	<ul> <li>The Insulated Van is fabricated as per the requirement of the conditions insid e the unit.</li> <li>The PUF Insulated Van Body is built an d designed for tran sportation of perish able materials at Lo w Temperature and in Highly Clean and Hygiene Conditions.</li> </ul>
Features of the Panel V an	<ul> <li>Base frame made up of I00X50mm ch annel.</li> <li>Cross channel 75X 40mm.</li> <li>External Structure made up of 1.6 mrn GI sheets</li> </ul>
	<ul> <li>Plane sheet for the Van made out of 1. 6 mm GI and inside 0.5 mm SS 304 gra de/3mm FRP.</li> <li>All sheets joints ar e continuously weld ed with MS welding rod to strength the Van. The internal st rength is given by t he internal framing by pipes/ MS strips.</li> <li>The external paint colour shade and m arking shall be as p er specific custome r requirements.</li> <li>The PUF will have average density of 38 - 40 kg/m3 and t hermal conductivity value of 0.017 W/ m deg. K. All six sid es of the Body shall be homogeneously insulated with PUF.</li> <li>The average insula tion thickness will b e 50 mm.</li> <li>Rear Door with Flu sh Toughened Glass Windows (02 Flaps)</li> <li>Sliding windows x 2, Fixed Windows - 1 no.</li> <li>The Van Body floor is 16 mm plywood I aid over the insulati on.</li> <li>Insulated Body is d ouble door fitted wi</li> </ul>

Van Body       eals.         Van Body       - Electri- lectrical e done equirem of sock s , Light an (DC).         Others       - Chassi egratior         Others       - Chassi egratior         Others       - Chassi egratior         Others       - The in ng of th artment, devented and Che Flow Are         • Tough s partition egration       - The in ng of th artment, devented and Che Flow Are         • Taget       - The in ng of th artment, devented and Che Flow Are         • Taget       - The in ng of th artment, devented and Che Flow Are         • Taget       - The in artice;         • Taget       - The in artice;         • The in al shoul ollowing stics; The inimum       - The in al shoul ollowing stics;         • The in al shoul ollowing stics;       - Suffic	ened Glas ion in betw robiological emical Work ea. on betwee edure cabi door panels other surfac e compartm uld be mad ong life sup ality materi as non-halo I Flame Ret Polymer of g 196 HF. terior materi d have the f characteri nickness - m 3.0 mm, tardant as p 746 of 1988 t equivalent cable. No p shall be allo sulating mat puld be hea thermal PU tion to provi er temperat trol. ient reinforc for holding t
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		<ul> <li>ed equipment secu rely while in transit should be present o n the side walls</li> <li>The van interiors a re suitable for easy cleaning, scientific f umigation &amp; treatm ent with disinfectan ts. Joints should be flushed, seamless, hermetically sealed , waterproof &amp; easy to disinfect. All inte rior materials shall comply with the fire safety requirement s.</li> </ul>
Exterior	Exterior	<ul> <li>The vehicle has a n additional Exhaus t fan. The Body has a carrier and the La dder.</li> <li>Ceiling of the bod y should have insul ator material (as co ating or a material) on the inside.</li> <li>Glass Window (siz e 50" X18") for com plete Toughened Gl ass (6mm thicknes s) view Panel sized 54"X56" with MS Frame Structur e (duly painted 2" i n size) for provision for displa y of TV, Books (A4 size) and posters (A3 size)</li> <li>Electronic Scroller Display (Left Side)</li> <li>Outdoor Image Di splay Scroller with additional provision with Toug hened Glass 5 mm with operable door and FRP cover from inside (48"X36")</li> <li>There is one set of a radio and an amp lifier along with tw o movable loud spe akers with fixtures on the roof.</li> <li>Foot step is at the back end of the veh icle for entering/cli mbing</li> <li>Workbenches on b</li> </ul>
		<ul> <li>Workbenches on b oth sides with adeq uate moving space</li> </ul>

of a minimum two f eet in the central a rea. Workbenches have storage below and above the wor king platforms. All t he work benches s hould be made of S S-304 {16 SWG (1. 6 mm) for top of th e bench and 18 SW G (1.2 mm) for the body of the bench). All the storage cabi net and drawers for storing minor instr uments, accessorie s, basic glassware and chemicals mus t be made of SS-30 4 only.

- Space is provided for safely fixing the generator,
  - refrigerator and als o securing the gas cylinder(s).
- The interior have c hemical resistant Vi nyl / PVC flooring o r any suitable mate rial.
- Provision is made to safely secure the equipment under a vibration free, cush ioned and fitting se parations in order t o prevent any dam age during the vehi cle is under movem ent.
- Sliding windows is provided on both t he walls of the vehi cle.
  - Collapsible/retract able ledge of 9-inc h depth x 30 inch { 18 SWG (1.2 mm) of SS 304} outside one of the windows for acceptance of s amples. This ledge is in such a way th at it can be secure d flat on the body o f the vehicle when the MFTL is on the move.
  - Stowing area/roo m for accommodati ng the stools after working.

Interior

(All furniture-

SS 304 Grade)

Power Supply	Power Supply	<ul> <li>Tissue paper roll h older, hand wash h older, towel holder, spatula holder, twe et pipette holder, t est tube stand hold er, separating funn el holder etc. is pla ced inside the lab i n such a way that i t can be accessed by sitting on the st ool itself. The bottl e holder should be air tight and spillag e free.</li> <li>The door have full length grab rail tha t is not projecting o utside from the doo r front surface. The grab rails should b e made of powder c oated Aluminium.</li> <li>Dedicated space f or keeping One 10 l iters carboy to be p rovided.</li> <li>Appropriate space and easily accessib le positioning for pl acing fire extinguis her.</li> <li>Fabrication : Warr anty as per the bid criteria</li> <li>One Dual Mode Pe trol driven Silent G enerator with self s tart of a minimum 7 KVA. One 5 KVA UPS to be provides as Backup for the G enerator for minim um 45 min -1 HR B ackup. All equipme nt/AC should be po wered by gen-set when stationary OR external line availa ble at location to th e Genset.</li> <li>Minimum of 10 m eter cable for direct connection of power r from outside sour ces is required.</li> </ul>
	Capacity of fresh wat er tank (liter)	100 (minimum)

Water Tank and Sink (Acid and Alkaline resist	Capacity of waste wa ter collecting tank wi th outside drain (liter)	100 (minimum)
ant)	Sink	Sink of SS, moulded as one piece. The minimu m dimension of the sin k is 32x32x20 cms. The sink does not have any sharp corners inside
	Type of Air Condition er	Split (having Copper coil)
	Nominal cooling cap acity in Ton	1
Air Conditioner includin g Compressor	BEE Star Rating	3
	Others	In-door unit is installed appropriately for unifor m cooling inside the la b area
	Capacity	80 - 100 Litres
Refrigerator	Type of Door	Single
	Temperature	0-4 <sup>o</sup> C
	Туре	LED (Smart)
Television	Screen Size	40 Inches
	Screen Resolution	1920 x 1080 (Full HD)
	Minimum number of Power points on eac h side on two work b enches	6 nos. or higher
Electrical Fittings and Wiring	Power Points	<ul> <li>Minimum six power points on each side are given on two w ork benches to mak e equipment's oper able. The power su pply of these points is from the generat or.</li> <li>Each of these powe r points has both 5 A and 15A (12 nos of 5A &amp; 5nos of 15A )</li> </ul>
Lighting	Lighting	LED lights & Tube Light s in the lab for adequat e illumination.
Eye wash pump	Eye Wash Pump	Suitable eye wash pum p shall be provided nea r the wash basin.

	Weighing Range (gm )	300g / 0.01 g
	Readability	0.01 g
Digital Balance	Repeatability	± 0.03 g
	Power Supply	AC Adapter : 9V / 500 mA
	Approx. size of Body Outer Size	Laminar Air Flow (WxD xH) in mm – 710 x 610 x 1040
	Approx. size of Inner Chamber Size	Laminar Air Flow worki ng area (WxDxH) in m m - 625 x 515 x 450
Clean Air Biological Sec tion Cabinet		<ul> <li>Completely made of 304 grades S.S. workbench covered with 304 SS grade perforated sheet, microprocessor con trol digital display with filter alarm.</li> <li>Microprocessor ba sed switch for blow er and fluorescent l ight, UV light with L CD system.</li> <li>Pre Filter 99.00% down to 5 micron.</li> <li>HEPA Filter: ISO 1 4644 Class 5 (Class 100), 99.97%- 99.9 9% down to 0.3 mi cron, mesh guard f or protection of HE PA filters.</li> <li>Air flow: Vertical.</li> <li>Noise Level: 60 de cibel ±5%.</li> <li>Velocity: 0.35-0.5 0m/sec.</li> <li>Work Table: 304 G rade S.S. &amp; Cock fo r gas on work table</li> <li>Front Door: Acrylic</li> <li>UV lamp: 15/30w Philips Holland.</li> <li>Illumination: 20/4 0w florescent tube with defogger. Pow er: 230V, 50Hz.</li> <li>Air Flow Type: Con stant Air Volume ty pe with automatic by pass.</li> <li>Interior Constructi on and Liners: Stan dard Model with thi ck Water/Heat/Fire</li> </ul>

	Specification for Lam inar Air Flow	<ul> <li>Resistant Phenolic Resin Lamination</li> <li>Support Base with storage cabinet.</li> <li>The storage cabin et at base to store chemical or appara tus and fitted with exhaust port conne cted internally to, work in tandem wit h the main exhaust system.</li> <li>Electric Supply So cket: Two sockets t o be located on the side panel for opti mum convenience of using small elect rical devices inside the cabinet</li> <li>Front Counter bal anced Sash/ Shutte r: A vertical rising s ash/ shutter consist of a thick toughene d transparent glass /Acrylic window for a clear inside view. The sash should be counter balanced f or smooth and light weight operation fo r easier access to work zone and enh anced user safety.</li> <li>Sash (Window): M ade of 6-8 mm thic k toughened transp arent glass/Acrylic</li> <li>Apparatus Holding Grid: Apparatus hol ding grid for easy c lamping/ holding to various laboratory glassware's and ac cessories.</li> </ul>
	Capacity (Liter)	28.0 - 30.0
	Temp. Range	5°C to 60°C (Resolution 0.1°C)
BOD Incubator (Portable Type)	Temp. Accuracy	±0.5°C at 37 °C Force Convention Type
	MOC Outer	Made of Stainless Steel (SS- 304)
	MOC Inner	Chamber and trays ma de of Stainless Steel (S S-304)

	Body Outer Size (Ap prox. size)	Fume Hood (WxDxH) in mm - 1110 x 610 X 104 0
	Inner Chamber Size ( Approx. size)	Fume Hood working ar ea (WxDxH) in mm - 80 0 x 400 x 700
		• Double wall construct ion made of Stainless S teel as per requirement . The construction mat erials of fume hoods ar e type 304 stainless st eel
		• Fume hood generally equipped with vertical sashes but as required horizontal sashes can b e fixed.
		• Front Door: Acrylic.
		• UV lamp: 15/30w Philips Holland.
		• Illumination: 20/40w f lorescent.
Fume Hood		<ul> <li>Highly recommended for exhaust of toxic gas es, acidic/alkaline fume</li> </ul>
Chemical Section with		s, chemical vapours, re movable of odours etc. from the hood working area.
Exhaust System	Specification of FUM	These fume hoods ar
& Glove Ports & Attached Lab	E HOOD Cabinet	e designed in both Duc ted and ductless patter n.
Blender in The		• The front door moves
Work Station		vertically up and down with concealed counter balanced weight.
		• Electric Supply Socke t: Two sockets to be loc ated on the side panel f or optimum convenienc e of using small electric al devices inside the ca binet
		• Front Counter balanc ed Sash/ Shutter: A ver tical rising sash/ shutte r consist of a thick toug hened transparent glas s/Acrylic window for a c lear inside view. The sa sh should be counter b alanced for smooth and light weight operation f or easier access to wor

	k zone and enhanced u ser safety.
Front facing panel	To be fitted with 15/5 A mp socket with switche d for exhaust system a nd fluorescent light
Power Supply	220 / 230 volts A.C. Su pply.
	<ul> <li>Raw Milk Quality a nd Adulteration Scr eening Analyzer sh ould be a portable i nstrument, based o n the Advanced FTI R Technology appr oved by global bodi es like AOAC INTER NATIONAL (Associa tion of Official Anal ytical Chemists), ID F {International Dairy Federation) 1 41:2013{E) and IS O (International Sta ndards Organizatio n). ISO 9622:2013( E), which recomme nds the application of FTIR Technology for Liquid Milk Anal ysis.</li> <li>Raw Milk Quality a nd Adulteration Scr eening Analyzer sh ould use the recom mended FTIR techn ology for Milk Para meter analysis like Fat, SNF and Protei n.</li> <li>Raw Milk Quality a nd Adulteration Scr eening Analyzer sh ould include an inb uilt calibration inclu ding a detailed "fin gerprint" of the Mil k Sample's chemic al composition.</li> <li>Raw Milk Quality a nd Adulteration Scr eening Analyzer sh ould include an inb uilt calibration inclu ding a detailed "fin gerprint" of the Mil k Sample's chemic al composition.</li> <li>Raw Milk Quality a nd Adulteration Scr eening Analyzer sh ould compare the Si pectrum of the Sa mple Raw Milk with the spectrum of Pu re Raw Milk that is built-in the FTIR an alyzer using statisti cal techniques called the PCA and SEP (commonly use</li> </ul>

pparatus / Raw Milk Qu ality and Adulteration	Display Rapid Milk S creening Apparatus / Raw Milk Quality and Adulteration Screeni ng Analyzer	<ul> <li>d techniques in spe ctroscopy).</li> <li>After comparison and differentiation, the Raw Milk Qualit y and Adulteration Screening Analyzer should display the abnormality in sam ple milk.</li> <li>The Raw Milk Qual ity and Adulteratio n Screening Analyz er should be able t o give a DIRECT Me asurement of FAT, SNF and PROTEIN a nd not a software c alculated display</li> <li>Raw Milk Quality a nd Adulteration Scr eening Analyzer sh ould be able to scr een maximum num ber of common adu lterants by the sam e FTIR technique at different concentra tion levels like Add ed Water, Urea, A mmonium Sulphate , Sucrose, Maltodex trin, Glucose, Sorbit ol, Melamine, Sodium Citrate, Starch, Hy drogen Peroxide, F ormaldehyde, Dete rgents, Sodium Car bonate, Vegetabl e Oil when mixed w ith Chemical Emuls ifier; and Qualify th e Milk as Abnormal Milk. It should displ ay Milk Abnormalit y or name of the ch emicals when such chemicals are pres ent in Milk at vario us concentrations</li> <li>The Raw Milk Qual ity and Adulteratio n Screening Analyz er should also displ ay the presence of primary adulterant s like Added Water, Urea, Sucrose, Am monium Sulphate a. nd Maltodextrin.</li> </ul>
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•	Sample Temperat ure Raw Milk shoul d able to be measu red in a temperatur e range of 5-40 deg . C Sample Volume sh ould be less than 5 ml. Display LCD, Grap hical Display
•	Sample Temperat ure Raw Milk shoul d able to be measu red in a temperatur e range of 5-40 deg . C Sample Volume sh ould be less than 5 ml. Display LCD, Grap hical Display Built-in Diagnostic s: Optics Test, Cuv ette test, Stability t
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•	Sample Temperat ure Raw Milk shoul d able to be measu red in a temperatur e range of 5-40 deg . C Sample Volume sh ould be less than 5 ml. Display LCD, Grap hical Display Built-in Diagnostic s: Optics Test, Cuv ette test, Stability t est, Cleaning Message display, E
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	Sample Temperat ure Raw Milk shoul d able to be measu red in a temperatur e range of 5-40 deg . C Sample Volume sh ould be less than 5 ml. Display LCD, Grap hical Display Built-in Diagnostic s: Optics Test, Cuv ette test, Stability t est, Cleaning Message display, E rror Message displa

		<ul> <li>Manuals: Instrume nt should be suppli ed with Quick Guid e, User Manuals</li> <li>Training and Instal lation: Training and Installation services should be offered along with t he Instrument</li> </ul>
	pH range	0 to 14.00,
	TDS	0 to 1000 ppm or bette r
Digital Multi- Parameter Hand	Conductivity	0.00 - 20.00 mS/cm or better
Held Meter (pH,	mV	-1000 to 1000 mV or b etter
Conductivity, TDS and	Temperature	0.0 to 60.0 °C, 32 to 14 0.0 °F
Temperature)	Power	DC 1.5 V x 4 battery (U M-4/AAA)
		Auto power off after 10 minutes
	Sugar Content / Tem perature Range	Brix -0 to 85% or bette r
	Temperature Range	0 to 40°C or better (32 to 104°F or better)
Digital refractometer/ B	Refractive Index	1.3330 to 1.5000 or be tter
	Sugar Content Resol ution/Accuracy	0.1% Brix/ ±0.5% Brix or bet ter
utyro refractometer -Po rtable	Refractive index Res olution / Accuracy	0.0001 / ± 0.0003 or b etter
	Temperature Resolut ion/Accuracy	0.l °C (0.l°F)/ ±0.5 °C { ± 1 °F) or better
	Measurement Time	Approximately 3 secon ds or better
	Display	LCD
	Battery Type / Life	9V or AAA / approximat ely 5000 readings
Hot Plate	Body	M.S. Body with S.S. top
	Size	10" x l2" rectangular or 10" x 10" circular
	Power Supply	220/230 volts AC, Supp ly 50 Hz Single Phase I.

	ļ	5КW
Portable Autoclave	м.о.с	Stainless Steel 304, Sin gle wall Chamber
	Capacity	20 Ltrs 2.0 KW, 0-2.1 k gf/cm 2 {30 psi)
	Exhaust of pressure	Manually through exha ust valve
	Power Supply	220/230 volts AC, 50-6 0 Hz
	No. of jars	At least 2 jars
	Power supply	50Hz : 220-240V;
Mixer Grinder	Power consumption	500 Watt
	Operation	at 3 different speeds
	Jar Material	Stainless steel
	Screen Size	20 inch
	Processor type	i5 or higher
	Processor Generatio n	10th
	Graphic Card (GB)	Integrated Graphics(De dicated/Discrete)
	RAM Size	4 GB or higher
Desktop Computer and other accessories with	Hard Disk type	SSD
wi-fi facility	Total HDD Capacity ( GB)	500 GB or higher
	Power Supply Capaci ty (Watt)	150.0 - 150.0 Or lower
	Operating System	Windows 10 Profession al
	Printer	LaserJet multifunction ( Print, Copy & Scan) mo nochrome printer
Public Address System	Power	12 V
	Mike	1 no.
	Amplifier	1 no.
	Speaker	2 no.

GPS Tracker	GPS Tracker	GPS based Vehicle Trac king Devices - Intangle s Make [complete infor mation related to GPS t racking along with GPS integration( <b>open API</b> )
Other accessories	Test Tube stand	Qty- 1 no. Material- polycarbonat e or equivalent
	Spatula Holder	Qty- 1 no.
	Separating Funnel H older with Stand	Qty- 1 no. Rod, Base and Holder
	Pipette Stand	Qty- 1 no.
	Stools	Qty- 2 no. Material- SS
	Sitting arrangements	Fixed Seat with backr est - 2 nos.
		Front Seat with backre st (excl. Driver seat) – 2 nos.
	Dustbin ·	Qty- 2 no.
	Tissue Paper Holder	Qty. – 1 no.
	Liquid Soap Dispens er	Qty 1 no.
	White Board with Ma rker Pen and Duster	Qty 1 no.
Other Equipment Tools	Other Equipment Too Is	<ul> <li>Basic tools for sim ple repairs Equipm ent I (screwdrivers, wrenches etc.) tool s</li> <li>Emergency kit (ex tinguisher, towing c able, emergency si gn, emergency light )</li> <li>First-aid kit</li> </ul>
Warranty of all above in cluding Calibration and other necessary service s (if any)	-	5 years(other than bas e vehicle)

\*\* Make, Model of the vehicle and other equipment must be mentioned in n the Technical Bid.

separate shee

## **B. WHO CAN BID**

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The bidder must be an Indian based manufacture of the base vehicles/c ustomized vans of similar nature viz ambulance, food truck with controlled a tmosphere, mobile hospitals, mobile health check up van, mobile training/ ex hibition van, mobile water and soil testing van etc or its authorized sole sale & service dealer/ Fabricator.

In case fabrication of the Mobile Food Testing Laboratory is carried ou t other than base Vehicle Manufacturing Plant, the bidder has to mention the name & address of the Fabricator Workshop in the technical bid documents a long with the documentary proof of the fabricator workshop that having in ho use facility to produce completes Mobile Food Testing Laboratory.

The Bidder should have been in its comprehensive operational aftersa le service network in the state of West Bengal at least for last three years.

### C. Inspection, Testing and Quality Control

Pre-Inspection of fabrication of Mobile Food Testing Laboratory by the bidders: The bidder should satisfy themselves that the fabrication work of Mobile Food Testing I boratory are in accordance with the terms of the contract and fully conform to the required specification by carrying out a thorough pre-inspection including shower st of the Mobile Food Testing Laboratory before actually tendering the same for i pection to the Inspection Committee nominated under the terms of Contract. Such recaution on the part of the bidder minimizes the chances of rejection and the cor quences thereof.

<u>Inspection during fabrication</u>: - Bidder should intimate the TIA in writing for sta inspection before installing Food Testing Laboratory equipments and finalizing ec pments layouts.

### Pre-Dispatch Inspection by Inspection Committee:

i) The Mobile Food Testing Laboratory on no account be dispatched / deliver without getting the same inspected and issue of Inspected notes by the Inspectior ommittee nominated in this reference.

ii) The Bidder should ensure that fabrication work of Mobile Food Testing Lab atory accepted by the Inspection Committee after inspection have been properly nd legibly stamped by latter's identification stamp/Seal.

iii) The Bidder shall allow all reasonable facilities and free access to his works nd records to the Inspection Committee. The Bidder shall afford to the Inspection ( mmittee all reasonable facilities as may be necessary for satisfying himself that the Mobile Food Testing Laboratory are being and/or have been manufactured/Fabric ed in accordance with the contract requirements. For the aforesaid purpose it may equire the fabricator to make arrangements for inspection and/or testing of the s plies or any part thereof or any material at his premises or at any other place spec ed by the Inspection Committee. The samples, all materials, tools, labour, testing quipment and assistance which the Inspection Committee may demand of him to rify the conformity of the ambulances to the quality requirement etc. will b provid without any extra charge.

iv. Inspection by a committee with regard manufacturing capacity & availabil of infrastructure prior to acceptance offer may be undertaken by the department, case of any deviation is found in tender submission and conclusion of by inspectic committee aforesaid, the offer of the Bidder may not be considered.

#### D. Packing & Insurance

i) The Mobile Food Testing Laboratory will be delivered at the destination ir erfect condition. The firm if so desires may insure against loss by theft, destructic or damage during transit/fabrication under exposure to weather of otherwise in ar situation. The insurance charges will have to be borne by the fabricator and the d artment shall not be required to pay any such charges, if incurred.

ii) In the event of any loss or damage to the Mobile Food Testing Laboratory duri transit, firm shall be liable for repair and replace the Mobile Food Testing Laborato

at destination after the Checking/inspection of Mobile Food Testing Laboratory by the consignee. No extra cost on such account shall be admissible.

#### E. Emblems, Marking & Colour Scheme

Complete body exterior should be uniform white in colour. All external marking sh uld be retro- reflective in nature, Standard Specification for Retro-reflective sheeti g for Traffic Control. **All exterior full body Graphic design & lettering shoulc be as per requirement of the TIA (As per specific requirement of custom r).** 

#### F. Layout Drawings

The bidders MUST provide 2D & 3D rendered drawings for the quoted Mobile Food Testing Laboratory showing location of various components, sub-assemblies for s ructure, interior layouts, fitment of Testing equipments, layout of seats & furniture medical equipments, non-OEM electrical system layout, etc along with the technic I bid.

"Participated bidders are requested to submit their Contact details, Ema ID and Address in the additional documents section while submitting the bid documents in GeM portal. The details should be submitted in a letter ead of the company with signature and stamp"

# Amendment II

# **Technical Specifications**

# <u>Mobile Food Testing Laboratory (MICROBIOLOGY READY) -</u> <u>SSAI</u>

# Major product category: Motor Vehicles

Parameter s	Descriptio ns	Bid Requi rement (Allowed Values)
	Category of Vehicl e	Medium
	Vehicle Engine ca pacity	2500 cc or above
	Minimum Engine T orque (Nm) at rate d RPM	220.0 or higher
	Type of Fuel	Diesel
	Vehicle Emission C ompliance	BS -VI,Stage-2
	Type of Steering	Power Operated
	Ground Clearance (mm)	180 to 210
Vehicle parameter s(Generic)	Length of the Van body (La b area) exclu ding driver ca bin.	2900mm and abo ve.
	Inside height of the Van bo dy (Lab area.	1800 mm or above.
	Width of the Van body (La b area)	1750mm or above.
	Pay load capa city of the ve hicle	2600kgs or above
	No of wheels	Rear -4, Front-2, S tepney-1
		Two leaf divided rear

Type of rear d oor	door or flap t ype rear door at rear end w ith side-ways opening.
Additional req uirement	The alignmen t between th e driver cabin and van body is a critical re quirement for this project. I t is imperativ e that no par t of the van b ody projects or outlines be yond the dim ensions of th e driver cabin
Warranty:-	Comprehensi ve warranty f or 3 (three) la kh Km / 3-yea r whichever i s earlier.
Van Body	<ul> <li>The Insulated Van is fabricat ed as per the r equirement of the conditions inside the unit</li> <li>The PUF Insul ated Van Body is built and de signed for tran sportation of p erishable mat erials at Low T emperature a nd in Highly Cl ean and Hygie ne Conditions.</li> </ul>
Features of the Pa nel Van	<ul> <li>Base frame made up of I0 0X50mm chan nel.</li> <li>Cross channe I 75X40mm.</li> <li>External Stru cture made up of 1.6 mrn GI sheets</li> </ul>

· ·	
	Plane sheet f
	or the Van ma
	de out of 1.6
	mm GI and ins
	ide 0.5 mm SS
	304 grade/3m
	-
	m FRP.
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	nts are contin
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	ng rod to stre
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	one as per the requirement, f itment of sock ets/ switches , Light (DC) and Fan (DC) x 4 n os.
	<ul> <li>Screws, Bolts and Rivets: St ainless Steel ( SS-304) and p laced at even spacing.</li> <li>Chassis &amp; Bo dy Integration : U Bolts</li> </ul>
	Retractable / pull out aw ning from si de of vehicle
Others	of dimension s 2900 ( ± 300) mm x 1523( ± 100)
	mm The interior p aneling of the Lab compartm ent including s idewalls, 60 m
	m Toughened Glass partiti on in between Microbiological and Chemical
	Work Flow Are a. • Partition be tween proce
	dure cabin a nd driver ca bin, roof, door panels and all
	other surfaces in the compart ment should b e made from I ong life superi
	or quality mat erial such as n on-halogenate d Flame Retar dant Polymer
	of grade C-11 96 HF. The interior material shoul
	d have the foll owing charact eristics: Thick ness - minimu m 3.0 mm,
	Others

	<ul> <li>Fire retardan t as per IS - 6 746 of 1988 or latest equivalent as applicable. No painting shall be allowed</li> <li>The insulatin g material sho uld be heavy duty thermal PUF insulation to provide bet</li> </ul>
	ter temperatu re control. Sufficient rei nforcement fo r holding the wall/floor mou nted equipme nt securely wh ile in transit s hould be pres ent on the sid e walls The van inter
	iors are suitab le for easy cle aning, scientifi c fumigation & treatment w ith disinfectan ts. Joints shoul d be flushed, seamless, her metically seal ed, waterproof & easy to disi nfect. All interi o r materials s
	hall comply wi th the fire safe ty requiremen ts. The vehicle has an additio nal Exhaust fa n. The Body h as a carrier a nd the Ladder Ceiling of the
	<ul> <li>Celling of the body should h ave insulator material (as c oating or a m aterial) on the inside.</li> <li>Glass Windo w (size 50" X 18") for complete Toughene d Glass (6mm</li> </ul>

Exterior	Exterior	<ul> <li>thickness) vie</li> <li>w Panel sized</li> <li>54"X56" with</li> <li>MS Frame Structure (duly painted 2" in size) for provision for display</li> <li>of TV, Books (A4 size) and posters (A3 size)</li> <li>Electronic Scroller Display</li> <li>(Left Side)</li> <li>Outdoor Image Display Scroller with additional provision nwith Toughe ned Glass 5 mmwith operable door and FRP cover from inside (48"X36")</li> <li>There is one set of a radio and an amplifier alon gwith two movable loud speakers with fixtures on the roof.</li> <li>Foot step is at the back end of the vehicle for entering/climbing</li> </ul>
		<ul> <li>Workbenche s on both side s with adequa te moving spa ce of a minim um two feet i n the central area. Workbe nches have st orage below a nd above the working platfo rms. All the w ork benches s hould be mad e of SS-304 { 16 SWG (1.6 mm) for top of the bench an d 18 SWG (1. 2 mm) for the body of the b ench). All the storage cabin et and drawer</li> </ul>

Interior

(All furniture-

SS 304 Grade)

s for storing minor instrum ents, accessor ies, basic glas sware and ch emicals must be made of S S-304 only. Space is pro vided for safel y fixing the ge nerator, refrig erator and als o securing the gas cylinder(s ). The interior have chemica I resistant Vin yl / PVC floori ng or any suit able material. Provision is made to safel y secure the e quipment und er a vibration free, cushione d and fitting s eparations in order to preve nt any damag e during the v ehicle is unde r movement. Sliding windo ws is provided on both the w alls of the veh icle. Collapsible/ret ractable ledge of 9-inch dept h x 30 inch {1 8 SWG (1.2 m m) of SS 304} outside one of the windows f or acceptance of samples. T his ledge is in such a way th at it can be se cured flat on t he body of the vehicle when the MFTL is o n the move. Stowing area /room for acc ommodating t he stools after

working.

	· Tissue paper
	roll holder, ha nd wash hold
	er, towel hold er, spatula hol
	der, tweet pip
	ette holder, te st tube stand
	holder,
	separating fu
	nnel holder et c. is placed in
	side the lab in
	such a way th
	at it can be ac cessed by sitti
	ng on the stoo
	l itself. The bo
	ttle holder sh ould be air tig
	ht and spillag
	e free.
	<ul> <li>The door hav e full length g</li> </ul>
	rab rail that is
	not projecting
	outside from t he door front
	surface. The g
	rab rails shoul
	d be made of powder coate
	d Aluminium.
	<ul> <li>Dedicated sp</li> </ul>
	ace for keepin g One 10 liter
	s carboy to be
	provided.
	<ul> <li>Appropriate space and eas</li> </ul>
	ily accessible
	positioning for
	placing fire ex tinguisher.
	· Fabrication :
	Warranty as p
	er the bid crit eria
	· One Dual Mo
	d e Petrol driv
	en Silent Gen erator with
	self start of a
	minimum 7 K
	VA. One 5 KV A UPS to be p
	rovides as Ba
	ckup for the G
	enerator for minimum 45
	min -1 HR Bac
	kup. All equip
	ment/AC shou ld be powered

Power Supply	Power Supply	by gen-set wh en stationary O R external li ne available a t location to t he Genset. Minimum of 10 meter cabl e for direct co nnection of po wer from outs ide sources is required.
	Capacity of fres h water tank (lit er)	100 (minimum)
Water Tank and Si nk (Acid and Alkaline resistant)	Capacity of wast e water collectin g tank with outs ide drain (liter)	100 (minimum)
	Sink	Sink of SS, mould ed as one piece. T he minimum dime nsion of the sink i s 32x32x20 cms. The sink does not have any sharp c orners inside
	Type of Air Cond itioner	Split (having Co pper coil)
	Nominal cooling capacity in Ton	1
Air Conditioner inc luding Compressor	BEE Star Rating	3
	Others	In-door unit is inst alled appropriatel y for uniform cooli ng inside the lab a rea
	Capacity	80 - 100 Litres
Refrigerator	Type of Door	Single
	Temperature	0-4 <sup>o</sup> C
Television	Туре	LED (Smart)
	Screen Size	40 Inches
	Screen Resolution	1920 x 1080 (Full HD)

	Minimum numbe r of Power point s on each side o n two work benc hes	6 nos. or higher
Electrical Fittings and Wiring	Power Points	<ul> <li>Minimum six power points on each side a re given on tw o work benche s to make equ ipment's oper able. The pow er supply of th ese points is fr om the genera tor.</li> <li>Each of these power points has both 5A a nd 15A (12 no s of 5A &amp; 5nos of 15A)</li> </ul>
Lighting	Lighting	LED lights & Tube Lights in the lab f or adequate illumi nation.
Eye wash pump	Eye Wash Pump	Suitable eye wash pump shall be pro vided near the wa sh basin.
	Weighing Range (gm)	300g / 0.01 g
	Readability	0.01 g
Digital Balance	Repeatability	± 0.03 g
	Power Supply	AC Adapter : 9V / 500 mA
	Approx. size of Body Outer Size	Laminar Air Flow ( WxDxH) in mm – 710 x 610 x 1040
	Approx. size of I nner Chamber Si ze	Laminar Air Flow working area (Wx DxH) in mm - 625 x 515 x 450
		<ul> <li>Completely made of 304 grades S.S. w orkbench cov ered with 304 SS grade perf orated sheet, microprocess or control digi tal display wit h filter alarm.</li> <li>Microprocess</li> </ul>

		<ul> <li>or based swit</li> <li>ch for blower</li> <li>and fluoresce</li> <li>nt light, UV lig</li> <li>ht with LCD sy</li> <li>stem.</li> <li>Pre Filter 99.</li> <li>00% down to</li> <li>5 micron.</li> <li>HEPA Filter: I</li> <li>SO 14644 Cla</li> <li>ss 5 (Class 10</li> <li>0), 99.97%-9</li> <li>9.99% down t</li> <li>o 0.3 micron,</li> <li>mesh guard f</li> <li>or protection</li> <li>of HEPA filters</li> </ul>
		<ul> <li>Air flow: Vert ical.</li> <li>Noise Level: 60 decibel ±5%.</li> <li>Velocity: 0.3 5-0.50m/sec.</li> <li>Work Table: 304 Grade S.S. &amp; Cock for g</li> </ul>
		<ul> <li>as on work ta ble.</li> <li>Front Door: A crylic.</li> <li>UV lamp: 15/ 30w Philips H olland.</li> <li>Illumination: 20/40w flores cent tube with defogger. Pow</li> </ul>
Clean Air Biologica I Section Cabinet		er: 230V, 50H z. Air Flow Type : Constant Air Volume type with automati c by pass. Interior Cons truction and L iners: Standar d Model with t hick Water/He at/Fire Resista
	Specification for Laminar Air Flow	nt Phenolic Re sin Laminatio n • Support Base with storage c abinet. • The storage cabinet at bas e to store che mical or appa ratus and fitte

		<ul> <li>d with exhaus t port connect ed internally t o, work in tan dem with the main exhaust system.</li> <li>Electric Supp ly Socket: Two sockets to be located on the side panel for optimum con venience of u sing small ele ctrical devices inside the cab inet</li> <li>Front Counte r balanced Sa sh/ Shutter: A vertical rising sash/ shutter consist of a th ick toughened transparent gl ass/Acrylic wi ndow for a cle ar inside view.</li> <li>The sash shou ld be counter balanced for s mooth and lig htweight oper ation for easie r access to wo rk zone and e nhanced user safety.</li> <li>Sash (Windo w): Made of 6 -8 mm thick t oughened tra nsparent glas s/Acrylic</li> <li>Apparatus H olding Grid: A pparatus holdi ng grid for easy clampin g/ holding to various labora tory glasswar e's and acces sories.</li> </ul>
	Capacity (Liter)	28.0 - 30.0
	Temp. Range	5°C to 60°C (Reso lution 0.1°C)
		±0.5°C at 37 °C
BOD Incubator	Temp. Accuracy	Force Convention

(Portable Type)		Туре
	MOC Outer	Made of Stainless Steel (SS- 304)
	MOC Inner	Chamber and tray s made of Stainle ss Steel (SS-304)
	Body Outer Size (Approx. size)	Fume Hood (WxD xH) in mm - 1110 x 610 X 1040
	Inner Chamber Size (Approx. siz e)	Fume Hood worki ng area (WxDxH) i n mm - 800 x 400 x 700
		• Double wall con struction made of Stainless Steel as per requirement. The construction materials of fume hoods are type 30 4 stainless steel
		• Fume hood gen erally equipped wi th vertical sashes but as required h orizontal sashes c an be fixed.
		• Front Door: Acry lic.
		• UV lamp: 15/30 w Philips Holland.
		<ul> <li>Illumination: 20/ 40w florescent.</li> </ul>
Fume Hood Chemical Section with		• Highly recomme nded for exhaust of toxic gases, aci dic/alkaline fumes , chemical vapour s, removable of o dours etc. from th e hood working ar ea.
Exhaust System & Glove Ports &	Specification of FUME HOOD Cab inet	<ul> <li>These fume hoo ds are designed i</li> <li>n both Ducted an</li> <li>d ductless pattern</li> </ul>
Attached Lab		
Blender in The		The front door
Work Station		moves vertically u p and down with c oncealed counter balanced weight.
		Electric Supply

	Socket: Two sock ets to be located on the side panel for optimum conv enience of using s mall electrical de vices inside the c abinet • Front Counter b alanced Sash/ Sh utter: A vertical ri sing sash/ shutter consist of a thick t oughened transpa rent glass/Acrylic window for a clear inside view. The s ash should be cou nter balanced for smooth and light weight operation f or easier access t o work zone and e nhanced user safety.
Front facing pan el	To be fitted with 1 5/5 Amp socket wi th switched for ex haust system and fluorescent light
Power Supply	220 / 230 volts A. C. Supply. Raw Milk Qu ality and Adul teration Scree ning Analyzer should be a p ortable instru ment, based o n the Advanc ed FTIR Techn ology approve d by global bo dies like AOA C INTERNATIO NAL (Associati on of Official Analytical Che mists), IDF {I nternational D airy Federatio n) 141:2013{ E) and ISO (Int ernational Sta ndards Organi zation). ISO 9 622:2013(E), which recom mends the ap plication of FT

Analysis. Raw Milk Qu ality and Adul teration Scree ning Analyzer should use th e recommend ed FTIR techn ology for Milk Parameter an alysis like Fat, SNF and Prote in. Raw Milk Qu ality and Adul teration Scree ning Analyzer should includ e an inbuilt ca libration inclu ding a detaile d "fingerprint" of the Milk Sa mple's chemi cal compositio n. Raw Milk Qu ality and Adul teration Scree ning Analyzer should compa re the spectru m of the Sam ple Raw Milk with the spect rum of Pure R aw Milk that is built-in the FT IR analyzer us ing statistical techniques ca lled the PCA a nd SEP (com monly used te chniques in s pectroscopy). After compar ison and differ entiation, the Raw Milk Qual ity and Adulte ration Screeni ng Analyzer s hould display the abnormali ty in sample milk. The Raw Milk Quality and A dulteration Sc reening Analy zer should be able to give a **DIRECT** Meas

ng Apparatus / Ra w Milk Quality and Adulteration	Display Rapid Mi Ik Screening Ap paratus / Raw M ilk Quality and A dulteration Scre ening Analyzer	urement of FA T, SNF and PR OTEIN and not a software cal culated displa y Raw Milk Qu ality and Adul teration Scree ning Analyzer should be abl e to screen m aximum num ber of commo n adulterants by the same F TIR technique at different co ncentration le vels like Adde d Water, Urea , Ammonium Sulphate, Suc rose, Maltode xtrin, Glucose, Sorbitol, Mela mine, Sodium Chloride, Sodi um Citrate, St arch, Hydroge n Peroxide, Fo rmaldehyde, Detergents, S odium Carbon ate, Sodium b icarbonate, V egetable Oil when mixed with Chemical Emulsifier; an d Qualify the Milk as Abnor mal Milk. It sh ould display M ilk Abnormalit y or name of t h e chemicals when such ch emicals are pr esent in Milk at various con centrations The Raw Milk Quality and A dulteration Sc reening Analy zer should als o display the presence of p rimary adulter ants like Adde
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	hate and Malt
	odextrin.
	SNF and Prot
	ein calibration
	s should be d
	e-sensitized t
	owards the pr
	esence of co
	mmon adulter
	ants, therefor
	e assuring the
	results of SNF
	and Protein ar
	e not affected
	by the presen ce of these ad
	ulterants.
	FTIR spectro
	photometer s hould be able
	to analyze ra w unhomogen
	ized Milk sam
	ple for Fat, SN F & Protein in
	the range of
	minimum to
	maximum ran
	ge of a. 0-12
	% Fat b. 0-8%
	Protein c. 0-1
	4% SNF
	Accuracy of t
	he FTIR spectr
	ophotometer
	milk paramet
	ers to be sub
	mitted by the
	manufacturer.
	a. Fat $\leq 0.14$
	SD
	b. Protein $\leq 0$ .
	10 SD
	c. SNF $\leq 0.14$
	SD
.	Repeatability
	of the FTIR sp
	ectrophotome
	ter milk para
	meters to be
	submitted by
	t h e manufact
	urer.
	a. Fat ≤ 0.05
	SD
	b. Protein $\leq 0$ .
	05 SD
	c. SNF ≤ 0.10
	SD
1.	Analysis spe
	ed required 4
	0-50 seconds
1.	Instrument w
	arm up time
	-

		Maximum 20- 30 minutes. Sample Tem perature Raw Milk should a ble to be mea sured in a te mperature ra nge of 5-40 d eg. C Sample Volu me should be less than 5 ml Display LCD, Graphical Dis play Built-in Diag nostics: Optic s Test, Cuvett e test, Stabilit y test, Cleaning Message displ ay, Error Mess age display Manuals: Inst rument shoul d be supplied with Quick Gu ide, User Man uals Training and Installation: Tr aining and Ins tallation servi ces should be offered along with the Instr ument Installation in India: Min imum 30 Ins truments sh ould be sup plied in last two years to any reputed government institute for mobile labor atory / van a
	pH range	pplication 0 to 14.00,
	TDS	0 to 1000 ppm or better
Digital Multi- Parameter Hand	Conductivity	0.00 - 20.00 mS/c
Parameter Hand Held Meter (pH,		m or better -1000 to 1000 mV
Conductivity,	mV	or better

TDS and	Temperature	0.0 to 60.0 °C, 32 to 140.0 °F	
Temperature)	Power	DC 1.5 V x 4 batt ery (UM-4/AAA)	
		Auto power off aft er 10 minutes	
	Sugar Content / Temperature Ra nge	Brix -0 to 85% or better	
	Temperature Ra nge	0 to 40°C or bette r (32 to 104°F or better)	
	Refractive Index	1.3330 to 1.5000 or better	
	Sugar Content R	0.1%	
Digital refractome	esolution/Accura cy	Brix/ ±0.5% Brix o r better	
ter/ Butyro refract ometer -Portable	Refractive index Resolution / Acc uracy	0.0001 / ± 0.0003 or better	
	Temperature Re solution/Accurac y	0.l °C (0.l°F)/ ±0. 5 °C {± 1 °F) or b etter	
	Measurement Ti me	Approximately 3 s econds or better	
	Display	LCD	
	Battery Type / Li fe	9V or AAA / appro ximately 5000 rea dings	
	Body	M.S. Body with S. S. top	
Hot Plate	Size	10" x l2" rectangu lar or 10" x 10" ci rcular	
	Power Supply	220/230 volts AC, Supply 50 Hz Sing le Phase I.5KW	
	м.о.с	Stainless Steel 30 4, Single wall Cha mber	
Portable Autoclave	Capacity	20 Ltrs 2.0 KW, 0- 2.1 kgf/cm 2 {30 psi)	
	Exhaust of press ure	Manually through exhaust valve	
	Power Supply	220/230 volts AC, 50-60 Hz	

	No. of jars	At least 2 jars
Mixer Grinder	Power supply	50Hz : 220-240V;
	Power consumpt ion	500 Watt
	Operation	at 3 different spee ds
	Jar Material	Stainless steel
	Screen Size	20 inch
	Processor type	i5 or higher
	Processor Gener ation	10th
	Graphic Card (G B)	Integrated Graphi cs(Dedicated/Disc rete)
Desktop Computer	RAM Size	4 GB or higher
and other accesso ries with wi-fi facili	Hard Disk type	SSD
ty	Total HDD Capac ity (GB)	500 GB or higher
	Power Supply Ca pacity (Watt)	150.0 - 150.0 Or l ower
	Operating Syste m	Windows 10 Profe ssional
	Printer	LaserJet multifunc tion (Print, Copy & Scan) monochrom e printer
	Power	12 V
Public Address Sys	Mike	1 no.
tem	Amplifier	1 no.
	Speaker	2 no.
Fire Extinguisher	Types	ABC
GPS Tracker	GPS Tracker	GPS based Vehicl e Tracking Device s - Intangles Make [complete inform ation related to G PS tracking along with GPS integrati on( <b>open API</b> )
		Qty- 1 no.

	Test Tube standMaterial- polycarbonate or equivalent	
	Spatula Holder	Qty- 1 no.
	Sonoroting Funn	Qty- 1 no.
	Separating Funn el Holder with S tand	Rod, Base and H older
	Pipette Stand	Qty- 1 no.
	Stools	Qty- 2 no.
Other accessories		Material- SS
	<b>C</b> 'W'	Fixed Seat with b ackrest - 2 nos.
	Sitting arrange ments	Front Seat with b ackrest (excl. Driv er seat) – 2 nos.
	Dustbin	Qty- 2 no.
	Tissue Paper Holder	Qty 1 no.
	Liquid Soap Dis <sub>.</sub> penser	Qty 1 no.
	White Board wit h Marker Pen an d Duster	
Other Equipment Tools	Other Equipmen t Tools	<ul> <li>Basic tools fo r simple repair s Equipment I (screwdrivers, wrenches etc.</li> <li>tools</li> <li>Emergency ki t (extinguisher , towing cable, emergency si gn, emergenc y light)</li> <li>First-aid kit</li> </ul>
Warranty of all ab ove including Calibration and ot her necessary ser vices (if any)	-	5 years(other tha n base vehicle)

\*\*Make, Model of the vehicle and other equipment must be mentioned in separate sheet in the Technic Bid.

#### **B. WHO CAN BID**

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The bidder must be an Indian based manufacture of the base vehicles/c ustomized vans of similar nature viz ambulance, food truck with controlled a tmosphere, mobile hospitals, mobile health check up van, mobile training/ ex hibition van, mobile water and soil testing van etc or its authorized sole sale & service dealer/ Fabricator.

In case fabrication of the Mobile Food Testing Laboratory is carried ou t other than base Vehicle Manufacturing Plant, the bidder has to mention the name & address of the Fabricator Workshop in the technical bid documents a long with the documentary proof of the fabricator workshop that having in ho use facility to produce completes Mobile Food Testing Laboratory.

The Bidder should have been in its comprehensive operational aftersa le service network in the state of West Bengal at least for last three years.

## C. Inspection, Testing and Quality Control

Pre-Inspection of fabrication of Mobile Food Testing Laboratory by the bidders: Tr bidder should satisfy themselves that the fabrication work of Mobile Food Testing I boratory are in accordance with the terms of the contract and fully conform to tr required specification by carrying out a thorough pre-inspection including shower st of the Mobile Food Testing Laboratory before actually tendering the same for i pection to the Inspection Committee nominated under the terms of Contract. Such recaution on the part of the bidder minimizes the chances of rejection and the cor quences thereof.

<u>Inspection during fabrication</u>: - Bidder should intimate the TIA in writing for sta inspection before installing Food Testing Laboratory equipments and finalizing ec pments layouts.

### Pre-Dispatch Inspection by Inspection Committee:

i) The Mobile Food Testing Laboratory on no account be dispatched / deliver without getting the same inspected and issue of Inspected notes by the Inspectior ommittee nominated in this reference.

ii) The Bidder should ensure that fabrication work of Mobile Food Testing Lab atory accepted by the Inspection Committee after inspection have been properly nd legibly stamped by latter's identification stamp/Seal.

iii) The Bidder shall allow all reasonable facilities and free access to his works nd records to the Inspection Committee. The Bidder shall afford to the Inspection ( mmittee all reasonable facilities as may be necessary for satisfying himself that the Mobile Food Testing Laboratory are being and/or have been manufactured/Fabric ed in accordance with the contract requirements. For the aforesaid purpose it may equire the fabricator to make arrangements for inspection and/or testing of the s plies or any part thereof or any material at his premises or at any other place spec ed by the Inspection Committee. The samples, all materials, tools, labour, testing quipment and assistance which the Inspection Committee may demand of him to rify the conformity of the ambulances to the quality requirement etc. will b provid without any extra charge.

iv. Inspection by a committee with regard manufacturing capacity & availabil of infrastructure prior to acceptance offer may be undertaken by the department, case of any deviation is found in tender submission and conclusion of by inspectic committee aforesaid, the offer of the Bidder may not be considered.

### D. Packing & Insurance

i) The Mobile Food Testing Laboratory will be delivered at the destination ir erfect condition. The firm if so desires may insure against loss by theft, destructic or damage during transit/fabrication under exposure to weather of otherwise in ar situation. The insurance charges will have to be borne by the fabricator and the d artment shall not be required to pay any such charges, if incurred.

ii) In the event of any loss or damage to the Mobile Food Testing Laboratory duri transit, firm shall be liable for repair and replace the Mobile Food Testing Laborato

at destination after the Checking/inspection of Mobile Food Testing Laboratory by the consignee. No extra cost on such account shall be admissible.

### E. Emblems, Marking & Colour Scheme

Complete body exterior should be uniform white in colour. All external marking sh uld be retro- reflective in nature, Standard Specification for Retro-reflective sheeti g for Traffic Control. **All exterior full body Graphic design & lettering shoulc be as per requirement of the TIA (As per specific requirement of custom r).** 

### F. Layout Drawings

The bidders MUST provide 2D & 3D rendered drawings for the quoted Mobile Food Testing Laboratory showing location of various components, sub-assemblies for s ructure, interior layouts, fitment of Testing equipments, layout of seats & furniture medical equipments, non-OEM electrical system layout, etc along with the technic I bid.

"Participated bidders are requested to submit their Contact details, Ema ID and Address in the additional documents section while submitting the bid documents in GeM portal. The details should be submitted in a letter ead of the company with signature and stamp"

#### Amendment III

**1.** Point No.1 under Buyer Added text based ATC clauses "Bidders should arrange for an onsite functional monstration of the offered equipment on the notified date at facility at Kolkata, West Bengal or at **Swasthya havan**. The evaluation of the spec indicator will be made based on the reports of the onsite functional demor ration of the equipments. The onsite functional demonstration of the equipment is purely at the discretion of Technical Bid Evaluation Committee and its input shall be treated as only corroborative in nature and will not e a substitute for technical evaluation of the document submitted along with the bid. The decision of the Tech cal Committee in this regard will be final.

Bidder has to comply with all parameters of the technical specifications except deviation(s) which will be cor ered minor and acceptable by the team of Experts to be engaged by WBMSCL to take working / functional de nstration of the offered equipments"-**DELETED** 

**2.** Point No.10 under Buyer Added text based ATC clauses , Please read "Price Validity: 2(two) years from t last date of online bid submission"

AS

"Price Validity: 1(One) year from the last date of online bid submission"

3. Please read

**Amendment II** under **Technical Specifications** under **Parameters** "Rapid Milk Screening Apparatus / Raw Ik Quality and Adulteration Screening Analyzer" under **Descriptions** "Display Rapid Milk Screening Apparatu Raw Milk Quality and Adulteration Screening Analyzer under **Bid Requirement (Allowed Value)** "Installatic n India: Minimum 30 Instruments should be supplied in last two years to any reputed government institute for obile laboratory / van application"

AS

"Installation in India: Minimum 5 Instruments should be supplied in last two years to any reputed governmen stitute for mobile laboratory / van application

Form-A: Consignee Receipt Certificate (CRC)

#### (To be issued by consignee's authorized representative)

[The consignee may issue an additional challan receipt if delivered by courier or trans ter]

Name of the Supplier:	
No. of Units supplied :	
No. Of Box supplied :	
Place of destination (The dept. where t he equipment will be actually installed)	
Invoice No. & Date:	
Details of Batch /Serial Numbers, if any of item supplied:	
(Signature & Office Seal of authorize da	
[Name and designation of the sign	natory to be written capital letter]
(Signature & Office Seal of Head	of the Institute/Hospital with date)
[Name and designation of the sig	natory to be written capital letter]

#### Form B: Satisfactory Installation Certificate (SIC)

(To be issued by the consignee after successful commissioning of equipment)

Bid Reference	:
Award of Contract Reference	:
Description of Equipment/Service	:
Date of Commissioning	:
Warranty up to	:
This is to certify that the equipment(	s) as detailed below has/have been received i

n good condition along with all the standard and special accessories, consumables , set of spares in accordance with the contract/technical specification of the equip ment and site preparation including interiors as per bid document.

Details of equipment, access	ories, consumables,	spares, etc.
------------------------------	---------------------	--------------

SI	Description	Quantity	Serial No. / Part No.
1			
2			
3			
4			
5			

In case of space deficiency, another sheet with the same format can be annexed.

The supplier has also submitted the following,

- 1. Tools for maintenance
- 2. Detailed operation and maintenance manual both in hard and soft copy for ea ch item of supply at each location

The proving test has been done to our entire satisfaction. The equipments, its accessorie s and ancillaries of the site preparation including interiors is functioning satisfactorily an d faultlessly

Declaration by Unit Head (HOD/MO-IC/Others) :		
Sticker designed by NHM is fitted with the equipment Yes No		
Signature		
with Stamp :		
Name (in Block)		

P.T.O.

SI	Name	Designatio n	Contact No	E-mail ID (In CAPS)	Signature
1					
2					
3					
4					
5					
6					
7					
8					
9					
10					
11					
12					
13					
14					
15					

The following operators/ end users have been trained to operate the equipment(s),

In case of space deficiency, another sheet with the same format can be annexed.

Countersigned by the head of the institute / hospital:	
	Signature of

Signature	Unit Head:
	(HOD/MO-IC/Others)
Name	
	Name
Designation with stamp	(in Bloc k):
Date	
	Designation with Stamp:

- 5. Bidder's offer is liable to be rejected if they don't upload any of the certificates / documents sought in the Bid document, ATC and Corrigendum if any.
- 6. Bidders are advised to check applicable GST on their own before quoting. Buyer will not take any responsibilit in this regards. GST reimbursement will be as per actuals or as per applicable rates (whichever is lower), subj to the maximum of quoted GST %.
- 7. Escalation Matrix For Service Support : Bidder/OEM must provide Escalation Matrix of Telephone Numbers for Service Support.
- 8. Data Sheet of the product(s) offered in the bid, are to be uploaded along with the bid documents. Buyers can match and verify the Data Sheet with the product specifications offered. In case of any unexplained mismatch technical parameters, the bid is liable for rejection.
- 9. Warranty period of the supplied products shall be as given in specifications from the date of final acceptance goods or after completion of installation, commissioning & testing of goods (if included in the scope of supply at consignee location. OEM Warranty certificates must be submitted by Successful Bidder at the time of delive of Goods. The seller should guarantee the rectification of goods in case of any break down during the guarant period. Seller should have well established Installation, Commissioning, Training, Troubleshooting and Maintenance Service group in INDIA for attending the after sales service. Details of Service Centres near consignee destinations are to be uploaded along with the bid.
- 10. Installation, Commissioning, Testing, Configuration, Training (if any which ever is applicable as per scope of supply) is to be carried out by OEM / OEM Certified resource or OEM authorised Reseller.
- 11. Over and above the normal Warranty terms as per GeM GTC, the successful bidder / OEM shall have to provid Comprehensive Warranty during the entire Standard warranty period as per contract. : The comprehensive warranty shall be covering the following scope All spare parts & labour

(Upload an undertaking with the bid confirming compliance by the bidder if Bidder is taking onus of this compliance. In case OEM is taking onus of this compliance, OEM undertaking is to be uploaded along with Bid undertaking)

- 12. Scope of supply (Bid price to include all cost components) : Supply Installation Testing and Commissioning of Goods
- 13. Successful Bidder can submit the Performance Security in the form of Payment online through RTGS / interne banking also (besides PBG which is allowed as per GeM GTC). On-line payment shall be in Beneficiary name

West Bengal Medical Services Corporation Ltd. Account No. 105605003391 IFSC Code ICIC0001056 Bank Name ICICI BANK Branch address BIDHANNAGAR, SALT LAKE, SECTOR-V . Successful Bidder to indicate Contract numbe

. Successful Bidder to indicate Contract number and name of Seller entity in the transaction details field at the time of on-line transfer. Bidder has to upload scanned copy / proof of the Online Payment Transfer in place of PBG within 15 days of award of contract.

- 14. Successful bidder will have to ensure that adequate number of dedicated technical service personals / engine are designated / deployed for attending to the Service Request in a time bound manner and for ensuring Time Servicing / rectification of defects during warranty period, as per Service level agreement indicated in the relevant clause of the bid.
- 15. Scope of supply includes Training: Number of employees to be trained
  - 70 , Place for Training at the consignee location and Duration of training 2

days.

- 16. Timely Servicing / rectification of defects during warranty period: After having been notified of the defects / service requirement during warranty period, Seller has to complete the required Service / Rectification within days time limit. If the Seller fails to complete service / rectification with defined time limit, a penalty of 0.5% c Unit Price of the product shall be charged as penalty for each week of delay from the seller. Seller can deposit the penalty with the Buyer directly else the Buyer shall have a right to recover all such penalty amount from t Performance Security (PBG).Cumulative Penalty cannot exceed more than 10% of the total contract value after which the Buyer shall have the right to get the service / rectification done from alternate sources at the risk a cost of the Seller besides forfeiture of PBG. Seller shall be liable to re-imberse the cost of such service / rectification to the Buyer.
- 17. The bidder is required to upload, along with the bid, all relevant certificates such as BIS licence, type test certificate, approval certificates and other certificates as prescribed in the Product Specification given in the t document.
- 18. Without prejudice to Buyer's right to price adjustment by way of discount or any other right or remedy availal to Buyer, Buyer may terminate the Contract or any part thereof by a written notice to the Seller, if:i) The Seller fails to comply with any material term of the Contract.

ii) The Seller informs Buyer of its inability to deliver the Material(s) or any part thereof within the stipulated Delivery Period or such inability otherwise becomes apparent.

iii) The Seller fails to deliver the Material(s) or any part thereof within the stipulated Delivery Period and/or to replace/rectify any rejected or defective Material(s) promptly.

iv) The Seller becomes bankrupt or goes into liquidation.

v) The Seller makes a general assignment for the benefit of creditors.

vi) A receiver is appointed for any substantial property owned by the Seller.

vii) The Seller has misrepresented to Buyer, acting on which misrepresentation Buyer has placed the Purchas Order on the Seller.

19. While generating invoice in GeM portal, the seller must upload scanned copy of GST invoice and the screensh of GST portal confirming payment of GST.

## Disclaimer

The additional terms and conditions have been incorporated by the Buyer after approval of the Competent Authority Buyer Organization, whereby Buyer organization is solely responsible for the impact of these clauses on the bidding process, its outcome, and consequences thereof including any eccentricity / restriction arising in the bidding process due to these ATCs and due to modification of technical specifications and / or terms and conditions governing the bi Any clause(s) incorporated by the Buyer regarding following shall be treated as null and void and would not be considered as part of bid:-

1. Definition of Class I and Class II suppliers in the bid not in line with the extant Order / Office Memorandum iss by DPIIT in this regard.

- 2. Seeking EMD submission from bidder(s), including via Additional Terms & Conditions, in contravention to exemption provided to such sellers under GeM GTC.
- 3. Publishing Custom / BOQ bids for items for which regular GeM categories are available without any Category item bunched with it.
- 4. Creating BoQ bid for single item.
- 5. Mentioning specific Brand or Make or Model or Manufacturer or Dealer name.
- 6. Mandating submission of documents in physical form as a pre-requisite to qualify bidders.
- 7. Floating / creation of work contracts as Custom Bids in Services.
- 8. Seeking sample with bid or approval of samples during bid evaluation process.
- 9. Mandating foreign / international certifications even in case of existence of Indian Standards without specifyir equivalent Indian Certification / standards.
- 10. Seeking experience from specific organization / department / institute only or from foreign / export experienc
- 11. Creating bid for items from irrelevant categories.
- 12. Incorporating any clause against the MSME policy and Preference to Make in India Policy.
- 13. Reference of conditions published on any external site or reference to external documents/clauses.
- 14. Asking for any Tender fee / Bid Participation fee / Auction fee in case of Bids / Forward Auction, as the case m be.

Further, if any seller has any objection/grievance against these additional clauses or otherwise on any aspect of this bid, they can raise their representation against the same by using the Representation window provided in the bid details field in Seller dashboard after logging in as a seller within 4 days of bid publication on GeM. Buyer is duty bot to reply to all such representations and would not be allowed to open bids if he fails to reply to such representations

\*This document shall overwrite all previous versions of Bid Specific Additional Terms and Conditions.

This Bid is also governed by the General Terms and Conditions