

CRITERIA 7.1.3:

Describe the facilities in the Institution for the management of the following types of degradable and non-degradable waste

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1.SOLID WASTE MANAGEMENT:

Mody University of Science and Technology has implemented several processes in effectively managing waste at our campuses. The working definition for solid waste is the unwanted or useless solid materials generated from combined residential, developmental and commercial activities in a given area.

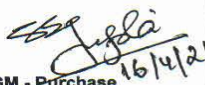
Following are the points to handle waste management:

- (i) The garbage is put into dustbins by respective housekeeping staff of various schools/hostels in the morning hours and then picked up by the central housekeeping persons into a mini garbage truck of the institution. The University has placed dustbins in all corners along the road and thus providing an end to end solution to the waste generated at our campus through an environmentally sound processing and disposal technology.
- (ii) It is then shifted to a centrally designated place (Chimney Area) where it is separated into plastic, iron and papers.
- (iii) A contract has been executed with the civil agency for lifting the same out of the campus and the contract is renewed every year.
- (iv) A road cleaning staff of eight persons is totally dedicated for cleaning of the roads of whole campus and have been given the above mentioned garbage truck for shifting the garbage from whole campus including living cottages/villas of faculty to Chimney area.



Solid Waste Generation data

S.No	Department/Area of source of waste (Every point of waste generation within the campus should be identified and listed - cross)	Type of waste generation in each of the point source (for each type of waste)	Weight (in kgs/day)	Toxic (in kgs/day)	Treatment/disposal method	In-campus	Out-sourced to specific vendors	Remarks
1	HOSTELS	SOLID	150 KG	NIL	CHIMNEY/SEGREGATION/ BURNING	YES	OUT-sourced	
2	DINING HALL	WET	100 KG	NIL	CHIMNEY/SEGREGATION/ DUMPING	YES	OUT-sourced	
3	OPEN AREA	SOLID	50 KG	NIL	CHIMNEY/SEGREGATION/ BURNING	YES	OUT-sourced	
4	OFFICES	SOLID	20 KG	NIL	CHIMNEY/SEGREGATION/ BURNING	YES	OUT-sourced	
5	MU	SOLID	50 KG	NIL	CHIMNEY/SEGREGATION/ BURNING	YES	OUT-sourced	
6	MODY SCHOOL	SOLID	40 KG	NIL	CHIMNEY/SEGREGATION/ BURNING	YES	OUT-sourced	
7	CLINIC	BIO-MEDICAL	100 GMS	STP	CHIMNEY/ BURNING	YES	OUT-sourced	

 MODY UNIVERSITY OF SCIENCE AND TECHNOLOGY LAKSHMANGARH - RAJASTHAN A Leading Women's University		MODY UNIVERSITY OF SCIENCE & TECHNOLOGY (H&S) Lakshmangarh (Sikar) Rajasthan - 332 311, India Ph. No. : (01573) 225001-12 (Ext.-1091) Dir. Line. 225025 • E-mail: gmp@modyuniversity.ac.in • Website: www.modyuniversity.ac.in	
ANNUAL CONTRACT (AC)			
Mr. Sandeep Das Lakshmangarh Mobile No :- 8764173721		AC No. :- MUST/H&S/2021-22/ 42 AC Date :- 16.04.2021 Internal PCA No. :- 0044	
Dear Sir/Ma'am, 1. We are pleased to issue our ANNUAL CONTRACT (AC) subject to the terms & conditions printed here. 2. AC No must be mentioned in Invoice / Challan. Payment will be held-up in absence of such reference. 3. After supply of material, original Invoice / Bill should be sent directly to GM Finance, Mody University, Lakshmangarh, Distt- Sikar, Rajasthan - 332311, Ph. No. : (01573) 225001-12			
S.No.	Particulars	Price Per year (Rs)	
1	Annual Contract of Removal of Dry Garbage from Incinerator from 01/04/2021 to 31/3/2022	281000	
Terms & Conditions :- 1.) :- Payment will be done by vendor on Quarterly advance basis before collection of Garbage. 2.) :- Vendor has deposited Rs. 20,000/- (Rupees Twenty Thousand Only) as a security amount. Deposited amount will be refundable to him without any interest after successful completion of this contract. 3.) :- Vendor to collect the garbage 2-3 times a week.		Sub-Total	281000
		GST @5%	14050
		Total Amount	295050
 16/04/2021		Yours Faithfully for Mody University  16/4/21 GM - Purchase Saibal Sengupta	
MUST GST NO.- 08AAAJM1982F1Z4		MUST PAN No.- AAAJM1982F	
MODY UNIVERSITY SUGGESTS TO AVOID USE OF PLASTIC IN PACKAGING TO MAKE THE ENVIRONMENT PLASTIC FREE.THE UNIVERSITY RESERVES THE RIGHT NOT TO ACCEPT THE GOODS IN ANY FORM OF PLASTIC PACKAGING.			



MODY
UNIVERSITY
OF SCIENCE AND TECHNOLOGY
LAKSHMANGARH - RAJASTHAN
A Leading Women's University

MODY UNIVERSITY
OF SCIENCE AND TECHNOLOGY

(Established u/s 2(f) of the UGC Act, 1956)
Lakshmangarh (Sikar), Rajasthan 332 311, India
Ph. No. : (01573) 225001-12 • Fax : (01573) 225041
email : registrar@modyuniversity.ac.in • www.modyuniversity.ac.in

नवोदय प्रिन्टर्स एण्ड स्टेशनर्स, जयपुर-3
(राज.) 21/42+421

कार्यालय नगरपालिका मण्डल,
रसीद
38

रसीद संख्या..... दिनांक 3/4/21..... खाता क्रमांक..... सर्विस नं.....
वार्ड नं..... राजस्व निरीक्षक / कैशियर.....
ब्राह्मण मोहित चन्देला R. नं. 23 RB. 8773 (T)

क्र	कर व फीस का नाम	वर्ष	रकम जो लेनी है	रकम जो प्राप्त हुई	चैक नं. बैंक का नाम/दिनांक	रकम यदि नकद प्राप्त हुई हो
	गृह कर (21/42+421)		100/-	100/-		100/-
	लीज					
	दुकान किराया					
	लाइसेन्स फीस					
	रजिस्ट्रार					
	व्याज					
	जुमाना					
	अन्य					100/-
शब्दों में	सो रुपये	योग	100/-	100/-	पेज नं.	
		छूट			क्रमांक नं.	
		कुल रकम				

यह रसीद प्राप्तकर्ता के हस्ताक्षर तथा बैंक के समाशोधन पर ही मान्य होगी।

राजस्व निरीक्षक / कैशियर

हस्ताक्षर राजस्व अधिकारी

नवोदय प्रिन्टर्स एण्ड स्टेशनर्स, जयपुर-3
(राज.) २१/०७/२०२०

रसीद संख्या..... 39

दिनांक 3/4/21

खाता क्रमांक..... सर्विस नं.....

वार्ड नं.

राजस्व निरीक्षक / केशियर

2. दीनजी दीनचंद पता RJ23 RB 8773 (T. 4.25km)

क्र	कर व फीस का नाम	वर्ष	रकम जो लेनी है	रकम जो प्राप्त हुई	चेक नं. बैंक का नाम/दिनांक	रकम यदि नकद प्राप्त हुई हो
	गृह कर	सिवर 2025 - 4	400/-	400		400/-
	लीज					
	दुकान किराया					
	लाइसेन्स फीस					
	वार्ज					
	व्याज					
	जुमाना					
	अन्य					400
	शब्दों में	चार सौ रुपये	योग	400/-	400/-	पेज नं.
			छूट			क्रमांक नं.
	यह रसीद प्राप्तकर्ता ने	कुल रकम				

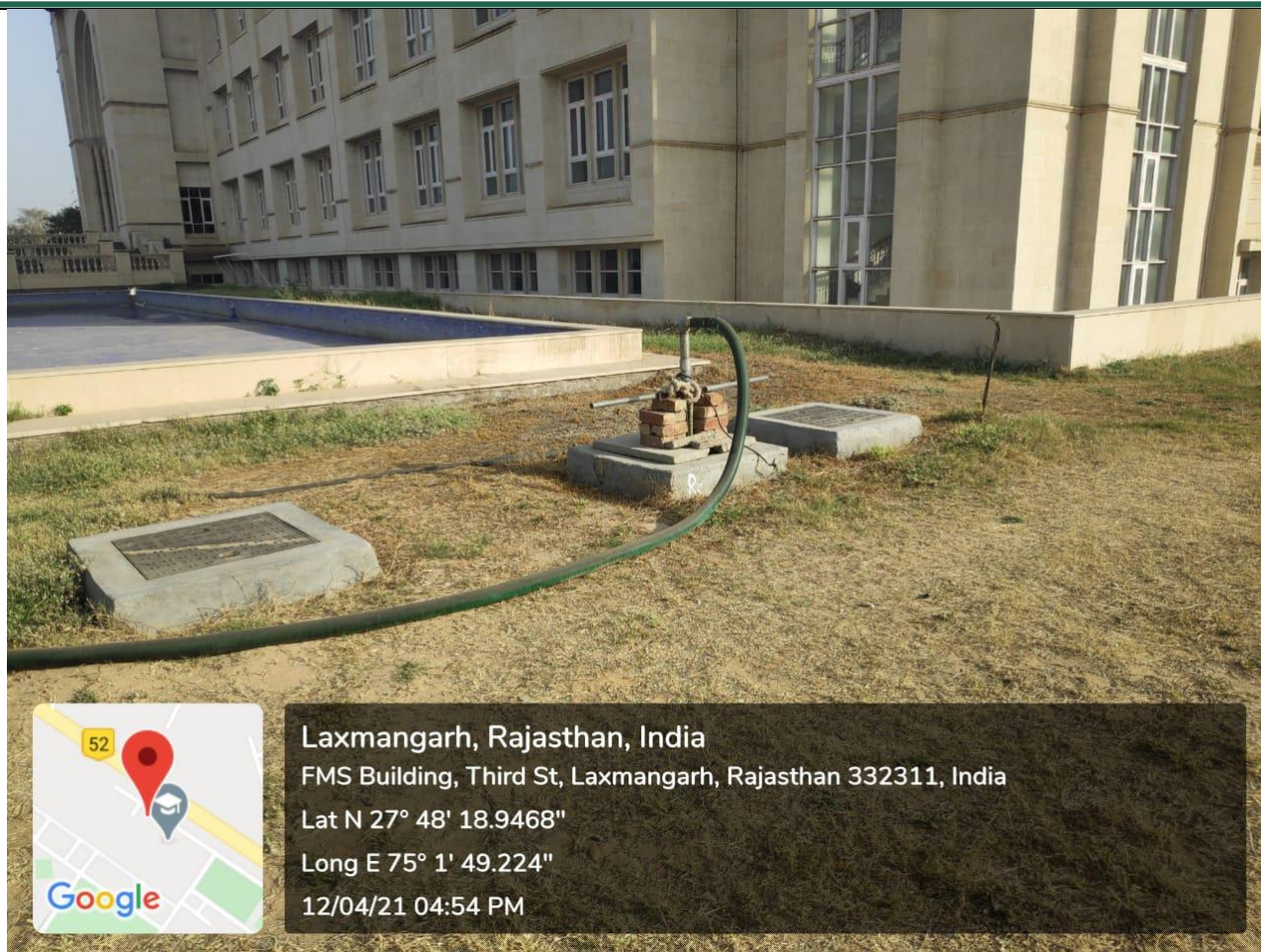
कुल रकम	
यह रसीद प्राप्तकर्ता के हस्ताक्षर तथा चैक के समाशोधन पर ही मान्य होगी।	

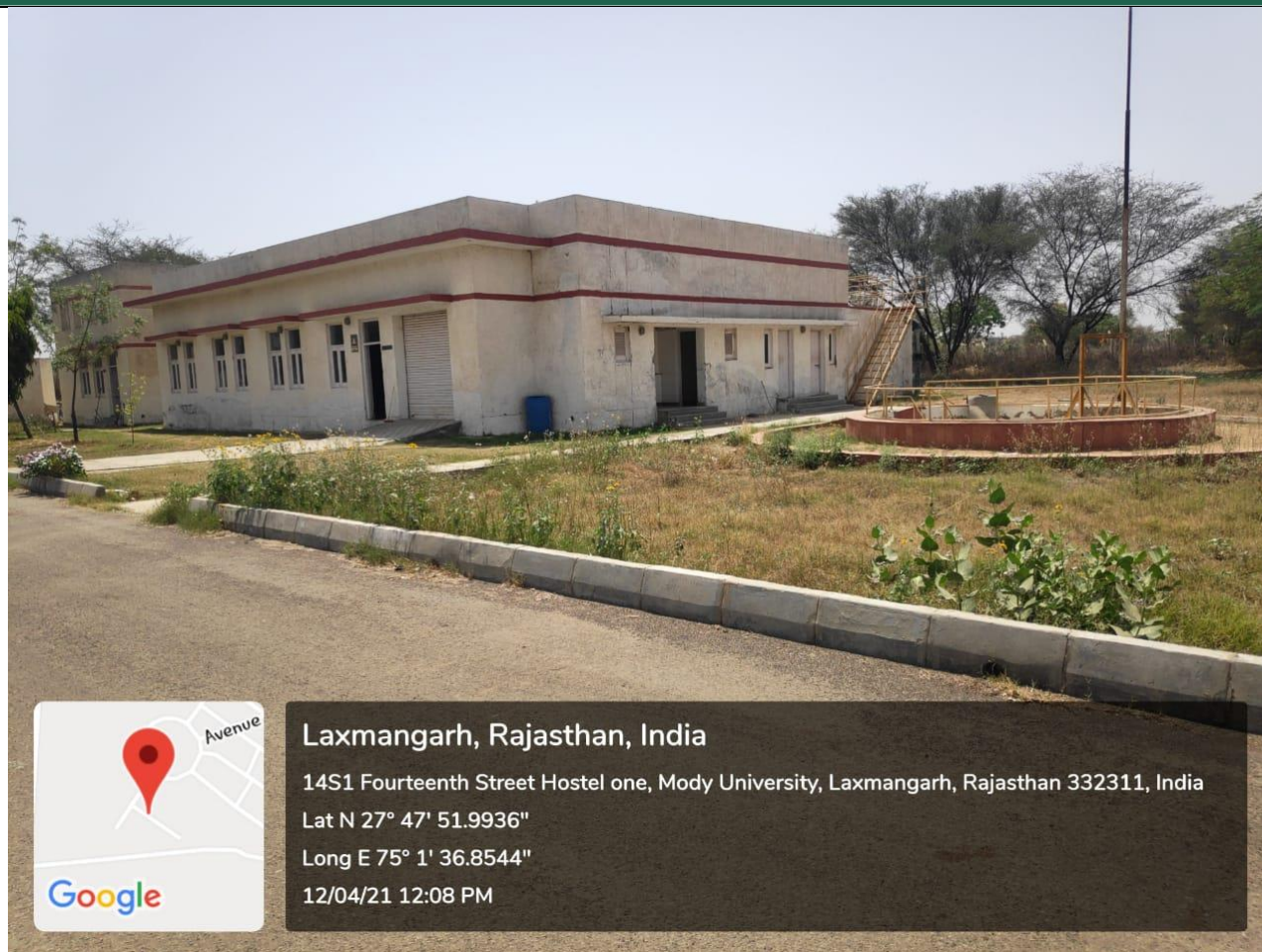
राजस्व निरीक्षक / कैशियर

हस्ताक्षर राजस्व अधिकारी

2.LIQUID WASTE MANAGEMENT

1. Mody University of Science and Technology campus has a functional Sewage Treatment Plant (STP) of 11 Lacs Litre Per Day treating capacity. The plant is based on Moving Bed Biofilm Reactor (MBBR) waste water treatment process.
2. The treated water is pumped through a separate pipeline and is utilized for Arboriculture/Horticulture within the campus.
3. A twin artificial water body has also been created in the campus. The surplus treated water generated from STP is fed to the water body. This water body attracts migratory birds during migration seasons thus contributing to the overall ecosystem of the university campus.
4. The water from the STP is tested for guiding parameters at regular interval to ensure quality and safety of treated water.





Laxmangarh, Rajasthan, India

14S1 Fourteenth Street Hostel one, Mody University, Laxmangarh, Rajasthan 332311, India

Lat N 27° 47' 51.9936"

Long E 75° 1' 36.8544"

12/04/21 12:08 PM

JAGDAMBA LABORATORIES®

Govt. Approved Test House

119, Solitaire Industrial Park, Phase-1st, Dahmi Kallan
Bagru, Jaipur - 303007 (Rajasthan)

Tel. : 0141-2390604 Email : jagdambalab4@gmail.com, jagdamba_lab@yahoo.com Web : jagdambalab.com

TESTING OF WATER | FOODS | ALCOHOLIC DRINKS | DRUGS | HERBALS | COSMETICS | CHEMICALS | MINERALS | BUILDING MATERIAL | METALS



TEST REPORT

Sample Name	STP INLET WATER		
Report No.	JLWT210930004/A	Batch No.	NA
Sample Code	NA	Mfg. Date	NA
Date of Received	30/09/2021	Exp. Date	NA
Started of Analysis	30/09/2021	Sample Condition	OK
End of Analysis	04/10/2021	Sample Qty.	2 LTR.
Report Release Date	04/10/2021	Ref. No.	NA
Sample Submitted By	MODY UNIVERSITY OF SCIENCE & TECHNOLOGY LAXMANGARH SIKAR-332311		
Test Report Issued to	MODY UNIVERSITY OF SCIENCE & TECHNOLOGY LAXMANGARH SIKAR-332311 RAJASTHAN		

TEST RESULTS

Reference : As per Compliance of Environmental Acts/Rules 1998
Description : Colourless Liquid.

Sl. No.	Test Parameter	Unit	Found	Specifications	Method of Tests
1	pH	-	7.68	5.5 - 9.0	IS 3025 Part-11 : 1983, RA 2017
2	Total Dissolve Solids (T.D.S.)	mg/ltr	1172	---	IS 3025 Part-16 : 1984, RA 2017

The above sample not confirms to As per Compliance of Environmental Acts/Rules 1998 with respect to the above tests

END OF REPORT

K.S. RAJAWAT
4/10/21
Dy. Technical Manager
Analyst

MANOJ YADAV
04/10/21
Technical Manager, Chemical
Authorised Signatory

NOTE :

1. This report is not to be reproduced wholly or in part and cannot be used as an evidence in the Court of Law and should not be used in any advertising media without special permission in writing
2. Total liability of this Laboratory is limited to the invoice amount.
3. This results listed refer only to the above sample and applicable parameter's Endorsement of products is neither inferred nor implied.
4. Sample will be destroyed after one month (In case of nonperishable items only) the date of issue of test certificate unless otherwise specified.
5. Report refer to the Sample Submitted to us and not drawn by Jagdamba Laboratories unless mentioned otherwise.

Page No.1 of 1

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119, Solitaire Industrial Park, Phase-I", Dahmi Kallan
Bagru, Jaipur - 303007 (Rajasthan)

Tel. : 0141-2390604 Email : jagdambalab4@gmail.com, jagdamba_lab@yahoo.com Web : jagdambalab.com

TESTING OF WATER | FOODS | ALCOHOLIC DRINKS | DRUGS | HERBALS | COSMETICS | CHEMICALS | MINERALS | BUILDING MATERIAL | METALS



TEST REPORT

Sample Name	STP OUTLET WATER	Batch No.	NA
Report No.	JLWT210930005/A	Mfg. Date	NA
Sample Code	NA	Exp. Date	NA
Date of Received	30/09/2021	Sample Condition	OK
Started of Analysis	30/09/2021	Sample Qty.	2 LTR.
End of Analysis	04/10/2021	Ref. No.	NA
Report Release Date	04/10/2021		
Sample Submitted By	MODY UNIVERSITY OF SCIENCE & TECHNOLOGY LAXMANGARH SIKAR-332311		
Test Report Issued to	MODY UNIVERSITY OF SCIENCE & TECHNOLOGY LAXMANGARH SIKAR-332311 RAJASTHAN		

TEST RESULTS

Reference : As per Compliance of Environmental Acts/Rules 1998

Description : Colourless Liquid. with having suspended particals.

Sl. No.	Test Parameter	Unit	Found	Specifications	Method of Tests
1	pH	-	7.97	5.5 - 9.0	IS 3025 Part-11 : 1983, RA 2017
2	Total Dissolve Solids (T.D.S.)	mg/ltr	956	—	IS 3025 Part-16 : 1984, RA 2017

The above sample confirms to As per Compliance of Environmental Acts/Rules 1998 with respect to the above tests only.

END OF REPORT

K.S. RAJAWAT
4/10/21
Dy. Technical Manager
Analyst

MANOJ KADAV
04/10/2021
Technical Manager-Chemical
Authorised Signatory

NOTE :

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5. Report refer to the Sample Submitted to us and not drawn by Jagdamba Laboratories unless mentioned otherwise.

Page No.1 of 1

No. AIPL/MIER/STP/08-09/08
Dated 23rd March 2009

To,
M/s Modi Institute of Education and Research
Laxmangarh,
Dt. Sikar
Rajasthan

Kind Attention : Col. Parminder Singh, GM Engineering

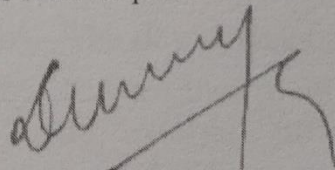
OMC PROPOSAL REV 2.0 : SEWAGE TREATMENT PLANT AT MIER

Dear Sir,

1. Ref your letter No. nil dated nil received under mail dated 23rd March 2009 regarding above mentioned subject.
2. We are pleased to re-submit our proposal for operation and maintenance your Sewage Treatment Plant located at M/s Modi Institute of Education and Research, Laxmangarh for the period 2009-2010 after including the amendments as suggested by you. Kindly find the revised proposal attached at appx "A" please.
4. We assure you our best services always and every time.

Thanking you,

For Akar Impex Pvt. Ltd.



(D K ASHARA)
Lt. Col. (Rtd)
GM, Project

Appendix "A"

(Refers to para 2 of Akar Impex letter No.
AIPL/MIER/STP/08-09/08 dt.23rd Mar 2009)

Akar Impex Pvt. Ltd.,
E-9, Sector-6, Noida
(Dist. Gautam Budh Nagar),
U.P. India - 201 301.
Phones: +91-120-4255580 to 4255582, 4346745
Fax: +91-120-4255583

**PROPOSAL FOR OPERATION AND MAINTENANCE OF SEWAGE
TREATMENT PLANT AT MODI INSTITUTE OF EDUCATION
AND RESEARCH, LAXMANGARH, DT. SIKAR, RAJASTHAN**

1. PROPOSAL

Akar Impex Pvt. Ltd., E-9, Sector-6, Noida (Dist. Gautam Budh Nagar), U.P. – 201301, proposes to undertake the operation and maintenance of Sewage Treatment Plant located at M/s Modi Institute of Education and Research, Laxmangarh.

2. SCOPE OF PROPOSAL

The scope of the proposal is as under:

- (a) The day to day operation of the plant.
- (b) Ensure that plant remains in operation 24 Hrs a day unless there is an external power supply failure and generator backup is not provided by the customer or there is a major breakdown.
- (c) Regular day to day maintenance of plant to be carried out.
- (d) All minor/major repairs/replacements of the equipment/pumps/civil works (which was executed by Akar Impex) will be carried out by us for the duration of one year from the date of taking over the plant by MIER.
- (e) Keeping adequate minor spares at the plant site so as to avoid delay in repair.

- (f) Accumulation of oil, grease, sludge and screening removed from and within Sewage Treatment Plant area from time to time in a hygienic and orderly manner. However, Shifting of material so collected to distant location will be responsibility of the customer, when it becomes enough to be shifted. Client shall also provide means of storage of sludge/screenings in the meantime. However, the sludge pit should be cleared regularly by the customer so as to avoid accumulation of the dried sludge.

- (g) Sewage Treatment Plant always to be kept in presentable condition.

3. CHARGES FOR OPERATION AND MAINTENANCE

Monthly charges of Rs. 44000/- (Rupees Forty Four Thousand only) + service charges and any other statutory GOVT. taxes as applicable will be charged extra. The breakdown given is as under:

Ser No.	Item description	Unit	Rate in Rs.	Total in Rs.
1	Trained operators	3 Nos	6000/- per person	18000-00
2	Assistants	3 Nos	4000/- per person	12000-00
3	Outstation allowance	6 Nos.	50/- per day/pers	9000-00
4	Accommodation	1 Nos.	2000/- per month	2000-00
5	Visit of supervisory Staff	At least one visit/month	3000/- (averaged)	3000-00
Total				44000-00

4. PAYMENT TERMS

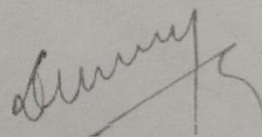
Related operation and Maintenance bills will be submitted to MIER on monthly basis on first day of each month and payment to be released by 7th of same month by the MIER.

5. PERIODICITY OF THE CONTRACT

- (a) The operation and maintenance contract shall be for one year from the date of acceptance and allotment of the same.
- (b) The same may be renewed for the following year in mutual consultation of both parties.

6. TERMS AND CONDITIONS

- (a) Provision of adequate power supply for operation of the plant will be responsibility of the customer.
- (b) Shifting of material like accumulated oil, grease, sludge so collected to distant location will be the responsibility of the customer, when it becomes enough to be shifted.
- (c) All bills must be cleared by 07th of every month.
- (d) Chemicals and consumables shall be provided by client.
- (e) The list of persons employed will be submitted to MIER. Police verification/authenticity of the person employed will be the responsibility of Akar Implex. Person so employed will be fully trained to do the job. Operation and Maintenance will be done in three shifts. Documentation i.e. logbooks for all pumps etc will be maintained and updated daily.”



(D K ASHARA)
Lt. Col. (Rtd)
GM, Project

3.BIOMEDICAL WASTE:

In Mody University of Science and Technology at present, the department is not involved in any type of animal experimentation. Blood samples, needles, syringes, pipette tips, slides, and glassware are all required for some experimental investigations. The amount of biomedical waste produced in laboratories is quite little, and their infectivity and toxicity are likewise extremely low. Biomedical wastes are handed over to authorized university staff for handling when a significant volume has been collected.

Hereby, below mentioned the S.O.P for Bio Medical Waste:



Biomedical Waste Management

“Reduce – Recycle – Reuse” is a social responsibility; let us work together for a better tomorrow

"Bio-medical waste" means wastes that are generated during diagnosis, treatment or immunization of human beings or animals or research activities or in the production or testing of biologicals. Medical waste includes all the waste generated from the Health Care Facility which can have adverse effects on the human health or to the environment in general if not disposed properly. In general, the quantity of biomedical waste will be 5% to 10% of total waste generated from the campus, hospitals and laboratories. These wastes consist of the materials originated

patient or animals blood, secretions, infected parts, biological liquids such as chemicals, medical supplies, medicines, lab discharge, sharps metallic and glassware, plastics etc. Bio Medical Waste Management Rules, 2016 categorizes the bio-medical waste generated from the health care facility into four major categories based on the segregation pathway and colour code:

1. Yellow Category
2. Red Category
3. White Category
4. Blue Category
5. Black Category

Table -1 CATEGORIES OF BIOMEDICAL WASTE SCHEDULE – I

CATEGORIES OF BIOMEDICAL WASTE SCHEDULE – I			
CATEG ORY	TYPE OF WASTE	TYPE OF BAG OR CONTAINER TO BE USED	TREATMENT AND DISPOSAL OPTION
Yellow	Human tissues, organs, body parts	Yellow coloured non-chlorinated plastic bags	Incineration or Plasma Pyrolysis or deep burial *
	Animal Anatomical Waste : Experimental animal carcasses, body parts, organs, tissues, including the waste generated from animals used in experiments or testing in veterinary hospitals or colleges or animal houses.		
	Soiled Waste: Items contaminated with blood, body fluids like dressings, plaster casts, cotton swabs and bags containing residual or discarded blood and blood components.		Incineration or Plasma Pyrolysis or deep burial * In absence of above facilities, autoclaving or micro-waving/hydroclaving followed by shredding or mutilation or combination of sterilization and shredding. Treated waste to be sent for energy recovery.

	Expired or Discarded Medicines: Pharmaceutical waste like antibiotics, cytotoxic drugs including all items contaminated with cytotoxic drugs along with glass or plastic ampoules, vials etc.	Yellow coloured non-chlorinated plastic bags or containers	Expired cytotoxic drugs and items contaminated with cytotoxic drugs to be returned back to the manufacturer or supplier for incineration at temperature $>1200^{\circ}\text{C}$ or to common bio-medical waste treatment facility or hazardous waste treatment, storage and disposal facility for incineration at $>1200^{\circ}\text{C}$ Or Encapsulation or Plasma Pyrolysis at $>1200^{\circ}\text{C}$ All other discarded
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			medicines shall be either sent back to manufacturer or disposed by incineration.
	Chemical Waste: Chemicals used in production of biological and used or discarded disinfectants.	Yellow coloured containers or non-chlorinated plastic bags	Disposed of by incineration or Plasma Pyrolysis or Encapsulation in hazardous waste treatment, storage and disposal facility.
	Chemical Liquid Waste : Liquid waste generated due to use of chemicals in production of biological and used or discarded disinfectants, Silver X - ray film developing liquid, discarded Formalin, infected secretions, aspirated body fluids, liquid from laboratories and floor washings, cleaning, house - keeping and disinfecting activities etc.	Separate collection system leading to effluent treatment system	After resource recovery, the chemical liquid waste shall be pre - treated before mixing with other wastewater. The combined discharge shall conform to the discharge norms given in Schedule - III.
	Discarded linen, mattresses, beddings contaminated with blood or body fluid.	Non- chlorinated yellow plastic bags or suitable packing material	Non - chlorinated chemical disinfection followed by incineration or Plasma Pyrolysis or for energy recovery. In absence of above facilities, shredding or mutilation or combination of sterilization and shredding. Treated waste to be sent for energy recovery or incineration or Plasma Pyrolysis.
	Microbiology, Biotechnology and other clinical laboratory waste: Blood bags, Laboratory cultures, stocks or specimens of micro - organisms, live or attenuated vaccines, human and animal cell cultures used in research, industrial laboratories, production of biological, residual toxins, dishes and	Autoclave safe plastic bags or containers	Pre - treat to sterilize with non - chlorinated chemicals on - site as per National AIDS Control Organisation or World Health Organisation guidelines thereafter for Incineration.

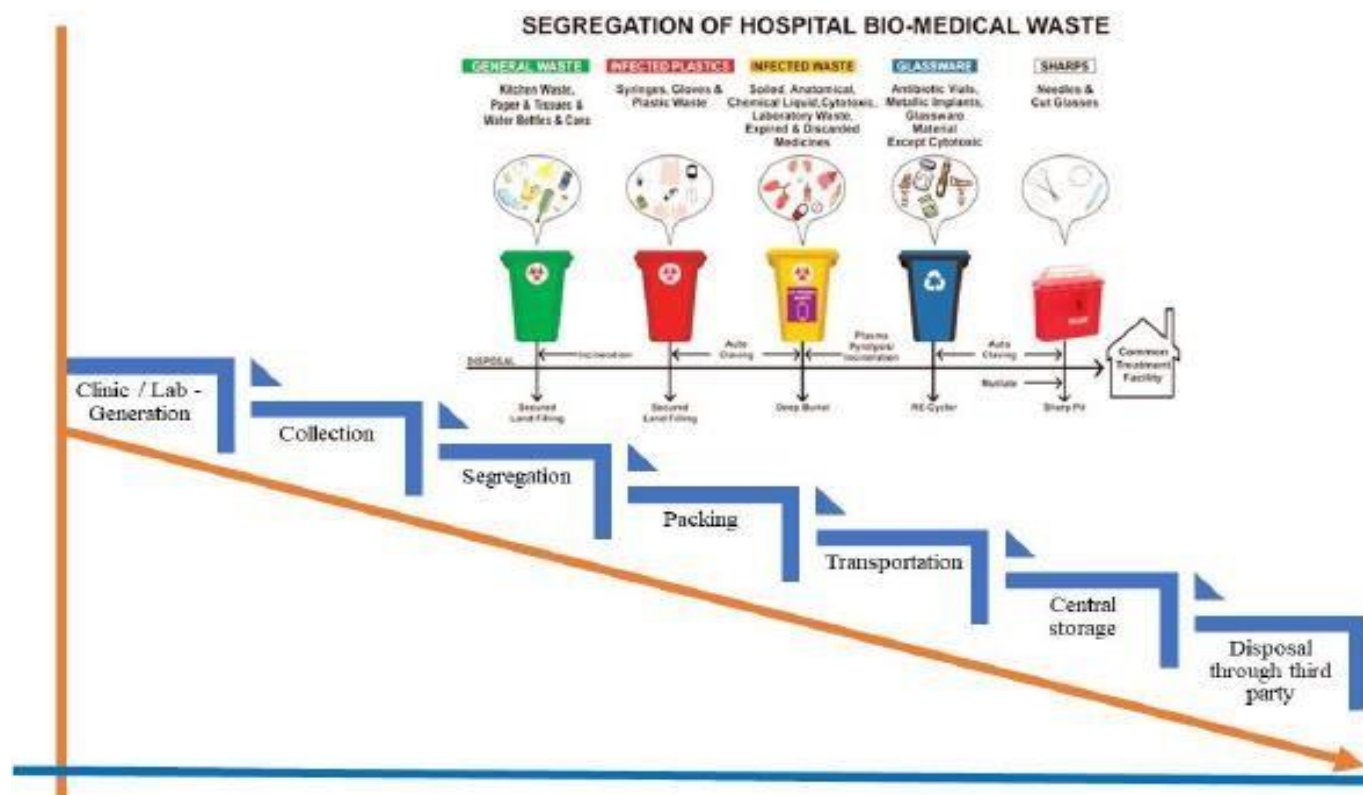
	devices used for cultures.		
Red	Contaminated Waste (Recyclable) Wastes generated from disposable items such as tubing, bottles, intravenous tubes and sets, catheters, urine bags, syringes (without needles and fixed needle syringes) and vaccutainers with their needles cut) and gloves.	Red coloured non-chlorinated plastic bags or containers	Autoclaving or micro - waving/ hydroclaving followed by shredding or mutilation or combination of sterilization and shredding. Treated waste to be sent to registered or authorized recyclers or for energy recovery or plastics to diesel or fuel oil or for road making, whichever is possible. Plastic waste should not be sent to landfill sites.
White (Translucent)	Waste sharps including Metals: Needles, syringes with fixed needles, needles from needle tip cutter or burner, scalpels, blades, or any other contaminated sharp object that may cause puncture and cuts. This includes both used, discarded and contaminated metal sharps	Puncture proof, Leak proof, tamper proof containers	Autoclaving or Dry Heat Sterilization followed by shredding or mutilation or encapsulation in metal container or cement concrete; combination of shredding cum autoclaving; and sent for final disposal to iron foundries (having consent to operate from the State Pollution Control Board s or Pollution Control Committee s) or sanitary landfill or designated concrete waste sharp pit.
Blue	Glassware: Broken or discarded and contaminated glass including medicine vials and ampoules except those contaminated with cytotoxic wastes Metallic Body Implants	Cardboard boxes with blue colored marking	Disinfection (by soaking the washed glass waste after cleaning with detergent and Sodium Hypochlorite treatment) or through autoclaving or microwaving or hydroclaving and then sent for recycling.

BIOMEDICAL WASTE SEGREGATION

Biomedical waste generated from the hospital and laboratories are segregated at the point of generation as per the colour coding stipulated under Schedule I of BMWM Rules, 2016.

- Personnel Protective Equipment are provided to the bio-medical waste handling staff.
- Waste are segregated at the point of generation of source and not in later stages. “Point of Generation” means the location where wastes initially generate, accumulate and is under the control of doctor / nursing staff / lab etc. who is providing treatment to the patient / animals and in the process generating bio-medical waste.
- Posters / placards for bio-medical waste segregation are installed at the point of generation.
- Adequate numbers of colour coded bins / containers or bags are available at the point of generation of bio-medical waste.

Figure 1: Steps in Segregation of Hospital Biomedical Waste



BIO MEDICAL WASTE COLLECTION

Time of Collection

- Bio-medical waste should be collected on daily basis from each ward of the hospital / lab at a fixed time. There can be multiple collections during the day. All the biomedical waste should be collected, segregated, packed and sent to central biomedical waste storage every evening before 4.30 pm
- Clinics and labs should ensure collection, transportation, and disposal of bio-medical waste within 48 hours.
- Bio-medical waste bags and sharps containers should be filled to no more than three quarters full. Once this level is reached, the bags are tied or sealed with plastic tags.
- Replacement bags or containers are available at each waste-collection location so that full ones can immediately be replaced.
- All the bags and containers to be transported to CBWTF are labeled with following details:
 - Date of Generation
 - Type of waste category
 - Department name
 - Contact Person Name and Phone Number

Interim Storage

Interim storage of biomedical waste is discouraged in the clinics / labs

- If waste is needed to be stored on interim basis in the departments it is stored in the dirty utility/sections.
- In absence of dirty utilities/ sections such BMW must be stored in designated place away
- No waste is in patient care area / working area and procedure areas

General waste should not be collected at the same time or in the same trolley in which bio-medical waste is collected.

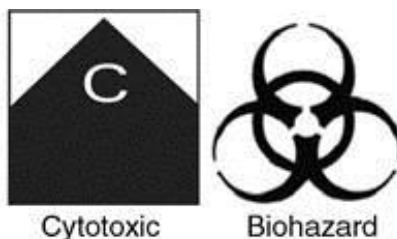
Labeling



All the bags/ containers/ bins used for collection and storage of bio-medical waste, are labelled with the warning Symbol of Bio Hazard or Cytotoxic Hazard as the case may be as per the type of waste in accordance with the BMWM Rules, 2016.

The bins and bags should carry the biohazard symbol.

In-house Transportation of Biomedical waste



Transportation Trolleys & Carts

In-house transportation of biomedical waste from site of waste generation/ interim storage to central waste collection, with in the premises is done in closed trolleys/containers fitted with wheels for easy maneuverability. Such trolleys or carts are dedicated only for the purpose of biomedical waste transportation.

Route of transportation is planned in such a way that:

- Transportation does not occur through traffic and high-risk areas
- Supplies and waste are transported through separate routes
- Central waste collection area is accessed easily through the route adopted
- Central waste collection area – for temporary storage
- A central collection center situated within its premises for storage of bio-medical waste, till the waste is transported for treatment and disposal to CBMWTF. Center storage is manned and is under lock and key under the responsibility of a designated person. Central collection area has proper ventilation through the use of exhaust fan, hand wash area, weighing balance etc.
- Location of central waste collection facility is away from the public/visitors' access.
- The space allocated for collection is sufficient for the quantity of waste generated from premises
- Space is sufficient to store at least two days generation of waste
- Center has a concrete ramp for easy transportation of waste collection trolleys
- Flooring is of tiles with slope so as to easy the cleaning of the area
- Center has good ventilation through the use of exhaust fan and by use of wire meshes window
- Central storage station ensured for fire hazard like installation of fire extinguisher, smoke detector etc.
- Water supply is provided for cleaning and washing of this station containers. The drainage from the storage and washing area is routed to the effluent treatment plant (ETP).
- Sign boards indicating relevant details such as contact person and the telephone number is provided.
- It is ensured that no general waste is stored in the central waste collection area.
- Healthcare facilities need to maintain the record of waste generated and handed over to the authorized recycles.
- Centre is protected from stray animals in the academia and has installed cattle traps at main gate
- Pest control program is in place

Colour codes for Biomedical waste collection and Packing:

	• Human and animal anatomical wastes • Soiled wastes, • Discarded or expired medicines • Chemical wastes, • Blood and body fluids • Microbiology / Biotechnology wastes
	• Contaminated waste (recyclable)
	• Sharps including metals • Needles • Scalpels • Blades
	• Broken and contaminated glass including vials and ampoules • Metallic body implants
	• Food items • Papers / paper plates, • Water bottles, etc

4.E-WASTE MANAGEMENT:

In Mody University of Science and Technology, E-waste handled by proper procedure of buy back arrangements with different vendors . Many times student use e-waste parts for PBL (Project Base Learning). Students are encouraged to dispose of any unwanted electronics with help of IT/CS/Electronic department. E-waste collected at the site is transferred for wiping or recycling to the local vendors on monthly/yearly basis.

Examples of electronic waste:

- ☐ TVs, computer monitors, printers, scanners, keyboards, mice, cables etc.
- ☐ Laboratory equipment
- ☐ Broken computer monitors, TFT
- ☐ Network Cables, Switches and other peripheral.

CREDIT NOTE

(ORIGINAL FOR RECIPIENT)

EURO POWER TECH SYSTEM - JPR 2017-21 PLOT NO. 33, DEVI NAGAR, OPP. METRO PILLAR NO. -74, NEW SANGANER ROAD, JAIPUR -302019 (RAJ.) Email Id - Supportjpr@europowertech.Net Mobile +91-7073465948 GSTIN/UIN: 08AAGFE1721J1ZL State Name : Rajasthan, Code : 08 E-Mail : adminjpr@europowertech.net Party : MODI UNIVERSITY - LAKSHMANGARH LAKSHMANGARH. DISTT:- SIKAR RAJASTHAN-332311 CONTACT PERSON:- MR. MURLI LAL CONTACT NO:- +91-9929024177 State Name : Rajasthan, Code : 08		Credit Note No. EPTS/CN/487 e-Way Bill No. 23-Mar-2021 Mode/Terms of Payment Buyer's Ref. JPR/B2C/2021/244 dt. 23-Mar-2021 Other Reference(s) Buyer's Order No. MUST/CO/2020-21/501 Dated 23-Mar-2021 Despatch Document No. Despatched through Destination Terms of Delivery
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Sl No.	Description of Goods	HSN/SAC	Quantity	Rate	per	Amount
1	SCRAP BATTERY 12V-65AH	85481000	80 NOS	1,700.00	NOS	1,36,000.00
	OUTPUT CGST					12,240.00
	OUTPUT SGST					12,240.00
Total			80 NOS			₹ 1,60,480.00

Amount Chargeable (in words) **INR One Lakh Sixty Thousand Four Hundred Eighty Only** E. & O.E

HSN/SAC	Taxable Value	Central Tax		State Tax		Total
		Rate	Amount	Rate	Amount	
85481000	1,36,000.00	9%	12,240.00	9%	12,240.00	24,480.00
Total	1,36,000.00		12,240.00		12,240.00	24,480.00

Tax Amount (in words) : **INR Twenty Four Thousand Four Hundred Eighty Only**

Company's PAN : **AAGFE1721J**

for EURO POWER TECH SYSTEM - JPR 2017-21

This is a Computer Generated Document



SITE CUM ELECTRICAL TEST REPORT

AQUA Name & Address: E.P.T.S JAIPUR **Call Center Ref No:** **Call Received Date:**

Type of Service: Breakdown ☐ Installation & commissioning ☐ Preventive service call ☐

Customer Name: MODY UNIVERSITY **Battery Bank Rating/No. of Sets:** 12V 65AH • 40 NOS

End User Details: **Battery Model/Battery Qty:** 12V 65AH • 40 NOS

Site Name & Address: LAKSHMANGARH SIKAR **BB MFD Date:** 26/3/2021 **BB I&C Date:** 10/06/2021

Contact Person Name & Mobile No: **Site Location:** Local ☐ Non-Local ☒

Related to Charging system **Check Points:** **Related to Battery**

UPS/Charger
Make: E.T.N
Rating: 60 KVA
Auto Float/Boost: 54.5 VDC
End Application: Computer
I & C Date:
Make:
Rating:
Autonomy:
Maximum Generation:
End Application:
I & C Date:
1. Terminal tightness: Loose ☐ Intact ☒
2. Battery Physical condition: Good ☒ Damaged ☐
3. Float/Boost Voltage: 54.5 VDC
4. Ripple Voltage: 0.8 mV
5. Load on Battery: 4.8 AMP
6. Designed Backup time: 2.4 Hrs
7. UV and OV Limits:
8. Battery Bank Current Limit: 6.7 AMP
9. Battery Room Temperature: AC ☒ Non AC ☐
10. Power Failure/Day: 1/29 Hrs
11. DG Available Yes ☒ No ☐
12. DG Run Hrs
13. Cables used Quality: Acceptable ☒ Not Acceptable ☐
14. Cable drop B/W UPS and Battery: 0.1 Amp/vols

Solar Panel
Make:
Rating:
Autonomy:
Maximum Generation:
End Application:
I & C Date:
1. Terminal tightness: Loose ☐ Intact ☒
2. Battery Physical condition: Good ☒ Damaged ☐
3. Float/Boost Voltage: 54.5 VDC
4. Ripple Voltage: 0.8 mV
5. Load on Battery: 4.8 AMP
6. Designed Backup time: 2.4 Hrs
7. UV and OV Limits:
8. Battery Bank Current Limit: 6.7 AMP
9. Battery Room Temperature: AC ☒ Non AC ☐
10. Power Failure/Day: 1/29 Hrs
11. DG Available Yes ☒ No ☐
12. DG Run Hrs
13. Cables used Quality: Acceptable ☒ Not Acceptable ☐
14. Cable drop B/W UPS and Battery: 0.1 Amp/vols

1. Before conducting the discharge test (or test with Data Mtr) ensure that the battery(ies) are charged for at least 16 to 18 hours in Float/Boost without interruption
2. Record all voltage readings in 'Volts' and current in 'Amperes'
3. Mention the duration of taking the discharge voltage readings in 'Minutes'

Sl. No.	Batt. Sl.	On-Charge V	Min Discharge	Remarks	Sl. No.	Batt. Sl.	On-Charge V	Min Discharge	Remarks
1		13.51			22		12.60		
2		13.50			23		12.62		
3		13.52			24		12.58		
4		13.55			25		12.52		
5		13.51			26		12.56		
6		13.46			27		12.57		
7		13.53			28		12.55		
8		13.50			29		12.53		
9		13.26			30		12.52		
10		13.29			31		12.50		
11		13.50			32		12.42		
12		13.50			33		12.55		
13		13.40			34		12.50		
14		13.45			35		13.60		
15		13.50			36		13.62		
16		13.52			37		12.57		
17		13.55			38		12.55		
18		13.60			39		13.57		
19		13.57			40		13.61		
20		13.58			41				
21		13.55			42				

Bank Voltage (V): **Total Current (A):** 54.540

Service Engineers Verdict on technical Diagnostics and testings: I have installed new Battery BANK make by Oceans 12V/65AH.40 NOS now UPS working OK at main & Battery with load.

Compare the individual module voltage with the average module voltage ± 0.3 Volt is the acceptable band for individual module voltage. voltages outside this band can be rejected.

NEEL Engineer's Remarks/Suggestions:

Signature: **Name & designation:** **Verified by KSI & Signature:** **Customer Signature with office seal & date:**

SITE CUM ELECTRICAL TEST REPORT

Page No. : 1 of 1
Page Rev : 0
Date : / /

Aqua Name & Address: E.P.T.S. Talpaul Call Center Ref No: _____ Call Received Date: _____

Type of Service: Breakdown ☐ Installation & commissioning ☐ Preventive service call ☐

Customer Name: Mody University (mv) Battery Bank Rating/No. of Sets: 480 Vdc - 1 set

End User Details: _____ Battery Model/Battery Qty: 12 V AC 65 - 40 Nos

Site Name & Address: Lakshmangarh - SIKAR BB MFD Date: MOQ06501V BB ISC Date: 26-03-2021

Contact Person, Name & Mobile No: _____ Site Location: Local ☐ Non-Local ☒

Related to Charging system		Check Points		Related to Battery	
UPS/Charger	Make: <u>Calson</u> Rating: <u>80 KVA</u> Auto Float/Boost: <u>545 Vdc</u> End Application: <u>PS</u> I & C Date: _____	1. Terminal tightness: _____ 2. Battery Physical condition: _____ 3. Float/Boost Voltage: <u>545 Vdc</u> 4. Ripple Voltage: <u>0.8</u> 5. Load on Battery: <u>4.6 Amp</u> 6. Designed Backup time: <u>3 Hrs</u> 7. UV and OV Limits: <u>10-50/14.5</u> 8. Battery Bank Current Limit: <u>8.5</u> 9. Battery Room Temperature: _____ 10. Power Failure/Day: <u>1-2 times</u> 11. DG Available: Yes ☒ No ☐ 12. DG Run: _____ 13. Cables used Quality: _____ 14. Cable drop B/W UPS and Battery: <u>0.1</u> Volts	Loose ☐ Intact ☒ Good ☒ Damaged ☐ AC ☒ Non AC ☐ Duration of power failure: <u>2 Hrs</u> Acceptable ☒ Not Acceptable ☐		
Solar Panel	Make: _____ Rating: _____ Autonomy: _____ Maximum Generation: _____ End Application: _____ I & C Date: _____				

1. Before conducting the discharge test (or test with Data Min) ensure that the battery(bank) are charged for at least 16 to 18 hours in Float/Boost without interruption.
2. Record all voltage readings in Volts and current in Amperes.
3. Mention the duration of taking the discharge voltage readings in Minutes.

Sl. No.	Batt Sl.	On-Charge V	Min Discharge	Remarks
1		13.51		
2		13.46		
3		13.57		
4		13.51		
5		13.45		
6		13.52		
7		13.65		
8		13.55		
9		13.42		
10		13.43		
11		13.68		
12		13.52		
13		13.51		
14		13.58		
15		13.62		
16		13.43		
17		13.52		
18		13.46		
19		13.55		
20		13.68		
21		13.45		

Sl. No.	Batt Sl.	On-Charge V	Min Discharge	Remarks
22		13.51		
23		13.46		
24		13.57		
25		13.51		
26		13.45		
27		13.52		
28		13.65		
29		13.55		
30		13.42		
31		13.43		
32		13.68		
33		13.52		
34		13.51		
35		13.58		
36		13.62		
37		13.43		
38		13.52		
39		13.46		
40		13.55		
41		13.68		
42		13.45		

Bank Voltage (V) _____ Total Current (A) _____

Service Engineer's Verdict on technical Diagnostics and testing: I have installed New Battery Bank make by QUANTA 12 V AC 65 - 40 Nos. Now ups working OK means and Battery with load.

Signature: [Signature] Date: 26/03/21

Verified By: [Signature] Date: _____

Customer Signature with office seal & date: _____

Acknowledgement

Date: - March 26, 2021

Please allow to go outside the campus of Mody University, Lakshmangarh (Sikar) to

Mr. Mahipal Singh (Euro Power Touch System, Jaipur) along with **80 old batteries** as buy back.

S. No.	Name of Item	Device S/N.	Unit
1.	Old Battery(U-Plus)	N/A	80

Mahipal Singh
(Euro Power Touch System, Jaipur)
8740805294



TAX INVOICE

(ORIGINAL FOR RECIPIENT)

EURO POWER TECH SYSTEM - JPR 2017-21 PLOT NO. 33, DEVI NAGAR, OPP. METRO PILLAR NO. -74, NEW SANGANER ROAD, JAIPUR -302019 (RAJ.) Email Id - Supportjpr@europowertech.Net Mobile +91-7073465948 GSTIN/UIN: 08AAGFE1721J1ZL State Name : Rajasthan, Code : 08 E-Mail : adminjpr@europowertech.net		Invoice No. e-Way Bill No. Dated JPR/B2C/2021/244 23-Mar-2021 Delivery Note Mode/Terms of Payment 69/3418 AGAINST DELIVERY Supplier's Ref. Other Reference(s) MR. VIPIN YADAV	
Consignee MODI UNIVERSITY - LAKSHMANGARH LAKSHMANGARH. DISTT:- SIKAR RAJASTHAN-332311 CONTACT PERSON:- MR. MURLI LAL CONTACT NO:- +91-9929024177 State Name : Rajasthan, Code : 08		Buyer's Order No. Dated MUST/CO/2020-21/501 23-Mar-2021 Despatch Document No. Delivery Note Date 23-Mar-2021 Despatched through Destination Direct LAXMANGARH Terms of Delivery	
Buyer (if other than consignee) MODI UNIVERSITY - LAKSHMANGARH LAKSHMANGARH. DISTT:- SIKAR RAJASTHAN-332311 CONTACT PERSON:- MR. MURLI LAL CONTACT NO:- +91-9929024177 State Name : Rajasthan, Code : 08			

Sl. No.	Description of Goods	HSN/SAC	Quantity	Rate	per	Amount
1	AMARON QUANTA 12V16S AH SMF BATTERY (Page No. 8) BATCH CODE:- MOQ06504V, 01V 49U, 03V	85072000	80 NOS	4,050.00	NOS	3,24,000.00
	OUTPUT CGST					45,360.00
	OUTPUT SGST					45,360.00
	Total		80 NOS			₹ 4,14,720.00

Amount Chargeable (in words) **INR Four Lakh Fourteen Thousand Seven Hundred Twenty Only** E. & O.E

HSN/SAC	Taxable Value	Central Tax		State Tax		Total Tax Amount
		Rate	Amount	Rate	Amount	
85072000	3,24,000.00	14%	45,360.00	14%	45,360.00	90,720.00
Total	3,24,000.00		45,360.00		45,360.00	90,720.00

Tax Amount (in words) : **INR Ninety Thousand Seven Hundred Twenty Only**

Company's PAN : **AAGFE1721J**

Declaration
 1. The Govt. of India has notified that, "It shall be the responsibility of a dealer to ensure that used batteries of the same size are collected back and safely transported to the collection points or recyclers registered with ministry of environment and forests". 2. We declare that this invoice shows the actual price of the goods described and that all particulars are true and correct. 3. If Payment is not received with-in 15 Days interest will be charged @ 24% p.a. from the date of billing....

Company's Bank Details
 Bank Name : **STATE BANK OF INDIA**
 A/c No. : **37369631911**
 Branch & IFS Code : **C-SCHEME-JPR & SBIN0031361**
 for EURO POWER TECH SYSTEM - JPR 2017-21

This is a Computer Generated Invoice





EURO POWER TECH SYSTEM

To, Mody university

Laxman garu

DISH - SIKAZ

DATE : 23-03-2021

INVOICE NO. :

BILLING ADVICE NO. :

LR/RR/DOC. NO. :

VEHICLE NO. :

Book No. 69

No. 3418

[illegible]

RECEIVED THE ABOVE BATTERIES WITH WARRANTY CARDS
IN GOOD CONDITIONS AND ACKNOWLEDGE SAME

SIGNATURE _____

E.&O.E.

RECEIVER'S NAME : _____

CONTACT No. : _____

For **EURO POWER TECH SYSTEM**



(AUTHORISED SIGNATORY)

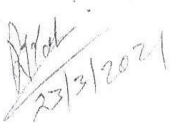
Mody University — Lakshmangarh

Date-23/03/2021

M0806504V, 01V, 43U, 03V

① 109438	④ 113021	④① 100658	④① 100796
② 100786	⑤ 113172	④② 113035	④② 100734
③ 100733	⑥ 110322	④③ 113178	④③ 100737
④ 100798	⑦ 109436	④④ 109437	④④ 100787
⑤ 113027	⑧ 113195	④⑤ 109439	④⑤ 100799
⑥ 110317	⑨ 110316	④⑥ 113020	④⑥ 100735
⑦ 110332	⑩ 109432	④⑦ 100794	④⑦ 100785
⑧ 110333	⑪ 113194	④⑧ 100790	④⑧ 100781
⑨ 100797	⑫ 110324	④⑨ 100795	④⑨ 100789
⑩ 100731	⑬ 113193	⑤① 100739	⑤① 100738
⑪ 100788	⑭ 110350	⑤② 100784	⑤② 100740
⑫ 100736	⑮ 109434	⑤③ 100792	⑤③ 100800
⑬ 110328	⑯ 110315	⑤④ 100782	⑤④ 100732
⑭ 113031	⑰ 113163	⑤⑤ 100793	⑤⑤ 100804
⑮ 100657	⑱ 110251	⑤⑥ 113024	⑤⑥ 100815
⑯ 113183	⑲ 110319	⑤⑦ 100656	⑤⑦ 100809
⑰ 110330	⑳ 113034	⑤⑧ 109431	⑤⑧ 100802
⑱ 113203	㉑ 113013	⑤⑨ 113011	⑤⑨ 100814
⑲ 113148	㉒ 110331	⑤⑩ 113172	⑤⑩ 100816
㉑ 110318	㉓ 100660	⑥① 113185	⑥① 109415

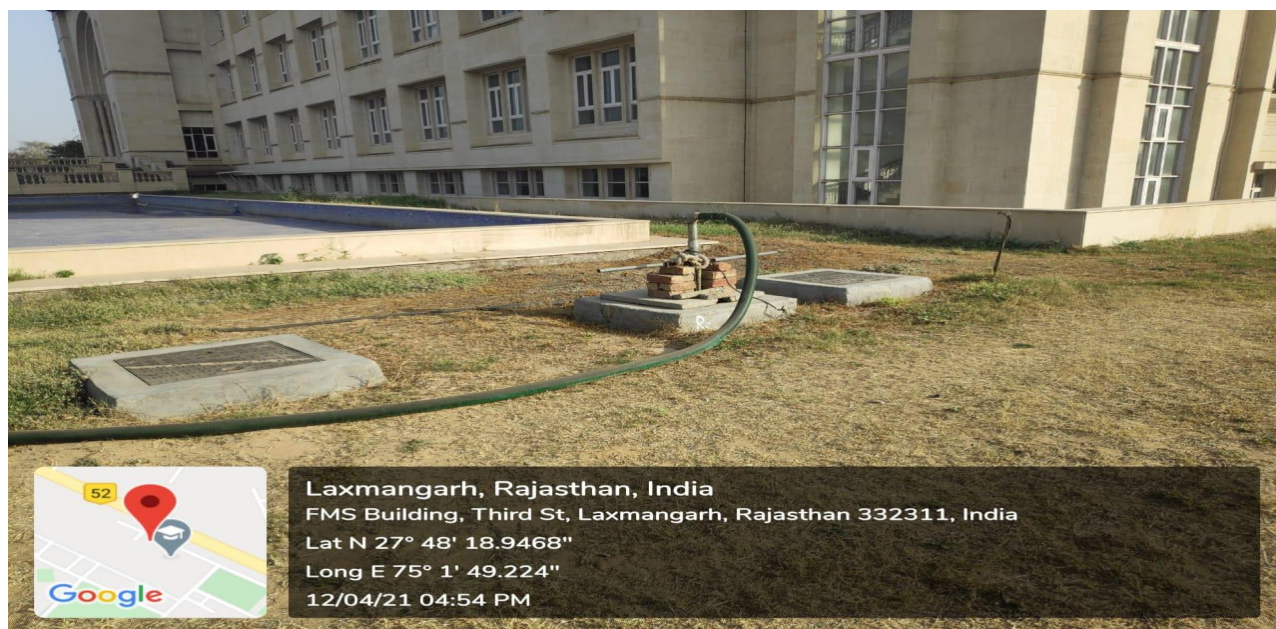


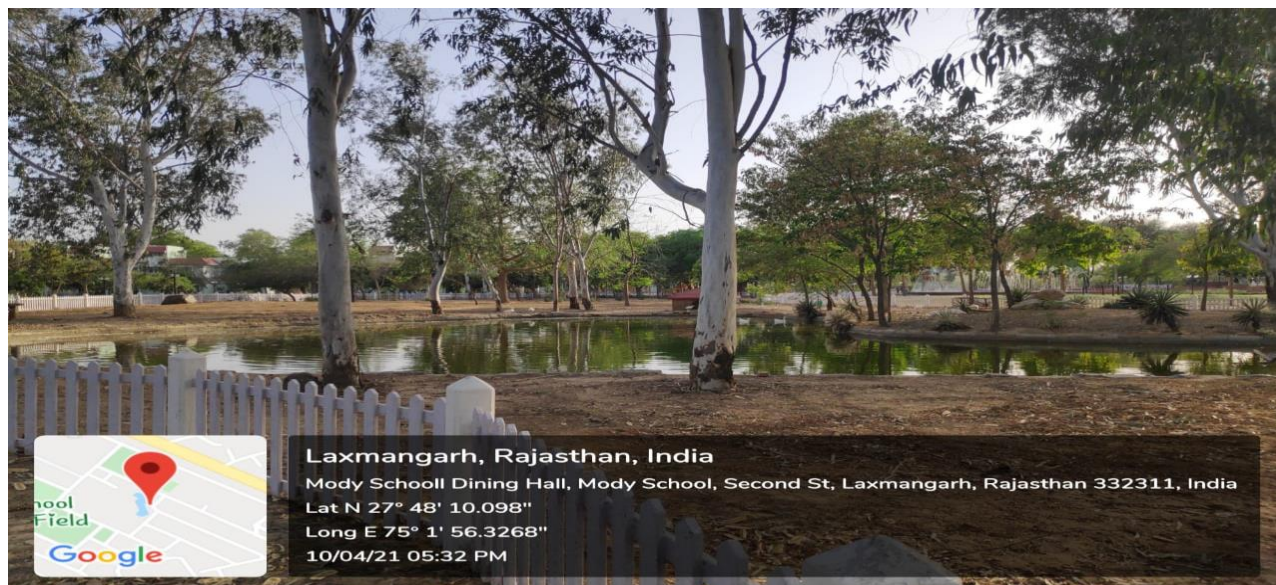
 MODY UNIVERSITY OF SCIENCE AND TECHNOLOGY LAKSHMANGARH - RAJASTHAN A Leading Women's University		MODY UNIVERSITY OF SCIENCE & TECHNOLOGY (CO) Lakshmangarh (Sikar) Rajasthan - 332 311, India Ph. No. : (01573) 225001-12 (Ext.-1901) Dir. Line. 225001 • E-mail: gmp@modyuniversity.ac.in • Website: www.modyuniversity.ac.in		
PURCHASE ORDER				
M/s Euro Power Tech System Address :- Jaipur Contact - 7073335194		Purchase Order No. MUST/CO/2020-21/ 501 Purchase Order Date :- 23/03/2021 Internal CP No. :- 2090 <i>ch. No. 63/3418</i>		
Dear Sir/Ma'am, 1. Please supply the undernoted goods subject to the terms & conditions printed here. Goods / material will not be accepted after 6:00pm. 2. Purchase Order No must be mentioned in Invoice / Challan. Payment will be held-up in absence of such reference. 3. After supply of material, original Invoice / Bill should be sent directly to GM Finance, Mody University, Lakshmangarh, Distt- Sikar, Rajasthan - 332311, Ph. No. : 9116177977				
S.No.	Particulars	Qty (Nos)	Price	Amount (Rs)
1	Battery SMF 12 V/ 65AH	80	4050	324000
	GST @28%			90720
	Sub. Total			414720
2	Buy Back (Old Battery)	80	1700	136000
	GST @18%			24480
	Sub. Total			160480
	Amount after Less Old Batteries			254240
Terms & Conditions :- 1.) Freight, Installation, Loading & Unloading is inclusive in above prices.			Sub Total	2,54,240
			Total Amount	2,54,240
 23/3/2021			Yours Faithfully for Mody University   GM - Purchase Saibal Sengupta	
MUST GST NO.- 08AAAJM1982F1Z4			MUST PAN No.- AAJMJ1982F	
MODY UNIVERSITY SUGGESTS TO AVOID USE OF PLASTIC IN PACKAGING TO MAKE THE ENVIRONMENT PLASTIC FREE. THE UNIVERSITY RESERVES THE RIGHT NOT TO ACCEPT THE GOODS IN ANY FORM OF PLASTIC PACKAGING.				

5. WASTE MANAGEMENT: WATER RECYCLING

Waste water management has been critical towards our sustainability models for reducing and reusing water at our campuses. The students & staff use water for showering, dishwashing, laundry and flushing the toilet. Additionally, departments use water for many purposes including processes, laboratory uses, and cleaning or rinsing of parts, air conditioning. After the water has been used, it enters the wastewater stream, and it flows to the wastewater treatment plant.

Mody University of Science and Technology has has a functional Sewage Treatment Plant (STP) of 11 Lacs Litre Per Day treating capacity. The plant is based on Moving Bed Biofilm Reactor (MBBR) waste water treatment process.





6. HAZARDOUS CHEMICAL AND RADIOACTIVE WASTE:

HAZARDOUS CHEMICALS AND RADIOACTIVE WASTE MANAGEMENT

The Chemistry and other laboratories of Mody University of Science and Technology of Science and Technology do not generate hazardous waste in huge amount and can be classified as conditionally producing very small quantity of hazardous chemical (generates less than 100 grams of hazardous waste per month). Hazardous chemical or biochemical including contagious disease pathogen, patient blood, and radioactive substances are not used in the university campus. Ideally, collection, transportation and proper handling of chemicals begin with understanding the potential hazards related to their use. All stakeholders, especially from Academic departments and laboratories are responsible for disseminating information on hazardous materials being used in the facility. As the amount of hazardous waste is nil or very negligible amount, there is not facility developed to transport and dump it in proper place. Hazardous wastes are disposed of properly in a pit, specially made for this purpose. For most such wastes, land disposal is the ultimate destination, and it includes land disposal i.e. landfilling or underground injection. Prior to land disposal, surface storage or containment systems are often employed as a temporary method.

