

मारतीय कृषि अनुसंधान परिषद, उत्तरपूर्वी पर्वतीय क्षेत्र अनुसंधान परिषर जमियम, मेघालय –793 103 INDIAN COUNCIL OF AGRICULTURAL RESEARCH ICAR Research Complex for NEH Region Umiam, Meghalaya – 793 103



Tender No. RC(S)116/ 2014

Dated: 13th December, 2016

OPEN TENDER

RE-INVITATION OF TENDER IS INVITED FOR PROCUREMENT OF SCIENTIFIC EQUIPMENTS/MACHINERIES UNDER under XIIth Plan EFC for the year 2016-17, FOR ICAR, RESEARCH COMPLEX FOR NEH REGION, UMIAM, MEGHALAYA

Sealed bids are re-invited on from the reputed from reputed Manufacturer/ Authorized Dealer/ Government organizations for supply of Scientific Equipments, having at least 5 (Five) years experience in manufacturing/ marketing/ supply of such Equipments/Machineries by ICAR Research Complex for N.E.H. Region, Umiam, Umroi Road, 793103, Meghalaya. The details specification of equipments/machineries is as per Appendix -1.

TERMS & CONDITIONS OF THE TENDER

- Cost of Tender paper of Rs. 1000/- (Rupees one thousand) only (Non refundable) to be deposited in the favour of the Director, ICAR Research Complex for NEH Region, Umiam – 793103 by means of Demand Draft payable at SBI, ICAR Complex Branch, Umiam. Non – submission of the cost of Tender paper (consolidated) shall lead to non – consideration of the Tender.
- 2. The Bidders should submit the proposals in two parts:
 - I. Technical Bid (Bid –I)
 - II. Financial Bid (Bid-II)
- 3. Technical part should contain all such details as mentioned in the Bid Document.
- 4. Financial part (BID-II) should contain the financial bid inclusive of all admissible taxes, duties and levies, installation charges, freight charges, Taxes, VAT etc., as may be applicable etc. The rates quoted should be FOR up to ICAR Research Complex for NEH Region, Umiam for each particular item. The Financial Bid should consist of the Rates, their detailed break –ups, etc. Non-compliance of this shall lead to non-consideration of the Bid. The rates must be valid for at least for 1(one) year from the date of quotation.
- 5. These two parts (BID-I & BID II) should be submitted in separate sealed envelopes. Both envelop should then be sealed in a third envelop super scribed as "TENDER NO. RC(S)116/2014/Pt., dated 13th December, 2016 *due on 4th January, 2017 FOR* PROCUREMENT OF SCIENTIFIC EQUIPMENTS/MACHINERIES under XIIth Plan EFC for the year 2016-17, FOR ICAR, RESEARCH COMPLEX FOR NEH REGION, UMIAM, MEGHALAYA and addressed to "THE DIRECTOR, ICAR RESEARCH COMPLEX FOR NEH REGION UMIAM, MEGHALAYA-793103". The firm should also super scribe on the top of the envelope the Sl. No. & name of the equipments to be supplied, date of opening and details of earnest money deposited otherwise their tender may not be considered.
- 6. The Cost of the Tender (consolidated) as well as the Earnest Money (consolidated) in the form of Bank Draft along with all other Technical Details should be

mandatory kept in the Technical Bid only. Cheque/Bank Guarantee/fixed deposit receipt/ money orders/Cash etc. are not acceptable towards deposit of earnest money.

- 7. In no case Earnest Money will be accepted after opening of tender.
- 8. Details of Earnest Money i.e. draft number and date should be indicated on the cover of the big envelope otherwise the tender may not be received or opened and returned to the party. All Tenders should be sent by Registered Post. Tenders to be handed delivered should be put in the Tender box, kept in the office chamber of Chief Administrative Officer, ICAR Research Complex for NEH Region, Umiam, Meghalaya-793103 not later than <u>12:30 P.M. on</u> 4th January, 2017. Tenders received after the due date and time shall not be considered under any circumstances.
- **9.** On the date of opening, only Part-I (Technical Bid) will be opened. Part-II (Financial Bid) shall be opened subsequently only of those tender, whose Technical Bid qualifies as per the laid norms of this tender.
- 10. Composition of Technical Bid -
 - I. Profile & Track Record of the company
 - **II.** Document in support for Number of years in Scientific Equipments manufacturing/supply.
 - **III.** Document in support of last supply orders.
 - IV. Balance Sheet for last 3 financial years. Annual Turnover, which will be average of last three years on the basis of balance sheet.
 - V. Photo copy of PAN No. issued by Income Tax Department. Photo copy of Service Tax/sale tax/VAT Registration etc. (If not applicable submit the relevant document).
 - VI. Non refundable tender Document Fee of Rs. 1000/- in the form of Demand Draft from any Nationalized Bank drawn in favour of the Director, ICAR, Research Complex for NEH Region, Umiam, Meghlaya payable at Sate Bank of India, ICAR complex branch (If exempted/relaxed submit the relevant document in support of claim). Refundable Earnest Money Deposit (EMD) of Rs. 10000/-(Rupees ten thousand only) in the Form of Demand Draft from any Nationalized Bank, drawn in favour of the Director, ICAR, Research Complex for NEH /region, Umiam, Meghalaya. (If exempted/relaxed submit the relevant document in support of claim) The Cost of the Tender paper as well as the Earnest Money along with all other Technical Details should be mandatory kept in the Technical Bid only. Non submission of the Bid Security with quotation shall make the quotation/ bid liable to be rejected.
 - VII. Furnishing of related documents like detailed specifications, technical literature, brand name, model and make, catalogue, authorization letter, Dealership Certificate, Manufacturing company registration certificate, product certification, price list (if any) etc. is mandatory, Dealership certificate/Agency Certificate for the manufacturer/ manufacturing firm should be enclosed if the rates are quoted by the Dealers/Agents. Failing which the quotation shall not be considered.
 - VIII. Up-to-date sale tax certificate, tax clearance, valid registration certificate are mandatory.
 - IX. Other relevant technical documents/specifications in favour/ claim/ Support of equipments /machines if any may be submitted as additional with the technical bid.
- 11. The supply is effected at DGS&D rate contract, wherever is applicable. The rate should be quoted for list of items as per the tender document.
- 12. The Buyer shall not be responsible for payment of transit insurance charges.

- 13. Payment shall be made on actual delivery in good condition and successful installation and demonstration (which should be free of cost and must be completed before payment).
- 14. In case for Imported goods:
 - i. The price may be quoted in foreign currency and import will be on FOB basis. However, custom clearance, Inland freight etc. will be the responsibility of the supplier and no separate charges will be paid for that, however, custom duty exemption certificate shall be provided. The supplier should inform well in advance for sending these papers. No demurrage charges will be paid. If the supplier desires, rate in corresponding Indian currency may be quoted. It will be at the discretion of the authority of ICAR Research Complex for NEH Region to accept Indian or Foreign currency prices.
 - ii. In case of any custom duty charge, applicable as per Govt. of India's Notification, the same may be paid by the firm which will be reimbursed to the Indian Agent (who should be a registered firm and with DGS&D immediately, subject to the condition that the bill of entry in original along with all relevant papers are submitted immediately, after custom clearance and installation and demonstration of the items. Installation and demonstration should be free of cost.
 - iii. The import & payment will be made by means of Foreign Bank Draft/ Site Draft in case of foreign imported goods. Performance Bank guarantee of 10% FOB value valid till the end of warranty period should be submitted before the release of the security deposit. All bank charges outside and inside India shall go to the beneficiary's account. Performance bank guarantee of 10% FOB value, valid till the end of warranty period, should be submitted before the release of the security deposit. All bank charges outside and inside India shall go to the beneficiary's account. Performance bank guarantee of 10% FOB value, valid till the end of warranty period, should be submitted before the release of the security deposit. All bank charges outside and inside India shall go to the beneficiary's account. Draft making charges would go to the beneficiary's account and a scanned copy of the draft, if required, can be sent to the Indian agent by post. Draft would be handed over after successful installation and demonstration which should be completed within 45 days from the date of draft and submission of all documents like bill of entry etc.
 - iv. All imported items should be delivered up to destination i.e. all the import should be free of inland freight charges, insurance etc.
 - v. Indian Agency Commission rate and amount should be clearly specified as per rules. IAC, wherever applicable, will be paid in Indian Currency only.
 - vi. In case of delay in supply, penalty will be imposed @2% per week, subject to a maximum of 10% of the FOB value
 - vii. Indian Agents quoting on behalf of their principal must be registered firms with DGS&D .They are also requested to provide necessary authorization letter from their principal along with the quotation.
 - viii. ICAR Research Complex for NEH Region, Umiam, Meghalaya, being a Scientific and Research Organization, is exempted from payment of Excise Duty (Certificate to this effect will be provided).
- 15. All Bidders should mandatory give their current, PAN Card No., TDS& other Bank A/C details to enable the office for releasing the dues via e- payment basis.
- 16. Performance Bank Guarantee is required for all indigenous items also. For items less than Rs.50, 000, the amount should be 5% of the actual cost of the equipment and for items more than 50,000.00 the amount should be 10% of the actual cost of the equipment. The bank guarantee should cover the entire guarantee/ warranty period which should be of at least one year duration.
- 17. The selected tenderers must complete the supply/ installation/ demonstration within 30 (thirty) days from the date of the supply order due to time factor or the said orders shall be treated as cancelled and no further correspondence will be entertained.

- 18. The guarantee/ warrantee should be from the date of installation. All guarantee/ warranty services should be attended within a maximum limit of 15 days, failing which, proportionate deductions from the security deposit may be made at the discretion of the Institute.
- 19. The complete details regarding the Institutions/ Corporations/ Bodies, etc. where the Firm/ Dealer has made the supplies during the last 2/3 years should also be furnished, along with the supply orders.
- 20. The Bidders should mandatory provide their full Bank Details, PAN Card No., IFS code No., and TDS so as to ensure e-payment to them directly on satisfactory completion of the Supply.
- 21. The Director, ICAR Research Complex reserves the right to reject any tender in part or full, without assigning any reason thereof.
- 22. Legal jurisdiction for all disputes shall be within the purview of the Shillong Court.
- 23. KHADC license.

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- I. The Firm/Agency run by the Non-tribal contractor's /firms/ companies/suppliers/stockiest/banded ware house/Private carriage contractors/Co-operative Societies etc. should produce Trading License issued by the KHADC (Govt. of Meghalaya).
- II. Submission of tender paper does not fall under trade as per the above said act. However, if a Non-tribal becomes a successful bidder he has to furnish License issued by the KHADC (Govt. of Meghalaya) before any work involving trade is issued to him.

Further those firm/agency opting for clause II above are requested to submit an undertaking mandatorily to this effect along with the technical bids as a certification about their capability of submission of the trade license when ask for, failing which the tender are liable to be rejected/not to be considered at any circumstances. (If not applicable submit the relevant document).

- 24. The bidders should mandatory sign on every page of the Tender Document, which would show their unconditional acceptance of all the terms and conditions of the Tender Document.
- 25. Tenders shall be opened on <u>4th January, 2017 at 2:30 pm</u>, ICAR Research Complex for NEH Region, Umiam, Meghalaya 793103. Interested bidders may attend the opening.
- 26. If the above mentioned closing /opening day of the tender happened to be non working date due to Bandh/Strike as any other reasons, the tender will be received & opened on the following working day at the same time except on the 2nd (second) Saturday.
- 27. Other terms & conditions, as may be decided by the Competent Authority from time to time, depending upon the condition & requirement of the supply. The intimation in this regard, shall be provided well in advance & the bidder/ supplier shall be bound by the said terms & conditions.
- 28. For any query/ clarification, the undersigned may be approached at:
- Contact address:

E-mail: kcjoshiicar@yahoo.in/ aogaicarneh@gmail.com /storesection@yahoo.in

Sd/- S. V. Ngachan DIRECTOR

Before quoting for the Tender, it is requested to kindly go through the Tender Document thoroughly and abide by all the Terms and conditions given. Non-Compliance of any of the T & C mentioned above, shall lead to non-consideration of the Bid and no request what so ever shall be considered under any circumstances.

<u>APPENDIX- I</u>

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List of equipments/ instruments for procurement under XIIth Plan EFC for the year 2016-17, along with specification:

SI.No	Name of the items	Specifications	Qnty.	Whom to be supplied
<u>.</u> 1.	Digital Electronic balance	Capacity : up to 5kg Readability/ accuracy: 0.1mg to 10mg LCD Display, High performance, low maintenance, reliable	2	Agril. Engineering Divn., ICAR (RC) Umiam
2.	Pumping System (Portable submersible engine mounted pump with accessories)	Head upto 150m Capacity upto 6000 lpm Rating – 2.2 to 110kW Motor- oil filled (vertical) Winding- pvc insulated (rewindable) Rpm- 2900 Seal – mechanical seal Supply- three phase, 440v/ 50Hz	2	Agril. Engineering Divn., ICAR (RC) Umiam
3.	Thermal welding machine (plastic lining of pond)	Power 1-2 KW/230 V, 20-500°C welding temp, 1-5 m/ min welding speed, light weight (5-15kg), Digital display of temperature, speed & voltage, controlled temperature & drive & suitable for HDPE & LDPE	1	Agril. Engineering Divn., ICAR (RC) Umiam
4	Digital Electronic Balance	 Single pan with wind shields Accuracy upto 0.001mg or 21 µ,g Capacity 220g, Pan size 3.54"/90mm diameter. Workable at 220 to 240 volts AC 01 	1	Entomology Divn., ICAR (RC) Umiam
5	Refrigerator 606 Lit Capacity	 Dimensions Height: Depth: Width (1794 mm: 709mm: 860mm). Capacity 606 liters Electricity saving rating 5 Cooling Technology Green Ion Door cooling 	1	Entomology Divn., ICAR (RC) Umiam
6	UPS with power backup	Online or double conversion type, output 5KVA. Input voltage 220-240V.	1	Soil Science Divn., ICAR (RC) Umiam
7	Top pan weighing balance	Microprocessor based with full tare facilities, max capacity 0-3100g, readability 0.1 g, Weighing pan dia 180X180mm	1	Soil Science Divn., ICAR (RC) Umiam
8	Guelph constant head permeameter	The Guelph Permeameter is a complete kit consisting of the permeameter, field tripod, well auger, well preparation and cleanup tools, collapsible water container, and vacuum test hand pump. Measurements can be made in 1/2 to 2 hours, depending on soil type, and require only about 2.5 liters of water. Measurements can be made in the range of 15 to 75 cm below the soil surface.	1	Soil Science Divn., ICAR (RC) Umiam

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9	Analytical balance	 Capacity : 200-250g Readability: 0.001g Repeatability : 0.001g Linearity : 0.002g Maximum response time : 2-3sec Pan size : 128x128 (mm) Operating temperature : Min 10°C to Max 40°C Calibration : Automatic external and motorized Internal Display : Digital Provision for data export to a printer or computer 	1	Water Management Divn., ICAR (RC) Umaim
10	pH meter (digital hand held)	computer1.Range (pH) : 0.00 to 14.002.Range (Temperature °C): 0 to 503.Resolution (pH) : 0.14.Accuracy (pH) : +1-0.1 pH5.Temperature compensation : Automatic6.Display : LCD7.Calibration: Up to 3 points8.Waterproof9.Buffer recognition : 4.01, 7.00, 10.01 USA10.Power : Four 1.5 V batteries (included)11.Including buffer pack, 500 mL each of 4.01, 7.00, and 10.00 buffer	1	Water Management Divn., ICAR (RC) Umaim
11	Digital weigh bridge for weighing animals	Weighing scale type: Animal weighing scale capacity (kg):500 Platform sixe WxH (mm) : 500x500 Accuracy: 50gm Maerial: Plastic, steel		Farming System Research Project, ICAR (RC) Umiam
12	Milk chiller/ refrigerator	400-450 lts capacity double door refrigerator with high energy efficiency of 4-5 star ratings, multi air flow system for uniform cooling, frost free, moisture controlled, CIF free features.	1	Animal Nutrition Divn., ICAR(RC) UMAIM
13	Electronic Balance	 Capacity 0.1 mg — 230 g, Pan Size 90 mm, accuracy 0.1 mg, digital weight indication with large figures for rapid and precise reading, unique locking system to transport the balance from one place to another. Calibration: Built in calibration. Application programs: Tare; Net Total: Counting; Weighing in % formulation; Calculating. Various weighing units like gm, mg, ct, oz, dwt, mon, GN. Display: LCD with Back Light. Provided with Weighing chamber and AC Adaptor. 	1	Agronomy Divn., ICAR (RC) Umiam
14	Inverter 5KVA	5KVA online UPS with 4-5hrs backup, with isolation transformer, single phase input-output 230V, along with required no. of batteries, charger and rack, minimum 2yrs warranty	1	Horticulture Divn., ICAR (RC) Umiam
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15	Submersible pump	Head 180m, capacity -4000LPH, delivery size- 1.5inch, 5HP, minimum 1yr warrranty	1	Horticulture Divn., ICAR (RC) Umiam
16	Gel DOC system	DNA/RNA Gel documentation for EtBr, SYBR green, SYBR Gold, and Gel star staining. Should ha capability to accommodate large size gels/maxig (minimum 25x30 cm gel), scientific grade ST5 CCD camera with electronically variable shutter speed, camera with >7 megapixels image resolution, autofocus and manual mode, Hugh sensitivity, minimum 5X optical zoom, black body imaging grade darkroom, smart control panel with UV security option, UV security timer, UV illuminator and F590 emission filter. Software and data logger for image acquisition and processing. Auto exposure, >8inch LCD s		Agroforestry Divn., ICAR (RC) Umiam
17	Refrigerated centrifuge	Refrigerated table top centrifuge with 200- 14,000rpm (20,817xG) in increments of lOrpm, Temp. Control range: -9°C to 40°C. Option to change values durit centrifugation, Low-profile 11.2 in./28 cm access height for easy sample loading and unloading, Automatic rotor recognition senses rotor type to set maximum allowable speed. Fast, simple programming of time, temperature (refrigerated models), speed/ g-force values. Progra memory for up to 35 individual user program Acceleration/braking ramps: 10/10. Adjustable spe short spin button for quick runs. Ten acceleration and deceleration rates for sensitive sample material Rotor capacity 48 x 1.5/2.0 mL, acceleration time to max. speed <14 s, braking time from max. speed <15 s, high-speed for separating cell lysates and for nucleic ac purifications, SOFT ramp adjustable, noise level with rotor <60 dB (A), weight without rotor less than 60 kg, power supply 230 V/50-60 Hz. Automatic rotor detection with speed limitation, Automatic imbalance detection avoiding damage to thecentrif	1	Agroforestry Divn., ICAR (RC) Umiam
18	Microwave oven	35-40 Liter capacity, 220-250V, 50-60Hz, Single phase, digital display.	1	Agroforestry Divn., ICAR (RC) Umiam
19	Bench top Lyophilizer	Dimension (HxWxD): 340x470x680mm Maximum condenser chamber capacity: 5-10 liters Ice removal capacity (in 12 hours): 1.5 kg Maximum ice capacity: 5kg Oerating temperature: -50°C Temperature display range: Ambient to -60°C Pressure display range: 30µbar to 50.0 mbar Refrigeration compressor type: 1/3 hp hermetic unit Condenser style: External or internal coil	1	Animal Health Division, ICAR (RC) Umiam

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22	Plant extracts purification and	Rotary Vacuum Evaporator	1	
<u>.</u>		the cooling system during homogenization. Should have minimum noise level		
		chamber which can be filled with ice water or should be connected to		
		be fast, and reproducible. The system should preferably have cooling		
		which help in isolation of protein / enzymes, DNA or RNA. It should		
		The system should preferably be able to break tissues and/or cells		
		Power: 230/115/100 V The homogeniser should be of reputed brand (preferably imported).		
		Dry, wet and cryogenic grinding: yes Power: 230/115/100 V		
		Clamp, stand, head clamp: yes		
		easily)		
		Dispersing element: Stainless steel (able to cleaned quickly and		
		Frequency: 50/60Hz		
		Overhead protection: electronic		
		Speed & temperature display: digital		
		Homogenizing time: 20sec-60sec	ĺ	
		Speed range: 3000-20000 rpm		
		Volume: 0.5 to 1500 ml		
		Admissible temperature: 5-10°C to 50-60°C Admissible humidity: 5-10% to 80-90%, preferably non-condensing		
		Drive: DC motor preferable . Admissible temperature: 5-10°C to 50-60°C		
		Maximum orbit: 150-170mm		
21	Automated tissue lysis system / Homogenizer	Dimension (HxWxD): 300x850x300mm	1	Central Laborator
			1	Control V
		cost		
		Extra disposable weighing boat should be provided free of		
		Warranty: 3 years Provided with weighing chamber and AC Adaptor	}	
		Operating temperature range: 10°C to 40°C		
		Display: LCD with back light		
		Selectable weighing units: Gram and mg		
		Linearity: 0.02gm Response time:2.5 Sec		
		Calibration: Built in calibration		
		Power connection: 220/230 volt-AC		
		Repeatability: ± 0.1mg Pan size: 90mm		(RC) Umiam
	weighing balance	Capacity: 60gm		Division, ICAR
20	Open Pan digital	Readability: 0.1mg		Animal Health
		Air Conditioner (AC) of reputed brand to be supplied free of cost		
	· · · ·	bottom flask (50-500ml) free of cost One 3KVA UPS of reputed brand and one (2-5 Star, 1.5 ton) split	1	
		1000 Vials and 1000 tubes with rubber cork/stopping and 10 round		
		2. Tubes (10-50ml capacity) 3. Vials (2ml-10ml capacity)		
		1. Round bottom flasks (50-500ml capacity)		
		Separate adaptors for:		
		accessories like vacuum hardware, and hose, clamp, tubes, power codes, etc, and pump oil (10 Liters), free of cost.	}	
		corrosion resistant Vacuum pump from reputed foreign company with		
		Power: 230 VAC/50Hz, 8.0A Digital display of temperature and vacuum should be provided with		
		Weight: >50kg		

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separation system	Driving unit: Encased induction motor with electronic speed control	
	Condenser: Vertical double spiral glass coil	
	Drive unit: . Motorized drive unit	
	Jack up function: Electronic quick action jack and automatic lifting	
	of the flasks during power failure	
	Rotation speed: 280-300 rpm or better with microprocessor control	
	Display: Digital display of rotation speed and heating bath	
	Speed display: Digital	
	Sample flask: 1 litre	
	Receiving flask: 1 litre, round style with ball joint	
	Vacuum ceal: PTFE seal (warranty, period of min, 3 years)	
	Liquid contact parts: Glass and PTFE	
	Power: 230 VAC/50Hz, 8.0A	
	Supplied with: Digital water bath, vacuum pump and chiller	
	1.Digital water bath)	
	Temp. Control range: Ambient temp. to 210° C or higher.	
	Accuracy : 1°C	
	• Bath features : Inner Teflon coating and outer heat resistant	
	cover	
	Bath capacity : should be between 4 to 5L	
	Temp controller: Microprocessor based PID Control	
	Safety features: Overheating protector, auto cut off at 5°C secondary	
	over temperature cut off 250°C	
	2. VACUUM PUMP:	
	• Two stage oil free diaphragm pump made from chemically	
	resistant material.	
	 Suction capacity in m3 /hour : 2.0 m3 /h or better. 3.• Vacuum pump should have ultimate vacuum of 7mbar or better. 	
	 Power input in watt : 180 	
	• Supply voltage (V/Hz): 230/50. C. CHILLER	
	• Temperature range : -10°C to ambient	
	• Precise temperature control of $\pm 0.2^{\circ}$ C	
	 Flow: more than 61/min i Cooling capacity up to 560 watts @20°C i 	
	 Fluid level indicator .i 	
	• Low flow shut off and high/low temperature alarms.	
	digital display	
	Flash Chromatography	
	• Compact Bench top size with Instrument Dimensions- 16.5" H x	
	21.5" W x 18.0" D (41.91cm H x 54.6cm W x 45.72cm D) with	
	an in-built computerAuto mated solvent line priming	
	 Auto mated solvent line priming Auto recognition of cartridges and trays 	
	 Single click run gradient adjustment and hold 	
	• Negative Peak signals for UV and ELSD. The chromatograms	
	should display negative signal for UV and ELSD during runs	
	and in the past run reports.	
	Any detector can be turned off during run.Fraction collection triggering ba sed on slope and/or threshold	
	 User control of the fraction collection tray with manual advance 	
	Automated software allows fast switching from normal phase to	
	reversed phase	
	 Color-coded user guidance, status prompts and alerts System Safeguards: Auto run extension on peak detection 	
	• System Saleguards. Auto run extension on peak detection	
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•	Fraction Collection Trays: Holds two 5"x12" trays; Auto-tray recognition	
•	with slope and/or threshold detection.	
•	Accommodates Cartridge Sizes: >4 g-300 g luer type; up to 1500 g with adapter Triggers: Combination of up to 3 UV/VIS signals plus ELSD	
•	of the UV-Vis range to >200-850 nm)	
	based on concentration of target compound UV Wavelength Range: >200-500 nm along with the expansion	
•	Three sizes, fitting into 15 mL, 75 mL and 150 mL solid loaders. Detector Sensitivity: Selectable sensitivity control high or low,	
	facility to use Inject (Liquid) / sample loading prep packed as well as empty screw type cartridges. Sample Loader Plunger:	
•	Sample Injection: Liquid or solid sample modes, solid injection: up to	
•	Gradients: Linear, step, isocratic. Four solvent binary. On-screen mid-run gradient adjustment, isocratic hold, pause	
•	Maximum Pressure: around 200 psig	
	pressure	
•	Flow Rate: 4-200mL/min +/- 3%; auto flow reduction at high	
•	Normal phase and reversed phase solvent compatible	
•	Auto-switches lines when solvent levels run low.	
•	Solvent Delivery system : High pressure pumps (HPLC) ; Four independent channels with up to four solvents in a single run.	
•	Navigator Software Feature to convert TLC Rf data to Flash method and HPLC Method data to Flash methods.	
•	Software: advanced detection technology with advanced signal processing to recognize peaks and collect previously undetected compounds	
•	Data Entry: Touchscreen or USB connection to mouse/keyboard	
	screen and full onscreen QWERTY keyboard	
•	Solvent and waste safety sensors 12" Windows® based graphical LCD display with touch	
•	High pressure (200 psi) precision HPLC pumping Solvent and waste safety sensors	
	recovery is greater than 99.9% under most circumstances	
•	actively controls the amount of sample being split to the ELSD Directs only 501.1.1/min or less to the ELSD meaning that sample	
•	Software selectable ELSI) and UV detector sensitivity that	
•	No carrier solvent for ELSD required	
•	software. Integrated ELSD exclusively designed for Flash system	
•	Solvent Options: Four independent solvent channels offering use of up to four solvents at any time during a run. Controlled by the	
•	Vapour sensors for leak detection	
•	Air purging of used cartridges to help ensure safe disposal	
•	• Use same solvents in multiple reservoirs with rapid auto line switching for extended capacity	

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cable cross over Prime & Stations are faintated in 42 2 rige site 1005., 39 mm. Oxidino for sasts. Doubte Cover Sens, Leather foam Sear Covering P.V.C. Bushes for smooth action in plates. Pulles with double ball bearing. Handles & codis made from 25mm M.S.Right Bar with revolving /kuruled Grips. Thick Cubino (Proteet 25mm) covered with top quality, tear resistant Leatharite for seats. Powder Coasing for frames ICAR (RC) Umiam 24 Heavy duty commercial use machine Heavy Duty Commercial Use Smith Machine Pranes & Stations are factorated in 4 x 2 Pipe Stell Tubes., Double Cover Seas, Leather foam Seat Covering. P.V.C. Bushes for smooth action in plates. Double Cover Seas, Leather foam Seat Covering. P.V.C. Bushes for smooth action in plates. Double Cover Seas, Leather foam Seat Covering. P.V.C. Bushes for smooth action in plates. Double Cover Seas, Leather foam Seat Covering. P.V.C. Bushes for smooth action in plates. Double Cover Seas, Leather foam Seat Covering. P.V.C. Bushes for smooth action in plates. Double Cover Seas, Leather foam Seat Covering. P.V.C. Bushes for smooth action in plates. Double Cover Seas, Leather foam Seat Covering. P.V.C. Bushes for smooth action in plates. Powder Coasing for frames Estate Cell, ICAR (RC) Umiam		 Power Options: 120/240 V, 50/60 Hz, 10 A Certifications: CE, TUV®, ISO® 9001 	
machine Frames & Stations are fabricated in 4 x 2 Pipe Steel Tubes, 35 mm Clushien for seats. ICAR (RC) Umiam PV.C. Bushes for smooth action in plates. Pulles with double bad from 25mm M.S. Bright Bar with revolving /knurled Grips. Thick Cushion (Profeel 25mm) covered with top quality, tear resistant Leatharite for seats. Powder Coating for frames ICAR (RC) Umiam 25 Heavy duty commercial peck fily Heavy Duty Commercial Use Peck Deck Fly Frames & Stations are fabricated in 4 x 2 Pipe Steel Tubes, 35 mm Cushion for seats. Double Cover Seats, Leather foam Seat Covering. P.V.C. Bushes for smooth action in plates. Pulles with double hall bearing. Handles & rook made from 25mm M.S. Bright Bar with revolving /knurled Grips. Thick Cushin for seats. Double Cover seas, Leather foam Seat Covering. P.V.C. Bushes for smooth action in plates. Pulles with double hall bearing. Handles & rook made from 25mm M.S. Bright Bar with revolving /knurled Grips. Thick Cushin (Profeel Z2mm) covered with top quality, Estate Cell, ICAR (RC)	23	Frames &Stations are fabricated in 4 x 2 Pipe Steel Tubes., 35 mm Cushion for seats. Double Cover Seats, Leather foam Seat Covering. P.V.C. Bushes for smooth action in plates. Pullies with double ball bearing. Handles &rods made from 25mm M.S.Bright Bar with revolving /knurled Grips. Thick Cushion (Profeel 25mm) covered with top quality, tear resistant Leatharite for seats.	ICAR (RC)
Frames & Stations are fabricated in 4 x 2 Pipe Steel Tubes., peck fly Frames & Stations are fabricated in 4 x 2 Pipe Steel Tubes., 35 mm Cushion for seats. Double Cover Seats, Leather foam Seat Covering. P.V.C. Bushes for smooth action in plates. Pullies with double ball bearing. Handles & rods made from 25mm M.S.Bright Bar with revolving /knurled Grips. Thick Cushion (Profeel 25mm) covered with top quality,	24	Frames & Stations are fabricated in 4 x 2 Pipe Steel Tubes., 35 mm Cushion for seats. Double Cover Seats, Leather foam Seat Covering. P.V.C. Bushes for smooth action in plates. Pullies with double ball bearing. Handles & rods made from 25mm M.S.Bright Bar with revolving /knurled Grips. Thick Cushion (Profeet 25mm) covered with top quality, tear resistant Leatharite for seats.	ICAR (RC)
	25	 Frames & Stations are fabricated in 4 x 2 Pipe Steel Tubes., 35 mm Cushion for seats. Double Cover Seats, Leather foam Seat Covering. P.V.C. Bushes for smooth action in plates. Pullies with double ball bearing. Handles & rods made from 25mm M.S.Bright Bar with revolving /knurled Grips. Thick Cushion (Profeel 25mm) covered with top quality, 	ICAR (RC)

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26	Heavy duty commercial use high lat pulley	Heavy Duty Commercial Use High Lat Pulley Frames & Stations are fabricated in 4 x 2 Pipe Steel Tubes., 35 mm Cushion for seats. Double Cover Seats, Leather foam Seat Covering. P.V.C. Bushes for smooth action in plates. Pullies with double ball bearing. Handles & rods made from 25mm M.S.Bright Bar with revolving /knurled Grips. Thick Cushion (Profeel 25mm) covered with top quality, tear resistant Leatharite for seats	Estate Cell, ICAR (RC) Umiam
27	Heavy duty commercial use leg press/ hack squat	Heavy Duty Commercial Use Leg Press / Hack Squat Frames & Stations are fabricated in 4 x 2 Pipe Steel Tubes., 35 mm Cushion for seats. Double Cover Seats, Leather foam Seat Covering. P.V.C. Bushes for smooth action in plates. Pullies with double ball bearing. Handles &rods made from 25mm M.S.Bright Bar with revolving /knurled Grips. Thick Cushion (Profeel 25mm) covered with top quality, tear resistant Leatharite for seats. Powder Coating for frames	Estate Cell, ICAR (RC) Umiam
28	Heavy duty commercial use chinning dipping machine	Heavy Duty Commercial Use Chinning Dipping Machine Frames & Stations are fabricated in 4 x 2 Pipe Steel Tubes., 35 mm Cushion for seats. Double Cover Seats, Leather foam Seat Covering. P.V.C. Bushes for smooth action in plates. Pullies with double ball bearing. Handles & rods made from 25mm M.S.Bright Bar with revolving /knurled Grips. Thick Cushion (Profeel 25mm) covered with top quality, tear resistant Leatharite for seats. Powder Coating for frames	- Estate Cell, ICAR (RC) Umiam

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29	Heavy duty commercial use leg extension machine	Heavy Duty Commercial Use Leg Extension Machine Frames & Stations are fabricated in 4 x 2 Pipe Steel Tubes., 35 mm Cushion for seats. Double Cover Seats, Leather foam Seat Covering. P.V.C. Bushes for smooth action in plates. Pullies with double ball bearing. Handles & rods made from 25mm M.S.Bright Bar with revolving /knurled Grips. Thick Cushion (Profeel 25mm) covered with top quality, tear resistant Leatharite for seats. Powder Coating for frames	Estate Cell, ICAR (RC) Umiam
30	Heavy duty commercial use leg curl machine	Heavy Duty Commercial Use Leg Curl Machine Frames & Stations are fabricated in 4 x 2 Pipe Steel Tubes., 35 mm Cushion for seats. Double Cover Seats, Leather foam Seat Covering. P.V.C, Bushes for smooth action in plates. Pullies with double ball bearing. Handles &rods made from 25mm M.S.Bright Bar with revolving /knurled Grips. Thick Cushion (Profeel 25mm) covered with top quality, tear resistant Leatharite for seats. Powder Coating for frames	Estate Cell, ICAR (RC) Umiam
31	Heavy duty commercial use bench cum shoulder press	Heavy Duty Commercial Use Bench Cum Shoulder Press Frames & Stations are fabricated in 4 x 2 Pipe Steel Tubes 35 mm Cushion for seats. Double Cover Seats, Leather foam Seat Covering. P. V. C. Bushes for smooth action in plates. Pullies with double ball bearing. Handles & rods made from 25mm M.S.Bright Bar with revolving /knurled Grips. Thick Cushion (Profeel 25mm) covered with top quality, tear resistant Leatharite for seats. Powder Coating for frames	Estate Cell, ICAR (RC) Umiam

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32	Heavy duty commercial use tricep push down	Heavy Duty Commercial Use Tricep Push Down Frames &Stations are fabricated in 4 x 2 Pipe Steel Tubes., 35 mm Cushion for seats. Double Cover Seats, Leather foam Seat Covering. P. V. C. Bushes for smooth action in plates. Pullies with double ball bearing. Handles &rods made from 25mm M. S. Bright Bar with revolving /knurled Grips. Thick Cushion (Profeel 25mm) covered with top quality, tear resistant Leatharite for seats. Powder Coating for frames	Estate Cell, ICAR (RC) Umiam
33	Preacher curl bench	Preacher Curl Bench 35 mm Cushion for seats. Double Cover Seats, Leather foam Seat Covering. 6mm thick flexible tested cables for weight & pulley station Handles &rods made from 25mm.	Estate Cell, ICAR (RC) Umiam
34	Abs bench machine	Abs Bench Machine Heavy Duty Pipe Steel Tubes., 35 mm Cushion for seats. Double Cover Seats, Leather foam Seat Covering. P.V.C. Bushes for smooth action in plates. Pullies with double ball bearing. Handles & rods made from 25mm M. S. Bright Bar with revolving /knurled Grips. Thick Cushion (Profeel 25mm) covered with top quality, tear resistant Leatharite for seats. Powder Coating for frames	Estate Cell, ICAR (RC) Umiam

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35	Olympic standard incline bench	Olympic Standard Incline Bench Incline Bench Press Heavy duty mainframe construction. Electro statically applied powder coat paint finish, 35 mm Cushion for seats, Double Cover Seats, Leather foam Seat Covering.	Estate Cell, ICAR (RC) Umiam
36	Olympic standard decline bench	Olympic Standard Decline Bench Decline Bench Press Heavy duty mainframe construction. Electro statically applied powder coat paint finish, 35 mm Cushion for seats, Double Cover Seats, Leather foam Seat Covering.	
37	Olympic standard flat bench	Olympic Standard Flat Bench Flat Bench Press Heavy duty mainframe construction. Electro statically applied powder coat paint finish, 35 mm Cushion for seats, Double Cover Seats, Leather foam Seat Covering.	

38	Incline T bar	Incline T Bar	Estate Cell,
		Heavy duty mainframe construction.	ICAR (RC)
		Electro statically applied powder coat paint finish,	
		35 mm Cushion for seats, Double Cover Seats,	Umiam
		Leather foam Seat Covering.	
			2 Ni
		Seated Calf Bench	
20		Frames and stations are fabricated in 2mmx2mmx12 GZ Steel	
38	Seated calf bench	P.V.C. Bushes for smooth action in plates	
		Powder Coating for frames	
		35 mm Cushion for seats	
		Double Cover Seats.	
		Leather foam Seat Covering	-
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ľ		Adjustable Bench	
• •		Handles &rods made from 25mm M.S.Bright Bar	
39	Adjustable bench	with revolving /knurled Grips.	
ľ		Thick Cushion (Profeel 25mm) coverd with	
ļ		top quality, tear resistant Leatharite for seats.	
1		Powder Coating for frames.	
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1		Plain Bench	
10	Plain bench		K Stata I 'All
40	Plain bench	Frames and stations are fabricated in 4 x 2 Pipe	Estate Cell,
40	Plain bench	Frames and stations are fabricated in 4 x 2 Pipe Powder Coating for frames	ICAR (RC)
40	Plain bench		
40	Plain bench	Powder Coating for frames	ICAR (RC) Umiam
40	Plain bench	Powder Coating for frames 35 mm Cushion for seats	ICAR (RC)
40	Plain bench	Powder Coating for frames 35 mm Cushion for seats Double Cover Seats. Leather foam Seat Covering	ICAR (RC) Umiam
10	Plain bench	Powder Coating for frames 35 mm Cushion for seats Double Cover Seats.	ICAR (RC) Umiam
10	Plain bench	Powder Coating for frames 35 mm Cushion for seats Double Cover Seats. Leather foam Seat Covering	ICAR (RC) Umiam
10	Plain bench	Powder Coating for frames 35 mm Cushion for seats Double Cover Seats. Leather foam Seat Covering	ICAR (RC) Umiam
		Powder Coating for frames 35 mm Cushion for seats Double Cover Seats. Leather foam Seat Covering	ICAR (RC) Umiam
	Plain bench Hex dumbbells	Powder Coating for frames 35 mm Cushion for seats Double Cover Seats. Leather foam Seat Covering Qty – 2 Nos	ICAR (RC) Umiam
		Powder Coating for frames 35 mm Cushion for seats Double Cover Seats. Leather foam Seat Covering Qty - 2 Nos Hex Dumbbells	ICAR (RC) Umiam
		Powder Coating for frames 35 mm Cushion for seats Double Cover Seats. Leather foam Seat Covering Qty - 2 Nos Hex Dumbbells Permanently attached cast iron heads are encased in maintenance free virgin rubber.	ICAR (RC) Umiam
		Powder Coating for frames 35 mm Cushion for seats Double Cover Seats. Leather foam Seat Covering Qty – 2 Nos Hex Dumbbells Permanently attached cast iron heads are encased in maintenance free virgin rubber. • Ergonomically designed solid stech handle for comfort and safety	ICAR (RC) Umiam
40		Powder Coating for frames 35 mm Cushion for seats Double Cover Seats. Leather foam Seat Covering Qty - 2 Nos Hex Dumbbells Permanently attached cast iron heads are encased in maintenance free virgin rubber. • Ergonomically designed solid steel handle for comfort and safety • Handles are knurled and chrome plated; will not peel or chip	ICAR (RC) Umiam
		Powder Coating for frames 35 mm Cushion for seats Double Cover Seats. Leather foam Seat Covering Qty - 2 Nos Hex Dumbbells Permanently attached cast iron heads are encased in maintenance free virgin rubber. • Ergonomically designed solid steel handle for comfort and safety • Handles are knurled and chrome plated; will not peel or chip	ICAR (RC) Umiam
		Powder Coating for frames 35 mm Cushion for seats Double Cover Seats. Leather foam Seat Covering Qty - 2 Nos Hex Dumbbells Permanently attached cast iron heads are encased in maintenance free virgin rubber. • Ergonomically designed solid steel handle for comfort and safety • Handles are knurled and chrome plated; will not peel or chip	ICAR (RC) Umiam
		Powder Coating for frames 35 mm Cushion for seats Double Cover Seats. Leather foam Seat Covering Qty - 2 Nos Hex Dumbbells Permanently attached cast iron heads are encased in maintenance free virgin rubber. • Ergonomically designed solid steel handle for comfort and safety • Handles are knurled and chrome plated; will not peel or chip • Available from 1 Kg - 30 Kgs	ICAR (RC) Umiam
		Powder Coating for frames 35 mm Cushion for seats Double Cover Seats. Leather foam Seat Covering Qty - 2 Nos Hex Dumbbells Permanently attached cast iron heads are encased in maintenance free virgin rubber. • Ergonomically designed solid steel handle for comfort and safety • Handles are knurled and chrome plated; will not peel or chip • Available from 1 Kg - 30 Kgs	ICAR (RC) Umiam
		Powder Coating for frames 35 mm Cushion for seats Double Cover Seats. Leather foam Seat Covering Qty - 2 Nos Hex Dumbbells Permanently attached cast iron heads are encased in maintenance free virgin rubber. • Ergonomically designed solid steel handle for comfort and safety • Handles are knurled and chrome plated; will not peel or chip • Available from 1 Kg - 30 Kgs	ICAR (RC) Umiam
		Powder Coating for frames 35 mm Cushion for seats Double Cover Seats. Leather foam Seat Covering Qty - 2 Nos Hex Dumbbells Permanently attached cast iron heads are encased in maintenance free virgin rubber. • Ergonomically designed solid steel handle for comfort and safety • Handles are knurled and chrome plated; will not peel or chip • Available from 1 Kg - 30 Kgs	ICAR (RC) Umiam
		Powder Coating for frames 35 mm Cushion for seats Double Cover Seats. Leather foam Seat Covering Qty - 2 Nos Hex Dumbbells Permanently attached cast iron heads are encased in maintenance free virgin rubber. • Ergonomically designed solid steel handle for comfort and safety • Handles are knurled and chrome plated; will not peel or chip • Available from 1 Kg - 30 Kgs	ICAR (RC) Umiam

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42	Weight lifting Olympic steering plate	 Weight Lifting Olympic Steering Plate Specially designed radial grip which assists with lifting plates and loading onto Olympic bars and Olympic plate-loading attachments. Each disc is molded from cast iron and has a durable rubber coating which is color coded according to plate size. The rubberized finish makes the product more durable, assists with noise reduction, is easily wiped clean, and reduces wear and damage to floor surfaces. Qty - 300 Kg 	Estate Cell, ICAR (RC) Umiam
43	Weight lifting Olympic standard bar	Weight Lifting Olympic Standard Bar Solid Steel Olympic Bar Set Different Size chrome barbells along with lock, Sizes 3 ft, 4 ft, 4 ft Ez, 7 ft, 6 ft. Both EZ and Plain Bar Qty : 5 Nos	Estate Cell, ICAR (RC) Umiam
44	Dumbbell stand	DUMBBELL STAND Two-Tier Dumbell Rack. This heavy gauge rack will stand up to years of abuse. This rack will hold the large weights with no problem. Powdercoat Paint. Qnty : 01 Set	
45	Aerobic step	AEROBIC STEP Adjustable height. Hard Wearing, Non-Slip surface give safe grip. Target wide range of muscle groups through varying your stepping positions. Ideal for those looking to tone up and slim down. Exceptional value for money Qty : 1 Nos	
46	Medicine ball	Medicine Ball Rubberized medicine balls are a must for any core conditioning routing These rubber medicine balls not only bounce, but come with a unique textured gripping surface for better control during use. Available in different weights Qty – 20 Kg,	Estate Cell, ICAR (RC) Umiam

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47	Yoga mat Gym ball	Yoga Mat Imported High Quality Non Slip Surface Provides Stability Cushioned For Extra Comfort Suitable For Beginners And Experts Must For Every Yoga User Available In Different Colors. Qty - 5 Nos, Gym Ball Easy-to- exercise. Inflation pump included Size: 55cm, 65, 75, 85, 95 Max user weight: (150 kgs) Material: PVC plastic Colour: Different Sizes. Qty - 4 Nos,	Estate Cell, ICAR (RC) Umiam
49	Kettle bell	Kettle Bell Increases muscle tone Burns lot of energy Combines CV and resistance work to improve overall fitr Proven to significantly improve self-esteem Develops inter-muscular teamwork and functional core stability Offers the benefits of strength training combined with those of yoga, pilates & aerobics	Estate Cell, ICAR (RC) Umiam
50	Heavy duty commercial use	Increases stamina and strength-endurance like no other Form of exercise Dramatically improves flexibility and speed Space friendly, Available in Different Sizes Qty – 20 Kg Heavy Duty Commercial Use Motorized Treadmill Dimension(L.W.H): 1960*820*1380mm Packing Measurement: 2250*1010*435mm	
50	motorized treadmill	Walking Area(L.W): 520*1450(mm) Horse power: 2.5HP AC Motor Incline: 0-15% LED display Speed: 1.5-20km/h Weight allowed: <130kgs QTy – 3 Nos	

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51	Upright bike	Upright Bike Drive System : Magnetic Fly Wheel : 7 Kg Resistance Level : 10 Levels Resistance Type :Manual-Magnetic Display Feedback : Speed, Time, Distance, Calories & Pulse 1 Big LCD Window , Adjustable Handle Easy Seat Adjustment with Hydro Spring System Seat Adjustable UPTO 7 Level's Floor Leveller, Wheels for Easy Transportation Frame: Heavy Gauge with Powder Coat Finish Qty - 3 Nos		1	ite Cell, .R (RC) U m
52	Elliptical cross trainer	Elliptical Cross Trainer • Electronically controlled magnetic resistance with 16 levels t • 12 Training programmes including heart rate controlled opti • Polar compatible receiver for use with chest strap (not include • Continuous display of seven functions • Fitness recovery test to keep training interesting • 14 kg Flywheel for a smooth experience • Pendulum ball-bearings in disk joints • Heavy duty transporter castors • Levellers at rear, for use on uneven surfaces Qty – 2 Nos	on and		
Sl.No	Name of the items	Specifications		Qnt.	Whom to be
53	Deep Freezer Vertical(- 20°C)	 Cabinet Temperature Range Ambient Temperature: 10°C Capacity (Litres): 600-700 Power Input (W): 700 Voltage/Frequency: 220V-24 	2-32°C 4011/50HZ	1	supplied Animal Production Divn., ICAR (RC) Umaim
		 Temperature Control-20°C Interior Dimension (W*D* 760*630*1300 Exterior Dimension (W*D* 910*835*1950 Net/Gross Weight: 298/314 Door: Solid door Shelves: 3 Container Load:20GP/40GQ 	H mm): H mm):		
	Generator set 125 KVA	 Interior Dimension (W*D* 760*630*1300 Exterior Dimension (W*D* 910*835*1950 Net/Gross Weight: 298/314 Door: Solid door Shelves: 3 	H mm): H mm):	1	Flagship
54	Generator set 125 KVA	 Interior Dimension (W*D* 760*630*1300 Exterior Dimension (W*D* 910*835*1950 Net/Gross Weight: 298/314 Door: Solid door Shelves: 3 Container Load:20GP/40GQ 	H mm): H mm):	1	Flagship Transboundary
54	Generator set 125 KVA	 Interior Dimension (W*D* 760*630*1300 Exterior Dimension (W*D* 910*835*1950 Net/Gross Weight: 298/314 Door: Solid door Shelves: 3 Container Load:20GP/40GQ 	H mm): H mm): 0/40HQ12/24/24	1	Flagship
54	Generator set 125 KVA	 Interior Dimension (W*D* 760*630*1300 Exterior Dimension (W*D* 910*835*1950 Net/Gross Weight: 298/314 Door: Solid door Shelves: 3 Container Load:20GP/40GQ 	H mm): H mm):	1	Flagship Transboundary , ICAR (RC)
54	Generator set 125 KVA	 Interior Dimension (W*D* 760*630*1300 Exterior Dimension (W*D* 910*835*1950 Net/Gross Weight: 298/314 Door: Solid door Shelves: 3 Container Load:20GP/40GQ DG Set Specifications Prime rating at 0.8 pf: Voltage:	H mm): H mm): 0/40HQ12/24/24	1	Flagship Transboundary , ICAR (RC)
54	Generator set 125 KVA	 Interior Dimension (W*D* 760*630*1300 Exterior Dimension (W*D* 910*835*1950 Net/Gross Weight: 298/314 Door: Solid door Shelves: 3 Container Load:20GP/40GQ DG Set Specifications Prime rating at 0.8 pf: Voltage: Frequency:	H mm): H mm): 0/40HQ12/24/24 125(100) 415	1	Flagship Transboundary , ICAR (RC)
54	Generator set 125 KVA	 Interior Dimension (W*D* 760*630*1300 Exterior Dimension (W*D* 910*835*1950 Net/Gross Weight: 298/314 Door: Solid door Shelves: 3 Container Load:20GP/40GQ DG Set Specifications Prime rating at 0.8 pf: Voltage:	H mm): H mm): 0/40HQ12/24/24 125(100) 415 50	1	Flagship Transboundary , ICAR (RC)

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Battery Capacity:	lx 120/130
Noise level :	<75dbA
Engine Specification	
Rated output:	114.7(156)
No. of cylinder	4
Bore X Stroke	105*125
Aspiration :	ТА
Governing Class	Electroic AO
SFC at 75% load	146
SFC at 100% load	146
Lub oil consumption	0.07
Lub oil sump period	500
Lub oil sump capacity	14.8
Engine coolant capacity	28
Alternator Specification	
Rating	125
Insulation class	Н
Protection	IP23
Time to built up rated voltage at rated RPM	<5
Alternator efficiency at 75% load	93.2
Alternator efficiency at 100 % load	92.6
Voltage regulation	1% with 4% engine governing
Wave from distortion at No load & at Non-	<1.8 & <4
distorting balance linear load	
Permissible transient voltage dip at full load 0.8 pf	<18
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Sd/- S. V. Ngachan DIRECTOR

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