ANDHRA PRADESH POLLUTION CONTROL BOARD
D.No.33-26-14D/2, Near Sunrise Hospital, Pushpa Hotel Centre,
Chalamavari Street, Kasturibaipet, Vijayawada – 520 008
Phone. No.0866-2436200, Website : www.pcb.ap.gov.in

RENEWAL OF CONSENT, HWA & BMW AUTHORISATION ORDER

Consent Order No: APPCB/VJA/NLR/NMC&H/HO/CFO/2017 28/11/2022

CONSENT is hereby granted to operate under section 25/26 of the Water (Prevention & Control of Pollution) Act, 1974 and under section 21/22 of Air (Prevention & Control of Pollution) Act 1981 and amendments thereof and Authorization under Rule 6 of the Hazardous & Other Wastes (Management & Transboundary, Movement) Rules, 2016 and the rules and orders made there under and Authorisation under Rule 10 of the Bio-Medical Waste Management Rules, 2016 (hereinafter referred to as 'the Acts', 'the Rules') to:

M/s. Narayana Medical College & Hospital,
Chintha[illegible]areddypalem (V), Nellore,
SPSR Nellore District.

(Hereinafter referred to as 'the Applicant') authorizing to operate the Health Care Facility (HCF) to discharge the effluents from the outlets and the quantity of emissions per hour from the chimneys as detailed below:

i. Outlets for discharge of effluents:

Outlet No.	Outlet Description	Max Daily Discharge	Point of Disposal
1.	Domestic/Washings (waste generated from laboratory, washing, cleaning, housekeeping, disinfecting activities etc)	550.0 KLD	Shall be treated in ETP and the treated waste water shall be used for toilet flushing, for on land for irrigation for paddy and greenbelt development.

ii. Emissions from chimneys:

Chimney No.	Description of Chimney	Quantity of Emissions at peak flow (m^3/hr)
1.	Attached to 1 x 750 kVA, 2 x 500 kVA & 1 x 250 kVA DG Sets	--

iii. HAZARDOUS WASTE AUTHORISATION (FORM – II) [See Rule 6 (2)]:
M/s. Narayana Medical College & Hospital, Chintha[illegible]areddypalem (V), Nellore, SPSR Nellore District is hereby granted an authorization to operate a facility for collection, reception, storage, treatment, transport and disposal of Hazardous Wastes namely:

- **HAZARDOUS WASTES WITH RECYCLING OPTION:**

Sl. No	Name of Hazardous Waste	Stream	Quantity	Method of disposal

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1.	Waste lubricating oil	5.1 of Schedule – I	200 LPA	Shall be routed through M/s. APEMC to APPCB authorized re-processors /recyclers (as recyclable waste)

BMWM AUTHORISATION

(Rule 10 of the Bio-Medical Waste Management Rules, 2016)

This authorization is for generation, segregation and safe-disposal of Bio-Medical Waste which is issued to M/s. Narayana Medical College & Hospital, Chinthareddypalem (V), Nellore, SPSR Nellore District subject to the terms and conditions. This authorization is valid for 1560 beds of the HCF with the following Bio Medical Waste generation:

Type of Waste category	Quantity
Yellow	153.0 Kg/day
Red	58.0 Kg/day
White (Translucent)	7.0 Kg/day
Blue	4.0 Kg/day

This order is valid for operation of Health care facility (HCF) by M/s. Narayana Medical College & Hospital, Chinthareddypalem, Nellore, SPSR Nellore District with capacity of 1560 beds only.

This order is subject to the provisions of 'the Acts' and 'the Rules' and Orders made there under and further subject to the terms and conditions incorporated in the schedule A, B, C & D enclosed to this order.

This combined order of Consent & Hazardous Waste Authorization & Bio Medical Waste Authorization shall be valid for a period ending with the **31.08.2027** for a capacity of 1560 beds.

VIJAY KUMAR GSRKR IAS, MEMBER SECY(GSRKRVK), O/o MEMBER SECRETARY-APPCB

To
M/s. Narayana Medical College & Hospital,
Chinthareddypalem (V), Nellore,
SPSR Nellore District.

Copy to:

1. The Joint Chief Environmental Engineer, Zonal Office, **Vijayawada** for information and necessary action.
2. The Environmental Engineer, Regional Office, **Nellore** for information and necessary action.

SCHEDULE-A

1. Any up-set condition in any industrial plant / activity of the HCF, which result in, increased effluent / emission discharge and/ or violation of standards stipulated in this order shall be informed to this Board, under intimation to the Collector and District Magistrate and take immediate action to bring down the discharge / emission below the limits.

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2. The hospital should carryout analysis of waste water discharges for the parameters mentioned in this order on quarterly basis and submit to the Board.
3. All the rules & regulations notified by Ministry of Law and Justice, Government of India regarding Public Liability Insurance Act, 1991 should be followed as applicable.
4. The facility should put up two sign boards (6ft. x 4 ft. each) at publicly visible places at the main gate indicating the products, effluent discharge standards, air emission standards, hazardous waste quantities and validity of CFO and exhibit the CFO order at a prominent place in the HCF's premises.
5. Notwithstanding anything contained in this consent order, the Board hereby reserves the right and powers to review / revoke any and/or all the conditions imposed herein above and to make such variations as deemed fit for the purpose of the Acts by the Board.
6. The applicant shall submit Environment statement in Form V before 30th September every year as per Rule No.14 of E(P) Rules, 1986 & amendments thereof.
7. The applicant should make applications through Online for renewal of Consent (under Water and Air Acts) and Authorization under HWM Rules and BMWM Authorisation at least 120 days before the date of expiry of this order, along with prescribed fee under Water and Air Acts and for BMWM authorization and detailed compliance of this combined order conditions for obtaining Consent, HW Authorization and BMWM Authorisation of the Board. The HCF should immediately submit the revised application for consent to this Board in the event of any change in the raw material used, processes employed, quantity of trade effluents & quantity of emissions. Any change in the management shall be informed to the Board. The person authorized should not let out the premises / lend / sell / transfer their HCF premises without obtaining prior permission of the State Pollution Control Board.
8. Any person aggrieved by an order made by the State Board under Section 25, Section 26, Section 27 of Water Act, 1974 or Section 21 of Air Act, 1981 may within thirty days from the date on which the order is communicated to him, prefer an appeal as per Andhra Pradesh Water Rules, 1976 and Air Rules 1982, to Appellate authority constituted under Section 28 of the Water(Prevention and Control of Pollution) Act, 1974 and Section 31 of the Air(Prevention and Control of Pollution) Act, 1981.
9. Any person aggrieved by the BMWM authorization, may prefer an appeal as per Rule 16 of BMWM Rules, 2016.
10. The HCF shall be liable to pay Environmental Compensation / Other Environmental Taxes, if any environmental damage caused to the surroundings, as fixed by the Collector & District Magistrate or any other competent authority as per the Rules in vogue.
11. The HCF may explore the possibility of tapping the solar energy for their energy requirements.
12. The HCF should educate the workers and nearby public of possible accidents and remedial measures.

SCHEDULE-B

1. The HCF shall comply with the following as committed vide HCF letter dated 22.11.2022:

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a. The HCF shall upgrade/ expand STP of 900 KLD within 6 months.
b. The HCF shall provide digital flow meters for water consumption within 2 months. The HCF shall maintain records of water consumption.

WATER POLLUTION:

2. The HCF shall take steps to reduce water consumption to the extent possible and consumption shall NOT exceed the quantities mentioned below:

S.No	Purpose	Quantity
1.	Domestic and hospital services	600 KLD

Separate meters with necessary pipe-line shall be maintained for assessing the quantity of water used for each of the purposes mentioned above.

3. The effluent discharged shall not contain constituents in excess of the tolerance limits mentioned below:

Outlet	Parameter	Limiting Standards
1	pH	6.5 – 9.0
	Total Suspended Solids	100 mg/l
	Oil and Grease	10 mg/l
	BOD	30 mg/l
	COD	250 mg/l
	Bio Assay test	90% survival of fish after 96 hours in 100% effluent

AIR POLLUTION:

4. Diesel generator sets shall be installed in a closed area with silencers and suitable noise absorption systems. The ambient noise level shall not exceed 50 dB (A) during day time and 40 dB (A) during night time.
5. The industry shall ensure compliance with ambient air quality standards of PM_{10} – 100 µg/m^3; $PM_{2.5}$ - 60 µg/m^3; SO_2 - 80 µg/m^3; NOx – 80 µg/m^3, (day average standards). The industry shall comply with National Ambient Air Quality Standards stipulated in CPCB Notification No.B-29016/20/90/PCI-I, dated 18.11.2009 and also the

Noise standards: Day time (6 AM to 10 PM) - 75 dB (A)
Night time (10 PM to 6 AM) - 70 dB (A)

GENERAL:

6. The HCF shall not to dispose the used saline bottles to plastic venders.
7. The HCF shall not to mix the domestic waste with Bio-medical waste and provide separate storage room for domestic waste.
8. Storm water control and its re-use shall be as per CGWB and BIS standards for various applications.
9. The solid waste generated shall be properly collected and segregated before disposal to the city municipal facility. Waste paper, cartoons, thermo coal, plastic waste, glass etc., shall be disposed to recycling units. E-waste shall be disposed to authorized recycling units. The in-vessel bio-conversion technique shall be used for composting the organic waste. The following rules and regulations notified by the MoEF&CC, GoI shall be implemented:

a. Bio-medical Waste Management Rules, 2016 and amendments thereof;

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b. Hazardous Waste Management Rules, 2016 and amendments thereof;
c. Plastic Waste Management Rules, 2016 and amendments thereof;
d. Solid Waste Management Rules, 2016 and amendments thereof;
e. Construction & Demolition Waste Management Rules, 2016 and its amendments;
f. E-Waste Management Rules, 2016 and its amendments;
g. Guidelines for handling, treatment and disposal of waste generated during treatment/ Diagnosis/ Quarantine of COVID -19 patients issued by CPCB;
h. Guidelines for Bar Code System for Effective Management of Bio-medical Waste issued by CPCB;
i. Environmentally sound management of mercury waste generated from the health care facilities issued by CPCB;
j. Guidelines for handling of biomedical waste for utilization issued by CPCB.

10. Any other directions / circulars / notices issued by CPCB, MoEF&CC and APPCB shall be followed from time to time.
11. The HCF shall develop green belt in all the vacant places.
12. The HCF shall comply with the conditions stipulated in the EC Order dated 02.09.2016.

SCHEDULE – C

[See rule 6(2)]

[CONDITIONS OF AUTHORISATION FOR OCCUPIER OR OPERATOR HANDLING HAZARDOUS WASTES]

1. The authorised person shall comply with the provisions of the Environment (Protection) Act, 1986, and the rules made there under.
2. The authorisation shall be produced for inspection at the request of an officer authorised by the State Pollution Control Board.
3. The person authorised shall not rent, lend, sell, transfer or otherwise transport the hazardous and other wastes except what is permitted through this authorisation.
4. Any unauthorised change in personnel, equipment or working conditions as mentioned in the application by the person authorised shall constitute a breach of his authorisation.
5. The person authorised shall implement Emergency Response Procedure (ERP) for which this authorisation is being granted considering all site specific possible scenarios such as spillages, leakages, fire etc. and their possible impacts and also carry out mock drill in this regard at regular interval of time;
6. The person authorised shall comply with the provisions outlined in the Central Pollution Control Board guidelines on "Implementing Liabilities for Environmental Damages due to Handling and Disposal of Hazardous Waste and Penalty".
7. It is the duty of the authorised person to take prior permission of the State Pollution Control Board to close down the facility.
8. An application for the renewal of an authorisation shall be made as laid down under these Rules.
9. Any other conditions for compliance as per the Guidelines issued by the Ministry of Environment, Forest and Climate Change or Central Pollution Control Board from time to time.

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10. Annual return shall be filed by June 30th for the period ensuring 31st March of the year.
11. The HCF shall not store hazardous waste for more than 90 days as per the Hazardous and Other Wastes (Management & Transboundary Movement) Rules, 2016.
12. The HCF shall store Used / Waste Oil and Used Lead Acid Batteries in a secured way in their premises till its disposal to the manufacturers / dealers on buyback basis.
13. The HCF shall maintain 7 copy manifest system for transportation of waste generated and a copy shall be submitted to concern Regional Office of APPCB. The driver who transports Hazardous Waste should be well acquainted about the procedure to be followed in case of an emergency during transit. The transporter should carry a Transport Emergency (TREM) Card.
14. The HCF shall maintain proper records for Hazardous and Other Wastes stated in Authorisation in Form-3 i.e., quantity of Incinerable waste, land disposal waste, recyclable waste etc., and file annual returns in Form-4 as per Rule 20 (2) of the Hazardous and Other Wastes (Management & Transboundary Movement) Rules, 2016.

SCHEDULE – D

[See rule 10]

[CONDITIONS OF AUTHORISATION FOR OCCUPIER GENERATING BIO MEDICAL WASTES]

1. Biomedical waste shall be treated and disposed in accordance with Schedule – I (Part I & II) and in compliance with standards provided in Schedule II of the Bio-Medical Waste Management Rules, 2016 should be carried out at source only. Only Yellow, Red, Blue, non chlorinated bags shall be used for collection of BMW.
2. Take all necessary steps to ensure that bio-medical waste is handled without any adverse effect to human health and the environment and in accordance with these rules;
3. Make a provision within the premises for a safe, ventilated and secured location for storage of segregated biomedical waste in colored bags or containers in the manner as specified in Schedule I, to ensure that there shall be no secondary handling, pilferage of recyclables or inadvertent scattering or spillage by animals and the bio-medical waste from such place or premises shall be directly transported in the manner as prescribed in these rules to the common bio-medical waste treatment facility or for the appropriate treatment and disposal, as the case may be, in the manner as prescribed in Schedule I;
4. Pre-treat the laboratory waste, microbiological waste, blood samples and blood bags through disinfection or sterilization on-site in the manner as prescribed by the World Health Organisation (WHO) or National AIDS Control Organisation (NACO) guidelines and then sent to the common bio-medical waste treatment facility for final disposal;
5. The HCF shall not use chlorinated plastic bags, gloves as per the Bio-Medical Waste Management (Amendment) Rules, 2018.
6. Dispose of solid waste other than bio-medical waste in accordance with the provisions of respective waste management rules made under the relevant laws and amended from time to time.
7. The HCF shall not dispose the bio-medical waste along with the municipal

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solid waste.

8. The HCF shall provide training to all its health care workers and others, involved in handling of bio medical waste at the time of induction and thereafter at least once every year and the details of training programmes conducted, number of personnel trained and number of personnel not undergone any training shall be provided in the Annual Report. The details of training programmes shall be submitted to Regional Office, Nellore; Zonal Office, Vijayawada & Head Office, Vijayawada.
9. Immunise all its health care workers and others, involved in handling of bio-medical waste for protection against diseases including Hepatitis B and Tetanus that are likely to be transmitted by handling of bio-medical waste, in the manner as prescribed in the National Immunisation Policy or the guidelines of the Ministry of Health and Family Welfare issued from time to time;
10. The HCF shall maintain the Bar- Code System for bags or containers containing bio-medical waste;
11. Ensure segregation of liquid chemical waste at source and ensure pre-treatment or neutralization prior to mixing with other effluent generated from health care facilities;
12. Ensure treatment and disposal of liquid waste in accordance with the Water (Prevention and Control of Pollution) Act, 1974 (6 of 1974);
13. Ensure occupational safety of all health care workers and others involved in handling of biomedical waste by providing appropriate and adequate personal protective equipments;
14. Conduct health check up at the time of induction and at least once in a year for all its health care workers and others involved in handling of bio- medical waste and maintain the records for the same;
15. Maintain and update on day to day basis the bio-medical waste management register and display the monthly record on its website according to the bio-medical waste generated in terms of category and colour coding as specified in Schedule I;
16. Report major accidents including accidents caused by fire hazards, blasts during handling of biomedical waste and the remedial action taken and the records relevant thereto, (including nil report) in Form I to the prescribed authority and also along with the annual report;
17. Make available the annual report in your official web-site as per Bio-Medical Waste Management (Amendment) Rules, 2018;
18. Inform the Prescribed Authority i.e, APPCB immediately in case the Operator of a common facility does not collect the bio-medical waste within 48 hours or as per the agreed time;
19. Establish a system to review and monitor the activities related to bio-medical waste management, either through an existing committee or by forming a new committee and the Committee shall meet once in every six months and the record of the minutes of the meetings of this committee shall be submitted along with the annual report to the prescribed authority;
20. Maintain all record for operation of incineration, hydro or autoclaving etc., for a period of five years;
21. All plastic bags shall be as per BIS standards as and when published, till then the prevailing Plastic Waste Management Rules shall be applicable;
22. Dead Fetus below the viability period (as per the Medical Termination of Pregnancy Act, 1971, amended from time to time) can be considered as

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human anatomical waste. Such waste should be handed over to the operator of common bio medical waste treatment and disposal facility in yellow bag with a copy of the official Medical Termination of Pregnancy certificate from the Obstetrician or the Medical Superintendent of hospital or health care establishment;

23. Cytotoxic drug vials shall not be handed over to unauthorized person under any circumstances. These shall be sent back to the manufacturers for necessary disposal at a single point. As a second option, these may be sent for incineration at common bio medical waste treatment and disposal facility or TSDFs or plasma pyrolysis is at temperature >1200^{0}C;
24. Residual or discarded chemical wastes, used or discarded disinfectants and chemical sludge can be disposed at hazardous waste treatment, storage and disposal facility. In such, the waste should be sent to hazardous waste treatment, storage and disposal facility through operator of common bio medical waste treatment and disposal facility only;
25. Syringes should be either mutilated or needles should be cut and or stored in tamper proof, leak proof and puncture proof containers for sharps storage. Wherever the occupier is not linked to a disposal facility it shall be the responsibility of the occupier to sterilize and dispose in the manner prescribed;
26. The Occupier shall hand over segregated waste as per the Schedule-I to common bio-medical waste treatment facility for treatment, processing and final disposal;
27. The Occupier shall maintain a record of recyclable wastes which are auctioned or sold and the same shall be submitted to the prescribed authority as part of its annual report. The record shall open for inspection by the prescribed authorities;
28. All syringes and needles should be mutilated before discarding;
29. Mutilation / shredding must be such so as to prevent unauthorised reuse;
30. No untreated Bio-Medical Waste shall be kept stored beyond a period of 48 hours;
31. The Mercury spillage / losses due to breakage of Thermometers, pressure and other measuring equipment in HCF shall be collected stored and send back to the manufacturers;
32. The occupier of HCF shall take all necessary measures to ensure that the spilled mercury does not become part of bio-medical or other solid waste generated from the HCF;
33. The occupier of HCF shall dispose any waste containing Mercury more than threshold limit, as per the provisions of Hazardous and Other Wastes (Management and Transboundary Movement) Rules, 2016;
34. The Bio Medical Waste shall be disposed for treatment after disinfection and segregation to the following Common Bio-Medical Waste Treatment Facility:

M/s. S S Bio Care,
APIIC, Attivaram village, Ozili (M)
SPSR Nellore District.

35. No HCF shall install or operate an incinerator without specific authorisation of Prescribed Authority;
36. The applicant shall obtain consent for operation under Water (P&C of P) Act 1974 and Air (P&C of P) Act 1981;
37. The HCF should provide adequate fire protection equipment (such as smoke

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detectors, fire extinguishers, sand bucket, fire alarm, water sprinklers etc) at salient places within the HCFs even at Bio Medical Waste storage area, in accordance with fire safety regulations and the HCF should obtain certificate from fire department;

38. The authorization or its renewal shall be produced for inspection at the request of an officer authorized by the prescribed authority;
39. The person authorized shall not rent, lend, sell, transfer or otherwise transport the bio medical wastes without obtaining prior permission of the prescribed authority;
40. Any unauthorized change in personnel, equipment or working conditions as mentioned in the application by the person authorized shall constitute a breach of his authorization.
41. It is the duty of the authorized person to take prior permission of the prescribed authority to close down the facility and such other terms and conditions may be stipulated by the prescribed authority;
42. Any contravention of the conditions or directions of authorization will attract prosecution under the provisions of the Environment (Protection) Act, 1986 & Environmental Compensation will be imposed as per the CPCB guidelines for imposition of Environmental Compensation charges against Health care facilities and Common Bio-medical waste treatment facilities (As per Hon'ble National Green Tribunal order dated 12.03.2019 in the matter of O.A.No. 710-713 of 2017).

The industry shall submit Half yearly compliance reports to all the stipulated conditions in Environmental Clearance (EC), Consent for Establishment (CFE) and Consent for Operation (CFO) through website i.e., https://pcb.ap.gov.in **by 1st of January and 1st July of every year. The first half yearly compliance reports shall be furnished by the HCF and second half yearly compliance reports shall be the audited through NABL accredited third party.**

ANY CONTRAVENTION OF THE CONDITIONS OR DIRECTIONS OF AUTHORISATION WILL ATTRACT PROSECUTION UNDER THE PROVISIONS OF THE ENVIRONMENT (PROTECTION) ACT, 1986.

VIJAY KUMAR GSRKR
IAS, MEMBER SECY(GSRKRVK), O/o MEMBER SECRETARY-APPCB

To
M/s. Narayana Medical College & Hospital,
Chinthareddypalem (V), Nellore,
SPSR Nellore District.

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Signed by Vijay Kumar Gsrkr Ias
Date: 28-11-2022 16:16:42
Reason: Approved

NARAYANA MEDICAL COLLEGE HOSPITAL

DAILY LOG SHEET - SEWAGE TREATMENT PLANT

Date : 3/1/2022 Shift : DAY Operator Name : T. Subba Rao

RUNNING HOURS						In Minutes			Dosing		Energy Reading		
Transfer Pumps		Aeration Blowers		Filter Pumps		Filter Backwash		Sludge Drained (Clerifier)	Chlorine	Micro Nutrients	Time	Reading	Units
Pump 1	Pump 2	Blower 1	Blower 2	Pump 1	Pump 2	Filter 1	Filter 2						
9:00 to 3:00 / 6		9:00 to 12:00		9:00 to 9:00	9:00 to 09:00	15	15	-10	✓	—	9	417743	—
			12:00 to 3:00								10	417753	10
4:00 to 9:00 / 5		3:00 to 6:00				Notes :					11	417764	11
			6:00 to 9:00								12	417775	11
											1	417785	10
/ 11											2	417794	9
											3	417804	10
											4	417815	11
											5	417826	11
											6	417836	10
											7	417845	9
											8	417855	10
											9	417866	11

Notes :

11 X 27000 = 297 KL

Shift Total Water Flow	Energy Metre Reading (Kwh)			Operator Sginature	Dry Sludge Removing From Drybeds (ibn Kgs)		
	Starting	Ending	Total		Bed 1	Bed 2	Bed 3
297 KL	417743	417866	123	T. Subba Rao	—	—	—

Date : 4/1/2022 Shift : DAY Operator Name : T. Subba Rao

RUNNING HOURS						In Minutes			Dosing		Energy Reading		
Transfer Pumps		Aeration Blowers		Filter Pumps		Filter Backwash		Sludge Drained (Clerifier)	Chlorine	Micro Nutrients	Time	Reading	Units
Pump 1	Pump 2	Blower 1	Blower 2	Pump 1	Pump 2	Filter 1	Filter 2						
9:00 to 3:00 / 6		9:00 to 12:00		9:00 to 9:00	9:00 to 9:00	15	15	-10	✓	—	9	417866	—
			12:00 to 3:00								10	417877	11
4:00 to 9:00 / 5		3:00 to 6:00				Notes :					11	417887	10
			6:00 to 9:00								12	417898	11
											1	417908	10
/ 11											2	417918	10
											3	417929	11
											4	417938	9
											5	417947	9
											6	417957	10
											7	417967	10
											8	417978	11
											9	417987	9

Notes :

11 X 27000 = 297 KL

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Shift Total Water Flow	Energy Metre Reading (Kwh)			Operator Sginature	Dry Sludge Removing From Drybeds (ibn Kgs)		
	Starting	Ending	Total		Bed 1	Bed 2	Bed 3
297 KL	417866	417987	121	T. Subba Rao	—	—	—

NARAYANA MEDICAL COLLEGE HOSPITAL

DAILY LOG SHEET - SEWAGE TREATMENT PLANT

Date : 24/1/2022 Shift : DAY Operator Name : T. Subba Rayudu

RUNNING HOURS						In Minutes			Dosing		Energy Reading		
Transfer Pumps		Aeration Blowers		Filter Pumps		Filter Backwash		Sludge Drained (Clerifier)	Chlorine	Micro Nutrients	Time	Reading	Units
Pump 1	Pump 2	Blower 1	Blower 2	Pump 1	Pump 2	Filter 1	Filter 2				9	420103	—
									✓	—	10	420113	10
						15	15	10			11	420124	11
						Notes :					12	420135	11
											1	420144	9
											2	420154	10
Notes :											3	420164	10
											4	420175	11
											5	420184	9
											6	420195	11
											7	420206	11
											8	420216	10
											9	420227	11

Shift Total Water Flow	Energy Metre Reading (Kwh)			Operator Sginature	Dry Sludge Removing From Drybeds (ibn Kgs)		
	Starting	Ending	Total		Bed 1	Bed 2	Bed 3
	420103	420227		T. Subba Rayudu			

Date : 25/1/2022 Shift : DAY Operator Name : T. Subba Rayudu

RUNNING HOURS						In Minutes			Dosing		Energy Reading		
Transfer Pumps		Aeration Blowers		Filter Pumps		Filter Backwash		Sludge Drained (Clerifier)	Chlorine	Micro Nutrients	Time	Reading	Units
Pump 1	Pump 2	Blower 1	Blower 2	Pump 1	Pump 2	Filter 1	Filter 2				9	420227	—
											10	420236	9
											11	420247	11
						Notes :					12	420258	11
											1	420268	10
											2	420277	9
											3	420286	9
Notes :											4	420296	10
											5	420307	11
											6	420317	10
											7	420327	10
											8	420336	9
											9	420346	10

Shift Total Water Flow	Energy Metre Reading (Kwh)			Operator Sginature	Dry Sludge Removing From Drybeds (ibn Kgs)		
	Starting	Ending	Total		Bed 1	Bed 2	Bed 3

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NARAYANA MEDICAL COLLEGE HOSPITAL

DAILY LOG SHEET - SEWAGE TREATMENT PLANT

Operator Name : T. Sulochana

Date : 9/2/2022 Shift : DAY

RUNNING HOURS						In Minutes			Dosing		Energy Reading		
Transfer Pumps		Aeration Blowers		Filter Pumps		Filter Backwash		Sludge Drained (Clerifier)	Chlorine	Micro Nutrients	Time	Reading	Units
Pump 1	Pump 2	Blower 1	Blower 2	Pump 1	Pump 2	Filter 1	Filter 2						
	9:00 to 3:00 6	9:00 to 12:00	-	9:00 to 9:00	9:00 to 09:00	15	15	— 10	✓	—	9	422141	—
		-	12:00 to 3:00								10	422152	11
	4:00 to 9:00 5	3:00 to 6:00	-	"	"	Notes :					11	422163	11
	/		6:00 to 9:00								12	422175	12
	H	-	-	-	-						1	422185	10
											2	422196	11
											3	422207	11
											4	422219	12
											5	422231	12
											6	422242	11
											7	422252	10
											8	422262	10
											9	422273	11

Notes :

11 × 27000 = 297 KL

Shift Total Water Flow	Energy Metre Reading (Kwh)			Operator Sginature	Dry Sludge Removing From Drybeds (ibn Kgs)		
	Starting	Ending	Total		Bed 1	Bed 2	Bed 3
297 KL	422141	422273	132	T Sulochana	—	—	—

Operator Name : T. Sulochana

Date : 10/2/2022 Shift : DAY

RUNNING HOURS						In Minutes			Dosing		Energy Reading		
Transfer Pumps		Aeration Blowers		Filter Pumps		Filter Backwash		Sludge Drained (Clerifier)	Chlorine	Micro Nutrients	Time	Reading	Units
Pump 1	Pump 2	Blower 1	Blower 2	Pump 1	Pump 2	Filter 1	Filter 2						
9:00 to 1:00 4		9:00 to 12:00	-	9:00 to 9:00	9:00 to 9:00	15	15	— 10	✓	—	9	422273	—
		-	12:00 to 3:00								10	422283	10
2:00 to 9:00 7		3:00 to 6:00	-	-	-	Notes :					11	422294	11
	/		6:00 to 9:00								12	422306	12
	H	-	-	-	-						1	422317	11
											2	422328	11
											3	422338	10
											4	422349	11
											5	422361	12
											6	422371	10
											7	422380	9
											8	422391	11
											9	422402	11

Notes :

11 × 27000 = 297 KL

Shift Total Water Flow	Energy Metre Reading (Kwh)			Operator Sginature	Dry Sludge Removing From Drybeds (ibn Kgs)		
	Starting	Ending	Total		Bed 1	Bed 2	Bed 3
	422273	422402	129	T. Sulochana	—	—	—

Principal
NARAYANA MEDICAL COLLEGE
Chintharedypalem, Nellore-5

NARAYANA MEDICAL COLLEGE HOSPITAL

DAILY LOG SHEET - SEWAGE TREATMENT PLANT

Date : 11/2/2022 Shift : DAY Operator Name : T. Subbaiah

RUNNING HOURS						In Minutes			Dosing		Energy Reading		
Transfer Pumps		Aeration Blowers		Filter Pumps		Filter Backwash		Sludge Drained (Clerifier)	Chlorine	Micro Nutrients	Time	Reading	Units
Pump 1	Pump 2	Blower 1	Blower 2	Pump 1	Pump 2	Filter 1	Filter 2						
	9:00 to 3:00 | 6	9:00 to 12:00	-	9:00 to 9:00	9:00 to 9:00	15	15	- | 10	✓	-	9	422402	1
		-	12:00 to 3:00								10	422413	11
	9:00 to 9:00 | 5	3:00 to 6:00	-	-	-						11	422425	12
	|		6:00 to 9:00								12	422435	10
	| 11	-	-	-	-						1	422445	10
											2	422456	11
											3	422467	11
											4	422477	10
											5	422486	9
											6	422496	10
											7	422508	12
											8	422519	11
											9	422530	11

Notes :

11 × 27000 = 297 KL

Shift Total Water Flow	Energy Metre Reading (Kwh)			Operator Sginature	Dry Sludge Removing From Drybeds (ibn Kgs)		
	Starting	Ending	Total		Bed 1	Bed 2	Bed 3
297 KL	422402	422530	128	T. Subbaiah	-	-	-

Date : 12/2/2022 Shift : DAY Operator Name : T. Subbaiah

RUNNING HOURS						In Minutes			Dosing		Energy Reading		
Transfer Pumps		Aeration Blowers		Filter Pumps		Filter Backwash		Sludge Drained (Clerifier)	Chlorine	Micro Nutrients	Time	Reading	Units
Pump 1	Pump 2	Blower 1	Blower 2	Pump 1	Pump 2	Filter 1	Filter 2						
9:00 to 5:00 | 8		-	9:00 to 12:00	9:00 to 9:00	9:00 to 9:00	15	15	- | 10			9	422530	-
		12:00 to 3:00	-								10	422540	10
6:00 to 9:00 | 9		-	3:00 to 6:00	-	-						11	422551	11
|		6:00 to 9:00		-							12	422563	12
| 11		-	-	-							1	422575	12
											2	422586	11
											3	422596	10
											4	422606	10
											5	422617	11
											6	422626	9
											7	422636	10
											8	422647	11
											9	422656	9

Notes :

11 × 27000 = 297 KL

Shift Total Water Flow	Energy Metre Reading (Kwh)			Operator Sginature	Dry Sludge Removing From Drybeds (ibn Kgs)		
	Starting	Ending	Total		Bed 1	Bed 2	Bed 3
297 KL	422530	422656	126	T. Subbaiah	-	-	-

Principal
NARAYANA MEDICAL COLLEGE
Chinthareddypalem, Nellore-3

NARAYANA MEDICAL COLLEGE HOSPITAL

DAILY LOG SHEET - SEWAGE TREATMENT PLANT

Date : 13/2/2022 Shift : DAY Operator Name : T. Saleem Raja

RUNNING HOURS						In Minutes			Dosing		Energy Reading		
Transfer Pumps			Aeration Blowers		Filter Pumps	Filter Backwash		Sludge Drained (Clerifier)	Chlorine	Micro Nutrients	Time	Reading	Units
Pump 1	Pump 2		Blower 1	Blower 2	Pump 1	Pump 2	Filter 1	Filter 2						
	9:00 to 3:00	6	9:00 to 12:00	—	9:00 to 9:00	9:00 to 9:00	15	15	— 10	✓	—	9	422656	—
			—	12:00 to 3:00								10	422667	11
	4:00 to 9:00	5	3:00 to 6:00	—	—	—	Notes :					11	422678	11
				6:00 to 9:00								12	422690	12
		11	—	—	—	—						1	422700	10
												2	422712	12
												3	422723	11
												4	422734	11
												5	422744	10
												6	422753	9
												7	422764	11
												8	422773	9
												9	422783	10

Notes :

11 × 27000 = 297 KL

Shift Total Water Flow	Energy Metre Reading (Kwh)			Operator Sginature	Dry Sludge Removing From Drybeds (ibn Kgs)		
	Starting	Ending	Total		Bed 1	Bed 2	Bed 3
297 KL	422656	422783	127	Saleem	—	—	—

Date : 14/2/2022 Shift : DAY Operator Name : T. Saleem Raja

RUNNING HOURS						In Minutes			Dosing		Energy Reading		
Transfer Pumps			Aeration Blowers		Filter Pumps	Filter Backwash		Sludge Drained (Clerifier)	Chlorine	Micro Nutrients	Time	Reading	Units
Pump 1	Pump 2		Blower 1	Blower 2	Pump 1	Pump 2	Filter 1	Filter 2						
	9:00 to 3:00	6	9:00 to 12:00	—	9:00 to 9:00	9:00 to 9:00	15	15	— 10	✓	—	9	422783	—
			—	12:00 to 3:00								10	422793	10
	4:00 to 9:00	5	3:00 to 6:00	—	—	—	Notes :					11	422804	11
				6:00 to 9:00								12	422815	11
		11	—	—	—	—						1	422827	12
												2	422839	12
												3	422850	11
												4	422861	11
												5	422871	10
												6	422883	12
												7	422894	11
												8	422905	11
												9	422916	11

Notes :

11 × 27000 = 297 KL

Principal
NARAYANA MEDICAL COLLEGE
Chintharedypalem, Nellore-3

Shift Total Water Flow	Energy Metre Reading (Kwh)			Operator Sginature	Dry Sludge Removing From Drybeds (ibn Kgs)		
	Starting	Ending	Total		Bed 1	Bed 2	Bed 3
297 KL	422783	422916	133	T. Saleem Raja	—	—	—

NARAYANA MEDICAL COLLEGE HOSPITAL

DAILY LOG SHEET - SEWAGE TREATMENT PLANT

Date : 15/2/2022 Shift : DAY Operator Name : T. Sahu Raju

RUNNING HOURS						In Minutes		Dosing		Energy Reading		
Transfer Pumps		Aeration Blowers		Filter Pumps		Filter Backwash		Sludge Drained (Clerifier)	Chlorine	Micro Nutrients	Time	Reading	Units
Pump 1	Pump 2	Blower 1	Blower 2	Pump 1	Pump 2	Filter 1	Filter 2						
	9:00 to 3:00 \ 6	9:00 to 12:00	—	9:00 to 9:00	9:00 to 9:00	15	15	— 10	✓	—	9	422916	—
			12:00 to 3:00								10	422927	11
	4:00 to 9:00 \ 5	3:00 to 6:00	—	—	—	Notes :					11	422937	10
			6:00 to 9:00								12	422948	11
	\ 11	—	—	—	—						1	422960	12
											2	422971	11
											3	422982	11
											4	422994	12
											5	423006	12
											6	423016	10
											7	423027	11
											8	423036	9
											9	423046	10

Notes :

11 X 2700 = 297 KL

Shift Total Water Flow	Energy Metre Reading (Kwh)			Operator Sginature	Dry Sludge Removing From Drybeds (ibn Kgs)		
	Starting	Ending	Total		Bed 1	Bed 2	Bed 3
297 KL	422916	423046	130	T. Sahu Raju	—	—	—

Date : 16/2/2022 Shift : DAY Operator Name : T. Sahu Raju

RUNNING HOURS						In Minutes		Dosing		Energy Reading		
Transfer Pumps		Aeration Blowers		Filter Pumps		Filter Backwash		Sludge Drained (Clerifier)	Chlorine	Micro Nutrients	Time	Reading	Units
Pump 1	Pump 2	Blower 1	Blower 2	Pump 1	Pump 2	Filter 1	Filter 2						
	9:00 to 3:00 \ 6	9:00 to 12:00		9:00 to 9:00	9:00 to 9:00	15	15	— 10	✓	—	9	423046	—
			12:00 to 3:00								10	423057	11
	4:00 to 9:00 \ 5	3:00 to 6:00	—	—	—	Notes :					11	423068	11
			6:00 to 9:00								12	423080	12
	\ 11	—	—	—	—						1	423090	10
											2	423101	11
											3	423110	9
											4	423120	10
											5	423131	11
											6	423142	11
											7	423151	9
											8	423163	12
											9	423173	10

Notes :

11 X 2700 = 297 KL

Shift Total Water Flow	Energy Metre Reading (Kwh)			Operator Sginature	Dry Sludge Removing From Drybeds (ibn Kgs)		
	Starting	Ending	Total		Bed 1	Bed 2	Bed 3
297 KL	423046	423173	127	T. Sahu Raju	—	—	—

Principal
NARAYANA MEDICAL COLLEGE
Chintharedypalem, Nellore

NARAYANA MEDICAL COLLEGE HOSPITAL

DAILY LOG SHEET - SEWAGE TREATMENT PLANT

Date : 17/2/2022 Shift : DAY Operator Name : T. SaiRaju

RUNNING HOURS						In Minutes			Dosing		Energy Reading		
Transfer Pumps			Aeration Blowers		Filter Pumps	Filter Backwash		Sludge Drained (Clerifier)	Chlorine	Micro Nutrients	Time	Reading	Units
Pump 1	Pump 2		Blower 1	Blower 2	Pump 1 / Pump 2	Filter 1	Filter 2						
	9:00 to 3:00	6	9:00 to 12:00	—	9:00 to 9:00 / 9:00 to 9:00	15	15	10	✓	—	9	423173	—
				12:00 to 3:00							10	423183	10
	21:00 to 9:00	5	3:00 to 6:00	—	— / —	Notes :					11	423193	10
				6:00 to 9:00							12	423204	11
		11	—	—	— / —						1	423216	12
											2	423227	11
											3	423237	10
											4	423248	11
											5	423259	11
											6	423271	12
											7	423282	11
											8	423294	12
											9	423305	11

Notes :

11 X 2700 = 297 KL

Shift Total Water Flow	Energy Metre Reading (Kwh)			Operator Sginature	Dry Sludge Removing From Drybeds (ibn Kgs)		
	Starting	Ending	Total		Bed 1	Bed 2	Bed 3
297 KL	423173	423305	132	T. SaiRaju	—	—	—

Date : 18/2/2022 Shift : DAY Operator Name : T. SaiRaju

RUNNING HOURS						In Minutes			Dosing		Energy Reading		
Transfer Pumps			Aeration Blowers		Filter Pumps	Filter Backwash		Sludge Drained (Clerifier)	Chlorine	Micro Nutrients	Time	Reading	Units
Pump 1	Pump 2		Blower 1	Blower 2	Pump 1 / Pump 2	Filter 1	Filter 2						
	9:00 to 3:00	6	9:00 to 12:00		9:00 to 9:00 / 9:00 to 9:00	15	15	10	✓	—	9	423305	—
				12:00 to 3:00							10	423317	12
	21:00 to 9:00	5	3:00 to 6:00	—	— / —	Notes :					11	423328	11
				6:00 to 9:00							12	423339	11
		11	—	—	— / —						1	423349	10
											2	423360	11
											3	423372	12
											4	423383	11
											5	423395	12
											6	423406	11
											7	423416	10
											8	423426	10
											9	423435	9

Notes :

11 X 2700 = 297 KL

Shift Total Water Flow	Energy Metre Reading (Kwh)			Operator Sginature	Dry Sludge Removing From Drybeds (ibn Kgs)		
	Starting	Ending	Total		Bed 1	Bed 2	Bed 3
297 KL	423305	423435	131	T. SaiRaju	—	—	—

Principal
NARAYANA MEDICAL COLLEGE
Chinthareddypalem, Nellore-3

NARAYANA MEDICAL COLLEGE HOSPITAL

DAILY LOG SHEET - SEWAGE TREATMENT PLANT

Date : 4/5/22 Shift : DAY Operator Name : T. Subba Rao

RUNNING HOURS						In Minutes			Dosing		Energy Reading		
Transfer Pumps		Aeration Blowers		Filter Pumps		Filter Backwash		Sludge Drained (Clerifier)	Chlorine	Micro Nutrients	Time	Reading	Units
Pump 1	Pump 2	Blower 1	Blower 2	Pump 1	Pump 2	Filter 1	Filter 2						
9:00 to 3:00 | 6		9:00 to 12:00		9:00 to 9:00	9:00 to 9:00	15	15	10	✓	—	9	431892	—
			12:00 to 3:00								10	431902	10
4:00 to 9:00 | 5		3:00 to 6:00				Notes :					11	431911	9
			6:00 to 9:00								12	431921	10
| 11											1	431929	8
											2	431938	9
											3	431946	8
											4	431955	9
											5	431965	10
											6	431975	10
											7	431984	9
											8	431993	9
											9	432003	10

Notes :

11 X 27000 = 297 KL

Shift Total Water Flow	Energy Metre Reading (Kwh)			Operator Sginature	Dry Sludge Removing From Drybeds (ibn Kgs)		
	Starting	Ending	Total		Bed 1	Bed 2	Bed 3
297 KL	431892	432003	111	T. Subba Rao	—	—	—

Date : 5/5/22 Shift : DAY Operator Name : T. Subba Rao

RUNNING HOURS						In Minutes			Dosing		Energy Reading		
Transfer Pumps		Aeration Blowers		Filter Pumps		Filter Backwash		Sludge Drained (Clerifier)	Chlorine	Micro Nutrients	Time	Reading	Units
Pump 1	Pump 2	Blower 1	Blower 2	Pump 1	Pump 2	Filter 1	Filter 2						
9:00 to 3:00 | 6		9:00 to 12:00		9:00 to 9:00	9:00 to 9:00	15	15	10	✓	—	9	432003	—
			12:00 to 3:00								10	432013	10
4:00 to 9:00 | 5		3:00 to 6:00				Notes :					11	432022	9
			6:00 to 9:00								12	432032	10
| 11											1	432041	9
											2	432050	9
											3	432058	8
											4	432066	8
											5	432075	9
											6	432085	10
											7	432095	10
											8	432104	9
											9	432123	9

Principal
NARAYANA MEDICAL COLLEGE
Chinthareddypalem, Nellore

Notes :

1 X 27000 = 297 KL

Shift Total Water Flow	Energy Metre Reading (Kwh)			Operator Sginature	Dry Sludge Removing From Drybeds (ibn Kgs)		
	Starting	Ending	Total		Bed 1	Bed 2	Bed 3
297 KL	432003	432123	110	T. Subba Rao	—	—	—

NARAYANA MEDICAL COLLEGE HOSPITAL

DAILY LOG SHEET - SEWAGE TREATMENT PLANT

Date : 6/5/22 Shift : DAY Operator Name : T. Sailu Raju

RUNNING HOURS

Transfer Pumps			Aeration Blowers		Filter Pumps	
Pump 1		Pump 2	Blower 1	Blower 2	Pump 1	Pump 2
9:00 to 3:00	6		9:00 to 12:00		9:00 to 9:00	9:00 to 9:00
4:00 to 9:00	5		3:00 to 6:00	12:00 to 3:00		
	11			6:00 to 9:00		

In Minutes			Dosing		Energy Reading		
Filter Backwash		Sludge Drained (Clerifier)	Chlorine	Micro Nutrients	Time	Reading	Units
Filter 1	Filter 2						
15	15	10	✓	—	9	432123	—
					10	432133	10
					11	432144	11
					12	432154	10
					1	432163	9
					2	432172	9
					3	432180	8
					4	432189	9
					5	432199	10
					6	432208	9
					7	432217	9
					8	432225	8
					9	432234	9

Notes :

Notes :

11 X 27000 = 297 KL

Shift Total Water Flow	Energy Metre Reading (Kwh)			Operator Sginature	Dry Sludge Removing From Drybeds (ibn Kgs)		
	Starting	Ending	Total		Bed 1	Bed 2	Bed 3
297 KL	432123	432234	111	T. Sailu Raju	—	—	—

Date : 7/5/22 Shift : DAY Operator Name : T. Sailu Raju

RUNNING HOURS

Transfer Pumps			Aeration Blowers		Filter Pumps	
Pump 1		Pump 2	Blower 1	Blower 2	Pump 1	Pump 2
9:00 to 3:00	6		9:00 to 12:00		9:00 to 9:00	9:00 to 9:00
4:00 to 9:00	5		3:00 to 6:00	12:00 to 3:00		
	11			6:00 to 9:00		

In Minutes			Dosing		Energy Reading		
Filter Backwash		Sludge Drained (Clerifier)	Chlorine	Micro Nutrients	Time	Reading	Units
Filter 1	Filter 2						
15	15	10	✓	—	9	432234	—
					10	432246	10
					11	432253	9
					12	432262	9
					1	432270	8
					2	432280	10
					3	432289	9
					4	432297	8
					5	432305	8
					6	432314	9
					7	432323	9
					8	432331	8
					9	432340	9

Notes :

Notes :

11 X 27000 = 297 KL

Shift Total Water Flow	Energy Metre Reading (Kwh)			Operator Sginature	Dry Sludge Removing From Drybeds (ibn Kgs)		
	Starting	Ending	Total		Bed 1	Bed 2	Bed 3
297 KL	432234	432340	106	T. Sailu Raju	—	—	—

Principal
NARAYANA MEDICAL COLLEGE
Chinthareddypalem, Nellore-3

NARAYANA MEDICAL COLLEGE HOSPITAL

DAILY LOG SHEET - SEWAGE TREATMENT PLANT

Date : 8/5/22 Shift : DAY Operator Name :

RUNNING HOURS

Transfer Pumps			Aeration Blowers		Filter Pumps		In Minutes			Dosing	
Pump 1		Pump 2	Blower 1	Blower 2	Pump 1	Pump 2	Filter Backwash Filter 1	Filter Backwash Filter 2	Sludge Drained (Clerifier)	Chlorine	Micro Nutrients
9:00 to 3:00	6		9:00 to 12:00		9:00 to 9:00	9:00 to 9:00	15	15	10	✓	—
				12:00 to 9:00							
4:00 to 9:00	5		3:00 to 6:00								
				6:00 to 9:00							
	11										

Notes :

11 X 27000 = 297 KL

Notes :

Shift Total Water Flow	Energy Metre Reading (Kwh) Starting	Ending	Total	Operator Sginature	Dry Sludge Removing From Drybeds (ibn Kgs) Bed 1	Bed 2	Bed 3
297 KL	432340	432444	104		—	—	—

Energy Reading Time	Reading	Units
9	432340	—
10	432349	9
11	432357	8
12	432366	9
1	432376	10
2	432384	8
3	432392	8
4	432401	9
5	432409	8
6	432418	9
7	432427	9
8	432435	8
9	432444	9

Date : 9/5/22 Shift : DAY Operator Name : T. Sathi Raju

RUNNING HOURS

Transfer Pumps			Aeration Blowers		Filter Pumps		In Minutes			Dosing	
Pump 1		Pump 2	Blower 1	Blower 2	Pump 1	Pump 2	Filter Backwash Filter 1	Filter Backwash Filter 2	Sludge Drained (Clerifier)	Chlorine	Micro Nutrients
9:00 to 3:00	6		9:00 to 12:00		9:00 to 9:00	9:00 to 9:00	15	15	10	✓	—
				12:00 to 9:00							
4:00 to 9:00	5		3:00 to 6:00								
				6:00 to 9:00							
	11										

Principal
NARAYANA MEDICAL COLLEGE
Chinthareddypalem, Nellore-3

Notes :

11 X 27000 = 297 KL

Notes :

Shift Total Water Flow	Energy Metre Reading (Kwh) Starting	Ending	Total	Operator Sginature	Dry Sludge Removing From Drybeds (ibn Kgs) Bed 1	Bed 2	Bed 3
297 KL	432444	432546	102		—	—	—

Energy Reading Time	Reading	Units
9	432444	—
10	432453	9
11	432461	8
12	432470	9
1	432478	8
2	432486	8
3	432495	9
4	432504	9
5	432513	9
6	432521	8
7	432530	9
8	432538	8
9	432546	8