

Half Yearly Compliance Report on Environmental Surveillance Monitoring & Compliance Status

(Period: 01.04.2018 to 30.09.2018)

Submitted to:

Northern Regional Office
Ministry of Environment, Forest and Climate Change
Government of India
Bays No. 24-25, Sector – 31-A
Dakshin Marg, Chandigarh – 160 030

Copy Submitted to:

Haryana State Pollution Control Board
C-11, Sector-6,
Panchkula-134109
Haryana



Submitted by:



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This report has been prepared by M/s Eco Corporate and its owned laboratory NABL Accredited Ultratec Research & Analytik Labs; with all reasonable skill, care and diligence for the hospital project by "M/s Artemis Medicare Services Ltd. situated at Hospital Site, Sector-51, Gurgaon 122001 in Haryana". The report has been prepared with data supplied by M/s Artemis Medicare Services Ltd. Any matter outside the scope of work is disclaimed.

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Doc. No.	Date of Issue	Rev. No.	Date of Rev.	Copy No.
E/80/2018/03	28.11.2018	00	--	

abbreviations

₹: Indian Rupees

%: percentage

°C: degree Celsius

µg/m³: microgram per cubic meter

APHA: American Public Health Association

BMW: Bio-Medical Waste

BIS: Bureau of Indian Standards

CGWA: Central Ground Water Authority

CPCB: Central Pollution Control Board

CO: Carbon Monoxide

CO₂: Carbon Dioxide

CSR: Corporate Social Responsibility

CTO: Consent to Operate

Cu: Copper

dm²: Deci-meter Square

dB (A): Decibel in A scale

DG: Diesel Generator

EC: Environmental Clearance

EIA: Environment Impact Assessment

EMP: Environment Management Plan

ETP: Effluent Treatment Plant

Fe: Iron

g: gram

g/kw-hr: gram per kilowatt hour

GSR: General Statutory Rules

HDPE: High Density Polyethylene

HSPCB: Haryana State Pollution Control Board

HWM: Hazardous Waste Management

HUDA: Haryana Urban Development Authority

IARI: Indian Agricultural Research Institute

IS: Indian Standards

INR: Indian Rupees

KVA: Kilo Volt Ampere

L_{eq}: Noise Equivalent Level

LPH: Litre per hour

M: Meter

m²: Square meter

m³: Cubic meter
m/s: meter per second
meq: milli-equivalent
mg/L: milligram per liter
mg/Nm³: milligram per cubic meter at normal temperature & pressure condition
MoEF&CC: Ministry of Environment, Forest and Climate Change, Govt of India
MPN: Most Probable Numbers
Nm³/Hr: cubic meter at normal temperature & pressure condition per hour
NABL: National Accreditation Board for Testing & Calibration Laboratory
NOC: No Objection Certificate
NTU: Nephelometric Turbidity Unit
NH₃: Ammonia
Ni: Nickel
NO₂: Nitrogen Dioxide
NO_x: Oxide of Nitrogen
NZ: Northern Zone
O₃: Ozone
O&G: Oil & Grease
PM₁₀: Respirable Suspended Particulate Matters of size less than 10 μm
PM_{2.5}: Respirable Suspended Particulate Matters of size less than 2.5 μm
ppm: Parts per million
SO₂: Sulfur Dioxide
SPCB: State Pollution Control Board
STP: Sewage Treatment Plant
TPA: Ton per Annum
TDS: Total Dissolved Solids
TSS: Total Suspended Solids
USEPA: United States Environment Protection Agency
w/v: weight by volume

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1.1 Introduction

Artemis Health Institute is a 206-bed super-specialty flagship hospital established by Artemis Health Sciences (AHS) - a healthcare venture launched by the promoters of the Apollo Tyres Group. Artemis aims at creating an integrated world-class healthcare system by leveraging the best medical practices backed by cutting-edge technology. The super-specialties chosen by Artemis as its area of focus include cardiovascular, oncology, orthopedics, neurosciences and bariatric & minimal invasive surgery. The facility at Gurgaon is designed and constructed in strict accordance with International guidelines.

The hospital project is located in Sector-51, Gurgaon in Haryana state. Geographical location of the unit could be stated as approximately 28° 37' latitude and 77° 04' longitude. The location is about 225 meters above the mean sea level.

The project has been granted approval by the Haryana Urban Development Authority vide Memo bearing No. SDE (S) 2925 dated 25/04/2006.

This project has been accorded Environmental Clearance by the Union Ministry of Environment & Forest, Govt. of India vide letter No. 21-292/2007-IA.III dated July 19, 2007 (copy already submitted along with previous reports). Further, Consent to Establish (CTE)/NOC for the project was also obtained from Haryana State Pollution Control Board (HSPCB) vide their letter bearing No. HSPCB/2007/TAC-I/199A/56 dated 09.02.2007. Copy of the said CTE/NOC has already been submitted to Authorities concerned as annexure to previous half yearly compliance reports.

1. 206-bed super-specialty hospital
2. Location: Hospital Site, Sector-51, Gurgaon, Haryana.
Geographical location of the unit could be stated as approximately 28° 37' latitude and 77° 04' longitude. The location is about 225 meters above the mean sea level
3. Accorded EC by the Union Ministry of Environment & Forest, Govt. of India vide letter No. 21-292/2007-IA.III dated July 19, 2007
4. Haryana State Pollution Control Board granted NOC vide letter No. HSPCB/2007/TAC-I/199A/56 dated 09.02.2007
5. Air and Water Consent vide CTO No. HSPCB/Consent/:31309917 GUNOCTO4297296 Dated: 16.08.2017 valid up to 30.09.2018
6. Authorization No. HSPCB/Consent/: 2805716GUNOCTOHW2582153 Dated:10/03/2016 valid up to 30.09.2017
7. Permission for regular water supply connection vide Memo No. 4098-99 dated 19.03.2018
8. Total Land Area: 32860.83 m²
9. Total Built-up Area: 28801 m²
10. Water Requirement: 617.9 KLD
11. Wastewater: 200 KLD
12. Energy Audit Conducted & Report submitted
13. STP to treat 325 KLD and ETP with 25 KLD capacity installed and being operated regularly. Treated wastewater is being reused for various purpose inside hospital.

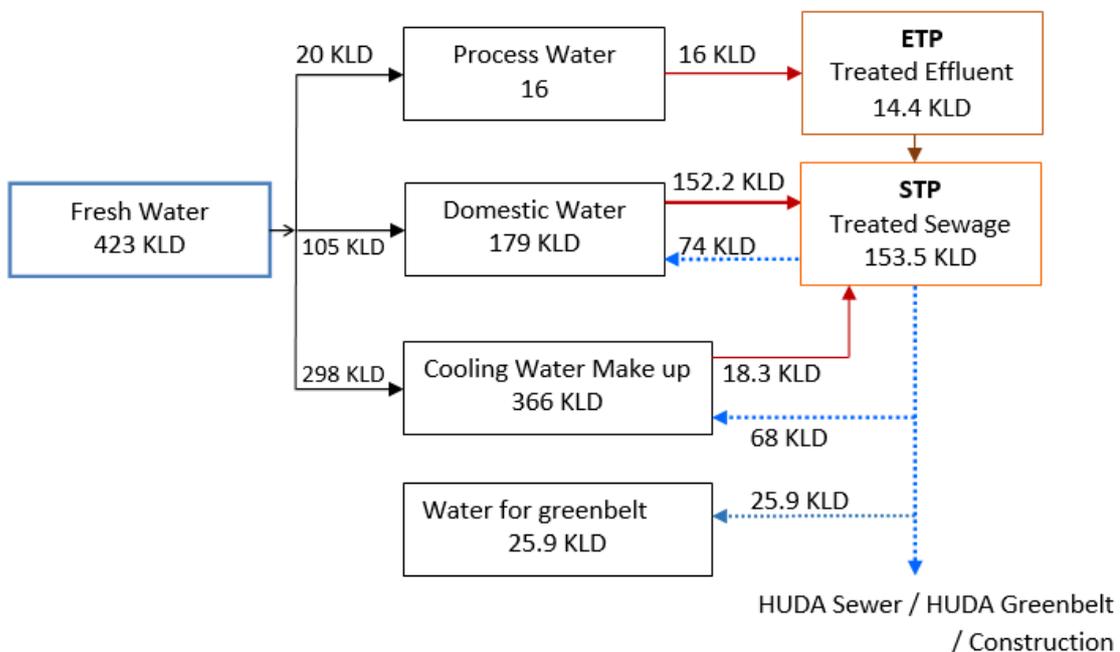
1.2 Salient Features of the Project:

- 1) **Area:** Total plot area of the project is 32860.83 SQM and total built up area is 28801.57 SQM.
- 2) **Occupancy:** Total capacity of the hospital in terms of number of beds as per EIA Clearance accorded by the MoEF&CC is 206.

S. No.	Statistics	Apr-18	May-18	Jun-18	Jul-18	Aug-18	Sep-18
1	Bed Occupancy %	96	94	92	97	98	98

- 3) **Water Consumption:** The total water requirement is 617.9 KLD. Out of which fresh water requirement is about 423 KLD. Fresh water is sourced from the HUDA water supply for which Permission for regular water supply connection has been granted by Competent Authority vide letter bearing Memo No. 4098-99 dated 19.03.2018. Nevertheless, water is withdrawn through bore wells in case of additional requirement or inadequate supply from HUDA.

4) Water Balance:



Note: Domestic water requirement also includes water for hostels, offices, laundry and cafeteria

- 5) Effluent Treatment:** Sewage generated is treated in an adequately designed Sewage Treatment Plant (STP) with capacity to treat 325 KLD of sewage that is installed inside the project premises. The entire (100%) treated water from STP is recycled/ reused in cooling and horticulture in the hospital. Alongside one ETP to treat 25 KLD trade effluent is also installed and operated regularly by the Hospital.
- 6) Parking:** The building has separate and adequate parking facility. Parking is provided basements, podium, stilt and on surface.
- 7) Energy Efficiency Measures:**
- a) Energy Audit carried out as per requirement and Report has been submitted to the Northern Regional Office of MoEF&CC at Chandigarh.
 - b) The building envelope for external walls made of bricks, concrete and steel. The R-value for bricks is approximately $0.87 \text{ K.m}^2.\text{W}^{-1}$ while that for steel and concrete ranges from $1.07 - 1.25 \text{ K.m}^2.\text{W}^{-1}$ and $0.78 - 1.25 \text{ K.m}^2.\text{W}^{-1}$, respectively. For fenestration, aluminium panels with glass panes with R-value ranging between $0.004 - 0.005 \text{ K.m}^2.\text{W}^{-1}$ and $1.075 - 1.25 \text{ K.m}^2.\text{W}^{-1}$, respectively, shall be used.
 - c) Sun film with solar energy rejection up to 79% and glare reduction up to 91% have been fixed in all patient rooms (South and East facing) and consultant rooms with single glazed glass. All other area is having double glazed windows. This would reduce the load due to solar radiation and also the heat load of the building envelope. Typical thermal conductivity (U-values) ranges between $1.2-1.4 \text{ W-m}^2\text{-K}$ as compared to $1.5-1.7 \text{ W-m}^2\text{-K}$ range for normal glass.
- 8) Fire Safety:** The building is well equipped with all firefighting equipment (i.e. fire water tanks, fire pumps, fire hydrants, sprinkler system, fire alarms, fire extinguishers, hose reels etc.) as required under the local fire norms. Licence for storage of diesel are regularly obtained from Competent Authorities concerned with validity till 31st December 2019 (Please refer Annexure-A3).
- 9) Rain Water Harvesting:** The rainwater collected from the rooftop and other safe and uncontaminated areas within the hospital premises is conveyed into the rainwater harvesting system consisting injection bore for recharge into the groundwater. A self-explanatory schematic diagram is attached as Annexure-A8.
- 10) Disposal of Wastes:** The hospital generates following types of wastes:
- (a) Municipal Solid waste:** The hospital has entered in to an agreement with M/s A. B. Enterprises, Sector-56, Gurugram for appropriate collection, segregation and disposal as per prevailing Solid Waste Management Rules.
 - (b) Bio-medical waste:** BMW are being disposed by the help of an approved company namely, M/s Vulcan Waste Management Company.

(c) Hazardous Waste: The used oil from DG sets is being stored in separate leak proof HDPE drums, labeled as Hazardous Waste. Such wastes are being disposed off with the help of oil recyclers with due approvals from the Ministry of Environment, Forest and Climate Change. Total quantity of hazardous waste in the form of used oil from DG sets that falls under type 5.1¹ generated from the hospital is stored safely for disposal. 390 liter of used oil was handed over to M/s Mahavira Udyog, 5/11 Mile Stone, Bhiwani Road, Baniyani Village, Rohtak Dist. in Haryana on 12.07.2018 and Form 10 retained.

Annual return regarding hazardous waste in the prescribed Form – 4 was submitted to Haryana State Pollution Control Board on 10.04.2018 (Please refer Annexure-A2).

(d) E-Waste: The hospital has entered in to an agreement with M/s Green Vortex, E-11, Greenwoods City, Sector – 46, Gurgaon for appropriate collection and disposal of E-Wastes. 1360 Kg of E-Waste was disposed through M/s Green Vortex, Gurgaon on 08/06/2018 and copy of evidence attached to this report in Annexure A2.

1.3 Present Status of the Project

The project is under operational phase. Expansion of the project has been proposed and the appraisal is under consideration of Haryana State Environmental Impact Assessment Authority.

1.4 Purpose of this Report

According to the section 10 (i) of EIA Notification, 2006, it is mandatory for the project management to submit half-yearly compliance reports in respect of the stipulated prior environmental clearance terms and conditions in hard and soft copies to the regulatory authority concerned, on 1st June and 1st December of each calendar year. This report is being submitted for the period from 01.04.2018 through 30.09.2018, which is due on 1st December 2018.

Further, submission of this report meets also the condition No. (ii) specified under the heading of Part-B: General Conditions of the Environmental Clearance letter vide No. 21-292/2007-IA.III dated July 19, 2007. Additionally, this compliance report shows post-project impacts of the project on the local environment.

¹ *the Hazardous Waste (Management, Handling & Transboundary Movement) Rules, 2008*

The environmental compliance report is carried out to verify the following:

- (i) That the project does not have any adverse environmental impacts in the project area and its surrounding
- (ii) Compliance with the conditions stipulated in the Environmental Clearance Letter.
- (iii) That the Project Management is implementing the environmental mitigation measures and safeguards in true spirit as suggested in the approved Form-1, Form-1A, Environmental Management Plan (EMP) and building plans.
- (iv) Any non-conformity in the project with respect to the environmental implication of the project.

1.5 Environmental Management Funds:

Details of expenses incurred in environment management would be as under-

Expenses Head	Non-recurring Cost (Appx.) in (₹)	Appx. Recurring Cost During 01.04.2018 – 30.09.2018 in Lakh (₹)
APCM	2.5	0.00
STP & ETP	30.4	6.46
BMW Disposal	--	20.75
Garbage Disposal	--	6.00
Noise control	4.0	0.50
Monitoring and environmental services	--	1.20
Rainwater Harvesting	5.0	2.30
Greenbelt Maintenance	3.0	2.25
Energy Auditing	--	1.59
Miscellaneous	23.5	6.00
TOTAL	68.4	47.05

Expenditure towards CSR activities was in addition to the above

1.6 Schedule for Next Half-Yearly Compliance Report:

The next half yearly progress report shall be submitted latest by 1st June 2019 at Northern Regional Office of the Ministry of Environment, Forest and Climate Change, Government of India.

2.0 Point wise report on compliance to conditions as stipulated in Environmental clearance (vide letter No. 21-292/2007-IA.III dated July 19, 2007)

Period: 01.04.2018 to 30.09.2018

PART A – SPECIFIC CONDITIONS

I. Construction Phase: Complete

Note: All conditions relevant to construction stage were complied during construction.

II. Operation Phase: In progress

S. No.	Condition	Note on Compliance Status
1	Diesel power generating sets as source of backup power for lifts and common area illumination should be of “enclosed type” and conform to rules made under Environment (Protection) Act 1986, prescribed for air and noise emission standards as per CPCB guidelines. Exhausts should be discharged by stack, raised to 4 meters above the rooftop.	Acoustically treated DG sets are installed in the project as power back up for lifts and all emergency areas in the hospital. The DG sets conform to the prevailing rules made under Environment (Protection) Act 1986, prescribed for air and noise emission standards as per CPCB guidelines. Test Report No. 4725, 4726 and 4728 dated 22.10.2018 issued by NABL Accredited “M/s Ultratec Research & Analytik Labs, Gurgaon (Annexure-A1) may be referred. Exhausts are discharged by stack, raised above 4 meters (actually raised up to about 7.5 meters) from the rooftop.
2	During night time the noise levels measured at the boundary of the building shall be restricted to the permissible levels to comply with the prevalent regulations	During night time the noise levels measured at the boundary of the building were found to be 35.4 dB (A) and 35.3 dB(A), which is less than 45 dB (A). Test Report No. 4719 dated 22.10.2018 issued by NABL Accredited “M/s Ultratec Research & Analytik Labs, Gurgaon (Annexure-A1) may be referred.
3	The sewage treatment plant of adequate capacity should be provided and it should be certified by an independent expert for adequacy as well as efficiency and submit a report in this regard to the Ministry before the project is commissioned for operation. The wastewater should be treated up to tertiary level and after treatment reused for cooling, flushing, landscaping and gardening etc. However, discharge of treated sewage, if any, shall conform to the norms & standards prescribed by Haryana Pollution Control Board	One STP of 325 KLD capacity has been installed with provision to treat the wastewater. The treated wastewater that conforms to GSR 1265 (E) dated 13 th October 2017 - is being reused as flushing water, cooling tower make-up water, and water for greenbelt. Test Report No. 4722 dated 22.10.2018 issued by NABL Accredited “M/s Ultratec Research & Analytik Labs, Gurgaon (Annexure-A1) may be referred.
4	Rain water harvesting and ground water recharging shall be practiced. The ground water levels and its quality should be monitored regularly in	Rain water harvesting to recharge the ground water is being practiced inside the project. The ground water quality is being monitored regularly for pre-monsoon and

S. No.	Condition	Note on Compliance Status
	consultation with the Central Ground Water Authority. Oil & Grease trap shall be provided to remove oil and grease from the surface run off and suspended matter shall be removed in a settling tank before its utilization for rainwater harvesting	post-monsoon period. A self-explanatory schematic diagram of the rainwater harvesting structure is attached as Annexure-A7.
5	The solid waste generated should be properly collected & segregated. Biodegradable waste should be composted and non-biodegradable solid waste should be disposed of to municipal landfill sites after recovering recyclable waste. STP sludge shall be used as manure for gardening	The solid wastes generated are properly collected & segregated from the source of generation. Hospital being a sensitive area, composting may not be feasible. The hospital has entered in to an agreement with M/s A. B. Enterprises, Sector-56, Gurugram for appropriate collection, segregation and disposal as per prevailing Solid Waste Management Rules.
6	Bio-medical Waste including hazardous waste should be disposed of as per applicable Rules & norms with necessary approvals of the Haryana State Pollution Control Board	<p>Disposal of Bio-medical wastes is being attained by the help of M/s Vulcan Waste Management Pvt. Ltd. that is authorized by Haryana State Pollution Control Board vide Authorization Letter No. BMW18GUSO5185039 Dated 27th March 2018. Supporting document enclosed, please refer Annexure-A2.</p> <p>The used oil from DG sets is being stored in separate leak proof HDPE drums, labeled as Hazardous Waste. Such wastes are disposed off as per Hazardous and Other Wastes (Management and Transboundary Movement) Rules, 2016. Copies of supporting documents attached, please refer Annexure-A2.</p>
7	The green belt design along the periphery of the plot shall achieve attenuation factor conforming to the day and night noise standards prescribed for residential land use. The open spaces inside the plot should be suitably landscaped and covered with vegetation of indigenous variety	A green belt along the periphery of the hospital has been created to achieve the day and night noise standards prescribed for residential land use. Test Report No. 4719 dated 22.10.2018 issued by NABL Accredited "M/s Ultratec Research & Analytik Labs, Gurgaon (Annexure-A1) may be referred.
8	Incremental pollution loads on the ambient air quality, noise and water quality should be periodically monitored after commissioning of the project	Monitoring of the ambient air quality, noise level, water quality and soil quality are being conducted on six-monthly basis to assess incremental pollution load. The ambient air quality monitoring was performed on 24 hourly basis for the parameters such as PM ₁₀ , PM _{2.5} , Sulfur Dioxide (as SO ₂), Oxides of Nitrogen (as NO ₂), Carbon Monoxide (as CO) Ozone as O ₃ and Ammonia as NH ₃ . All the parameters were observed to be within the permissible limits prescribed in Central

S. No.	Condition	Note on Compliance Status
		<p>Pollution Control Board's National Ambient Air Quality Standards for Residential Areas. Test Report No. 4716-4718 dated 22.10.2018 issued by NABL Accredited "M/s Ultratec Research & Analytik Labs, Gurgaon (Annexure-A1) may be referred.</p> <p>Ambient noise level monitoring was conducted for 24 hours. The day and night time L_{eq} values were recorded by means of a noise level meter. Instant Sound Pressure Level from DG sets was also recorded.</p> <p>Ground Water Quality was monitored with reference to SO No. 2151 dated 17.06.2005 issued by the Ministry of Environment, Forests & Climate Change, Govt. of India and the test results were correlated with the requirements of IS 10500: 2012. Test Report No. 4720-4721 dated 22.10.2018 issued by NABL Accredited "M/s Ultratec Research & Analytik Labs, Gurgaon (Annexure-A1) may be referred.</p>
9	Prior permission of the Central Ground Water Authority should be obtained for the utilization of ground water	Prior permission for use of ground water was obtained from Central Ground Water Authority vide their letter No. 40-4/GUR-Artemis/CGWA/2007-1492 dated December 11, 2007 (copy attached, please see Annexure-A3)
10	The Solar energy shall be used for water heating as well as lighting common areas and verifiable measures shall be adopted for energy conservation and water conservation	Implementation of 100kw solar energy plant is in process. A Purchase Order bearing No. 9000001881 Dated 10.12.2016 has been issued in favour of M/s Godrej & Boyce Manufacturing Co. Ltd. (copy already submitted as an attachment in Annexure-A8 in the half-yearly compliance report for the period ending 31 st March 2018)
11	Report on the energy conservation measures should be prepared incorporating details about building materials & technology, R & U Factors etc and submitted to the Ministry in three months' time	Energy Audit report has been submitted to Monitoring Authority. Order also placed for subsequent audit, please refer Annexure-A7.
12	The values of R & U for the building envelope should meet the requirements of the hot & humid climatic location. Details of the building envelope should be worked out and furnished in three months' time	A detailed Energy Audit was conducted by M/s Acclaim Technology Services India Pvt. Ltd., Chennai and report has been submitted to Monitoring Authority. A copy already submitted as an attachment in Annexure-A8 in the half-yearly compliance report for the period ending 31 st March 2018. Order also placed for subsequent audit, please refer Annexure-A7.

PART B – GENERAL CONDITIONS

S. No.	Condition	Note on Compliance Status
1	The environmental safeguards contained in the documents should be implemented in letter and spirit.	The environmental safeguards contained in the documents are being implemented with spirit.
2	Provision should be made for the supply of kerosene or cooking gas and pressure cooker to the labourers during construction phase.	Complied and reports submitted to Authorities concerned during construction phase.
3	All the labourers to be engaged for construction works should be screened for health and adequately treated before issue of work permits. Adequate preventive and protective measures shall be taken to protect workers, labourers etc during construction and operation phase of the project.	Complied and reports submitted to Authorities concerned during construction phase.
4	6 monthly monitoring reports should be submitted to the Ministry and its Regional Office.	6 monthly monitoring reports are being submitted to the Northern Regional Office of MoEF&CC at Chandigarh, regularly. This report is for the period 01.04.2018 to 30.09.2018.
5	Officials from the Regional Office of MoEF, Chandigarh, who would be monitoring the implementation of environmental safeguards should be given full cooperation, facilities and documents / data by the project proponents during their inspection. A complete set of all the documents submitted to the MoEF should be forwarded to the CCF, Regional Office of MoEF, Chandigarh.	A complete set of all the documents has been already forwarded to the CCF, Regional Office of MoEF&CC, Chandigarh.
6	In case of any change(s) in the scope of the project, the project would require a fresh appraisal by this Ministry.	Expansion of the project has been proposed and the appraisal is under consideration by Competent Authority.
7	The Ministry reserves the right to add additional safeguard measures, subsequently, if found necessary and to take action including revoking of the environment clearance under the provisions of Environment (Protection) Act, 1986, to ensure effective implementation of the suggested safeguard measures in a time bound and satisfactory manner.	Noted.
8	All the statutory clearances such as the approvals for storage of diesel from Chief Controller of Explosives, Fire Department, Civil Aviation Department, State Forest Department, Wildlife Act, 1972 etc. shall be	1) Licence No.P/NC/HN/15/1312 (P184960) Dated 29.06.2009 issued by Jt. Chief Controller of Explosives has been renewed up to 31.12.2019 2) Permission for regular water supply connection vide Memo No. 4098-99

S. No.	Condition	Note on Compliance Status
	obtained by the project proponents from competent authorities.	dated 19.03.2018 has been obtained from the Office of the Executive Engineer, HSVP, Division No. III, Gurugram. 3) Renewed copies of Consent, Hazardous Waste Authorization and Bio-medical Waste Authorization. All copies enclosed in sequence in Annexure – A3
9	A copy of the environmental clearance should be marked to the local NGO(s) for their information.	Complied.
10	The project proponent should advertise in at least two local newspapers widely circulated in the region, one of which shall be in the vernacular language informing that the project has been accorded environmental clearance and copies of clearances letters are available with the Haryana State Pollution Control Board and may also be seen on the website http://www.envfor.nic.in . The advertisement should be made within 7 days from the day of issue of the clearance letter and a copy of the same should be forwarded to the Regional Office of this Ministry at Chandigarh.	Complied.
11	The stipulations would be enforced among others under the provisions of the Water (Prevention and Control of Pollution) Act, 1974, the Air (Prevention and Control of Pollution) Act, 1981, the Environment (Protection) Act, 1986 and the Public Liability (Insurance) Act, 1991.	Latest copies of Water Consent and Air Consent annexed as Annexure-A4, may be referred.
12	The project authority will ensure regular operation and maintenance of the assets created.	The project authority strives with right spirit to regularly operate and maintain the assets created.

3. Environmental Surveillance Monitoring Report

3.1 General:

Environmental monitoring was performed by NABL Accredited¹ M/s Ultratec Research & Analytik Labs, an environmental laboratory being operated from Plot No. 115, Sagar Enclave, Daulatabad Road Industrial Area, Sector-104, Gurgaon 122 006. The laboratory has also been granted consent by Haryana State Pollution Control Board.

3.2 Objective:

The foremost purpose of environmental monitoring and analysis was to examine the results and data to evaluate performance of pollution control strategies and compliance level. On this basis, further improvement could be implemented to bring down the pollution level by installation of any new and additional control measures, if required. Nevertheless, the objective of the present study is confined to the project and its surrounding environment by evaluating the quality of ground water, ambient air, soil, air emission and noise etc. This also complies with the specific conditions given in the environmental clearance.

3.3 Planning for environmental monitoring

The surveillance monitoring was planned to assess all the relevant parameters of environmental components such as air, noise, water, land etc. The following samples were collected during 21st – 22nd September 2018: -

3.3.1 **Ambient Air Quality** at three locations for PM_{2.5}, PM₁₀, SO₂, NO_x, CO, O₃ and NH₃

3.3.2 **Ambient Noise Monitoring** at two locations inside the hospital

3.3.3 **Source Noise** from DG sets (2 No.)

3.3.4 **Sampling & Testing of Ground water samples** (2 No.) Parameters with reference to "Uniform Protocol on Water Quality Monitoring Order, 2005" vide S.O. 2151 dated 17th June, 2005 Ministry of Environment, Forest and Climate Change, New Delhi.

¹ vide Certificate No. TC-6744

3.3.5 **Sampling & Testing of soil samples** (1 No.) for Parameters: pH, Conductivity, Water Content, Water Retention Capacity, Organic Matters, Exchangeable Calcium, Available Nitrogen, Available Phosphorous, Available Potassium, Soluble Sulphate and Boron.

3.3.6 **Sampling & Testing of Untreated and Treated Wastewater samples** (4 No.) from STP Inlet and Outlet for Parameters: pH, TSS, BOD₃ at 27°C and Faecal Coliform. ETP Inlet and Outlet for Parameters: pH, TSS, BOD₃ at 27°C, COD and Oil & Grease.

3.3.7 **Sampling & Testing of Stack emission samples** (2 No.) From DG sets for parameters: PM, NO₂, CO, NMHC as C, O₂

3.4. Methodology:

3.4.1 Ambient Air Quality:

3.4.1.1 Sampling Locations:

Ambient air samples were collected from three locations. The locations of the ambient air quality monitoring locations are given in Table 3.1.

Table 3.1 Details of Ambient Air Quality Monitoring Locations

S. No.	Location No.	Monitoring Location	Environmental Setting
1.	AAQ-1	Near MGPS Terrace	Residential / Sensitive
2.	AAQ-2	Near Fountain Area	Residential / Sensitive
3.	AAQ-3	Near External Panel Area	Residential / Sensitive

3.4.1.2 Ambient Air Quality Monitoring Methodology

Monitoring was conducted in respect of the following parameters:

- a) Respirable Suspended Particulate Matters of size less than 2.5 µm (PM_{2.5})
- b) Respirable Suspended Particulate Matters of size less than 10 µm (PM₁₀)
- c) Sulphur Dioxide (SO₂)
- d) Oxides of Nitrogen (NO₂)
- e) Carbon Monoxide (CO)
- f) Ozone (as O₃)
- g) Ammonia (as NH₃)

The monitoring was conducted by calibrated Respirable Dust Sampler of Envirotech Make, Model APM 460 and calibrated Envirotech Make PM_{2.5} sampler model APM550 Mini and Ecotech Instruments Make PM_{2.5} sampler AAS 127 and calibrated AAS 190. Aforesaid monitoring for all parameters except O₃ and CO was conducted for 24 hours. Grab sample of ambient air was taken to analyze CO, while O₃ was monitored on 1-hourly basis. The test protocols would be noted in Table 3.2.

Table 3.2 Methods of Ambient Air Monitoring & Analysis

Description	Methods of Measurement	Standard Method
Guidelines for sampling planning	--	IS- 5182(Part 14)
PM _{2.5}	Gravimetric	UL/STM/A/11 ²
PM ₁₀	-do-	IS- 5182 (Part 23)
SO ₂	Improved West & Geake Method	IS- 5182 (Part 2)
NO ₂	Jacob Hochheister Method	IS- 5182 (Part 6)
CO	Gas Chromatographic	IS- 5182 (Part 10)
O ₃	Colorimetric Measurement	IS- 5182 (Part 9)
NH ₃	Colorimetric Measurement	APHA Method No. 504

3.4.2 Noise Level Monitoring:

3.4.2.1 Noise Monitoring Locations

The main objective of noise monitoring in the study area is to assess the present ambient noise levels in project site and project boundary due to various operational activities and increased vehicular movement. Details of ambient noise monitoring are given in **Table 3.3**.

Table 3.3 Details of Ambient Noise Monitoring Locations

S. No.	Location No.	Location Name/ Description	Present Land use
1.	N1	Inside hospital premises, towards south-east direction at about 1 m distance from boundary	Residential
2.	N2	Inside hospital premises, towards north-west direction at about 1 m distance from boundary	Residential

Alongside, the ambient noise level monitoring, source noise from DG sets was also monitored. Details of DG sets subjected to noise monitoring are given in **Table 3.4**.

²SOP based on CPCB Guidelines: NAAQS Monitoring & Analysis Guidelines Volume-I, Central Pollution Control Board, May, 2011, Page 15; Guidelines for sampling and analysis protocol for PM_{2.5} in ambient air

Table 3.4 Details of Source Noise Monitoring Locations

S. No.	DG Set Engine No.	Capacity of DG Set	Acoustic Treatment Status
1.	25316577	1250 kVA	Acoustic Enclosure provided
2.	25316808	1250 kVA	Acoustic Enclosure provided

3.4.2.2 Methodology of Noise Monitoring

Noise level in ambient and source was monitored by using a calibrated Sound Level Meter of Envirotech make, Model No. SLM-100. The instrument has a range to record noise level between 30 – 130 dB.

Ambient noise level was monitored inside, with reference to IS 9989 the hospital premises at selected location for day and night time, continuously for 24 hours. Day time was reckoned in between 6 AM to 10 PM while between 10 PM to 6 AM, it was considered as night time³. The noise equivalent levels (Leq) were recorded at different locations and reported in the unit of dB (A).

Method specified in IS 7194 was followed to measure Sound Pressure Level (SPL) from acoustic enclosed DG sets was taken at a distance of 0.5 meter (before and after acoustic treatment) from the source and reported in dB (A).

3.4.3 Ground Water Quality Monitoring:

Keeping in view the importance of depleting ground water resource, which is often used as drinking water by a part of local population, it becomes a necessity to assess ground water quality in the post-project scenario. Two samples were collected from the approved bore wells commissioned in the project site to test the post-project impacts of the hospital on the groundwater quality. Grab samples were collected and tested for parameters with reference to "Uniform Protocol on Water Quality Monitoring Order, 2005" vide S.O. 2151 dated 17th June, 2005 Ministry of Environment and Forests, New Delhi. The samples were collected in clean and dry containers and preserved in ice box in the manner, as prescribed in IS 3025 (Part 1). The samples were transported to the laboratory with apt preservation. Ground water

³Reference: Schedule of the Noise Pollution (Regulation and Control) Rules, 2000

sampling location and sample code has been given in **Table 3.5**. Details of groundwater test parameters and methods are given in **Table 3.6**. The test results were analyzed with reference to the Indian Standards Specification for Drinking water IS 10500: 2012.

Table 3.5: Groundwater Sampling Locations

S. No.	Sample Id	Location Name	Present Land use
1.	Bore well 1	Inside greenbelt near main entrance	Hospital
2.	Bore well 2	Inside greenbelt near emergency	Hospital

Table 3.6 Ground water test parameters and test methods

S. No.	Parameters	Measurement Methods	Method of Analysis
1	Colour	IS 3025 (Part -4)	Color Comparison
2	Odour	IS 3025 (Part -5)	Manual
3	Turbidity	IS 3025 (Part-10)	Nephelometric
4	pH Value at 25°C	IS 3025 (Part-11)	Electrometric
5	Total Dissolved Solids	IS 3025 (Part-16)	Gravimetric
6	Ammonia as total NH ₃ -N	IS 3025 (Part-34)	Colourimetric
7	Anionic Detergents as MBAS	IS 13428 Annex. K.	Colourimetric
8	Boron as B	IS 3025 (Part-57)	Colourimetric
9	Calcium as Ca	IS 3025 (Part-40)	Titrimetric
10	Chemical Oxygen Demand	IS 3025 (Part-58)	Colourimetric
11	Chlorides as Cl	IS 3025 (Part-32)	Titrimetric
12	Fluorides as F	IS 3025 (Part-60)	Colourimetric
13	Iron as Fe	IS 3025 (Part-53)	Colourimetric
14	Magnesium as Mg	IS 3025 (Part-46)	Titrimetric
15	Nitrate as NO ₃ ⁻	IS 3025 (Part-34)	Colourimetric
16	Nitrite as NO ₂ ⁻	IS 3025 (Part-34)	Colourimetric
17	Potassium as K	IS 3025 (Part-45)	Flame Photometric
18	Phenolic Compounds as C ₆ H ₅ OH	IS 3025 (Part-43)	Colourimetric
19	Silica as SiO ₂	IS 3025 (Part-35)	Colourimetric
20	Sodium as Na	IS 3025 (Part-45)	Flame Photometric
21	Sulphates as SO ₄	IS 3025 (Part-24)	Colourimetric
22	Sulphide as H ₂ S*	IS 3025 (Part-29)	Colourimetric
23	Total Hardness as CaCO ₃	IS 3025 (Part-21)	Titrimetric
24	Total Alkalinity as CaCO ₃	IS 3025 (Part-23)	Titrimetric
25	Total Coliform*	IS:1622	Incubation
26	E Coli*	IS:1622	Incubation

3.4.4. Soil Quality Analysis:

Top soil is rich in organic content and nutrients for vegetation. During project development stage some inevitable disturbances caused to the existing soil conditions, soil erosion, instability and overall change in the microclimate and drainage pattern of the site. Erosion, by the action of water, wind and ice, is a natural process in which soil and rock material get loose and removed. Unlike geological erosion the man-made erosion accelerates the natural erosion process, including the breakdown of soil aggregates and the increases removal of organic and mineral particles. Thus, it becomes indispensable to assess quality of top soil. One composite sample of top soil, from a depth of nearly 6" to 9", was collected from the hospital premises. The sample was preserved in clean and lock-in polyethylene and safely transported to the laboratory for testing. The methods of measurement for various parameters in soil sample is listed in **Table 3.8** below.

Table 3.7: Soil Sampling Location

S. No.	Location Name	Present Land use
1.	Near Biomedical Storage Area	Hospital

Table 3.8: Methods of Analysis of Soil Sample⁴

S. No.	Parameters	Test Protocol
1	pH Value at 25°C	IS: 2720 Pt 26
2	Conductivity at 25°C	IS: 2720 Pt 19
3	Water Contents	IS: 2720 Pt 2
4	Water Retention Capacity	IS:14765
5	Organic Matters	IS: 2720 Pt 22
6	Available Nitrogen	UL.STM.S.03
7	Available Phosphorous as P ₂ O ₅	UL.STM.S.04
8	Available Potassium as K ₂ O	UL.STM.S.05
9	Exchangeable Calcium	UL.STM.S.10
10	Soluble Sulphates as Na ₂ SO ₄	IS: 2720 Pt 27
11	Boron as B	UL.STM.S.06
12	Texture based soil classification	UL.STM.S.07

⁴UL.STM.S refers to standard test procedures based on Methods Manual - Soil Testing in India, Department of Agriculture & Cooperation, Ministry of Agriculture, Government of India, New Delhi, January, 2011

3.4.5. Air Emission Characteristics:

The hospital is facilitated with two DG Sets of capacity 1250 KVA, each. Engine No. of the DG Sets are 25316577 and 25316808, respectively. As the DG sets were commissioned after 01.07.2005 and the area falls under Category A: Areas within the municipal limits of towns/cities having population more than 10 lakhs and also up to 5 km beyond the municipal limits of such towns/cities; the monitoring was carried out for all parameters as notified by the Environment (Protection) Third Amendment Rules 2002, vide G.S.R. 489 (E), dated 9th July, 2002 at Serial No. 96, under the Environment (Protection) Act, 1986. Method of sampling and testing has been given below: –

Table 3.9: Standard Methods followed for stack emission monitoring

S. No.	Parameters	Methods of Measurement	Method of Analysis
1	Particulate Matters	IS: 11255 (Part 1)	Gravimetric
2	Sulphur dioxide as SO ₂	IS: 11255 (Part 2)	Titrimetric
3	Oxides of Nitrogen as NO _x	IS: 11255 (Part 7)	Colourimetric
4	Carbon Monoxide as CO	USEPA Method 10	Gas Chromatographic
5	NMHC ⁵ as C	USEPA Method 2002	Gas Chromatographic
6	Oxygen as O ₂	IS 13270	Volumetric

3.4.6. Characterization of treated and untreated Effluent:

The hospital is facilitated with STP and ETP to treat domestic effluent as well as effluent from hospital operation. Common parameters were tested for treated effluent from ETP and STP. The test methods have been given in the following table: -

Table 3.10: Standard Methods followed for testing of treated & untreated effluent

S. No.	Parameters	Methods of Measurement	Method of Analysis
1	pH Value	IS: 3025 (Pt-11)	By use of pH meter
2	Total Suspended Solids	IS: 3025 (Pt-17)	Gravimetric
3	BOD ₃ at 27°C	IS: 3025 (Pt-44)	Incubation & Titrimetric
4	COD	IS: 3025 (Pt-58)	Digestion & Titrimetric
5	Oil & Grease	IS: 3025 (Pt-39)	Partition Gravimetric
6	Faecal Coliform	IS 1622	Incubation

⁵Non-methane Hydrocarbon

3.5 Results and Discussions:

3.5.1 Ambient Air Quality Monitoring Results

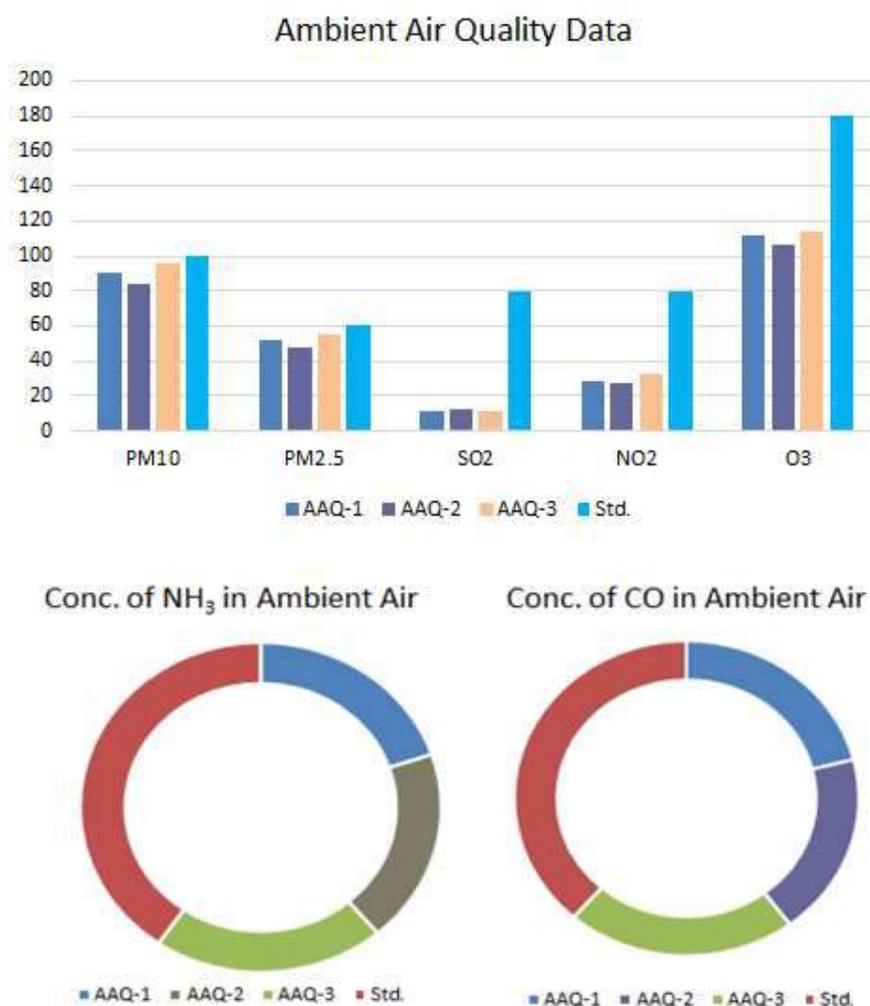
The detailed monitoring results of PM_{2.5}, PM₁₀, SO₂, NO₂, CO, O₃ and NH₃ are presented in **Table 3.11**.

Table 3.11: Ambient Air Quality Monitoring Results

S. No.	Location No.	PM ₁₀	PM _{2.5}	SO ₂	NO ₂	O ₃	CO	NH ₃
1.	AAQ-1	90	52	11.3	28.5	112	2.18	196
2.	AAQ-2	84	48	11.9	27.7	106	1.94	188
3.	AAQ-3	96	55	11.7	32.2	114	2.24	206

Unit: all units except CO in µg/m³ and Unit of CO is mg/m³

Figure-1: Graphical representation of Ambient Air Quality



All parameters subject to testing in ambient air were found to be within limits specified in NAAQS at all locations. However, the maximum value was found near External Panel Area, which could be due to heavy traffic movement on the adjoining road.

3.5.2 Ambient Noise Levels

Day L_{eq} :

Noise equivalent level during day time (L_{eq} day) was recorded to be 53.9 dB (A) towards south eastern direction and 54.4dB (A) towards North West of the project - at about 1 m distance from boundary inside project. This value falls within limit for residential area i.e. 55 dB(A) as prescribed in Schedule of The Noise Pollution (Regulation and Control) Rules, 2000. This also complies with the condition stipulated in Environmental clearance vide letter No. 21-292/2007-IA.III dated July 19, 2007.

Night L_{eq} :

Noise equivalent level during night time (L_{eq} night) was recorded to be 35.4 dB (A) towards south eastern direction and 35.5 dB (A) towards North West of the project - at about 1 m distance from boundary inside project. This value falls within limit for residential area i.e. 45 dB (A) as prescribed in Schedule of The Noise Pollution (Regulation and Control) Rules, 2000. This also complies with the condition stipulated in Environmental clearance vide letter No. 21-292/2007-IA.III dated July 19, 2007.

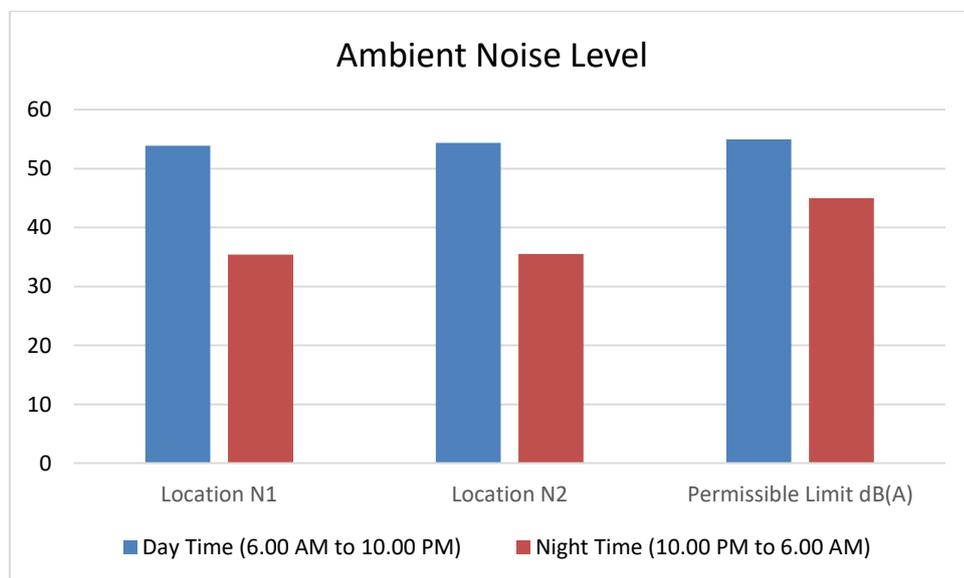


Figure-2: Graphical representation of Ambient Noise Level

3.5.3 Source Noise Levels

Total insertion loss after acoustic treatment of DG sets was found to be 25.2 and 25.4 dB (A), respectively. Therefore, DG set noise conforms to the requirement of acoustic treatment being designed for minimum 25 dB (A) insertion loss.

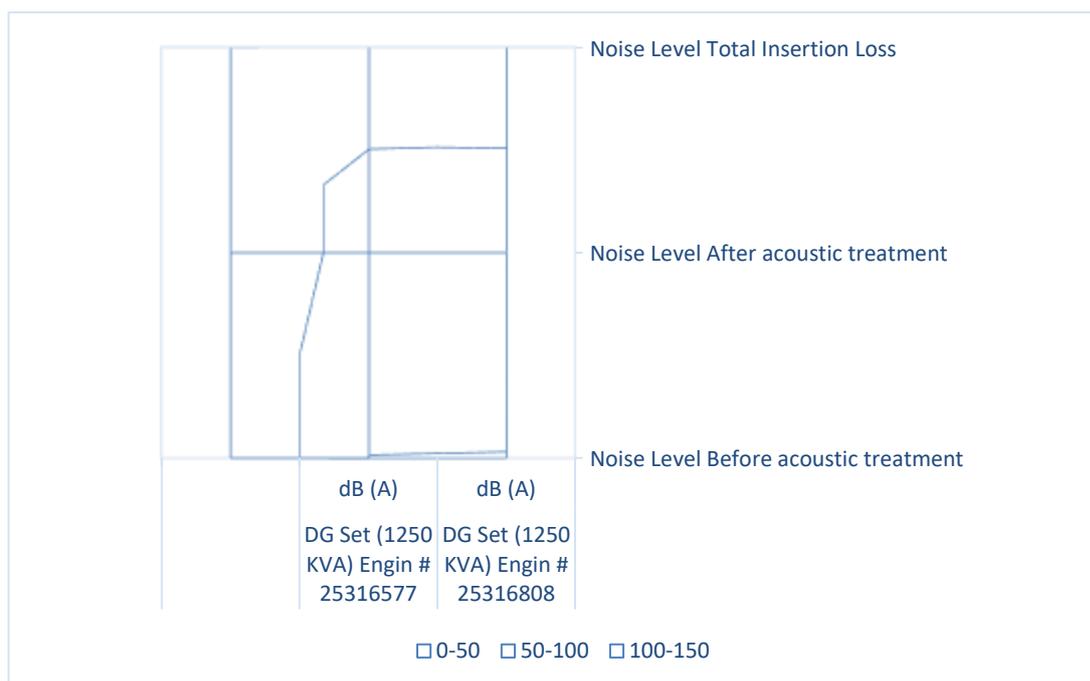


Figure-3: Graphical representation of DG Sound Level

3.5.4. Ground Water Quality:

3.5.4.1. The test results of bore well water samples are given in table 3.12.

Table 3.12: Bore well water Quality Monitoring Results

S. No.	Parameters	Units	Bore Well No. 1	Bore Well No. 2	Standard*
1	Colour	Hazen	< 5	< 5	5(15)
2	Odour	-	Agreeable	Agreeable	Agreeable
3	Turbidity	NTU	1.6	1.9	1(5)
4	pH Value at 25°C	-	8.06	8.40	6.5-8.5
5	Total Dissolved Solids	mg/L	522	660	500(2000)
6	Ammonia as total NH ₃ -N	mg/L	<5	<5	0.5 (0.5)
7	Anionic Detergents as MBAS	mg/L	<0.05	<0.05	0.2 (0.2)
8	Boron as B	mg/L	<0.1	<0.1	0.5 (0.5)
9	Calcium as Ca	mg/L	58	63	75 (200)
10	Chemical Oxygen Demand	mg/L	<10	<10	-
11	Chlorides as Cl	mg/L	74	86	250(1000)
12	Fluorides as F	mg/L	0.66	0.86	1.0 (1.5)
13	Iron as Fe	mg/L	0.24	0.26	0.3 (0.3)
14	Magnesium as Mg	mg/L	2.1	21	30 (100)
15	Nitrate as NO ₃ ⁻	mg/L	18	21	45 (45)
16	Phenolic Compounds as C ₆ H ₅ OH	mg/L	<0.001	<0.001	0.001 (0.001)
17	Dissolved Phosphate as P	mg/L	2.8	4.4	-
18	Potassium as K	mg/L	20	26	-
19	Silica as SiO ₂	mg/L	12.4	16.6	-
20	Sodium as Na	mg/L	122	145	-
21	Sulphates as SO ₄	mg/L	52	66	200 (400)

S. No.	Parameters	Units	Bore Well No. 1	Bore Well No. 2	Standard*
22	Sulphide as H ₂ S*	mg/L	<0.05	<0.05	0.05 (0.05)
23	Total Alkalinity as CaCO ₃	mg/L	260	366	200 (600)
24	Total Hardness as CaCO ₃	mg/L	153	243	200 (600)
25	Total Coliform*	MPN/100ml	Absent	Absent	**
26	E Coli*	Per 100ml	Absent	Absent	**

*Requirement (Permissible Limit)

** Not to be detected in 100 ml

3.5.4.2. Discussion on Groundwater Quality Results

3.5.4.2.1 Physical & Chemical Parameters:

1. Colour: Both the samples were found to be characterized with <5 Hazen units – the acceptable limit.
2. Odour: Both the samples were found to be bearing agreeable odour, thus meeting the acceptable limit.
3. Turbidity: Turbidity value in both the samples was found to be 1.6 and 1.9 NTU, respectively, which is exceeding requirement of 1 NTU but within permissible limit of 5 NTU.
4. pH value: pH value in the ground water samples were found to be 8.06 and 8.40, respectively that falls within the acceptable limit.
5. Total Dissolved Solids: Concentration of TDS was found to be 522 and 660 mg/L, respectively. Therefore, TDS in water from bore well 1 & 2 within the permissible limit but exceeds acceptable limit of 2000 mg/L.
6. Ammonia as total NH₃-N: Ammonia was found to be below detection limit of 5 mg/L and therefore, sample from both the bore wells meet acceptable limit of 0.5mg/L.
7. Anionic Detergents as MBAS: Anionic Detergents was found to be below detection limit of 0.05 mg/L and therefore, sample from both the bore wells meet acceptable limit of 0.2mg/L.
8. Boron as B: Boron was measured to be <0.1 in both samples. Both the values are within the acceptable limit of 0.5 mg/L.
9. Calcium as Ca was found to be within the acceptable limit of 75 mg/L: 58 and 63 mg/L, respectively
10. Chemical Oxygen Demand (COD): COD found to be less than 10 mg/L in both samples. Indian Standards Specification for Drinking Water IS: 10500, 2012 does not specify any limit for COD. However, as the values of COD was found to be <20mg/L, there is no need to further test BOD in the samples.
11. Chlorides as Cl⁻: Concentration of Chlorides as Cl⁻ was observed to be 74 and 86mg/L, respectively. Both the values are within the acceptable limit of 250 mg/L.
12. Fluorides as F⁻: was recorded to be 0.66 and 0.86mg/L, respectively. Both the values are within the acceptable limit of 1.0 mg/L.
13. Iron as Fe: Test result of iron as Fe was recorded to be 0.24 and 0.26mg/L, respectively. Both the values are within the acceptable limit of 0.3 mg/L.
14. Magnesium as Mg was found to be 2.1 and 21mg/L, respectively, which is within the acceptable limit of 30 mg/L.
15. Nitrate: Nitrate was measured to be 18 and 21 mg/L, respectively. Both the values are within the acceptable limit of 45 mg/L.

16. Phenolic Compounds as C₆H₅OH: Phenolic Compounds was found to be below detection limit of 0.001 mg/L and therefore, sample from both the bore wells meet acceptable limit of 0.001 mg/L.
17. Dissolved Phosphate as P: was observed to be 2.8 and 4.4mg/L, respectively. There is no standard specified for this parameter in the Indian Standards Specification for Drinking Water IS: 10500, 2012.
18. Potassium: was observed to be 20 and 26 mg/L, respectively. There is no standard specified for this parameter in the Indian Standards Specification for Drinking Water IS: 10500, 2012.
19. Silica: Observed value of Silica as SiO₂ was found to be 12.4 and 16.6 mg/L, respectively. There is no standard specified for this parameter in the Indian Standards Specification for Drinking Water IS: 10500, 2012.
20. Sodium: Observed value of Na was found to be 122 and 145 mg/L, respectively. There is no standard specified for this parameter in the Indian Standards Specification for Drinking Water IS: 10500, 2012.
21. Sulphate: Concentration of Sulphates as SO₄⁻² was observed to be 52 and 66mg/L, respectively, which is within the acceptable limit of 200 mg/L.
22. Sulphide as H₂S: Sulphide was found to be below detection limit of 0.05 mg/L and therefore, sample from both the bore wells meet acceptable limit of 0.05 mg/L.
23. Total Alkalinity as CaCO₃: was found to be 260 and 366 mg/L, respectively. Therefore, Total Alkalinity as CaCO₃ in both the water samples fail to meet acceptable limit but within the permissible limit but exceeds requirement of 600 mg/L.
24. Total Hardness as CaCO₃: was found to be 153 and 243 mg/L, respectively. Thus, sample drawn from bore well 1 meets acceptable limit of 200 mg/L, while that drawn from bore well 2 is within the permissible limit but exceeds acceptable limit of 600 mg/L.

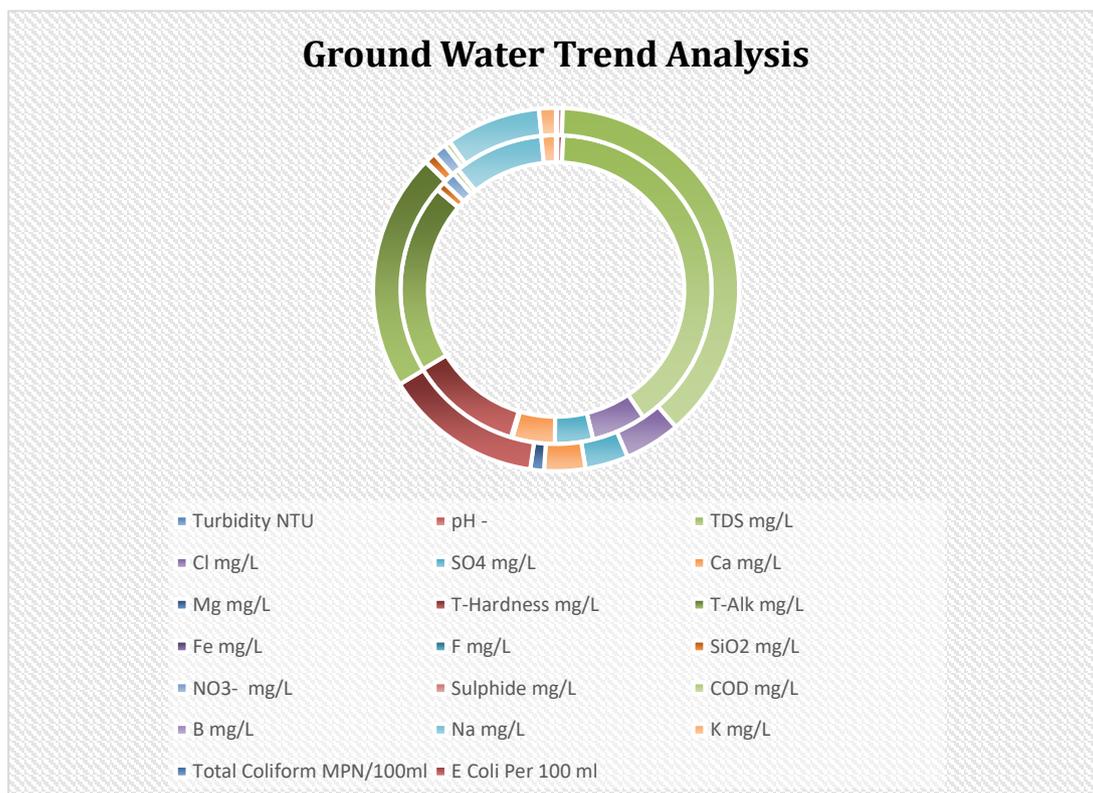


Figure-4: Graphical representation of Ground Water Quality

3.5.4.2.2 Bacteriological Parameters:

1. **Total Coliform:** There was no trace of Total Coliform bacteria, therefore, the ground water quality, meets requirements of Indian Standards Specification for Drinking Water IS: 10500, 2012 specific to this parameter.
2. **E-Coli:** E-Coli bacteria was also not found to be present, therefore, the ground water quality, meets requirements of Indian Standards Specification for Drinking Water IS: 10500, 2012 specific to this parameter.

3.5.5. Soil quality:

3.5.5.1 The physico-chemical characteristics of the soil, as obtained from the analysis of the soil sample, are presented in **Table 3.13**.

Table 3.13: Soil Testing Results

S. No.	Parameters	Units	Observed Values	General Requirement	Test Protocol
1	pH Value at 25°C	-	8.27	5.5 – 7.5	IS: 2720 Pt 26
2	Conductivity at 25°C	µmhos/cm	368	-	IS: 2720 Pt 19
3	Water Contents	%	15.5	-	IS: 2720 Pt 2
4	Water Retention Capacity	%	27	-	IS:14765
5	Organic Matters	%	1.5	0.86 Min.	IS: 2720 Pt 22
6	Available Nitrogen	Kg/Hectare	328	280 Min.	UL.STM.S.03
7	Available Phosphorous as P ₂ O ₅	Kg/Hectare	22	10 Min.	UL.STM.S.04
8	Available Potassium as K ₂ O	Kg/Hectare	147	108 Min.	UL.STM.S.05
9	Exchangeable Calcium	meq/100 ml	1.83	1.5 Min.	UL.STM.S.10
10	Soluble Sulphates as Na ₂ SO ₄	ppm	12	8 – 30 ppm	IS: 2720 Pt 27
11	Boron as B	ppm	1.08	0.5 Min.	UL.STM.S.06
12	Texture based soil classification	-	Sandy Clay Loam	-	UL.STM.S.07

3.5.5.2. Discussion on Soil Test Results

- (1) The pH value was found to be 8.27 that is exceeding the desired range for horticultural purpose, i.e. 5.5–7.5. This could have been due to increase in fertilizers and manures and also watering of greenbelt by the use of ground water and treated wastewater Based on soil pH values, soil reactions both the samples are characterized as “slightly alkaline”.

- (2) Electrical conductivity in the soil sample was recorded to be 0.368 milimhos/cm, which indicates that total soluble solid contents in the soil samples is normal and salinity effect is negligible.
- (3) Organic matters in the sample was found to be 1.5%. Organic carbon concentration was 0.87 %. Hence, the soil sample could be rated as fertile as compared to organic matters and be characterized as containing the desired optimum level of organic carbon (0.5 - 1.0%)⁶.
- (4) With reference to table 1.4, rate chart for soil test values (as described in the following footnote), the soil samples could be characterized as sufficient in concentration of basic inorganic nutrients i.e. available nitrogen, phosphorus and potassium.

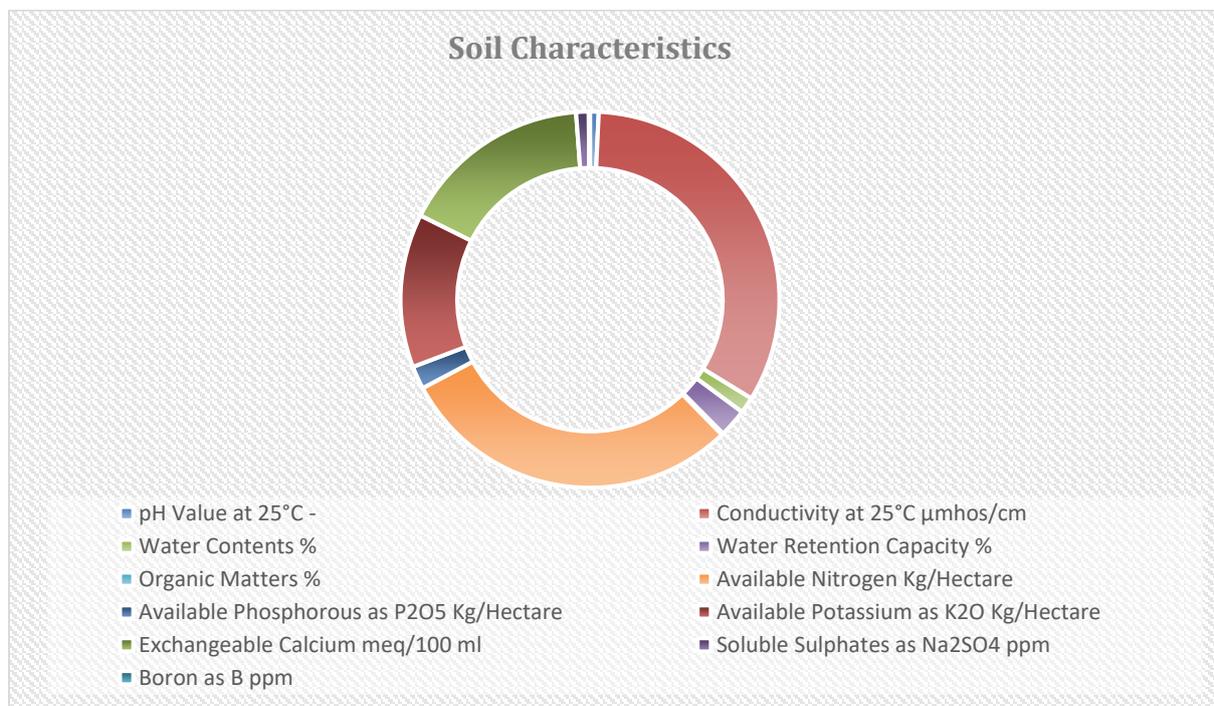


Figure-5: Graphical representation of Soil Quality

3.5.6. Air emissions from DG set stacks:

There were two DG sets with acoustic treatment and silencer installed and in operational condition at the time of surveillance monitoring. Both the DG sets were found to be of capacity above 800 kW. The stack emission characteristics of DG Sets are given below:

⁶Reference table 1.4: Rating chart for soil test values of primary nutrients, Manual on norms and standards for environmental clearance of large construction projects

Table 3.14: Stack Emission Results

S. No.	Parameters	Unit	Engine No.25316577	Engine No. 25316808	Standard Limits
1	Particulate Matters	mg/Nm ³	39	42	75
2	Oxides of Nitrogen as NO ₂	ppmV	330	356	710
3	Carbon Monoxide as CO	mg/Nm ³	82	94	150
4	NMHC as C	mg/Nm ³	14.2	14.8	100

(All results normalized to 15% O₂)

Both the DG sets comply with the standards considered as applicable for DG sets commissioned on or after 01.07. 2005 for Category A: Areas within the municipal limits of towns/cities having population more than 10 lakhs and also up to 5 km beyond the municipal limits of such towns/cities. Emission Standards for Diesel Engines (Engine Rating more than 0.8 MW (800 KW) were notified by the Environment (Protection) Third Amendment Rules 2002, vide G.S.R. 489 (E), dated 9th July, 2002 at Serial No. 96, under the Environment (Protection) Act, 1986.

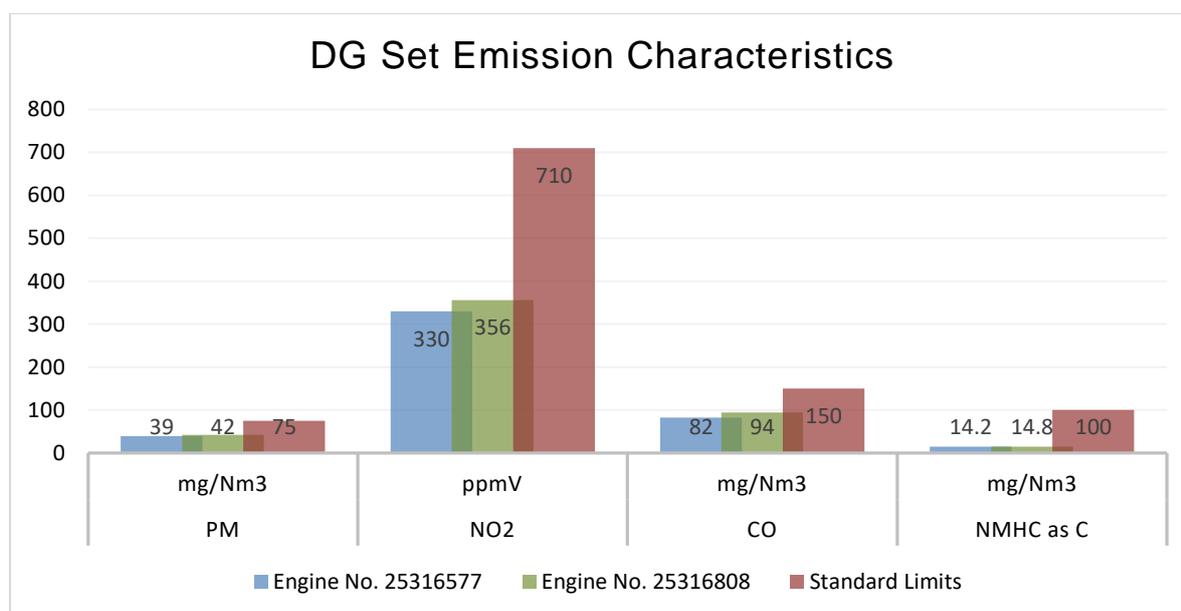


Figure-6: Graphical representation of DG Set emission characteristics

3.5.7. Characterization of Effluent:

3.5.7.1 Sewage Treatment:

One sewage treatment plant (STP) has been installed and operated in the hospital project to treat the wastewater up to tertiary phase. Capacity of the STP is 325 KLD. The treated wastewater is being used to meet 100% requirement for toilet flushing and watering greenbelt.

3.5.7.2. Effluent Treatment:

One effluent treatment plant (ETP) has been installed in the hospital project to treat the wastewater generated from sources other than sewage. Capacity of the ETP is 25 KLD. The ETP treats biodegradable wastewater containing high BOD and COD.

Table 3.15: Results of treated and untreated sewage

S. No.	Parameters	Units	Results		Standards
			"Untreated Sewage"	"Treated Sewage"	
1	pH Value at 25°C	-	6.92	7.28	5.5-9.0
2	Total Suspended Solids	mg/l	114	16	100
3	BOD ₃ at 27°C	mg/l	160	15	30
4	Faecal Coliform	MPN/100ml	920000	860	<1000

Table 3.16: Results of treated and untreated effluent.

S. No.	Parameters	Units	Results		Standards
			"Untreated Effluent"	"Treated Effluent"	
1	pH Value at 25°C	-	6.18	7.03	5.5-9.0
2	Total Suspended Solids	mg/l	64	20	100
3	BOD ₃ at 27°C	mg/l	213	24	30
4.	COD	mg/l	627	74	250
4	Oil & Grease	mg/l	17	0.8	10

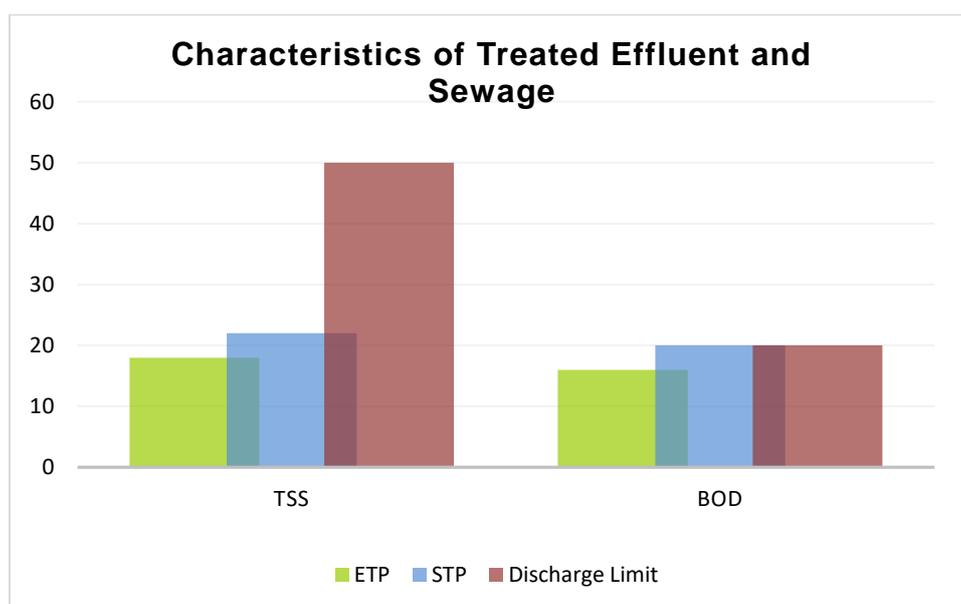


Figure-7: Graphical representation of Treated Wastewater characteristics

The treated sewage quality meets limits specified in the GSR 1265 (E) dated 13th October 2017. The treated effluent quality meets requirement specified in the limits given under General Standards for Discharge of Environmental Pollutants (Part-A): Effluents, as given in Schedule-VI, inserted by Rule 2(d) of Environment (Protection) Second Amendment Rules, 1993 notified by GSR 422(E) dated 19.05.1993 published in Gazette No. 174 dated 19.05.1993.

3.6. Conclusion:

On the basis of a diligent analysis of test results obtained from six-monthly surveillance monitoring, conducted in September, 2018 and correlating with the statutory limits, the following conclusions could be arrived at: -

- (a) Concentration of the pollutants in ambient air samples were found to be within limits prescribed in the National Ambient Air Quality Standard vide GSR 826 (E) dated November 16, 2009 published by the Ministry of Environment & Forests, Govt. of India
- (b) Ambient noise equivalent level (Leq) during day time and night time was recorded to be within the permissible limits specified for residential area, as required in Environmental Clearance.
- (c) Acoustic enclosures provided to the DG sets meet the required insertion loss of minimum 25 dB (A).
- (d) Samples drawn from the two bore wells shows that ground water are not fit for drinking purpose. However, taking into account the test results it could be concluded that the project has not caused any significant impact on the quality of ground water in nearby area.
- (e) Air emission from DG sets was found to be within limits of Emission Standards for Diesel Engines (Engine Rating more than 0.8 MW (800 KW), notified by the Environment (Protection) Third Amendment Rules 2002, vide G.S.R. 489 (E), dated 9th July, 2002 at Serial No. 96, under the Environment (Protection) Act, 1986.
- (f) Soil could be characterized as neutral in pH, rich in organic matter, negligibly saline and not contaminated by pollutants.

- (g) The treated effluent quality meets requirement specified in the limits given under General Standards for Discharge of Environmental Pollutants (Part-A): Effluents, as given in Schedule-VI, inserted by Rule 2(d) of Environment (Protection) Second Amendment Rules, 1993 notified by GSR 422(E) dated 19.05.1993 published in Gazette No. 174 dated 19.05.1993.
- (h) The treated sewage quality meets limits specified in the GSR 1265 (E) dated 13th October 2017.

Annexure A1

Periodical
Surveillance
Monitoring Reports

ULTRATEC RESEARCH & ANALYTIC LABS

(A Unit of ECO CORPORATE TECH & MEDIA SERVICES PVT. LTD.)

Plot No. 115, Daulatabad Road, Industrial Area, Sector-104, Gurgaon-122 006 (Haryana)

Telephone: +91-9312491427 | Email: labs@ecocorporate.com | Website: www.ecocorporate.com/ultratec.html

TEST REPORT

No. 4716

Issued To:

M/s. Artemis Medicare Services Ltd.	Date of Issue:	22.10.2018
Artemis Health Institute	Sample Code No.:	18191111A11
Hospital Site, Sector - 51	Date of Sample Receipt:	21.09.2018
Gurgaon-122.001, Haryana	Sampling Method:	IS 5182 & UL/SOP/EX/04

Sample Description: Ambient air sample collected near MGPS Terrace of Artemis Hospital, Sector - 51, Gurgaon.

MONITORING DATA

(i) Date of Starting Monitoring	21.09.2018
(ii) Sampling Start Time (Hour)	16:20
(iii) Date of Closing Monitoring	22.09.2018
(iv) Sampling Complete Time (Hour)	16:20
(v) Actual Time of Sampling (min)	1438.8
(vi) Flow Rate for PM ₁₀ (m ³ /min)	1.17
(vii) Total Volume of Air sampled for PM ₁₀ (m ³)	1683.096
(viii) Total Volume of Air sampled for PM _{2.5} (m ³)	23.9760
(ix) Ambient Temperature (°C)	33 Max, 21 Min
(x) Relative Humidity (%)	91 Max, 87 Min
(xi) Weather Condition during monitoring	Clear, no rainfall

TEST RESULTS

S. No.	Parameters	Units	Results	NAAQS	Time Weighted Average	Test Protocol
1.	Sulphur Dioxide as SO ₂	µg/m ³	113	80	24 hours	IS 5182 (Pt-2)
2.	Nitrogen Dioxide as NO ₂	µg/m ³	2815	80	24 hours	IS 5182 (Pt-6)
3.	PM ₁₀	µg/m ³	90	100	24 hours	IS 5182 (Pt-23)
4.	PM _{2.5}	µg/m ³	52	60	24 hours	UL/STMA/11
5.	Ozone as O ₃	µg/m ³	112	180	1 hour	IS 5182 (Part-9)
6.	Carbon Monoxide as CO*	mg/m ³	2.18	4	1 hour	IS 5182 (Pt-10)
7.	Ammonia as NH ₃	µg/m ³	196	400	24 hours	APHA

Note:

1. Samples collected / not collected by our representatives.
2. Sample Testing Period: 21.09.2018 to 28.09.2018
3. NAAQS: National Ambient Air Quality Standard vide GSR 826 (E) Dated: November 16, 2009, MoEF&CC, Govt. of India
4. UL/STMA/11: based on CPCB Guidelines: NAAQS Monitoring & Analysis Guidelines Volume-I, Central Pollution Control Board, May, 2011, Page 15; Guidelines for determination of PM_{2.5} in ambient air (Gravimetric Method)
5. Method No. 504 Air APHA 3rd edition, 1989 and CPCB Guidelines: NAAQS Monitoring & Analysis Guidelines Volume-I, Central Pollution Control Board, May, 2011, Page 23; Guidelines for sampling and analysis protocol for Ammonia in ambient air.
6. * Not covered under NABL scope.
7. Adequate dust suppression measure such as water sprinkling was found in the project throughout sampling period.
8. ultrateclabs is NABL accredited vide Certificate No. TC - 6744 dated 12/01/2018 and ISO 9001:2015 certified vide Certificate No. 171QAE26 Dated: 16.05.2017.

*****End of Report*****



(Signature)
(Sunita Mishra)
Technical Manager
(Authorized Signatory)

Note:

1. The results indicated on this test report have relevance with only the sample tested for specified parameters. The results do not endorse any product or any services.
2. Total liability of ultratec labs shall be limited to the corresponding billed amount only.
3. This test report shall not be a valid document in any advertising media or as evidence in any Court of law without prior written permission from the laboratory.
4. Samples shall be destroyed after 1 week from date of issue of report, or as per standards.

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TEST REPORT

No. **4717**

Issued To:

M/s Artemis Medicare Services Ltd.	Date of Issue:	22.10.2018
Artemis Health Institute	Sample Code No.:	18191111A12
Hospital Site, Sector - 51	Date of Sample Receipt:	21.09.2018
Gurgaon 122 001, Haryana	Sampling Method:	IS 5182 & UL/SOP/EX/04

Sample Description: Ambient air sample collected near Fountain Area of Artemis Hospital, Sector - 51, Gurgaon.

MONITORING DATA

(i)	Date of Starting Monitoring	21.09.2018
(ii)	Sampling Start Time (Hour)	16:35
(iii)	Date of Closing Monitoring	22.09.2018
(iv)	Sampling Complete Time (Hour)	16:35
(v)	Actual Time of Sampling (min)	1439.4
(vi)	Flow Rate for PM ₁₀ (m ³ /min)	1:14
(vii)	Total Volume of Air sampled for PM ₁₀ (m ³)	1640.916
(viii)	Total Volume of Air sampled for PM _{2.5} (m ³)	23.999
(ix)	Ambient Temperature (°C)	33 Max, 21 Min
(x)	Relative Humidity (%)	91 Max, 87 Min
(xi)	Weather Condition during monitoring	Clear, no rainfall

TEST RESULTS

S. No.	Parameters	Units	Results	NAAQS	Time Weighted Average	Test Protocol
1.	Sulphur Dioxide as SO ₂	µg/m ³	11.9	80	24 hours	IS 5182 (Pt-2)
2.	Nitrogen Dioxide as NO ₂	µg/m ³	27.7	80	24 hours	IS 5182 (Pt-6)
3.	PM ₁₀	µg/m ³	84	100	24 hours	IS 5182 (Pt-23)
4.	PM _{2.5}	µg/m ³	48	50	24 hours	UL/STM/A/11
5.	Ozone as O ₃	µg/m ³	106	180	1 hour	IS 5182 (Part-9)
6.	Carbon Monoxide as CO*	mg/m ³	1.94	4	1 hour	IS 5182 (Pt-10)
7.	Ammonia as NH ₃	µg/m ³	188	400	24 hours	APHA

Note:

1. Samples collected / not collected by our representatives
2. Sample Testing Period: 21.09.2018 to 28.09.2018
3. NAAQS: National Ambient Air Quality Standard vide GSR 826 (E) Dated: November 16, 2009, MoEF&CC, Govt. of India
4. UL/STM/A/11: based on CPCB Guidelines: NAAQS Monitoring & Analysis Guidelines Volume-I, Central Pollution Control Board, May 2011, Page 15; Guidelines for determination of PM_{2.5} in ambient air (Gravimetric Method)
5. Method No. 504 Air APHA 3rd edition, 1989 and CPCB Guidelines: NAAQS Monitoring & Analysis Guidelines Volume-I, Central Pollution Control Board, May 2011, Page 23; Guidelines for sampling and analysis protocol for Ammonia in ambient air.
6. *Not covered under NABL scope
7. Adequate dust suppression measure such as water sprinkling was found in the project throughout sampling period.
8. ultrateclabs is NABL accredited vide Certificate No. TC - 6744 dated 12/01/2018 and ISO 9001:2015 certified vide Certificate No. 171QAE26 Dated: 16.05.2017

*****End of Report*****

EM/Artemis/Raghuas



Sunita Mishra
(Sunita Mishra)
Technical Manager
(Authorized Signatory)

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TEST REPORT

No. 4718

Issued To:

M/S Artemis Medicare Services Ltd.	Date of Issue:	22.10.2018
Artemis Health Institute	Sample Code No.:	18191111A13
Hospital Site, Sector - 51	Date of Sample Receipt:	21.09.2018
Gurgaon-122 001, Haryana	Sampling Method:	IS 5182 & UL/SOP/EX/04

Sample Description: Ambient air sample collected near External Panel of Artemis Hospital, Sector - 51, Gurgaon.

MONITORING DATA

(i)	Date of Starting Monitoring	21.09.2018
(ii)	Sampling Start Time (Hour)	16:50
(iii)	Date of Closing Monitoring	23.09.2018
(iv)	Sampling Complete Time (Hour)	16:50
(v)	Actual Time of Sampling (min)	1440
(vi)	Flow Rate for PM ₁₀ (m ³ /min)	1.19
(vii)	Total Volume of Air sampled for PM ₁₀ (m ³)	1713.6
(viii)	Total Volume of Air sampled for PM _{2.5} (m ³)	24.0008
(ix)	Ambient Temperature (°C)	33 Max, 21 Min
(x)	Relative Humidity (%)	91 Max, 87 Min
(xi)	Weather Condition during monitoring	Clear, no rainfall

TEST RESULTS

S. No.	Parameters	Units	Results	NAAQS	Time Weighted Average	Test Protocol
1.	Sulphur Dioxide as SO ₂	µg/m ³	11.7	80	24 hours	IS 5182 (Pt-2)
2.	Nitrogen Dioxide as NO ₂	µg/m ³	32.2	80	24 hours	IS 5182 (Pt-6)
3.	PM ₁₀	µg/m ³	96	100	24 hours	IS 5182 (Pt-23)
4.	PM _{2.5}	µg/m ³	65	60	24 hours	UL/ST/M/A/11
5.	Ozone as O ₃	µg/m ³	114	180	1 hour	IS 5182 (Part-9)
6.	Carbon Monoxide as CO*	mg/m ³	2.24	4	1 hour	IS 5182 (Pt-10)
7.	Ammonia as NH ₃	µg/m ³	206	400	24 hours	APHA

Note:

1. Samples collected / not collected by our representatives
2. Sample Testing Period: 21.09.2018 to 28.09.2018
3. NAAQS: National Ambient Air Quality Standard vide GSR 826 (E) Dated: November 16, 2009, MoEF&CC, Govt. of India
4. UL/ST/M/A/11 based on CPCB Guidelines: NAAQS Monitoring & Analysis Guidelines Volume-I, Central Pollution Control Board, May, 2011, Page 15; Guidelines for determination of PM_{2.5} in ambient air (Gravimetric Method)
5. Method No 504 Air APHA 3rd edition, 1989 and CPCB Guidelines: NAAQS Monitoring & Analysis Guidelines Volume-I, Central Pollution Control Board, May, 2011, Page 23; Guidelines for sampling and analysis protocol for Ammonia in ambient air.
6. * Not covered under NABL scope.
7. Adequate dust suppression measure such as water sprinkling was found in the project throughout sampling period.
8. ultrateclabs is NABL accredited vide Certificate No. TC - 6744 dated 12/01/2018 and ISO 9001:2015 certified vide Certificate No. 1710AE26 Dated 16.05.2017

*****End of Report*****



Sunita Mishra
(Sunita Mishra)
Technical Manager
(Authorized Signatory)

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TEST REPORT

No. 4722

Issued To:

M/s Artemis Medicare Services Ltd. Artemis Health Institute Sector - 51 Gurgaon 122 001, Haryana	1. Date of Issue:	22.10.2018
	2. Sample Code No.:	18191111W21/W22
	3. Sample Received on:	21.09.2018
	4. Sampling Method:	IS: 3025 (Part-1)
	5. Appearance:	Light Grey / Apparently Clear
	6. Quantity of Sample:	2 liters each
	7. Type of Sample:	Grab
	8. Type of Container:	Plastic Jerry Cans and Sterilized Bottles

Sample Description: Wastewater samples marked as "Inlet to STP" and "Outlet from STP" were received from Artemis Hospital, Sector - 51, Gurgaon.

TEST RESULTS

S. No.	Parameter	Unit	RESULT		Standard	Test Protocol
			"Inlet to STP"	"Outlet from STP"		
1	pH Value at 25°C	-	6.92	7.28	5.5-9.0	IS: 3025 (Pt-11)
2	Total Suspended Solids	mg/l	114	16	100	IS: 3025 (Pt-17)
3	BOD ₅ at 27°C	mg/l	160	15	30	IS: 3025 (Pt-44)
4	Faecal Coliform*	**	920000	860	<1000	IS 1622

Note:

1. Sample testing period: 21/09/2018 through 01/10/2018
2. Discharge Limit refers to GSR 1265(E) Dated 13th October 2017 applicable to STP Outlet only.
3. *Not Covered under NABL Scope.
4. ** Unit - MPN/100 ml
5. Test Report contains / does not contain Outsourced Test Results:
6. Test Results are specific to the sample described above and does not certify anything beyond.
7. ultrateclabs is NABL accredited vide Certificate No. TC - 6744, dated 12/01/2018 and ISO 9001:2015 certified vide Certificate No. 171QAE26 Dated 16.05.2017

***** End of Report *****



Sunita Mishra
 (Sunita Mishra)
 Technical Manager
 (Authorized Signatory)

Note:

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TEST REPORT

No. 4723

Issued To:

M/s. Artemis Medicare Services Ltd. Artemis Health Institute Sector - 51 Gurgaon 122 001, Haryana	1. Date of Issue:	22.10.2018
	2. Sample Code No.:	181911.11W23/W24
	3. Sample Received on:	21.09.2018
	4. Sampling Method:	IS: 3025 (Part-1)
	5. Appearance:	Apparently Clear (both)
	6. Quantity of Sample:	2 liters each
	7. Type of Sample:	Grab
	8. Type of Container:	Plastic Jerry Cans and Sterilized Glass Bottles

Sample Description: Wastewater samples marked as "Inlet to ETP" and "Outlet from ETP" were received from Artemis Hospital, Sector - 51, Gurgaon.

TEST RESULTS

S. No.	Parameter	Unit	RESULT		Standard	Test Protocol
			"Inlet to ETP"	"Outlet from ETP"		
1	pH Value at 25°C	-	6.18	7.03	5.5-9.0	IS: 3025 (Pt-11)
2	Total Suspended Solids	mg/l	64	20	100	IS: 3025 (Pt-17)
3	BOD ₅ at 27°C	mg/l	213	24	30	IS: 3025 (Pt-44)
4	COD	mg/l	627	74	250	IS: 3025 (Pt-58)
5	Oil & Grease	mg/l	17	0.8	10	IS: 3025 (Pt-39)

Note:

1. Sample testing period: 21/09/2018 through 01/10/2018
2. As the ETP Outlet is connected to STP for further treatment applicable standards refer to General Standards for Discharge of Environmental Pollutants (Part-A): Effluents, as given in Schedule-VI, inserted by Rule 2(d) of Environment (Protection) Second Amendment Rules, 1993 notified by GSR 422(E) dated 19.05.1993 published in Gazette No. 174 dated 19.05.1993, applicable to outlet sample only.
3. Test Report contains / does not contain Outsourced Test Results.
4. Test Results are specific to the sample described above and does not certify anything beyond.
5. Ultrateclabs is NABL accredited vide Certificate No. TC - 6744 dated 12/01/2018 and ISO 9001:2015 certified vide Certificate No. 171QAE26 Dated 18.05.2017

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(Signature)
(Sunita Mishra)
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(Authorized Signatory)

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TEST REPORT

No. **4726**

Issued To:

M/s Artemis Medicare Services Ltd. Artemis Health Institute Sector - 51 Gurgaon 122002	Date of Issue:	22.10.2018
	Sample Code No.:	18191111N21
	Date of Monitoring:	21.09.2018
	Monitoring Methodology:	IS: 7194

Monitoring Description: Sound level from DG sets was monitored inside Artemis Hospitals, Sector-51, Gurgaon.

MONITORING DATA

- (i) Date of Monitoring: 21.09.2018
- (ii) Period of Monitoring (Hour): 12:30 to 14:00
- (iii) Approximate Ambient Temperature (°C): 27°C to 32°C
- (iv) Approximate range of Relative Humidity (%): 87% appx.

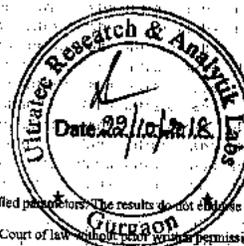
MONITORING RESULTS

S. No.	Location	Unit	Noise Level			Noise Limit for diesel generator sets (above 1000 KVA)
			Before acoustic treatment	After acoustic treatment	Total Insertion Loss	
1.	Sound level was monitored near acoustically treated DG Set (1250 KVA) (Engine No. - 25316577)	dB (A)	100.6	75.4	25.2	The acoustic enclosure or acoustic treatment of the room shall be designed for minimum 25 dB (A) insertion loss
2.	Sound level was monitored near acoustically treated DG Set (1250 KVA) (Engine No. - 25316808)	dB (A)	101.0	75.6	25.4	

Note:

1. DG Set exhaust muffler provided / not provided
2. DG Set provided / not provided with acoustic enclosure / DG Set room provided acoustic treatment
3. Measurement for Insertion Loss was performed at different points at 0.5 m from the acoustic enclosure / room and then averaged.
4. Only SPL values were measured while DG set acoustic chamber door kept close and average is reported.
5. Noise Limit for Generator Sets run with Diesel were notified by Environment (Protection) second Amendment Rules vide GSR 371(E), dated 17th May 2002 at serial no.94 and its amendments vide GSR No 520(E) dated 1st July 2003; GSR 448(E), dated 12th July 2004; GSR 315(E) dated 16th May 2005; GSR 464(E) dated 7th August 2006; GSR 566(E) dated 29th August 2007 and GSR 752(E) dated 24th October 2008; G.S.R. 215 (E), dated 15th March, 2011 under the Environment (Protection) Act, 1986.
6. Ultrateclabs is NABL accredited vide Certificate No. TC - 6744 dated 12/01/2018 and ISO 9001:2015 certified vide Certificate No. 171QAE26 Dated 15.05.2017

*****END OF REPORT*****



Sunita Mishra
(Sunita Mishra)
Technical Manager
(Authorized Signatory)

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TEST REPORT

No. **4727**

Issued To:

M/s. Artemis Medicare Services Ltd. Artemis Health Institute Sector - 51 Gurgaon 122 001, Haryana	1. Date of Issue:	22.10.2018
	2. Sample Code No.:	18191111S11
	3. Sample Received on:	21.09.2018
	4. Sampling Method:	UL/SOP/EX/02
	5. Appearance:	Dark Brown
	6. Quantity of Sample:	1 Kg
	7. Type of Sample:	Surface Soil (Composite)
	8. Type of Container:	Locked in Polyethylene

Sample Description: Surface soil sample from a depth of approximately 6" - 9" below ground level was collected from "Near Biomedical Storage Area" of Artemis Hospital, Sector - 51, Gurgaon.

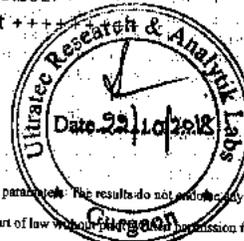
TEST RESULTS

S. No.	Parameter	Unit	Observed Values	Requirement	Test Protocol
1	pH Value at 25°C		8.27	5.5 - 7.5	IS: 2720 Pt.26
2	Conductivity at 25°C	µmhos/cm	368		IS: 2720 Pt.19
3	Water Contents	%	15.5		IS: 2720 Pt.2
4	Water Retention Capacity	%	27		IS:14765
5	Organic Matters	%	1.5	0.86 Min.	IS: 2720 Pt.22
6	Available Nitrogen	Kg/Hectare	328	280 Min.	ULSTM.S.03
7	Available Phosphorous as P ₂ O ₅	Kg/Hectare	22	10 Min.	ULSTM.S.04
8	Available Potassium as K ₂ O	Kg/Hectare	147	108 Min.	ULSTM.S.05
9	Exchangeable Calcium	meq/100 ml	1.83	1.5 Min.	ULSTM.S.10
10	Soluble Sulphates as Na ₂ SO ₄	ppm	12	8 - 30 ppm	IS: 2720 Pt.27
11	Boron as B ⁺	ppm	1.08	0.5 Min.	ULSTM.S.06
12	Texture based soil classification		Sandy Clay Loam		ULSTM.S.07

Note:

1. Samples were collected / not collected by our representative
2. Period of Laboratory Testing: 21/09/2018 - 01/10/2018
3. Report also contains outsourced data.
4. ULSTM.S refers to standard test procedures based on Methods Manual - Soil Testing in India, Department of Agriculture & Cooperation, Ministry of Agriculture, Government of India, New Delhi, January, 2011
5. Requirement sourced from Soil Testing Manual, Ministry of Agriculture, Government of India, New Delhi, January, 2011.
6. ultrateclabs is NABL accredited vide Certificate No. TC - 6744 dated 12/01/2018 and ISO 9001:2015 certified vide Certificate No. 171QAE26 Dated 16.05.2017

+++++ End of Report +++++



Sunita Mishra
(Sunita Mishra)
Technical Manager
(Authorized Signatory)

Note:

1. The results indicated on this test report have relevance with, only the sample tested for specified parameters. The results do not include any product or any services.
2. Total liability of Ultratec Labs shall be limited to the corresponding billed amount only.
3. This test report shall not be a valid document in any advertising media or as evidence in any Court of law without the written permission from the laboratory.
4. Samples shall be destroyed after 1 week from date of issue of report, or as per standards.

FORMAT No. UL-EX-F.17
REVISION No.: 01

Credentials

Ultratec Research & Analytik Labs (ultratéclabs) is an environmental laboratory. The laboratory was incepted on March 1, 2007.

The laboratory sought Consent from Haryana State Pollution Control Board, which was exempted it vide their letter No. HSPCB/GR/2010/14436 Dated 15/03/2010.

ultratéclabs got the first accreditation from NABL vide certificate No. T-2441 in 12.02.2013. The current NABL accreditation is valid vide certificate No. TC-6744 Dated 12/01/2018.

ISO 9001: 2015 certified vide certificate No. 17IQAE26 Dated 16.05.2017.

The laboratory offers environmental monitoring & analytical services in respect of ambient air quality, stack emissions, water quality, soil quality, noise level, used oil and solid wastes. The above services are useful to meet compliance requirements of the MoEF&CC, Central and State Pollution Control Boards and Central Ground Water Board.



**National Accreditation Board for
Testing and Calibration Laboratories**

(A Constituent Board of Quality Council of India)



CERTIFICATE OF ACCREDITATION

ULTRATEC RESEARCH & ANALYTIK LABS

has been assessed and accredited in accordance with the standard

ISO/IEC 17025:2005

"General Requirements for the Competence of Testing & Calibration Laboratories"

for its facilities at

115, Daulatabad Road Industrial Area, Sector-104,
Gurgaon, Haryana

in the field of

TESTING

Certificate Number TC-6744

Issue Date 12/01/2018

Valid Until 11/01/2020

This certificate remains valid for the Scope of Accreditation as specified in the annexure subject to continued satisfactory compliance to the above standard & the relevant requirements of NABL.

(To see the scope of accreditation of this laboratory, you may also visit NABL website www.nabl-india.org)

Signed for and on behalf of NABL

N. Venkateswaran
Program Director



89076970100030000869

Anil Relia
Chief Executive Officer

Certificate of Registration

This is to Certify That The
Quality Management System of

ULTRATEC RESEARCH & ANALYTIK LABS

PLOT NO. 115, NEAR SHIVOM ENTERPRISES,
DAULATABAD ROAD, INDUSTRIAL AREA,
SECTOR - 104, GURGAON - 122006, INDIA.

has been assessed and found to conform
to the requirements of

ISO 9001:2015

for the following scope :

PROVIDING CONSULTANCY SERVICES LIKE WATER
RESOURCES MANAGEMENT, RAIN WATER HARVESTING,
LEGAL COMPLIANCE ADVISORY SERVICES, ENVIRONMENTAL
AUDIT, WATER AUDIT, WASTE AUDIT, ENVIRONMENTAL
LABORATORY SERVICES BY ULTRATEC RESEARCH &
ANALYTIK LABS, ENVIRONMENTAL TRAINING AND
MEDIA SERVICES.

Certificate No	17IQAE26	
Initial Registration Date	: 16/05/2017	Issuance Date : 16/05/2017
Date of Expiry*	: 15/05/2020	
1st Surve. Due	: 16/04/2018	2nd Surve. Due : 16/04/2019

DIRECTOR



ROHS Certification Pvt. Ltd.



+08, Madhuban Building, 55, Nehru Place, New Delhi - 110 019, India | +91 11 41525522 | e-mail: info@rohs-certification.co.in, www.rohs-certification.co.in
The Registration is not a Product Quality Certificate *Subject to successful completion of surveillance audits Visit for verification on www.rohs-certification.co.in
Certificate is the property of ROHS and returns when demanded



Regional Office

Haryana State Pollution Control Board

Vikas Sadan, Opposite- New Court, Gurgaon

No. HSPCB/GR/2010/ 14436

Dated 15/3 / 2010

To

M/s Ultratec Research & Analytik Labs.
Khasra No. 5564/195-198, 1st Floor, Near Shivom Enterprises,
Industrial Area, Daultabad Road, Gurgaon

Sub: Clarification of your case w.r.t. Pollution angle Consequent upon the issuance of Notification No. HSPCB/2009/Policy/100 dated 01-01-2009 & delegation of powers to grant consent to operate vide Endst. No. HPSCB/PA/MS/ 2008/228-237 dated 31-12-2008.

Ref. No.: Your application.

Kindly refer to the subject noted above, it is intimated that application of your unit received in the Board, as per your application unit has proposed for Monitoring & Analytical Services for Water, Waste Water, Ambient & Work Zone Air, Stack Emissions, Soil, Solid Wastes, Noise Level, Oil & Used Oil, there will be discharge of 2 KLD trade effluent and no emission of Air pollutants in the atmosphere except the D.G. Set.

Consequent upon the issuance of Notification No. HSPCB/2009/Policy/100 dated 01-01-2009 & delegation of powers to grant consent to operate vide Endst. No. HPSCB/PA/MS/ 2008/228-237 dated 31-12-2008, your unit falls under the Case – IV category of the said notification, so, you need not to obtain consent to operate. However, your project/industry/unit shall be expected to adhere to the prescribed standards notified under the Water Act & the Air Act. Presently, as per the application submitted by you, the water discharge is 0.5 KLD for domestic & 2 KLD for trade effluent. As and when your unit exceeds the water consumption in excess of 25 KLD or more in future at any time, you will have to obtain the necessary NOC/Consent from the Board, also, you will inform to the Board in advance in case of any change in manufacturing process otherwise this clarification/exemption will be deemed automatically revoked/cancelled without any further notice & time and due action under section 33-A of Water Act, 1974 & under section 31-A of Air Act, 1981 will be taken against your unit.

Specific Conditions:-

1. That the unit will seek the NOC/Consent in case unit change its process & will inform to the board in advance otherwise this exemption will be automatically revoked/cancelled without further notice.
2. That the unit will provide air pollution control measure for Nox and SO2 emissions from DG set.
3. That the unit will comply all the Hazardous Waste Management Rules and E-Waste Rules.
4. That the unit will use low sulphur fuel for DG set.
5. That the unit will take all other clearances from concerned agencies whenever required.
6. That the unit will comply with all the environmental laws/ rules/ notifications issued by GOI/ State Govt. /HSPCB from time to time.
7. That the unit will not use/process any ozone depleting substances (ODS).
8. That the unit will install ETP before starting of polluting process.
9. That the unit will obtain clearance from Forest Department & other concerned authorities, if land of project is falls under section 4 & 5 of PLPA, 1900.
10. That if the land of the unit falls under section 4 & 5 of PLPA, 1900 & is within 500 meters from Aravali Plantation then exemption so granted will deemed to be cancelled.
11. That the Exemption so granted is without prejudice to the action to be taken in respect of such past violations, if any.


Regional Officer
Gurgaon Region

Endst. No.: HSPCB/GR/2010/

Dated:

A copy of above is forwarded to the Chairman, Haryana State Pollution Control Board, Gurgaon for kind information and further necessary action.

Annexure A2

1) Form -10

*2) Agreement for Disposal
of used Oil*

*3) Annual Return regarding
Hazardous Waste (Form 4)
FY 2017-18*

*4) E-Waste Disposal
Record*

*5) Month-wise Bio-Medical
Waste (BMW) Data for the
period 01.04.2018 to
30.03.2018 and renewed
Agreement for BMW
Management*

*6) Agreement for Solid
Waste Management*

FORM - 10

See Rule 19 (1)

Manifest for Hazardous and other waste

1. Sender's Name & Mailing Address (Including Phone No. & e-mail)		2. Sender's Authorization No.	3. Manifest Document No.
Artemis Hospitals Artemis Medicare Services Ltd. Sector-51, Gurgaon (Haryana)			0203 0206
4. Transporter's Name & Mailing Address (Including Phone No. & e-mail)		5. Type of Vehicle	6. Transporter's Registration No.
MAHAVIRA UDYOG 5/11, Mile Stone, Vill. & P.O. Baniyani Bhiwani Road, Distt. Rohtak, HARYANA Mob.: 9811182507, 9711707080 E-mail : mahaviraundyog2003@yahoo .com ksrawat1965@gmail.com		Truck	115/2015-16/RCRR/Waste Oil/ HSPCB Orange
Receiver's Name & Mailing Address (Including Phone No. & e-mail)		7. Vehicle Registration No.	9. Receiver's Registration No.
MAHAVIRA UDYOG 5/11, Mile Stone, Vill. & P.O. Baniyani Bhiwani Road, Distt. Rohtak, HARYANA Mob.: 981118250, 9711707080 E-mail : mahaviraundyog2003@yahoo .com ksrawat1965@gmail.com			DLIL-K 7427
10. Waste Description		12. Physical Form	
Used / waste oil		Solid YES Tarry	
11. Total Quantity of Waste		M3 or MT	Semi-Solid Slurry
(2 Dr) = 39altr			Sludge Liquid
No. of Containers		Nos.	Oily <input checked="" type="checkbox"/>
01			

13. Special Handling Instruction & Additional Information : Use Personal Protection Equipments while Handling

14. Waste Category No. 5.1

15. SENDER'S CERTIFICATE : I hereby declares that contents of the consiment are fully and accurately described above by proper shipping name and are categorized packed, marked and labeled and are in all respect in proper condition for transport by road according to applicable national government regulation.

Type, Name & Stamp of Unit *Artemis*

Signature with Designation with Rubber Stamp

Month	Day	Year
07	12	18

15. Transport's Acknowledgement of Receipt of Material *Used oil*

Type, Name & Stamp of Transporter

Signature with Designation with Rubber Stamp

Month	Day	Year
07	12	18

16. Receiver's Certification for Receipt of Hazardous Waste *Used oil*

Signature with Designation with Rubber Stamp

Month	Day	Year
07	12	18

- White Form forwarded by the sender to SPCB
- Yellow Form retained by sender after taking sign from transporter
- Pink Form retained by receiver
- Orange Form handed over to transporter after accepting waste
- Green Form sent by receiver to SPCB
- Blue Form sent by the receiver to the sender
- Grey Form sent by the receiver to the SPCB of the sender in case the sender is in another State

AGREEMENT FOR SAFELY DISPOSAL OF HAZARDOUS WASTE (USED LUBE OIL)

This agreement is made and executed at Gurugram on 30th January, 2018:

By and Between

M/s Artemis Medicare Services Limited, a company incorporated under the Companies Act 1956 and having its registered office at Plot No. 14, Sector-20, Dwarka, New Delhi - 110075 (hereinafter referred to as "First Party"), having its various sites as detailed in **Annexure-A**, [which expression shall unless repugnant to the context or meaning hereof mean and include its representative, successors in interest, executors, administrators, liquidators and permitted assigns], through its duly Authorized Signatory Mr. Navneet Goel, Head - Legal & Company Secretary of the one part;

AND

M/s Mahavira Udyog, a Partnership firm having its office at 2/53B, 1st Floor, North Avenue Road, Laxmi Market, Shivaji Park, Punjabi Bagh, New Delhi - 110026 (hereinafter referred to as the "Second Party"), [which expression shall, unless repugnant to the context or meaning hereof, mean and include its representatives, successors in interest, executors, administrators, liquidators and permitted assigns], through its duly Authorized Signatory Mr. K.S. Rawat, Plant Manager of the other part;

(The above mentioned Parties to this agreement shall also be collectively referred to as "Parties" and individually as "Party").

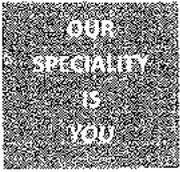
AND WHEREAS the Second Party has represented that they are authorized, registered and licensed by Haryana State Pollution Control Board vide Registration No. 115/2015-16/RCRR/Waste Oil/HSPCB/Orange dated 18.08.2015 valid from 14.08.2015 upto 13.08.2020, to safely dispose generated waste lube oil. Second Party has requested to purchase the Used Lube Oil from the First Party. First Party has accepted the request of Second Party on the terms and conditions set forth in this agreement.

AND WHEREAS it is deemed expedient to record the terms and conditions between the parties in this Agreement.

NOW THIS AGREEMENT WITNESSETH AND IT IS HEREBY AGREED, DECLARED COVENANTED AND RECORDED BY AND BETWEEN THE PARTIES HERETO AS FOLLOWS:

1. That the First Party has agreed to engage Second Party on terms and conditions contained hereinafter for selling/disposing off used lube oil to Second Party.
2. That Second Party will purchase the used lube oil from First Party on the sites mentioned in **Annexure-A**, at rates mentioned in this agreement. Further, the First Party shall dispose off and the Second Party shall purchase used lube oil from the First Party atleast once in every three (3) months irrespective of the quantity.
3. That Second Party shall use its best skills and judgments and shall perform all services timely, diligently and to the reasonable satisfaction of the First Party as a whole.





4. That the Second Party shall provide the services in conformity with the applicable laws and regulations. Second Party shall carry out the services under the supervision of employees of First Party.
5. That the services to be provided by the Second Party are narrated in this agreement. However, it is expressly understood between the parties that scope of work is only indicative and not an exhaustive list of the services to be provided by Second Party and the First Party will be entitled to add more services in the scope of work.
6. That Second Party undertakes to fulfill all the formalities and requirements of Government of India, Ministry of Environment and Forests, CPCB, HSPCB and other authorities.
7. That the Second Party will be responsible for collection of used lube oil at its own cost & logistics, at price indicated against each item hereunder.

➤ **SCOPE OF WORK:**

8. The Second Party shall ensure that the people handling hazardous waste have adequate training and knowledge related to hazardous waste being handled.
9. The Second Party shall ensure that the vehicle used for transportation of hazardous waste is in perfect condition and the driver has valid driving license and other necessary permissions and papers. If any transport agency is approved by State Pollution Control Board, then vehicle will be arranged from such transporting agency only.
10. That the Second Party will ensure that before loading all hazardous waste on the vehicle, containers are labeled (as per form-12 of the rule).

➤ **REPRESENTATIONS & WARRANTIES BY SECOND PARTY**

11. That the Second Party represents that they have the required specialization and are duly licensed from the appropriate authority to handle Hazardous Waste, used lube oil and have permissions under Applicable Rules i.e. Hazardous Waste (Management and Handling) Rules, 1989 and Hazardous Waste (Management, Handling & Transboundary Movement) Rules, 2008, as amended up till date.
12. That the Second Party will ensure that the hazardous waste will be loaded, stored and copy of TIRM card (as per Form-11 of the above mentioned Rules) be given. In case of any doubt, concerned First Party's Officials may be asked for the clarification.
13. Copy of Registration Certificate-cum-Pass Book of Second Party from Haryana State Pollution Control Board is attached by the Second Party, with this agreement as **Annexure-B**.
14. That the Second Party will be responsible for complying all required statutory compliances under various Acts & Rules.
15. That the First Party will be provided 6 copies of manifest from the Second Party as per Form 13 of the above mentioned rules.
 - Copy-1 (White): Copy 1 will be forwarded to SPCB/PCC by First Party.
 - Copy-2 (Yellow): Copy 2 will be retained by First Party.
 - Copy-3 (Pink): Copy 3 will be returned by the First Party to Second Party.
 - Copy-4 (Orange): Copy 4 will be returned to the transporter after accepting waste.





- Copy-5 (Green): Copy 5 will be forwarded to Pollution Control Board after disposal.
- Copy-6 (Blue): Copy 6 will be returned to Second Party after safe disposal.

16. That the Second Party undertakes to indemnify and keep indemnified the First Party in case of any misuse, mishandling, pilferage or spill over of the hazardous waste by the Second Party, its employees, agents and / or any authorized person thereof resulting in any penalty, liability and damages under any rule, regulation, act, notification, imposed by the authority concerned.

➤ **PAYMENT TERMS**

17. The respective rates for used lube oil, payable by Second Party shall be as follows :-

S. No.	Description	UOM	Unit Rates
1.	Used Lube Oil (with drum of 200 Litres)	Drum (200 Litres)	<ul style="list-style-type: none"> • NIL if quantity is less than three (3) Drums per pick-up • Rs. 3,500/- per Drum if quantity is three (3) Drums or more per pick-up

- Rate mentioned above is inclusive of all taxes, excise duties, sales taxes, wherever applicable.
- All Payments will be made by Second Party in advance through Demand Draft.
- The transportation and any other expenses to be incurred for used lube oil collection will be borne by Second Party.
- First Party reserves the right to review the rates of the used lube oil on periodic basis at its own discretion.

➤ **DURATION OF AGREEMENT**

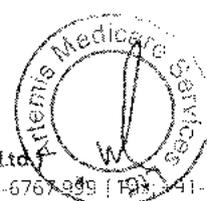
18. This agreement shall be affective for a period of one year commencing from **1st February, 2018** to **31st July, 2020**.

➤ **TERMINATION**

- Either party may terminate this Agreement at any time for convenience by giving 30 (Thirty) days prior written notice of termination to the other.
- By the First Party in case of any complaint in services of Second Party and the Complaint is not resolved within 7 days of the intimation of the complaint.
- By the First Party from immediate effect in case of Non-Compliance of statutory rules & regulations by the Second Party after the waste being handed over to the First Party.

➤ **APPLICABLE LAWS AND JURISDICTION**

22. This agreement shall be subject to and construed in accordance with the laws of India and the Parties hereby submits to the exclusive jurisdiction of the Courts/Tribunals at Gurugram, Haryana for all matters arising out of or in connection with this agreement.



➤ NOTICE

23. All notices, requests, demands and other communications required/permitted to be given under this Agreement shall be in writing and delivered by hand against receipt, or sent by registered post at the following address, unless the same have been changed by the concerned Party by intimation to the other Party.

FIRST PARTY	SECOND PARTY
Artemis Medicare Services Ltd., Artemis Hospital, Sector-51, Gurugram - 122001, Haryana.	Mahavira Udyog 2/53B, 1 st Floor, North Avenue Road, Laxmi Market, Shivaji Park, Punjabi Bagh, New Delhi - 110026.

➤ RELATIONSHIP OF PARTIES

24. This agreement has been entered in between First Party and Second Party on 'Principal' to 'Principal' basis and Second Party shall not be construed or be entitled to represent itself as the 'agent' of First Party.

➤ MISCELLANEOUS

25. This agreement is not assignable by either party to any other person.
26. This Agreement including the annexure thereof constitutes the entire agreement of the Parties with respect to the subject matter hereof and supersedes all negotiations, prior discussions and prior agreements and memorandum of understanding, whether oral or written, related to such subject matter.
27. This agreement can be amended with mutual consent of the parties and such amendment shall be agreed only in writing.

IN WITNESS WHEREOF, THE PARTIES HERETO HAVE SET THEIR HANDS AND SEAL ON THE DATE, DAY AND YEAR FIRST ABOVE WRITTEN.

For Artemis Medicare Services Limited

Name Of Person: Mr. Navneet Goel
Designation: Head - Legal & Company Secretary

For Mahavira Udyog

Name Of Person: Mr. K.S. Rawat
Designation: Plant Manager

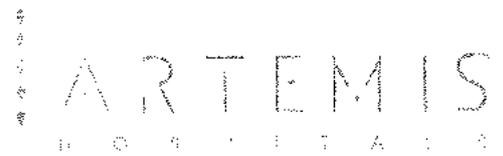
Witnesses:

1. Name:

2. Name:



www.artemishospitals.com



Annexure-A

ADDRESS OF SITES:

S. No.	Name & Address
1.	Artemis Hospital Sector - 51, Gurugram - 122001 (Haryana)



Artemis Hospital (A unit of Artemis Medicare Services Ltd.)

Address: Sector 51, Gurugram - 122001, Haryana, India. Ph: +91-124-6767 999 | Fax: +91-124-6767 701 | Emergency & Trauma: +91-124-6767 000

Registered Office: Plot No. 17, Sector 29, Dwarka, New Delhi - 110075 | Corporate Office: Artemis Hospital, Sector 51, Gurugram 122001, Haryana, India |

CIN: U85110D2004PLC126414 | GST: 06AAFCAG130M121(HR), 07AAFCAG130M122(DEL) | TAN: DELA16048E | PAN: AAFCAG130M | Email: info@artemishospitals.com

Half Yearly Compliance Report: Artemis Hospitals, Sector-51, Gurgaon (Period:01.04.2018-30.09.2018) Page 52 of 107. ***



Annexure-B

Registration Certificate-cum-Pass Book for re-refining/Recycling of Hazardous Wastes

Name and Address : M/s. Mahama Udyog
 of the Industry : Banigruhi Bhiwani Road
Rohini
 Telephone/Fax No. : 981182507
 E-mail Address : mahamaudyog@yahoo.com
 Registration No : 115/2015-16/R.R./Waste oil/PSK.C. charge
 Date of Issue : 14/8/2015 to 13/8/2020
 Validity Period : 14/8/2015 to 13/8/2020

Type & quantity of the Hazardous Waste (s) Permitted for procurement and re-refining/recycling :

Sr. No.	Hazardous Wastes (Used / Waste Oil) Type	Quantity (Kilolitres Per Annum)
1.	used oil/ waste oil	5000 L/ Annam

[Signature]
 Authorised Signatory &
 Register Control Seal
 Section-3

Haryana State Pollution Control Board
 Gurgaon



To

Dated 09.04.2018

The Honorable Regional Officer

Haryana State Pollution Control Board

Vikas Sadan (Gurugram)

Sub: Submission of Annual return of Hazardous material of FY 2017-18

Respected sir,

With the Reference to above mentioned subject, Kindly find the enclosed documents for your perusal.

Thanking You

(Authorized Signatory)


Enclosure.

1. Form 4
2. Form 10 (Original)
3. Form 11 (Original)

9
10-4-18

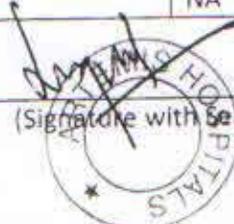
H.S.P.C.B.
GRN

Form - 4
[See rule 5(6) and 22(2)]

FORM FOR FILING ANNUAL RETURNS BY THE OCCUPIER
[Period: 17-18]

1.	Name and address of the generator	Artemis Medicare Services Ltd. sec-51, Gurgaon, Haryana	
2.	Name of Authorized Person and full address with telephone and fax numbers	Joginder pal, Artemis Medicare services ltd , Sec-51, Gurgaon, Haryana. Tel-0124-6767999, FAX 0124-6767701, Mobile-9716837037	
3.	Description of Hazardous Waste	Physical form with description	Chemical Form
		Liquid	Oily
4.	Quantity of Hazardous Waste (in MTA)	Type of Hazardous Wastes	Quantity in Ton or KL
		Used Lube Oil	635 Ltr
5.	Description of Storage	Oil drums	
6.	Description of Treatment	NA	
7.	Details of Transportation	DL 1L J 2709,-DL 1L P 4951	
8.	Details of Disposal of Hazardous Wastes	to Authorized vendor	
9.	Quantity of useful materials sent back to the manufacturers and others	Name & type of materials sent back	Quantity in Ton/KL
		Manufacturers	NA
		Others	NA

(Signature with seal)



Place: Gurgaon
Date: 09.04.2018

Artemis Hospitals, Sector-51, Gurgaon
Monthwise Bio-Medical Waste Generation and Disposal Data

Period: 01/04/2018 - 30/09/2018

Month, Year	CYTOTOXIC Yellow	YELLOW	RED	WHITE	BLUE	Total
April, 2018	199.41	5284.33	8279.399	305.35	1410.32	15479
May, 2018	253.99	5629.71	9510.3	332.46	1487.58	17214
June, 2018	102.17	4680.31	8271.37	296.65	1344.06	14695
July, 2018	120.49	5516.72	8675.87	314.42	1485.74	16113
August, 2018	85.79	5371.16	10268.97	307.07	1454.22	17487
September, 2018	78.51	5263.17	9770.8	310.51	1717.51	17141

All quantity in Kg



हरियाणा HARYANA

T 968907

SERVICE AGREEMENT

This **SERVICE AGREEMENT** (hereinafter referred to as "Agreement") is made and executed at Gurgaon on this 28th day of May, 2018 by and between:

M/s **Vulcan Waste Management Private Limited**, a Company registered under the provisions of the Companies Act, 1956, having PAN: AADCV1049G and having its treatment facility at Plot No.725, Pace City-II, Sec.37 Gurugram, Haryana and its Registered office at 1046, Sector-31, Gurugram, Haryana, acting through its authorized representative, Mr. Anup Yadav, Marketing Manager (hereinafter referred to as "**Vulcan**") which expression shall, unless contrary to and/or repugnant to the context mean and include its successors, representatives and permitted assigns) of the **First Part**;

AND

M/s **Artemis Medicare Services Limited**, a Company registered under the provisions of the Companies Act, 1956, having PAN: AAFCA0130M and having its registered office at Plot No. 14, Sector-20, Dwarka, New Delhi - 110075, acting through its authorized representative Mr. Navneet Goel, Head - Legal & Company Secretary (hereinafter referred to as "**Artemis**") which expression shall, unless contrary to and / or repugnant to the context mean and include its successors, representatives and permitted assigns) of the **Second Part**.

[**Vulcan** and **Artemis** shall herein wherever the context may so require be collectively referred to as "**Parties**" and individually as a "**Party**"]



Navneet Goel



WHEREAS:

- a) Vulcan has been authorized by the Haryana State Pollution Control Board (HSPCB) vide **Authorisation Letter No.: BMW18GUSO5185039 dated 27th March 2018** under Bio-Medical Waste (Management & Handling) Rules, 1998 (BMW) Rules as amended, for operation of a common facility for the Collection, Reception, Treatment, Storage, Transportation and Disposal of Bio-Medical Waste in Haryana and the Authorisation is valid up till **30th September 2022**.
- b) Artemis is engaged in the business of providing medical & patient care services through its hospital as listed in **Annexure-A** (hereinafter referred as "Premises").
- c) Artemis in compliance of the Bio-Medical Waste Management Rules, 2016/Bio-medical Waste (Management & Handling) Rules, 1998, has desired to avail the services of Vulcan for disposal of its Bio-Medical Waste (except liquid bio-medical waste).

NOW THIS AGREEMENT witness the following terms & conditions to be performed by both the parties to the agreement:

1. Interpretation

In this Agreement, unless the context or subject matter otherwise requires:

- a) The singular includes the plural and vice versa;
- b) Words importing one gender include the other gender and words importing persons include corporations and unincorporated bodies of persons and vice-versa;
- c) References to Clauses, Schedules and Appendices are references to clauses, schedules and appendices of this Agreement;
- d) References to agreements and deeds include all renewals, extensions and amendments thereof;
- e) The headings to this Agreement are inserted for ease of reference only and shall not affect the interpretation or construction thereof; and
- f) Any reference to a statutory provision includes that provision as from time-to-time modified or amended or re-enacted so far as such modification or re-enactment applies or is capable of applying to this Agreement.

2. Scope of Services

Artemis will arrange collection, and ensure proper segregation of Bio-medical Waste generated from its various department/wards, as per Bio-Medical Waste Management Rules, 2016/Bio-medical Waste (Management & Handling) Rules, 1998, from its Premises. Vulcan will arrange for transportation, treatment and disposal of Bio-Medical Waste handed over by Artemis as per terms and conditions mentioned in HSPCB Authorization, attached as **Annexure-C**.

3. Responsibilities and Duties of Artemis

- a) Artemis will ensure that all the Bio Medical Waste i.e. incinerable and autoclavable waste (including plastic waste) is handed over to Vulcan. All infected material including culture plates, laboratory sample (autoclavable) shall be segregated in yellow bags at user level and given to Vulcan. A policy document shall be made by Vulcan which will prescribe in detail the procedural policies employed by Vulcan for the final disposal (incineration, autoclaving, shredding) of waste from the various bags.
- b) Artemis will pack the segregated Bio-Medical as per rules, at the collection end point, in Colour Coded Bags, Label the said bags as per the Bio-Medical Waste Management Rules, 2016/Bio-medical Waste (Management & Handling) Rules, 1998 and keep them ready for collection by Vulcan's collection staff twice a day during 6 a.m. to 10 p.m. or any other time which may be mutually agreed upon.



Reena v Pinan



f) No waiver of any breach of any provision of this Agreement shall constitute a waiver of any prior, concurrent or subsequent breach of the same of any other provisions hereof, and no waiver shall be effective unless made in writing and signed by an authorized representative of the waiving Party.

IN WITNESS WHEREOF, THE PARTIES HERETO HAVE SET THEIR HANDS AND SEAL ON THE DAY AND YEAR FIRST ABOVE WRITTEN

For Artemis Medicare Services Limited



By: Mr. Navneet Goel
(Head – Legal & Company Secretary)

For Vulcan Waste Management Private Limited

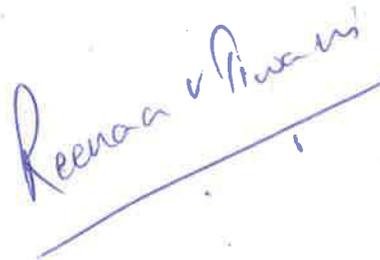


By: Mr. Anup Yadav
(Marketing Manager)

Witnesses:

1.

2.



LIST OF LOCATIONS

1. Artemis Hospital
Sector-51,
Gurugram – 122001 (Haryana)



Renoo v. Sivani



MONTHLY SERVICE CHARGES

S. No.	Locations	Monthly Service Charge for Bio-Medical Waste Pick-Up & Disposal
01	Artemis Hospital Sector-51, Gurugram (Haryana)	Rs. 2,50,000/- (Rupees Two Lakh Fifty Thousand) upto 12,000 Kg per month
		Rs. 22/- (Rupees Twenty Two) per Kg beyond 12,000 Kg

Note:

Above service charge is exclusive of the Goods & Service Tax and other related cess & levies.



Reena v Misra



Bond



Indian-Non Judicial Stamp
Haryana Government



Date : 31/03/2018

Certificate No. GF312018C30



Stamp Duty Paid : ₹ 101

GRN No. 34331378



(Rs. Only)

Penalty : ₹ 0

(Rs. Zero Only)

Deponent

Name : Anup Bhati

H.No/Floor : Nil

Sector/Ward : 59

Landmark : Nil

City/Village : Behrampur

District : Gurugram

State : Haryana

Phone : 9999434533



Purpose : Rent Agreement to be submitted at Concerned office

The authenticity of this document can be verified by scanning this QrCode Through smart phone or on the website <https://egrashry.nic.in>

SERVICE AGREEMENT

This Service Agreement (hereinafter referred to as "Agreement") is made and executed at Gurugram on this 2nd day of April, 2018 by and between:

M/s A.B. Enterprises, a proprietorship firm having PAN: DOIPK9925R and having its place of business at F-063, Sushant Lok – III, Sector-56, Gurugram, Haryana acting through Mr. Anoop Kumar, Proprietor (hereinafter referred to as "**Vendor**" which expression shall, unless contrary to and/or repugnant to the context mean and include it's successors, representatives and permitted assigns) of the **First Part**;

AND

M/s Artemis Medicare Services Limited, a Company registered under the provisions of the Companies Act, 1956, having PAN: AAFCA0130M and having its registered office at Plot No. 14, Sector-20, Dwarka, New Delhi – 110075 and corporate office at Artemis Hospital, Sector-51, Gurugram – 122001, Haryana, acting through its authorized representative, Mr. Navneet Goel, Head-Legal & Company Secretary (hereinafter referred to as "**Artemis**" which expression shall, unless contrary to and / or repugnant to the context mean and include it's successors, representatives and permitted assigns) of the **Second Part**.

[Vendor and Artemis shall herein wherever the context may so require be collectively referred to as "Parties" and individually as a "Party"]



Anoop

Navneet Goel

WHEREAS:

- a) Vendor is engaged in the business of operation of a common facility for the Collection, Transportation and Disposal of General Waste in Haryana.
- b) Artemis is engaged in the business of providing medical & patient care services through its tertiary care super specialty hospital in name of 'Artemis Hospital' at Sector-51, Gurugram – 122001, Haryana (hereinafter referred to as "Premises").
- c) Artemis has desired to avail the services of Vendor for collection, transportation and disposal of the General Waste generated from its Premises.

NOW THIS AGREEMENT witness the following terms & conditions to be performed by both the parties to the Agreement:

1. Definition

"General Waste" means material from businesses and households that cannot be recycled and does not pose an immediate hazard or threat to health or to the environment. It includes materials such as non-recyclable plastics, polythene, some packaging, kitchen scraps & leftovers, etc.

2. Interpretation

In this Agreement, unless the context or subject matter otherwise requires:

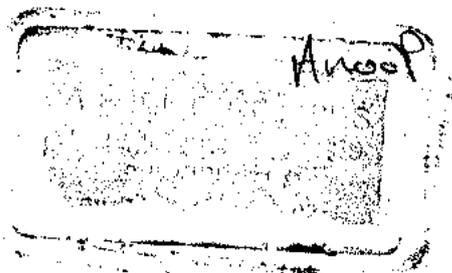
- a) The singular includes the plural and vice versa;
- b) Words importing one gender include the other gender and words importing persons include corporations and unincorporated bodies of persons and vice-versa;
- c) References to Clauses, Schedules and Appendices are references to clauses, schedules and appendices of this Agreement;
- d) References to agreements and deeds include all renewals, extensions and amendments thereof;
- e) The headings to this Agreement are inserted for ease of reference only and shall not affect the interpretation or construction thereof; and
- f) Any reference to a statutory provision includes that provision as from time-to-time modified or amended or re-enacted so far as such modification or re-enactment applies or is capable of applying to this Agreement.

3. Scope of Services

Vendor will arrange for transportation, collection and disposal of General Waste handed over by Artemis generated from its Premises.

4. Responsibilities and Duties of Artemis

- a) Artemis will ensure that all the General Waste is handed over to Vendor. All General Waste shall be segregated in black bags at user level and given to Vendor.
- b) Artemis will pack the segregated General Waste, at the collection end point, in black colour Bags and keep them ready for collection by Vendor's collection staff during 6 a.m. to 10 p.m. or any other time which may be mutually agreed upon.
- c) Artemis will itself arrange for all bags to be used for internal segregation & for their end point purposes.
- d) Artemis's responsibility will cease once the segregated general waste, duly packed, labeled and signed, has been handed over to Vendor.



Artemis Medicare Services Ltd.

5. Responsibilities and Duties of Vendor

- a) General Waste will be collected on daily basis (7 days a week) by Vendor and the transport vehicle used by Vendor shall be covered and there should be no spillage of General Waste while transportation.
- b) Vendor will require Artemis's staff/representative to sign its daily Waste Collection Sheet in acknowledgement of General Waste handed over. Vendor's staff will sign the Record Book to be maintained by Artemis in acknowledgement of waste collected.
- c) Vendor will provide I.D cards and dress to its personnel/staff who will be coming to Artemis Premises for collection of General Waste.
- d) Vendor shall ensure proper cleaning of the waste disposal area in the Premises after loading the General Waste in the vehicle.
- e) A policy document shall be made by Vendor which will prescribe in detail the procedural policies employed by Vendor for the final disposal of waste from the bags.
- f) Vendor, and not Artemis, will bear the full responsibility and liability for the transportation and disposal of the General Waste.
- g) Vendor shall be solely responsible for any act, omission, misrepresentation or other unfair practices, done beyond the scope of this Agreement and/or which is not authorized by Artemis.
- h) Vendor shall be liable to always keep valid licenses and ensure due compliance of law as may be required by the Government authorities or of any quasi-government authority or any other authority in India or as applicable outside India, to provide the services under this Agreement.
- i) Vendor expressly agrees and undertakes that it shall not do or cause to be done any act whereby or by reason whereof the reputation and goodwill of Artemis is affected in any manner whatsoever.
- j) In case of any complaints/suit/other legal proceedings by any person/body against Artemis arising out of this Agreement, Vendor shall provide all possible assistance and co-operation to Artemis in defending said complaints/suit/other legal proceeding and timely submission of reply of the same and shall fully agree with the endeavor of Artemis in settling/defending the complaints.

6. Tenure

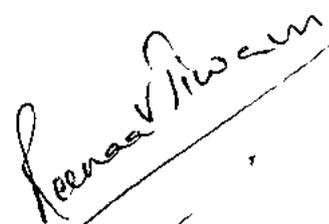
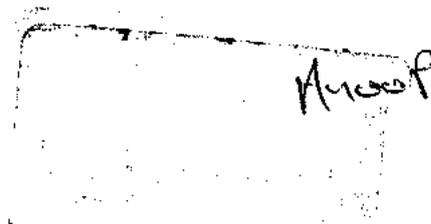
Subject to the termination clause mentioned hereinafter, this Agreement shall come into force with effect from 1st April, 2018 and shall remain in force till 31st March, 2019.

7. Payment Terms

- a) Towards this arrangement, Vendor shall pay to Artemis a monthly amount of Rs. 1,00,000/- (Rupees One Lakh Only) in advance by 7th day of the month.
- b) Vendor had already deposited an amount of Rs. 1,40,000/- (Rupees One Lakh Forty Thousand Only) to Artemis as an interest free security deposit pursuant to the previous Agreement dated 7th February, 2017. Now, Vendor further agrees to deposit an additional amount of Rs. 60,000/- (Rupees Sixty Thousand only) to make the total security deposit to Rs. 2,00,000/- (Rupees Two Lakh Only) for the tenure of this Agreement, which is equivalent to approximate 2 (two) month's amount, towards due adherence of terms and conditions of this Agreement, specifically towards Article 5 of this Agreement. Further, Vendor shall always make sure that if at any point of time security deposit falls below Rs. 2,00,000/- (Rupees Two Lakh Only) then the same shall be made good within 15 days.

8. Liability and Indemnity

It is specifically agreed and understood that compliance of any applicable law or statutory rules & regulations during transportation, collection and disposal of General Waste shall be the exclusive responsibility of Vendor. Vendor shall indemnify Artemis against all actions, losses (direct and



consequential), damages, costs (including legal costs on attorney), interest, charges, claims and proceedings whatsoever which Artemis may suffer or incur directly or indirectly in any way arising from breach of the clauses of this Agreement.

9. Termination

- a) Artemis may terminate this Agreement by giving 30 days prior written notice to the other party without any cause.
- b) In case of any complaint regarding services provided by Vendor and the complaint is not resolved within 15 days of reporting in writing by Artemis; Artemis shall have the right to terminate this Agreement by giving further 7 days written notice.
- c) In case any party commits a material breach of any provision of this Agreement and fails to remedy such breach (where capable of remedy) within 15 (fifteen) days of receipt of a notice from the innocent party specifying the breach, the other party can terminate this Agreement by giving 7 days written notice;
- d) Either of the Parties may (without prejudice to any other rights) forthwith terminate this Agreement by giving 30 days written notice to the other, if:
 - the other party becomes or is declared bankrupt or insolvent by a competent court of law or compounds with its creditors or shall have distress or execution levied upon its property or is wound-up or goes into liquidation (except for the purposes of a bona fide reconstruction) or shall have a receiver or administrator appointed for the whole or any part of its assets or shall suffer the appointment of any similar person under the laws of its domicile;
 - the exercise of the rights granted under this Clause shall not prejudice or affect any right of action or remedy which may have already accrued or may accrue thereafter to either party.
- e) In case the Force Majeure conditions (as specified elsewhere in the Agreement) continue to affect a Party beyond a period of 30 days, the other Party shall have the right to terminate this Agreement, forthwith, by giving notice in writing of 15 days of this effect to the other Party.

10. Representation & Warranties

Each party hereto represents and warrants to the other that it has full legal power and authority to carry on its business and to enter into this Agreement and perform all of its obligations hereunder.

11. Force Majeure

Either party shall not be liable for any delay in or failure to perform any of their respective obligations under or arising out of this Agreement if the delay or failure results from an Act of God, war, or any Government/statutory prohibition on providing services which renders it impossible for Vendor or Artemis to fulfill their obligations under this Agreement. It is clarified that failure to meet the requirements of any law, rule or regulation (including any executive direction) resulting in adverse consequences will not be considered an event of Force Majeure. In the same manner, any strike by the personnel of the party claiming benefits of Force Majeure will also be not considered an event of Force Majeure.

12. Applicable Laws & Jurisdiction

This Agreement shall be subject to and construed in accordance with the laws of India. Subject to Arbitration provisions as mentioned in this Agreement, the parties hereby submits to the exclusive jurisdiction of the Courts/Tribunals at Gurugram (Haryana) for all matters arising out of or in connection with this Agreement.

13. Dispute Resolution/Arbitration



Artemis Medicare Services Ltd.

In the event of any dispute between the parties concerning or relating to the interpretation or effect of any provisions thereof or relating to the liability or obligation on the part of any of the parties hereto, the same shall be settled mutually by and between the parties. However, if both the parties are unable to settle the same within 30 days, then Artemis shall have the power to appoint a sole arbitrator whose decision shall be valid and binding on both the parties. The powers and duties of the arbitrator shall be governed by the Arbitration and Conciliation Act, 1996. The place of arbitration shall be New Delhi and the arbitration proceedings shall be conducted in the English language.

14. Notice

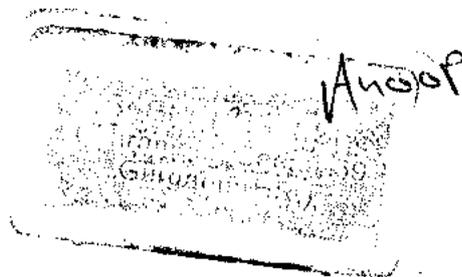
All notices, requests, demands and other communications required/permitted to be given under this Agreement shall be in writing and delivered by hand against receipt, or sent by registered post or by courier/e-mail at the following address, unless the same have been changed by the concerned party by intimation to the other party.

VENDOR	ARTEMIS
A.B. Enterprises F-063, Sushant Lok – III, Sector-56, Gurugram, Haryana E-mail: _____ Contact No.: 9999434533	Artemis Medicare Services Ltd. Artemis Hospital Sector-51, Gurugram – 122001, Haryana

Any such notice or communication shall be deemed to have been duly given and served at the date and time of (i) delivery if sent by registered post or delivered by hand; or (ii) either the date sent (if sent during the receiving party's normal business hours) or next succeeding business day, if sent by telefax.

15. Miscellaneous

- This Agreement is not assignable by either party to any other person.
- This Agreement including the annexure thereof constitutes the entire agreement of the parties with respect to the subject matter hereof and supersedes all negotiations, prior discussions and prior agreements and memorandum of understanding, whether oral or written, related to such subject matter.
- This Agreement is only on principal to principal basis and does not give rise to any principal and agent relationship or joint venture between the parties nothing stated in this arrangement will authorize or permit either party to represent or act as or plead any such relationship.
- If any provisions of this Agreement is invalid, unenforceable or prohibited by any law, this Agreement shall be considered divisible as to such provision and such provision shall be inoperative and shall not be part of the consideration moving from any party hereto to the others, and the remainder of this Agreement shall be valid, binding and of like effect as though such provision was not included herein.
- This Agreement can be amended with mutual consent of the parties and such amendment shall be agreed only in writing.
- No waiver of any breach of any provision of this Agreement shall constitute a waiver of any prior, concurrent or subsequent breach of the same of any other provisions hereof, and no waiver shall be effective unless made in writing and signed by an authorized representative of the waiving Party.

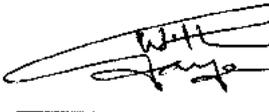
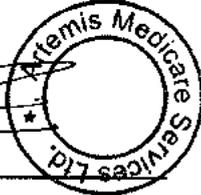


Reena Puri

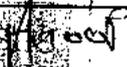
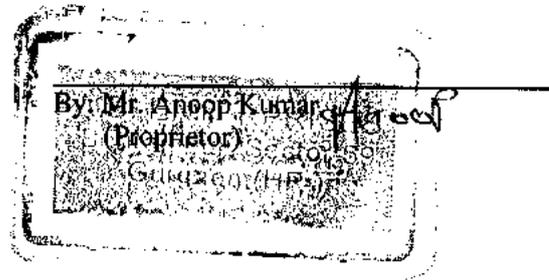
IN WITNESS WHEREOF, THE PARTIES HERETO HAVE SET THEIR HANDS AND SEAL ON THE DAY AND YEAR FIRST ABOVE WRITTEN

For Artemis Medicare Services Limited

For A.B. Enterprises

By: Mr. Navneet Goel
(Head – Legal & Company Secretary)

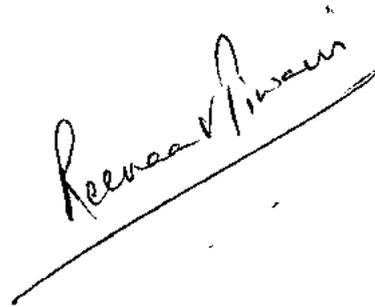



By: Mr. Anoop Kumar
(Proprietor)

Witnesses:

1.

2.



Annexure A3

1) Renewed Licence from PESO for storage of Diesel

2) Renewed Fire NOC

3) Permission for regular water supply connection

4) Bore well Approval

5) Occupation Certificate



भारत सरकार

Government of India

वाणिज्य और उद्योग मंत्रालय

Ministry of Commerce & Industry

पेट्रोलियम तथा विस्फोटक सुरक्षा संगठन (पैसो)

Petroleum & Explosives Safety Organisation (PESO)

हॉल संख्या 502 एवं 507, लेवल-5, ब्लॉक II, पुराना सी.जी.ओ. कॉम्प्लेक्स, एन.एच.4

फरीदाबाद-121001

Hall No. 502 & 507, Level 5, Block B, Old CGO Complex, NH-4,
Faridabad - 121001

E-mail : jtccefaridabad@explosives.gov.in

Phone/Fax No : 0129 - 2410734, 2410732

संख्या /No. : P/NC/HH/15/1312 (P184960)

दिनांक /Dated : 10/11/2016

सेवा में /To,

Artemis Medicare Services Pvt Ltd,
Apollo House 7 Institutional Area,
Sector-32,
Gurgaon,
District: GURGAON,
State: Haryana
PIN: 122001

17 NOV 2016

विषय /Sub : Plot No, NA, HOSPITAL SITE,, SECTOR-51, District: GURGAON, State: Haryana, PIN: 999999 में स्थित विद्यमान पेट्रोलियम वर्ग B अधिष्ठापन में अनुमति सं P/NC/HH/15/1312 (P184960) के नवीकरण के संदर्भ में ।
Existing Petroleum Class B Installation at Plot No, NA, HOSPITAL SITE,, SECTOR-51, District: GURGAON, State: Haryana, PIN: 999999 - Licence No. P/NC/HH/15/1312 (P184960) - Renewal regarding.

महोदय /Sir

(स)

कृपया आपके घर क्रमांक nil दिनांक 07/11/2016 का अवलोकन करें ।

Please refer to your letter No. : nil, dated 07/11/2016

अनुमति संख्या P/NC/HH/15/1312 (P184960) दिनांक 29/06/2009 को दिनांक 31/12/2019 तक नवीनीकृत कर इस धर के साथ अर्पित की जा रही है ।

Licence No. P/NC/HH/15/1312 (P184960) dated 29/06/2009 is forwarded herewith duly renewed upto 31/12/2019

2002 के अधीन बनाए गए नियम 148 में दी गई प्रक्रिया का कड़ाई से पालन करें । अनुमति के नवीकरण हेतु समस्त दस्तावेजों को अनुमति की वैधता समाप्त होने की तिथि से कम से कम 30 दिन पूर्व to Jt. Chief Controller of Explosives, North Circle, Faridabad, so as to reach his कार्यालय में प्रस्तुत करें ।

Please follow the procedure strictly as laid down in rule 148 of the Petroleum Rules, 2002 and submit complete documents for the Renewal of the licence to Jt. Chief Controller of Explosives, North Circle, Faridabad, so as to reach his office on or before the date on which Licence expires.

कृपया धारणी दें।

Please acknowledge the receipt.

भवदीय /Yours faithfully,

(आर.पी.सिंह)

(R.P.Singh)

संयुक्त मुख्य विस्फोटक नियंत्रक

Jt. Chief Controller of Explosives

फरीदाबाद

Faridabad

संयुक्त मुख्य विस्फोटक नियंत्रक

फरीदाबाद

(अधिक जानकारी जैसे आवेदन की स्थिति, शुल्क तथा अन्य विवरण के लिए हमारी वेबसाइट : <http://peso.gov.in>)
(For more information regarding status, fees and other details please visit our website: <http://peso.gov.in>)

5556

प्ररूप XV
(प्रथम अनुसूची का अनुच्छेद 6 देखिए)
FORM XV
(see Article 6 of the First Schedule)

अधिष्ठापनों में पेट्रोलियम के आयात और भंडारकरण के लिए अनुमति
LICENCE TO IMPORT AND STORE PETROLEUM IN AN INSTALLATION

अनुमति सं. (Licence No.) : P/NC/HN/15/1312(P184960)

फीस रूप (Fee Rs.) 1000/- per year

Artemis Medicare Services Pvt Ltd, Apollo House 7 Institutional Area, Sector-32, Gurgaon, District: GURGAON, State: Haryana, PIN: 122001 को केवल इसमें यथा विनिर्दिष्ट वर्ग और मात्रा में पेट्रोलियम 30.00 KL आयात करने के लिए और उसका, लीचे वर्णित और अनुमोदित नक्शा संख्या P/NC/HN/15/1312(P184960) तारीख 06/03/2013 जो कि इससे उपाबद्ध है, में दिखाए गए स्थान पर भण्डारकरण के लिए पेट्रोलियम अधिनियम, 1934 के उपबंधों या उसके अधीन बनाए गए नियमों तथा इस अनुमति की अतिरिक्त शर्तों के अधीन रहते हुए, यह अनुमति अनुदत्त की जाती है।

Licence is hereby granted to Artemis Medicare Services Pvt Ltd, Apollo House 7 Institutional Area, Sector-32, Gurgaon, District: GURGAON, State: Haryana, PIN: 122001 valid only for the importation and storage of 30.00 KL Petroleum of the class and quantities as herein specified and storage thereof in the place described below and shown on the approved plan No P/NC/HN/15/1312(P184960) dated 06/03/2013 attached hereto subject to the provisions of the Petroleum Act, 1934 and the rule made thereunder and to the further conditions of this Licence.

यह अनुमति 31st day of December 2019 तक प्रवृत्त रहेगी।
The Licence shall remain in force till the 31st day of December 2019

पेट्रोलियम का विवरण /Description of Petroleum	अनुमति मात्रा (किलोलीटरों में) /Quantity licenced in KL
वर्ग क प्रपुज पेट्रोलियम /Petroleum Class A in bulk	NIL
वर्ग क प्रपुज पेट्रोलियम से भिन्न /Petroleum Class A, otherwise than in bulk	NIL
वर्ग ख प्रपुज पेट्रोलियम /Petroleum Class B in bulk	30.00 KL
वर्ग ख प्रपुज पेट्रोलियम से भिन्न /Petroleum Class B, otherwise than in bulk	NIL
वर्ग ग प्रपुज पेट्रोलियम /Petroleum Class C in bulk	NIL
वर्ग ग प्रपुज पेट्रोलियम से भिन्न /Petroleum Class C, otherwise than in bulk	NIL
कुल क्षमता /Total Capacity	30.00 KL

March 23, 2007

sd/-
For Jt. Chief Controller of Explosives
NC, Faridabad

1) Amendment dated - 29/06/2009

अनुमति परिसरों का विवरण और अवस्थान
DESCRIPTION AND LOCATION OF THE LICENSED PREMISES

अनुमति परिसर जिसकी विन्यास सीमाएं अन्य विशिष्टताएं संलग्न अनुमोदित नक्शे में दिखाई गई हैं Plot No: NA, HOSPITAL SITE,, SECTOR-51, District: GURGAON, State: Haryana, PIN: 999999 स्थान पर अवस्थित है तथा उसमें निम्नलिखित AS PER THE APPROVED PLAN सम्मिलित हैं।

The licensed premises, the layout, boundaries and other particulars of which are shown in the attached approved plan are situated at Plot No: NA, HOSPITAL SITE,, SECTOR-51, District: GURGAON, State: Haryana, PIN: 999999 and consists of AS PER THE APPROVED PLAN together with connected facilities.

अनुमति संख्या-(Licence No.) P/NC/HN/15/1312 (P184960)

नवीनीकरण के पृष्ठानक के लिए स्थान
SPACE FOR ENDORSEMENT OF RENEWALS

पेट्रोलियम अधिनियम, 1934 के उपबन्धों या नवीकरण की तारीख समाप्ति की तारीख अनुज्ञापन प्राधिकारी के हस्ताक्षर और उनके अधीन बनाए गए नियमों या इस अनुमति की शर्तों का उल्लंघन न होने की दशा में यह अनुमति फिर से बिना किसी छूट के दस वर्ष तक नवीकृत की जा सकेगी।
 This licence shall be renewable without any concession in fee for ten years in the absence of contravention of any provisions of the Petroleum Act, 1934 or of the rules framed thereunder or of any of the conditions of this licence.

	Date of Renewal	Expiry of license	Signature and office stamp of the licencing authority.
1).	14/01/2008	31/12/2010	Sd/-
2).	31/12/2010	31/12/2013	Sd/- A.K.Srivastava
3).	23/01/2014	31/12/2016	Sd/- VINOD KUMAR Jt. Chief Controller of Explosives Faridabad
4).	10/11/2016	31/12/2019	R.P.Singh Jt. Chief Controller of Explosives Faridabad

संयुक्त मुख्य विस्फोटक नियंत्रक
 उत्तरी अंचल फरीदाबाद

यदि अनुमति परिसर इसमें उपाबद्ध विवरण और शर्तों के अनुरूप नहीं पाए जाते हैं और जिन नियमों और शर्तों के अधीन यह अनुमति मंजूर की गई है उनमें से किसी का उल्लंघन होने की दशा में यह अनुमति रद्द की जा सकती है और अनुमतिधारी प्रथम अपराध के लिए साधारण कारावास से, जो एक मास तक हो सकता है, या जुर्माने से, जो एक हजार रुपये तक हो सकता है, या दोनों से, और प्रत्येक पश्चातवर्ती अपराध के लिए साधारण कारावास से जो तीन मास तक हो सकता है, या जुर्माने से, जो पांच हजार रुपये तक हो सकता है, या दोनों से, दण्डनीय होगा।

This licence is liable to be cancelled if the licensed premises are not found conforming to the description given on the approved plan attached hereto and contravention of any of the rules and conditions under which this licence is granted and the holder of this licence is also punishable for the first offence with simple imprisonment which may be extend to one month, or with fine which may extend to one thousand rupees, or with both and for every subsequent offence with simple imprisonment which may extend to three months, or with fine which may extend to five thousand rupees or with both.

OFFICE OF THE EXECUTIVE ENGINEER, HSVP, DIV NO. III, GURUGRAM

To

M/S Artemis Hospital,
Sec-51, Gurugram.

Memo No. 498-99

Dated: 19/3/19

Sub:- Permission for regular water supply connection for Artemis Hospital an area land measuring 8.33 Acres land, Sec-51, Gurugram.

In this context, as per your application for water connection to above premises to connect your intake system of boosting /water works through 100mm i/d pipe line at one point mentioned in approved plan is hereby sanctioned subject to the following conditions:-

1. The connection will be given only from HSVP existing water supply line subject to availability of water in pipe line further intake and boosting arrangement will be made by the colonizer at their own expenses.
2. The connection is hereby authorized for supply of bulk water supply in UGT only and further arrangement for water supply to individual unit will be made by the colonizer at their own cost as per approved system.
3. The water bill will be raised by Sub Divisional Engineer, HSVP, Sub Div No. IX, Gurugram and firm will be whole responsible for the full payment regularly within stipulated period.
4. Installation of self recording electronic water meter and it's good performance will be the colonizer's responsibility. Total Rs 7,00,000/- (Rs 5,00,000/- as water connection security + Rs 2,00,000/- as water connection fees has been deposited vide demand draft No. 015321 dated 21.02.2018 from HDFC Bank.
5. Road cut fees will be deposited in future if required as per HSVP Bye laws.
6. The connection will be made by the colonizer at their own expenses without disturbing Master W/S system in presence of representative of HSVP Deptt. During making connection if any damage to HSVP service is occurred, the colonizer will be the whole responsible for repair of the same in good condition. If, the colonizer is failed to repair, repair shall be carried by the Deptt. and expenditure involved on this account shall be paid by the colonizer otherwise the connection shall be cancelled and disconnected.
7. Water connection should not be already made at site before issuing the permission failing which will have to pay the penalty imposed and previous bills. Otherwise, the connection will disconnected without serving any Notice.
8. The electronic water meter of reputed make shall be purchased by the colonizer at their own level and got tested from approved lab/ Institution under intimation to this Department after OK testing, the electronic water meter and it's report shall have to be submitted to the S.D.E-IX, HSVP, Gurugram for obtaining it's clearance to install at site duly sealed by the Department in the presence of representative of HSVP Deptt.
9. Installation of water meter should in direct approach and be liable to the official deputed for taking / recording reading shown by the water meter.
10. Information regarding the installation of water meter shall be given to the SDE-IX, HSVP, Gurugram in writing and installation of water meter shall be considered from the date of receipt of written information by HSVP.

11. All the amount on account of released water connection shall have to be deposited within 30 days if has not been deposited with submission of connection file failing which the sanction will be considered as cancelled.
12. The land cost, Development charges/ Mtc. charges for such colonies shall be liable as per HSVP policy as fixed and decided by HSVP time to time shall be bound for payment of the same well in time.
13. The Mtc. of intake pipes and special repair shall be the colonizer's responsibility and his own cost.
14. The water shall be given at the ground level and HSVP will not be responsible the low pressure.
15. The water connection will be utilized and limited for facilities to the land/ area in possession only.
16. For any dispute in the connection with the release of water connection, Mtc and disconnection with the said water connection, the matter shall be referred by any of the two parties to the concerned Superintending Engineer, HSVP, Circle of the area where the land/ colony is situated and his decision in the matter shall be final and legally binding on both the parties.
17. Colonizer will inform about increase / decrease of discharge if any in advance.
18. SDE will verify discharge monthly or as deemed fit for verification and water bill shall raised monthly and monthly payment shall be made by the colonizer.
19. In absence of installation of water meter, checking of actual assessment of discharge and verification of the consumption of water shall be made jointly by the representative of Deptt and colonizer based on discharge of pipes and working hours of plants as per entries recorded in log book and water bills so prepared shall be binding upon the colonizer for payment and in case of going water meter out of order, the assessment of discharge and consumption of water shall be made on the basis of average reading of water meter given during previous two months till the replacement of water meter in good performance. If, the defective water meter is not replaced within two months, the connection shall be disconnected without serving any Notice.
20. No Booster/ Suction will be installed directly on the line carrying from HSVP mains and no other connection will be made from the connection main to water storage tank and in case it is ever found, the water connection shall be disconnected without serving any Notice by SDE/ Executive Engineer concerned.
21. HSVP will at the liberty to revise the rates of water charges and colonizer will be liable to pay the revised charges as and when decided by HSVP.
22. You may also ensure that follow the guide lines of N.G.T. as per Hon'ble Supreme Court
23. You may ensure that the connection may be connected within six months from the date of issuing of this letter. After expiry of the date, a fresh application/file for water connection will have to be submitted by the colonizer and security and water connection fees will be forfeited.

Endst No.

Dated


EXECUTIVE ENGINEER,
HSVP, DIV. NO. III,
GURUGRAM

A copy of the above is forwarded to Sub Divisional Engineer, HSVP, Sub Div No. IX, Gurugram w.r.t his office memo no. 216 dated 18.01.2018 for information.


EXECUTIVE ENGINEER,
HSVP, DIV NO. III,
GURUGRAM

No.40-4/GUR-Artemis/CGWA/2007-1492

Dated- 11/12/2007

11 DEC 2007

To,

✓ The Divisional Head - Operations
Artemis Medicare Service Pvt. Ltd.
Artemis Health Institute
Sector -51, Gurgaon (Haryana)

Sub: Permission for boring of one Tubewell at Artemis Medicare Service Pvt. Ltd. Artemis Health Institute, Sector -51, Gurgaon (Haryana)

Please refer to your letter dated 06/09/2007 on the above cited subject. After examining the case, permission is hereby accorded, for boring one (1) tube well in the premises of Artemis Medicare Service Pvt. Ltd. Artemis Health Institute, Sector -51, Gurgaon (Haryana)

The terms and conditions of permission are given below-

1. The maximum diameter of the well should be restricted to 100 mm only and capacity of the pump may not exceed 1 HP.
2. Tube well proposed to be constructed must be located within the specified area allotted to Artemis Medicare Service Pvt. Ltd. Artemis Health Institute, Sector -51, Gurgaon.
3. The constructions of tube well is to be done through a drilling contractor registered with the Central Ground Water Authority.
4. The water from the tube well shall be **exclusively used for drinking and domestic purposes only.**
5. The details of drilling like strata encountered, design details of tube well, yields, etc. are to be furnished to the Central Ground Water Authority after completion of the construction of tube well.
6. The authorities of the Artemis Medicare Service should take up artificial recharge scheme in the said premises. The completion of Artificial Recharge structures may be **done within 45 days** from issuance of this letter, and inform accordingly to the Central Ground Water Authority for verification.
7. The Photographs of the recharge structures and constructed tube well is to be furnished immediately after completion of the same.

This permission is **valid for two months** from the date of issuance of this letter. However, Central Ground Water Authority reserves its rights to withdraw/cancel the permission so granted at any time without assigning any reason, if the contingency so demands, in the opinion of the Authority.

This issues with the approval of the Member Secretary, CGWA.

Yours faithfully

R. Sharma
(R.C. Sharma)
Scientist-D
11/12/07

Copy for information to

1. The Deputy Commissioner, Mini Secretariat, Sector-15, Gurgaon,
2. TS to Chairman, CGWB, NH-IV, Faridabad.

(R.C. Sharma)
Scientist-D

From Chairman, T.C.C.
Cum Additional Deputy Commissioner, Gurgaon.

To ✓ Artemis Medicare Services Pvt Ltd, Sector 51, Gurgaon

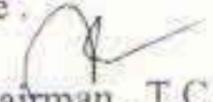
No. 1091 dated 23/11/10
Sub. Permission for boring of One tubewell at Artemis Health Centre for drinking & domestic purpose. Sector 51, Gurgaon

Memo. With reference to your application no _____ dated 23.2.09 on the above cited subject permission is hereby accorded for boring of One tubewells at Artemis Health Centre, Sector 51, Gurgaon per decision taken in the meeting of Technical Core Committee held on dated 27-10-2010

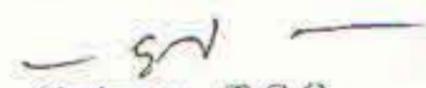
The terms & conditions of permission are given below :-

- 1 The ground water from the tubewell shall be exclusively used for drinking & domestic purpose only and not for construction or any other purposes. The applicant will have to submit the undertaking on affidavit for the same .
- 2 The applicant shall take up rain water harvesting scheme in the project area .
- 3 Treated waste water shall be utilized for gardening and flushing purposes by providing dual water supply system .
- 4 Photograph alongwith exact location of constructed tubewells and rain water harvesting structure are to be submitted after completion to the Chairman T.C.C. Gurgaon.
- 5 After getting the adequate water supply from concerned Private/Govt agency, the applicant would not be allowed abstraction of ground water
- 6 The water level in the tubewells is to be monitored quarterly (January, May, August & November) in a year regularly and ground water quality is to be monitored twice in a year during pre & post monsoon period and data to be submitted to Hydrologist office, Ground Water Cell Gurgaon on regular basis .
- 7 The details of drilling like strata encountered design of tubewells & yield etc. are to be submitted to Chairman T.C.C. Gurgaon after completion of the structure.

This permission for construction of tubewell is valid for two months from the date of issuance of this letter. However the Technical Core Committee Gurgaon reserves its rights to withdraw/cancel the permission so granted at any time without assigning any reason , if the contingency so demands, in the opinion of the Committee .


Chairman, T.C.C.
Cum Additional Deputy Commissioner, Gurgaon.

No. _____ dated _____
A copy is forwarded to Member Secretary ,C.G.W.A. New Delhi for favour of information & necessary action please .


Chairman, T.C.C.
Cum Additional Deputy Commissioner, Gurgaon.

HARYANA URBAN DEVELOPMENT AUTHORITY

FULL OCCUPATION CERTIFICATE

Estate Officer
Haryana Urban Development Authority,
Gurgaon

Sh./Smt. *Artemis Medicare Services (P) Ltd*
Hospital *Plot Sector-51 Gurgaon*

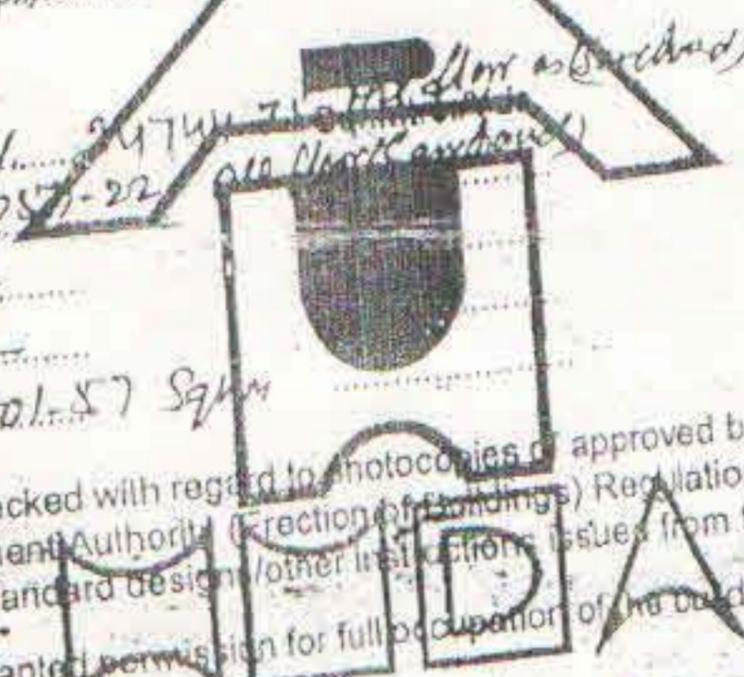
Dated. *18/7/07*

Memo No. *SOA/S 1980*

Whereas you/your G.P.A. Sh./Smt. *Artemis Medicare (P) Ltd* had applied for issue of an occupation certificate in respect of Residential/Commercial/Industrial/Institutional building No. *Hospital* Sector. *51* Gurgaon Measuring *3.12 Acres* Mrs./Yds.

Description of building:

Ground Floor. *Main Build. 4057-22*
1st Floor. *all North*
2nd Floor. *all North*
Basement. *all North*
Total Covered Area. *2880/57 Sqm*



Complete certificate effective from *18/7/07*

The building has been checked with regard to photocopies of approved building plans and in respect of Haryana Urban Development Authority (Erection of Buildings) Regulation, 1979 and architectural controls/zoning regulations/standard design/other instructions issued from time to time.

1. You are hereby granted permission for full occupation of the building of above description as per report of J.E. & S.D.E. (S).

NOTE :- This Certificate is issued subject to the conditions that, you shall continue to abide by the approved building plan, the provisions of Haryana Urban Development Authority (Erection of Buildings) Regulations, 1979 architectural controls/zoning regulations/standard designs/other instructions issued from time to time. If, in future, it is revealed that you have made any addition/alteration in the building without prior permission of Estate Officer, HUDA, Gurgaon, or using the building for purpose other than the use permitted, this certificate will stand with drawn automatically and you will be liable for penal action under the HUDA, Act-1977.

Note: The responsibility of the structural design/stability and structural safety of the building as well as the safety of the construction work is the responsibility of the

Estate Officer
HUDA, Gurgaon
Dated. *18/7/07*

Endst. No. *Owner's name*
1. Allotment Branch.
2. Sub Divisional Engineer, (Survey) HUDA, Gurgaon

Estate Officer
HUDA, Gurgaon

Annexure A4

1) Consent (Air and Water)

*2) Hazardous Waste
Authorization*

*3) Bio-Medical Waste
(BMW) Authorization*



HARYANA STATE POLLUTION CONTROL BOARD

Gurgaon North Vikas Sada, 1st Floor,
Near DC Court, Gurgaon Ph.0124-2332775

E-mail: hspcb.pkl@sify.com



No. HSPCB/Consent/ : 313099718GUNOCTO5485165

Dated:06/08/2018

To.

M/s :Artemis Medicare Services Limited
Sector-51,Gurgaon

Subject: Grant of consent to operate to M/s Artemis Medicare Services Limited.

Please refer to your application no. 5485165 received on dated 2018-06-30 in regional office Gurgaon North. With reference to your above application for consent to operate, M/s Artemis Medicare Services Limited is here by granted consent as per following specification/Terms and conditions.

Consent Under	BOTH
Period of consent	01/10/2018 - 30/09/2019
Industry Type	Health -care Establishment / Projects having discharge of 100 KLD or More with or Without Incinerator
Category	RED
Investment(In Lakh)	36757.3203
Total Land Area(Sq. meter)	32860.82
Total Builtup Area(Sq. meter)	28801.57
Quantity of effluent	
1. Trade	25.0 KL/Day
2. Domestic	325.0 KL/Day
Number of outlets	2.0
Mode of discharge	
1. Domestic	reuse/recycle
2. Trade	reuse/recycle
Domestic Effluent Parameters	
1. BOD	30 mg/l
2. COD	250 mg/l
3. TSS	100 mg/l
Trade Effluent Parameters	
1. BOD	30 mg/l
2. COD	250 mg/l
3. TSS	100 mg/l
Number of stacks	2
Height of stack	

1. Stack attached to DG Set	7.5 METER
2. Stack attached to DG set	7.5 METER
Emission parameters	
1. NA	
Product Details	
1. NA	Metric Tonnes/day
Capacity of boiler	
1. NA	Ton/hr
Type of Furnace	
1. NA	
Type of Fuel	
1. Diesel	1.17 KL/day
Raw Material Details	
NA	Metric Tonnes/Day

Regional Officer, Gurgaon North
Haryana State Pollution Control Board.

HARYANA STATE Terms and conditions

1. The applicants shall maintain good house keeping both within factory and in the premises. All hose pipelines valves, storage tanks etc. shall be leak proof. In plant allowable pollutants levels, if specified by State Board should be met strictly.
2. The applicant/company shall comply with and carry out directive/orders issued by the Board in this consent order at all subsequent times without negligence of his /its part. The applicant/company shall be liable for such legal action against him as per provision of the law/act in case of violation of any order/directives. Issued at any time and or non compliance of the terms and conditions of his consent order.
3. The applicant shall make an application for grant of consent at least 90 days before the date of expiry of this consent.
4. Necessary fee as prescribed for obtaining renewal consent shall be paid by the applicant alongwith the consent application.
5. If due to any technological improvement or otherwise this Board is of opinion that all or any of the conditions referred to above required variation (including the change of any control equipment either in whole or in part) this Board shall after giving the applicant an opportunity of being heard vary all or such condition and there upon the applicant shall be bound to comply with the conditions so varied.
6. The industry shall provide adequate arrangement for fighting the accidental leakages, discharge of any pollutants gas/liquids from the vessels, mechanical equipment etc. which are likely to cause environment pollution.
7. The industry shall comply noise pollution (Regulation and control) Rules, 2000.
8. The industry shall comply all the direction/Rules/Instructions as may be issued by the MOEF/CPCB/HSPCB from time to time.

9. The industry shall ensure that various characteristics of the effluents remain within the tolerance limits as specified in EPA Standard and as amended from time to time and at no time the concentration of any characteristics should exceed these limits for discharge.
10. The industry would immediately submit the revised application to the Board in the event of any change in the raw material in process, mode of treatment/discharge of effluent. In case of change of process at any stage during the consent period, the industry shall submit fresh consent application alongwith the consent to operate fee, if found due, which may be on any account and that shall be paid by the industry and the industry would immediately submit the consent application to the Board in the event of any change during the year in the raw material, quantity, quality of the effluent, mode of discharge, treatment facilities etc.
11. The officer/official of the Board shall reserve the right to access for the inspection of the industry in connection with the various process and the treatment facilities. The consent to operate is subject to review by the Board at any time.
12. Permissible limits for any pollutants mentioned in the consent to operate order should not exceed the concentration permitted in the effluent by the Board.
13. The industry shall pay the balance fee, in case it is found due from the industry at any time later on.
14. If the industry fails to adhere to any of the conditions of this consent to operate order, the consent to operate so granted shall automatically lapse.
15. If the industry is closed temporarily at its own, they shall inform the Board and obtain permission before restart of the unit.
16. The industry shall comply all the Directions/ Rules/Instructions issued from time to time by the Board.

Specific Conditions :

1. The unit will submit the analysis reports of trade effluent/air emissions/ noise, from all sources as applicable, before 30th June every year and will keep all parameters within standards prescribed under Environment (Protection) Rules, 1986.
2. The unit will submit the Annual Report under HWM Rules by 30th June and Environment Statement by 30th September every year.
3. Unit will submit fresh balance sheet/ CA certificate regarding capital investment cost of the unit on land, building, plant and machinery without depreciation and will also deposit balance consent fee if any found due as per latest balance sheet/ CA certificate, by 30th September every year.
4. Unit will apply for renewal of consent/Authorization at least 90 days before expiry date of the consent/Authorization.
5. The hazardous waste generated by the unit will be disposed off only through Authorized TSDF/recyclers / Refiners of hazardous waste.

*Regional Officer, Gurgaon North
Haryana State Pollution Control Board.*

Helpline :-
1800-180-2132 , hepc[dot]helpdesk[at]gmail[dot]com

Department of Industries & Commerce, Haryana
Haryana Enterprises Promotion Center

Welcome, Joginder Pal !



Single Roof Clearances System

Facilitates prospective investors to obtain regulatory clearances online through Haryana Enterprises Promotion Center under Haryana Enterprise Promotion Board and Empowered Executive Committee.



CAF Summary

Application For	Regulatory Approvals & Services	Sector	
CAF PIN	5953202041	Application Date	30-06-2018
Business Entity	M/s Artemis Medicare Services Ltd.	Site Detail	,Gurugram,
Project Cost	0 Crores	MOU (Year)	

Relationship
Manager

Investor Info

Joginder, 9711160009

←Back

View Service Required

View Service Clearances in Process

Select a Department

All Departments

Construction Permit

All

Service Clearances in Process

Department

Service Name

Stage

HARYANA STATE
POLLUTION CONTROL
BOARD

Authorization under
Bio Medical Waste

Stage-
III

Check List

Re-Apply

View Service Log

Comment

Track Service Form

Service Cleared

HARYANA STATE
POLLUTION CONTROL
BOARD

Authorization Under
Hazardous Waste
Rules

Stage-
III

Check List

Re-Apply

View Service Log

Comment

Track Service Form

Service Cleared

HARYANA STATE
POLLUTION CONTROL
BOARD

CTE-Renewal

Stage-
III

Check List

View Service Log

Comment

Fill Service Form

HARYANA STATE
POLLUTION CONTROL
BOARD

Renewal of Consent to
Operate - Air/Water

Stage-
III

Check List

Re-Apply

View Service Log

Comment

Track Service Form

Service Cleared

HARYANA STATE POLLUTION CONTROL BOARD

Gurgoan North Vikas Sada, 1st Floor, Near DC Court, Gurgoan Ph. 0124-2332775



No. HSPCB/BMW/2018-2019

Dated 18/09/2018

Authorization No. BMW18GUNO5633747

Application No.
5633747

Date of Submission 25/08/2018

Sub: Renewal of Authorization under Bio Medical Waste Management Rules, 2016.

1. M/s : Artemis Medicare Services Limited an occupier or operator of the facility located at Artemis hospital(A unit of Artemis medicare services limited) Sector 51, Gurugram Sector-51,Gurgaon, is hereby granted an authorisation for; Generation, segregation,Collection,Storage,Transportation,Disposal or destruction use

2. M/s : Artemis Medicare Services Limited is hereby authorized for handling of Biomedical Waste as per the capacity given below;

(i) Number of beds of HCF: 394

(ii) Number healthcare facilities covered by CBMWTF: 0

(iii) Installed treatment and disposal capacity: 0 Kg/Day

(iv) Area or distance covered by CBMWTF: 0

(v) Quantity of Biomedical waste handled, treated or disposed:

Category	Type of Waste	Quantity Generated or collected in Kg/day
Yellow	a) Human Anatomical Waste	223.2
	b) Animal Anatomical Waste	0
	c) Soiled Waste	0
	d)Expired or Discarded Medicines	0
	e)Chemical Solid Waste	0
	f) Chemical Liquid Waste	0
	g)Discarded linen, mattresses, beddings contaminated with blood or body fluid	0
	h) Microbiology, Biotechnology and other clinical laboratory waste	0
Red	Contaminated waste (Recyclable)	313.9
White(Translucent)	Waste sharps including Metals	1.9
Blue	Glassware	50.5
	Metallic Body Implants	

3. This authorisation shall be in force for a period of 01/10/2018 To 30/09/2019 Year from the date of issue.

4. This authorisation is subject to the condition stated below and to such other condition as may be specified in the rules for the time being in force under the Environment (Protection) Act, 1986.

TERMS & CONDITIONS OF AUTHORISATION:-

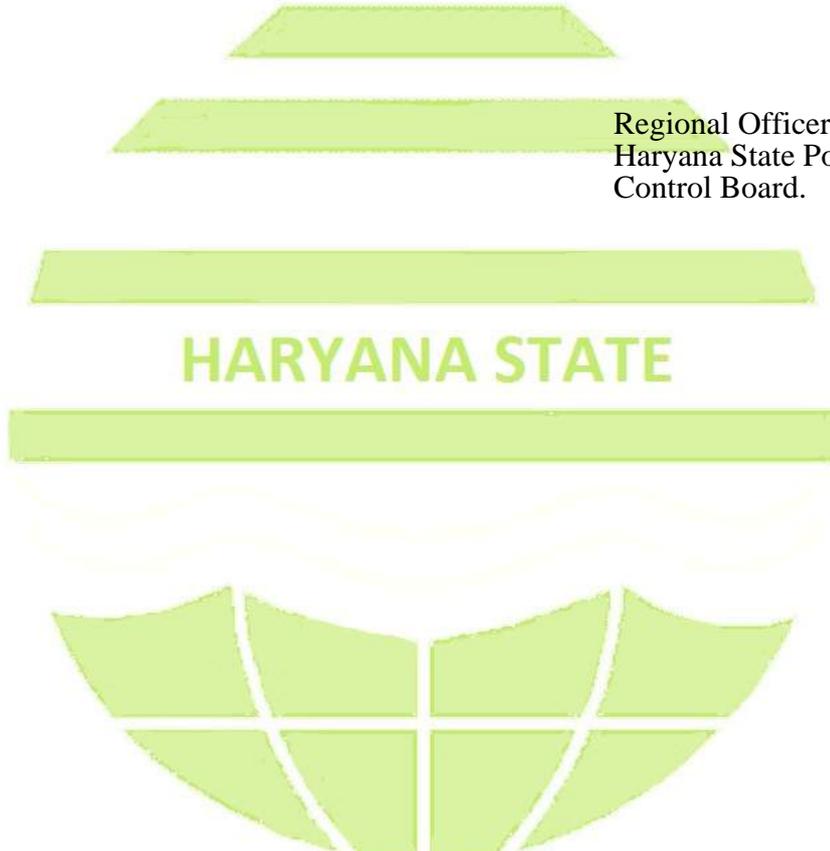
1. The applicants shall comply with the provisions of Bio-Medical Waste Management Rules 2016 notified vide No.S.O. 630(E) dated 20th July,2016
2. Bio-Medical Waste shall be treated & disposed off in Compliance with the standards prescribed in Schedule I.
3. Every occupier where required shall setup in accordance with the time schedule-IV, requisite treatment Bio-Medical Waste treatment facilities like incinerator,autoclave,microwave system for the treatment of the waste at a common waste treatment facility or any other waste treatment facility.
4. Bio-Medical Waste shall not be mixed with any other waste.
5. Bio-Medical Waste shall be segregated into containers/bags at appoint of generation with Shedule-II prior to its storage, transportion,treatment & disposal.The containers shall be labeled according to Schedule-II
6. If a container is transported from the premises where Bio-Medical Waste is generated to any waste treatment facility outside the premises where Bio-Medical Waste is generated to any waste treatment facility outside the premises, the container shall apart from the label prescribed in schedule III, also carry information according to Schedule IV.
7. Notwithstanding anything contains in Motors Vehicle Act, 1995 or rules there under, untreated the Bio-medical Waste shall be transported only in such vehicle as may be authorised for the purpose by the competent authority as specified by the Govt.
8. No untreated Bio-Medical Waste Shall be kept stored beyond a period of 48 hours.
9. Every authorised person shall maintain records related to the generation, collection, reception, storage, transportation, treatment disposal of Bio-Medical Waste in accordance with those rules & any guideline issued.
10. All records shall be subject to inspection & verifications by the prescribed authority at any time.
11. Suitably designed pollution control devices should be installed/retrofitted with the incinerator to acheive the above emission limits, if necessary.
12. Waste to be incinarated shall not be chemically treated with any chlorinated disinfectants.
13. Chlorinated plastics shall not be incinarated.Toxic metals in incinaration ash shall be limited with the regulatory quantities as defined under the Hazardous Waste Management Rules, 2016.
14. Only low sulphur fuel like L.D.O/L.S.H.S/Deisel shall be used as fuel in the incinarator.
15. Occupier will comply all direction for generation, collection, reception, storage, transportation, treatment, disposal as per Bio-Medical Waste Management Rules 2016 & will ensure that there is no adverse effect to human & Environment.
16. The occupier will segregate the Bio-Medical Waste at the point of generation in accordance with the special-II of Bio-Medical Waste Management Rules, 2016.
17. The authorization would be subject/having proper disposal system for Bio-Medical Waste.
18. The unit shall maintained a log Book for suggestion/collection of Bio-Medical Waste at the source (i.e.wards) and also for each category of waste i.e.incienaration, autoclaving or landfill etc.
19. The yellow Bags should be non chlorinated bags.

20. The every occupier will also submit the copy of agreement every year before 30th April from any authorised services provider.

Specific Conditions

General Deficiencies

1. Unit will submit annual return online on or before 30th June of every year and shall make available the annual report on its web-site. 2. Unit will submit fresh agreement with service provider on yearly basis. 3. Unit will store Bio medical waste as per the BMW rules in separate coloured bins properly segregated



Regional Officer Panchkula
Haryana State Pollution
Control Board.

Annexure A5

Data Sheet

Monitoring the Implementation of Environmental Safeguards
Ministry of Environment, Forest and Climate Change
Northern Regional Office, Chandigarh
MONITORING REPORT
PART – I
DATA SHEET

1.	Project Type:	Construction Project (Hospital)
2.	Name of Project:	Artemis Medicare Services Limited
3.	Clearance Letter (s) / C.M. No. & dates	21-292/2007-IA.III dated July 19, 2007
4.	Location: a) District b) State c) Latitudes / Longitudes	Gurgaon Haryana 28° 37' N & 77° 04' E
5.	Address for Correspondence:	Artemis Medicare Services Limited , Hospital Site, Sector-51, Gurgaon 122001
6.	Salient Features: a) Of the project b) Of Environment Management Plans	<ul style="list-style-type: none"> i. 206-bed hospital project ii. Accorded No Objection Certificate by Haryana State Pollution Control Board vide letter No. HSPCB/2007/TAC-I/199A/56 dated 09.02.2007 iii. Capital Cost: Rs. 373.99 Crore Appx. iv. Built-up Area: 28801.57 m² v. Greenbelt Area: 15000 m² vi. Manpower: 1500 Appx. vii. CAPEX on PCD: ₹ 1 Crore appx. viii. OPEX on PCD: ₹ 94 Lakh p.a. appx. <ul style="list-style-type: none"> a) Adoption of Rainwater Harvesting b) Installation of STP/ETP c) Installation of Acoustic Enclosures to DG sets d) Green Belt Development e) Energy Conservation and Audit f) Corporate Social Responsibility
7.	Break up of the Project Area a) Submergence area: Forest & Non-Forest b) Others	0.33 hectare NIL Land developed by Haryana Urban Development Authority and specified for Hospital project
8.	Break up of project affected population with enumeration of those losing houses / dwelling units only, agricultural land only, both dwelling units and agricultural land and landless labourers / artisans. a) SC/ST/Adivasis b) Others	NIL

	(Please indicate whether these figures are based on scientific and systematic survey carried out or only provisional figures. If a survey has been carried out, give details and year of survey)	
9.	<p>Financial Details:</p> <p>a) Project Cost as Originally planned and subsequent revised estimates and year of price reference</p> <p>b) Allocations made for Environmental Management Plans</p> <p>c) Benefit Cost Ratio / Internal Rate of Returns and year of assessment</p> <p>d) Whether the (c) includes the cost of environmental management as shown in (b) above</p> <p>e) Actual Expenditure incurred on project, so far</p> <p>f) Actual Expenditure incurred on Environment Management Plans, so far</p>	<p>Original: ₹ 180 Crore As on 31.03.2017: ₹ 373.99 Crore</p> <p>₹ 1 Crore (Capital Cost) & ₹ 94 Lakh (Recurring Cost) appx. Profit as on 31.03.2017 ₹ 29.95 Crore (as per Balance Sheet)</p> <p>No</p> <p>₹ 373.99 Crore (As on 31.03.2017) ₹ 67.74 Lakh p.a. including CSR expenses</p>
10.	<p>Forest Land requirement:</p> <p>a) The status of approval for diversion of forest land for non-forestry use</p> <p>b) The status of clear felling</p> <p>c) The status of compensatory</p> <p>d) Comments on viability & sustainability of compensatory afforestation program in the light of actual field experience so far.</p>	NIL
11.	The status of clear felling in non-forest areas (such as submergence area of reservoir, approach road) if any, with quantitative information	--
12.	<p>Status of Construction:</p> <p>a) Date of Commencement (actual and/or planned)</p> <p>b) Date of completion (actual and/or planned)</p>	<p>July 2006</p> <p>July 2007</p>
13.	Reasons for delay if project is yet to start:	--

Annexure A6

Environmental Clearance

BY SPEED POST

No. 21-292/2007-IA.III
Government of India
Ministry of Environment and Forests
(I. A. Division)

Paryavaran Bhawan,
CGO Complex, Lodhi Road
New Delhi 110003
Dated: July 19, 2007

To

✓
Shri Somnath Chakraborty
M/s. Artemis Medicare Services (P) Ltd.
Apollo House, 7, Institutional Area,
Sector-32, Gurgaon-122001,
Haryana.

**Subject: Environmental Clearance for construction of Hospital
Complex at Sector-51, Gurgaon.**

Sir,

I am directed to refer to your application seeking prior environmental clearance for the above project under the EIA Notification 1994 including amendments of July, 2004. The above proposal has been appraised as per prescribed procedure on the basis of the documents enclosed with the application viz. Questionnaire, EIA, EMP and the additional clarifications furnished in response to the observations of the Expert Appraisal Committee (EAC) constituted by the competent authority in its 15th meeting held on May 4-5, 2007 and under provisions of EIA Notification, 2006.

2. The project proponent is setting up a 206 beds Hospital Complex at Sector-51, Gurgaon, Haryana at a total cost of Rs. 100 crore. The project comprises of construction of hospital building and residential building. The hospital building will have eight floors and residential building will have nine floors. The plot area is 33,588.90 sq.m. The total proposed built up area is 27,354 sq.m. Total water requirement will be 450 m³/day and 200 m³/day of waste water will be generated. A sewage treatment plant of 200 m³/d will be constructed for the treatment of waste water generated from the hospital complex. The treated sewage will be discharged into public sewer provided by HUDA. About 120 kg/d of bio medical waste will be generated from the proposed complex, which will be disposed off as per Bio Medical Waste (Management and Handling) Rules, 1998. The total solid waste generated will be 40 kg/d. This will be segregated into bio degradable and non bio degradable. The bio degradable solid waste generated will be composted. The recyclable materials would be sold to vendors who are approved by HSPCB.

3. The information given in the application forms indicate that there will be positive impact of proposed project on the land use. There will be minor negative impact on ambient air quality during construction phase. However, there will be long term negative impact on air and noise levels. There will be minor negative impact on ambient noise during construction phase. There will be negative impact on water quality during construction phase.

4. The EAC after due consideration of the relevant documents submitted by the project proponent and additional clarifications furnished in response to its observations have recommended the grant of environmental clearance for the project mentioned above subject to compliance with the EMP and other stipulated conditions. Accordingly, the Ministry hereby accords necessary environmental clearance for the project subject to the strict compliance with the specific and general conditions mentioned below:

PART A- SPECIFIC CONDITIONS

I. Construction Phase

i. All required sanitary and hygienic measures should be in place before starting construction activities and to be maintained throughout the construction phase.

ii. Soil and ground water samples will be tested to ascertain that there is no threat to groundwater quality by leaching of heavy metals and other toxic contaminants.

iii. A First Aid Room will be provided at the project site both during construction and operation of the project.

iv. Adequate drinking water and sanitary facilities should be provided for construction workers at the site. The safe disposal of wastewater and solid wastes generated during the construction phase should be ensured.

v. Disposal of muck including excavated material during construction phase should not create any adverse effects on the neighboring communities and be disposed off taking the necessary precautions for general safety and health aspects of people.

vi. Diesel power generating sets used during construction phase should be of "enclosed type" to prevent noise and should conform to rules made under Environment (Protection) Act 1986, prescribed for air and noise emission standards.

vii. Ambient noise levels should conform to residential area standards both during day and night when measured at boundary wall of the premises. Incremental pollution loads on the ambient air and noise quality should be closely monitored during construction phase.

viii. Vehicles hired for bringing construction material at site should be in good condition and should have valid "pollution under check"(PUC)

certificate and to conform to applicable air and noise emission standards and should be operated only during non-peak hours.

ix Construction spoils including bituminous material and other hazardous materials must not be allowed to contaminate water courses and the dump sites for such material must be secured so that they should not leach into the ground water.

x Any hazardous waste generated during construction phase should be disposed of as per applicable Rules & norms with necessary approvals of the Haryana Pollution Control Board.

xi Regular supervision of the above and other measures for monitoring should be in place all through the construction phase so as to avoid disturbance to the surroundings.

xii Under the provisions of Environment (Protection) Act 1986, legal action shall be initiated against the project proponent if it was found that construction of the project had started without obtaining environmental clearance.

II. Operation Phase

The environmental clearance recommended to the project is subject to the specific conditions as follows:

i. Diesel power generating sets as source of back-up power for lifts and common area illumination should be of "enclosed type" and conform to rules made under Environment (Protection) Act 1986, prescribed for air and noise emission standards as per CPCB guidelines. Exhausts should be discharged by stack, raised to 4 meters above the rooftop.

ii. During night time the noise levels measured at the boundary of the building shall be restricted to the permissible levels to comply with the prevalent regulations.

iii. The sewage treatment plant should be certified by an independent expert for adequacy as well as efficiency and submit a report in this regard to the Ministry before the project is commissioned for operation. The wastewater should be treated upto tertiary level and after treatment reused for flushing of toilets and gardening etc. Discharge of treated sewage shall conform to the norms & standards prescribed by Haryana Pollution Control Board.

iv. Rain water harvesting and ground water recharging shall be practiced. The ground water levels and its quality should be monitored regularly in consultation with the Central Ground Water Authority. Oil & Grease trap shall be provided to remove oil and grease from the surface run off and suspended matter shall be removed in a settling tank before its utilization for rainwater harvesting.

v. The solid waste generated should be properly collected & segregated before composting and non bio-degradable solid waste shall be disposed of into municipal bins for further processing. STP sludge and compost shall be used as manure for gardening.

vi. Biomedical waste including hazardous waste should be disposed of as per applicable Rules & norms with necessary approvals of the Haryana Pollution Control Board.

vii. The green belt design along the periphery of the plot shall achieve attenuation factor conforming to the day and night noise standards prescribed for residential land use. The open spaces inside the plot should be suitably landscaped and covered with vegetation of indigenous variety.

viii. Incremental pollution loads on the ambient air quality, noise and water quality should be periodically monitored after commissioning of the project.

ix. The Ground Water shall be utilized only in consultation with Central Ground Water Authority.

x. The Solar energy shall be used for water heating as well as lighting common areas and verifiable measures shall be adopted for energy conservation and water conservation.

xi. Report on the energy conservation measures should be prepared incorporating details about building materials & technology, R & U Factors etc and submitted to the Ministry in three months time.

xii. The values of R & U for the building envelope should meet the requirements of the hot & humid climatic location. Details of the building envelope should be worked out and furnished in three months time.

PART – B. GENERAL CONDITIONS

i. The environmental safeguards contained in the documents should be implemented in letter and spirit.

ii. Provision should be made for the supply of kerosene or cooking gas and pressure cooker to the laborers during construction phase.

iii. All the laborers to be engaged for construction works should be screened for health and adequately treated before the issue of work permits. Adequate preventive and protective measures shall be taken to protect workers, labours etc during construction and operation phase of the project.

iv. 6 monthly monitoring reports should be submitted to the Ministry and its Regional Office.

5. Officials from the Regional Office of MOEF, Chandigarh who would be monitoring the implementation of environmental safeguards should be given full cooperation, facilities and documents / data by the project proponents during their inspection. A complete set of all the documents submitted to MoEF should be forwarded to the CCF, Regional office of MOEF, Chandigarh.

6. In the case of any change(s) in the scope of the project, the project would require a fresh appraisal by this Ministry.

7. The Ministry reserves the right to add additional safeguard measures subsequently, if found necessary, and to take action including revoking of the environment clearance under the provisions of the Environment (Protection) Act, 1986, to ensure effective implementation of the suggested safeguard measures in a time bound and satisfactory manner.

8. All other statutory clearances such as the approvals for storage of diesel from Chief Controller of Explosives, Fire Department, Civil Aviation

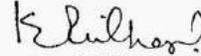
Department, State Forests Department, Wildlife Act 1972 etc. Shall be obtained by project proponents from the competent authorities.

9. A copy of the environmental clearance letter would be marked to the local NGO(s) for their information.

10. The project proponent should advertise in at least two local Newspapers widely circulated in the region, one of which shall be in the vernacular language informing that the project has been accorded environmental clearance and copies of clearance letters are available with the Haryana Pollution Control Board and may also be seen on the website of the Ministry of Environment and Forests at <http://www.envfor.nic.in>. The advertisement should be made within 7 days from the day of issue of the clearance letter and a copy of the same should be forwarded to the Regional office of this Ministry at Chandigarh.

11. These stipulations would be enforced among others under the provisions of the Water (Prevention and Control of Pollution) Act, 1974, the Air (Prevention and control of Pollution) act 1981, the Environment (Protection) Act, 1986 and the Public Liability (Insurance) Act, 1991.

12. The project authority will ensure regular operation and maintenance of the assets created.



(K.C. RATHORE)

Additional Director (IA)

rathore27@yahoo.com

Tele: 24360789

Copy to: -

1. The Secretary, Department of Environment, Government of Haryana, Secretariat Building, Panchkula, Haryana.
2. The Member Secretary, Haryana Pollution Control Board, Panchkula, Haryana.
3. The CCF, Regional Office, Ministry of Environment & Forests, Chandigarh.
4. IA - Division, MOEF, Paryavaran Bhawan, CGO Complex, New Delhi.
5. Guard file

(K.C. RATHORE)

Additional Director (IA)

Annexure A7

Allied Documents

1) PO issued to carry subsequent energy audit

2) Hydraulic flow diagram of STP with Details of UV system installed

3) Rainwater Harvesting details

SERVICE ORDER

GST No. : 06AAFCA0130M1Z1
 Service Order No. : 4000004528
 Date : 17.08.2018
 Valid From : 17.08.2018
 Valid To : 17.10.2018

Vendor GST No : 06AACCK6336Q1Z2
 3100913
 KBS Certification Services Pvt. Ltd.
 414-424, Om Shubham Tower
 Haryana
 121001-Haryana
 India

Your Ref : Qtn KBS/EA/2018/07/03 Dtd 03.07.2018
 Our Ref : C.no.398 Dtd 16.07.2018, General Engg.

We are pleased to award you the order for the following services on the terms and conditions mentioned here under:

SL NO.	Code	Description	SAC Code	Unit	Quantity	Rate (INR)	Amount (INR)
1	00010	Energy Audit of Engineering Equipment / Machinery.		AU	1.00	135000.00	135,000.00
		Energy Audit Engineering Equipment		NOS	1.00	135000.00	135,000.00
		Input CGST+ SGST 18%-Others				24300.00	24,300.00
		NET AMOUNT					159,300.00

RS. ONE LAC FIFTY-NINE THOUSAND THREE HUNDRED ONLY

Total : 159,300.00

Notes :

SAC Code -- 998399
 The above cost is inclusive of all taxes.
 Scope of work to be checked and verified by General Engg. Team.
 Work Completion within 1 Month.

SCOPE OF WORK

1. SCOPE OF SERVICES:-

The scope of service includes the detailed comprehensive energy audit and results in a detailed energy project implementation plan. This should consider the interactive effects of various projects and offers the most accurate estimate of energy saving and cost.

2. SITE VISIT: - First Site visit and also conduct walk in through energy audit and identify scope of work.

3. ENERGY AUDIT SCOPE:-

3.1 Energy audit activities in general, include

- The activity starts at the utility meters, locating all energy sources coming into a facility.
- Identification of energy streams.
- Quantification of energy streams into discrete functions (system/equipments / appliances etc.)
- Evaluation of the efficiency of each of those functions (system/equipments / appliances etc.)
- Identification of energy & cost saving opportunities and analysis the impact of improvements by establishment, base line energy consumption.
- All existing system sensitivity analysis.
- Establish measurement & verification protocol i.e. adjective measurement through meters by identifying measurement points.
- Required data collection, field measurements and analysis of data etc.

3.2 Description of energy audit that documents the scope of assessment of the building and the condition of the building and building

Artemis Hospital (A unit of Artemis Medicare Services Ltd.)

Sector 51, Gurugram - 122001, Haryana, India. Ph.: +91-124-6767 999 | Fax: +91-124-6767 701 | Emergency & Trauma: +91-124-6767 000

Registered Office: Plot No. 14, Sector 20, Dwarka, New Delhi - 110075 | Corporate Office: Artemis Hospital, Sector 51, Gurugram 122001, Haryana, India |

CIN: U85110DL2004PLC126414 | GST: 06AAFCA0130M1Z1(HR), 07AAFCA0130M1ZZ(DEL) | TAN: DELA16048E | PAN: AAFCA0130M |

Email: info@artemishospitals.com



GST No. : 06AAFCA0130M1Z1
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systems equipment.

3.3 The report to recommend ways to improve efficiency in operation & maintenance through installation of energy conservation measures.

3.4 All the charges i.e. transportation loading, boarding, train tickets etc. shall be borne by Agency and nothing extra shall be paid on any other account.

3.5 Contractor should follow following steps for conducting detailed energy audit.

Plan of Action

1 Plan and organize

Walk through audit and Informal interview

2 Introductory meeting.

3 Primary Data Gathering

Process flow Diagram

Energy Utility Diagram

4 Conduct survey and monitoring

5 Conduct of detailed trial

6 Analysis of Energy Use

7 Identification and development of energy conservation opportunity

8 Cost benefit analysis

9 Reporting and presentation.

4. DETAILED SUMMARY

4.1 Design of a comprehensive energy audit must capture the key details of facilities with specific reference

i. Building structural details

ii. Use & occupancy of the building

iii. Energy supply features

iv. Details of system / equipments / appliance etc.

5. METHODOLOGY TO BE ADOPTED FOR THE ENERGY AUDIT

The following energy audit structure is prepared for developing energy efficient projects to be implemented. The building energy system and collection and analysis can be conducted in modular way.

i. Building energy bills analysis.

ii. Electrical supply and distribution system analysis

iii. Lighting system analysis

iv. Air conditioning system analysis

v. Water pumping system analysis

vi. Building envelop analysis

vii. Harmonic analysis

viii. Compressed air system analysis

ix. Cooling Water system analysis

x. Specific Energy Consumption

xi. Air Washer efficiency Analysis

xii. Boiler efficiency Analysis

xiii. DG Set performance assessment

xiv. Electric Motor Load Analysis

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CIN: U85110DL2004PLC126414 | GST: 06AAFCA0130M1Z1(HR), 07AAFCA0130M1ZZ(DEL) | TAN: DELA16048E | PAN: AAFCA0130M |

Email: info@artemishospitals.com



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xiiiv. Thermography of main LT Panel, MDB Panels and all Motors with their starters.

5.1 Building Energy bills analysis:-

Objective

- Tariff audit to estimate the opportunities for peak load serving calculation of load work.
- Energy consumption trends for developing baseline for applying PREDICTED MEAN VOTE (PMV) at gross metering whole facilities) for implementing multifaceted energy efficiency projects in a building.

Methodology / data collection

- Energy bills : (KWH total amount and tariff in Rs./KWH with demand charges) on monthly basis for last two years
- Weather bins : T dry bulb and T wet bulb for last Two years
- Occupancy data: Attendance & visitors record on monthly basis for last two years.
- Energy system maintenance expenses on monthly basis for last two years.

Analysis

- Identification of variables affecting energy consumption
- Regression analysis of energy consumption & development of correlations with identified variables.

Applicable Predicted Mean Vote (PMV) system

Ø Whole facilities Predicted Mean Vote (PMV), savings are determined by measuring energy use at the whole facility, level, short term or continuous measurements are taken throughout the post # retrofit period .

Ø Railway desire to have objective method of monitoring and verification protocol

i.e. by monitoring meters. The energy audit shall spelt out the location of meter additionally to be provided for the same.

5.2 Electrical Supply & distribution System:

Objective

- Transformer loss reduction projects by optimum transformer loading.
- Distribution loss reduction.

Methodology / Data collection

- Peak load daily basis for last 2-3 years
- Single line diagram (SLD) of the electrical supply and distribution.
- 24 Hrs. monitoring of building load trends (V, KW, PF, KWH).
- Maintenance expenses for last two years.

Analysis

- Transformer loading profile for optimizing the loading for transformer loss reduction.

Calculation load Vs efficiency of transformer.

- Variable capacitor application

- Distribution loss reduction

5.3 Lighting System Analysis:-

Objective

- Energy saving by application of energy efficient lighting fixture/ Optimization of existing systems.
- Providing optimum comfort level lighting to the occupants.

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Methodology / Data collection

- i. Inventory of lighting fixtures (type & No. of fixtures)
- ii. Zone or space or room wise lux measurement (Day Time & evening time) and type of activity
- iii. Hours of operation
- iv. Isolate of lighting circuits and major power consumption for lighting
- v. Floor plan
- vi. Maintenance expenses for last one year.

Analysis

- i. Calculation of zone wise lux
- ii. Performance assessment of lighting system
- iii. Lighting power consumption in terms of KW fixture and KW Sq meter (lighted space)
- iv. Projected lighting consumption for the year in KWH
- v. Recommendations for number of actual light fixture required after full filling the specified lux for each area as per site condition.
- vi. Identification of areas where new techniques such as occupancy sensors space sensors / master controls etc. can be taken up.

5.4 Air conditioning System Analysis

Objective

- i. Energy savings by installing operation and maintenance / optimization new air conditioners central / package / efficient AC units with minimum energy consumption. .
- ii. Providing optimum comfort level to the occupants.

Methodology / Data collection

- i. Inventory of air conditioners (type, Nos. , Age)
- ii. Sample size selection and testing for power consumption and tons delivered under the existing weather condition (IKW of each chiller , Air flow inside air temperature and humidity , outside air temperature and humidity).
- iii. Typical temperatures maintained in the rooms.
- iv. Air conditioners control operation # time cycle based control or temperature control.
- v. Hours of operation
- vi. Air conditioned floor area.
- vii. AC ventilation position

Analysis

- i. Calculation of zone wise tons / Sq meters.
- ii. Calculation of individual AC # KW per Ton
- iii. Application of Zone wise package or air conditioner or central air conditioning systems.
- iv. Projected air conditioners consumptions for the year in KWH.
- v. Performance evaluation of air handling units, cooling towers and heat exchangers.
- vi. Actual system balancing for optimization for air / water distribution rates for HV AC system.
- vii. Recommendations for new techniques such as use of chemicals (Anticorrosion), Variable speed drives or any other new equipment which will reduce the operating cost.
- viii. Duct ceiling for leakages & study of insulation of type and resistance value of insulation

5.5 Water pumping system

Objective

Artemis Hospital (A unit of Artemis Medicare Services Ltd.)

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Registered Office: Plot No. 14, Sector 20, Dwarka, New Delhi - 110075 | Corporate Office: Artemis Hospital, Sector 51, Gurugram 122001, Haryana, India |

CIN: U85110DL2004PLC126414 | GST: 06AAFCA0130M1Z1(HR), 07AAFCA0130M1ZZ(DEL) | TAN: DELA16048E | PAN: AAFCA0130M |

Email: info@artemishospitals.com



GST No. : 06AAFCA0130M1Z1
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i. water pumping system efficiency improvement by retrofit or new installation

ii. Piping layout retrofit

Methodology / Data collection

i. Parameters measured and observed

ii. Pump pipeline layout

iii. Pumping discharge flow

iv. Suction head

v. Discharge head

vi. Operating hours on year basis

vii. Maintenance expenses for last one year

Analysis

i. Pumping efficiency

ii. Pumping power consumption

iii. Pumping pressure drop estimation

iv. Pump study point and balancing values for optimum water flow

5.6 Building envelop analysis

Objective

i. Analyzing building layout and floor layout to simulate the building for energy audit.

Methodology / data collection

i. Building layout

ii. Floor layout

iii. Window layout, Size and their positioning with respect to the directions.

iv. Maintenance expenses on monthly basis for last four years

v. Weather data bins for last one year

vi. Energy bills on monthly basis for last one / two years

vii. Other data as mentioned for individual system

Analysis

i. Building analysis.

5.7 Harmonic analysis: - System harmonic analysis shall be carried out and measures to improve harmonic level present in type system by addition of energy saving measures shall

be suggested.

5.8 Necessary data collection is to be done (subject to the availability of Utility) for compressed air system, Cooling Water system, Specific Energy Consumption, Furnace efficiency, Boiler efficiency, DG Set performance assessment & Electric Motor Load Analysis with objective of efficiency improvement and analysis is to be done.

5.9 On completion of energy audit the report shall be prepared covering the scope of work, Requirements, forms and tables.

Warranty :

Price Basis :

Payment Instructions :

Payment Terms :

20% Payment on Submission of draft audit report and 80% payment after 90 Days od completion of work duly signed by Head General Engg.

Despatch to :

ARTEMIS MEDICARE SERVICES LTD

Sector 51, Gurgaon 122001, Haryana, India. Ph: +91 124 6767 999 | Fax: +91 124 6767 701 | Emergency & Trauma: +91 124 6767 000.

♦ Artemis Hospital (A unit of Artemis Medicare Services Ltd.)

♦ Sector 51, Gurugram - 122001, Haryana, India. Ph.: +91-124-6767 999 | Fax: +91-124-6767 701 | **Emergency & Trauma: +91-124-6767 000**

♦ Registered Office: Plot No. 14, Sector 20, Dwarka, New Delhi - 110075 | Corporate Office: Artemis Hospital, Sector 51, Gurugram 122001, Haryana, India |

♦ CIN: U85110DL2004PLC126414 | GST: 06AAFCA0130M1Z1(HR), 07AAFCA0130M1ZZ(DEL) | TAN: DELA16048E | PAN: AAFCA0130M |

♦ Email: info@artemishospitals.com



GST No. : 06AAFCA0130M1Z1
Service Order No. : 4000004528
Date : 17.08.2018
Valid From : 17.08.2018
Valid To : 17.10.2018

Despatch instruction :

- 1.The Prices mentioned in the purchase order are provisional as the same are under negotiations considering the GST Provisions.
2. The Final settlements would be done on the basis of the mutually agreed prices and would be effective from 1st July 2017.
3. The supplier shall maintain the storage conditions as per OEM guidelines wherever applicable. The item(s) delivered should have minimum balance expiry of 12 months or half of the shelf life (in case of expirable item(s)) at the time of delivery.

Insurance :

Vendor's Scope

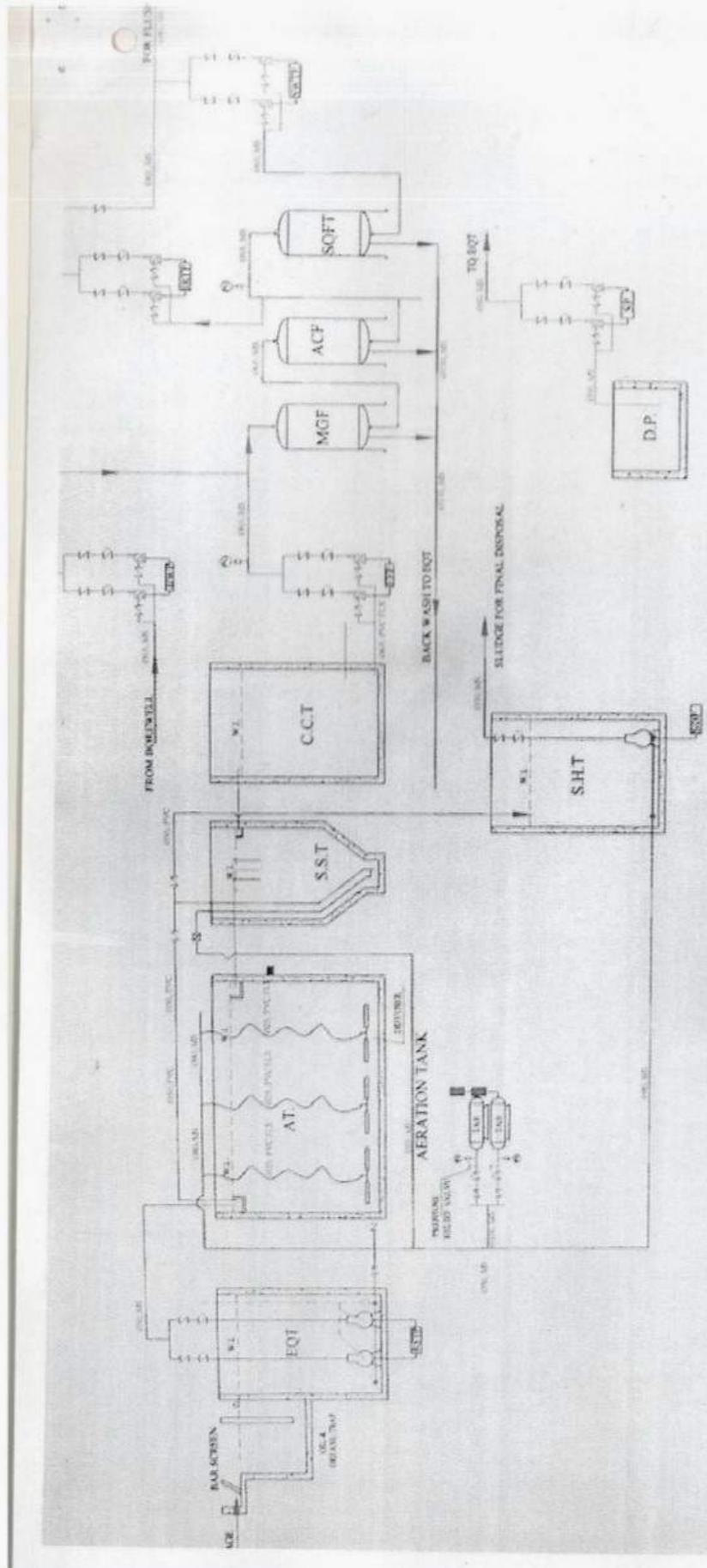
Prepared by :

Authorized Signatory:



◆ **Artemis Hospital (A unit of Artemis Medicare Services Ltd.)**

◆ Sector 51, Gurugram - 122001, Haryana, India. Ph.: +91-124-6767 999 | Fax: +91-124-6767 701 | **Emergency & Trauma: +91-124-6767 000**
◆ Registered Office: Plot No. 14, Sector 20, Dwarka, New Delhi - 110075 | Corporate Office: Artemis Hospital, Sector 51, Gurugram 122001, Haryana, India |
◆ CIN: U85110DL2004PLC126414 | GST: 06AAFCA0130M1Z1(HR), 07AAFCA0130M1ZZ(DEL) | TAN: DELA16048E | PAN: AAFCA0130M |
◆ Email: info@artemishospitals.com



SCHEMATIC OF SEWAGE TREATMENT PLANT OF CAPACITY 325 KL/DAY

PROJECT:-
STP AT ARTEMIS HOSPITAL, GURGA
 CLIENT:-
D.S.GUPTA CONSTRUCTIONS PVT. L
 PREPARED BY:-
BRISANZIA TECHNOLOGIES
NEW DELHI
 (email - info@brisanzia.com, website - www.brisanzia.com)
 TITLE: AS BUILT FLOW SCHEME

DESIGNED	ZUB		DWG NO
DRAWN	ED		

MARK	DESCRIPTION	QTY
101	1000 LTR 1000 BAR SCREEN PUMP	01
102	1000 LTR 1000 BAR SCREEN	01
103	1000 LTR 1000 BAR SCREEN	01
104	1000 LTR 1000 BAR SCREEN	01
105	1000 LTR 1000 BAR SCREEN	01
106	1000 LTR 1000 BAR SCREEN	01
107	1000 LTR 1000 BAR SCREEN	01
108	1000 LTR 1000 BAR SCREEN	01
109	1000 LTR 1000 BAR SCREEN	01
110	1000 LTR 1000 BAR SCREEN	01
111	1000 LTR 1000 BAR SCREEN	01
112	1000 LTR 1000 BAR SCREEN	01
113	1000 LTR 1000 BAR SCREEN	01
114	1000 LTR 1000 BAR SCREEN	01
115	1000 LTR 1000 BAR SCREEN	01
116	1000 LTR 1000 BAR SCREEN	01
117	1000 LTR 1000 BAR SCREEN	01
118	1000 LTR 1000 BAR SCREEN	01
119	1000 LTR 1000 BAR SCREEN	01
120	1000 LTR 1000 BAR SCREEN	01

MARK	DESCRIPTION	QTY
101	1000 LTR 1000 BAR SCREEN PUMP	01
102	1000 LTR 1000 BAR SCREEN	01
103	1000 LTR 1000 BAR SCREEN	01
104	1000 LTR 1000 BAR SCREEN	01
105	1000 LTR 1000 BAR SCREEN	01
106	1000 LTR 1000 BAR SCREEN	01
107	1000 LTR 1000 BAR SCREEN	01
108	1000 LTR 1000 BAR SCREEN	01
109	1000 LTR 1000 BAR SCREEN	01
110	1000 LTR 1000 BAR SCREEN	01
111	1000 LTR 1000 BAR SCREEN	01
112	1000 LTR 1000 BAR SCREEN	01
113	1000 LTR 1000 BAR SCREEN	01
114	1000 LTR 1000 BAR SCREEN	01
115	1000 LTR 1000 BAR SCREEN	01
116	1000 LTR 1000 BAR SCREEN	01
117	1000 LTR 1000 BAR SCREEN	01
118	1000 LTR 1000 BAR SCREEN	01
119	1000 LTR 1000 BAR SCREEN	01
120	1000 LTR 1000 BAR SCREEN	01

OPEX – REPAIR & MAINTENANCE / SPARES / EQUIPMENT
ACCESSORY REQUIREMENT APPROVAL NOTE

OPEX CATEGORY (PLSTICK):	<input type="checkbox"/> R & M (SERVICE)	<input type="checkbox"/> R & M (SPARES)	<input type="checkbox"/> EQUIPMENT ACCESSORY	<input type="checkbox"/> ANY OTHER, PLSTICKMENT BELOW
DEPENDING CAPEX CATEGORY (PLSTICK):	<input type="checkbox"/> CIVIL	<input type="checkbox"/> MEDICAL	<input type="checkbox"/> NON-MEDICAL	<input type="checkbox"/> INFO. TECH (IT)
DEPARTMENT	BUDGET REF.	TOTAL SANCTIONED BUDGET	UTILIZED BUDGET (AMT. & %AGE)	AVAILABLE BUDGET (AMT. & %AGE)
GENERAL ENGINEERING	BUDGETED	245 LAC	5976698/- 24.39%	185.23/- 75.61%
EQUIPMENT NAME	COMPLIANCE	MODEL & SERIAL NO.	NA	SERVICE REPORT ATTACHED (Y / N):

PARTICULARS	CAT. NO.	REQD. QTY.	UNIT RATE (RS.)	TOTAL COST (RS.)	REMARKS
UV system for STP with Panel UV system for STP as per advise by Advisor Ministry of Environment, Forest & Climate Change Chandigarh		1 no.	136220/-	136220/-	
TOTAL ESTIMATED EXPENDITURE (RS.)				136220/-	(EXCLUDING TAXES)

As Compliance Recommended
By Advisor (MOEF/Climate Change
Ministry)

(Please attach & mention Quotation reference or last PO No.):

DATE OF LAST PROCUREMENT OF SAME SPARE / ACCESSORY / REPAIR WORK (if any), (Please attach & mention the PO No. & Date):

REASON FOR REPAIR OR REPLACEMENT OF OLD ACCESSORY / SPARE:

OBSERVATION & RECOMMENDATION FROM TECHNICAL/ FUNCTIONAL DEPARTMENT:

PREPARED BY	FUNCTIONAL HEAD	END USER	MEDICAL SUPERINTENDENT	FINANCE DEPT. (BUDGETED/ NON-BUDGETED & PO CATEGORY (CAPEX/ OPEX))
<i>[Signature]</i>	<i>[Signature]</i>	<i>[Signature]</i>		<i>[Signature]</i> 17/7/17

CFO ¹	MEDICAL DIRECTOR ²	CEO & ED ³
<i>[Signature]</i>		<i>[Signature]</i>

TO BE CHECKED AND FILLED BY SUPPLY CHAIN DEPT.

REQUIREMENT BUDGETED (Y / N)	REF. QUOTATION / REPEAT PO ATTACHED (Y / N)	CONTROL NO. & DATE

1. Approval is required for (a) issuing any repeat purchase order for Spares (within 6 months of previous purchase) and (b) any civil works (opex) up to Rs. 0.50 Lacs (excl. taxes) for both.
2. Approval is required for any Info. Tech. (IT) Expenditure of any value
3. Approval is required for any (a) Non-Budgeted (any category or value), (b) Spares for Repair & Maintenance work (R&M) and (c) any civil works (opex) above Rs. 0.50 Lacs (excl. taxes).
(d) Any vendor advance payment above 10% of purchase value (excl. taxes).
Purchase Review Committee 's (constituting: DH-Supply Chain, DH-Finance & Accounts, Head-User Dept., Controller-Supply Chain(drugs)) approval is required for (a) purchase of spares

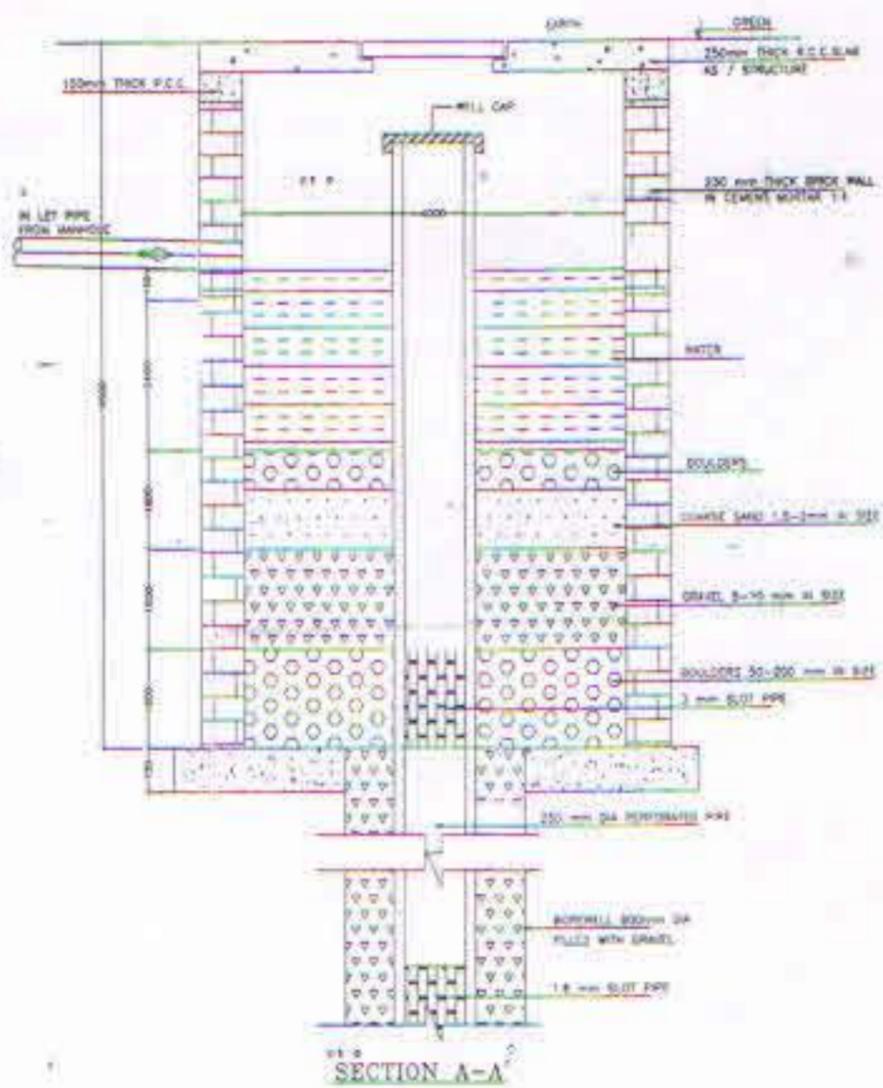
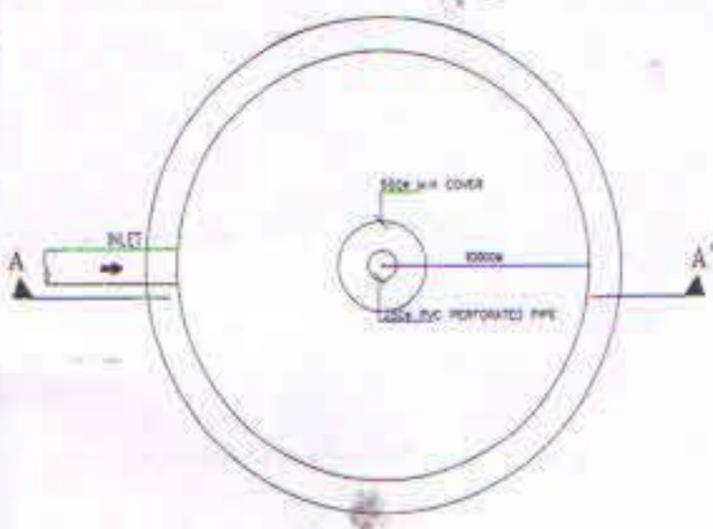
DEEPAK TECH INDIA

PLOT NO.6, KHEDI ENCLAVE PART1, BALLABGARH - SOHNA ROAD, NIT, FARIDABAD - 121001
PH: (0129) 6460211, 9810827782, 9911347782, EMAIL: info@deepaktech.com; WEB: www.deepaktech.com

FINANCIAL OFFER

S.NO	PRODUCT SPECIFICATION	QTY.	UNIT PRICE (Rs.)	Amount (Rs.)
1.	UV system for STP with Panel Model: WL - 8 Make: Alfa	01 No.	139000/-	139000.00
	Less: Discount 2%			2780.00
	Total Price			1,36,220.00

(Rupees One Lac Thirty Six Thousand Two Hundred Twenty Only)
Sales Tax: Extra as 18%
Freight: Extra as per actual.
Payments: 80% advance with PO.



Page No.

CLIENT	ARTEMIS MEDICARE SERVICES (P) LTD
PROJECT	ARTEMIS HEALTH INSTITUTE
PROJECT ADDRESS	CUSHMAN & WAKEFIELD BANK COMMERCIAL COMPLEX SUPP. BANGLORE SALASBARINGI ENCLAVE NEW DELHI - 110008 TEL: 011-26121111 FAX: 011-26121111
ARCHITECTS	ACHAL KATARIA ARCHITECTS G-13 PHASE I BLOCK FLOOR 11 NEW DELHI - 110042 PH: 011-26111111 MO: 9110111111
DESIGN CONSULTANT	SPECTRAL SERVICES CONSULTANTS PVT. LTD. 1-4/2000 KANUNO ROAD 4TH FLOOR NEW DELHI 110002
DRAWING TITLE	TYPICAL MAN WATER (UNDERGROUND) INT DETAIL
DATE	22-08-2018
SCALE	1:10
SCALE	1:10

DRAWING No.10

OUR
SPECIALITY
IS
YOU

www.artemishospitals.com

ARTEMIS
HOSPITALS

SERVICE ORDER

3100704
NIPS Tec Ltd.
NIPS Tec Ltd. C/o D-82/FF, Malviya
Nagar
New Delhi
110017-Delhi
India

Service Order No. : 4000003343
Date : 07.10.2016
Valid From : 07.10.2016
Valid To : 17.12.2016

Your Ref : Invoice No- NIPSTec/2016-17/49, dtd- 19.08.2016
Our Ref : C.No- 795, dtd- 04.10.2016 frm GE Deptt.

We are pleased to award you the order for the following services on the terms and conditions mentioned here under:

SL NO.	Code	Description	Unit	Quantity	Rate (INR)	Amount (INR)
1	00010	Cleaning of borewell of rainwater harves	AU	1.00	32200.00	32,200.00
		Cleaning of borewell of rainwater harves	NMB	2.00	14000.00	28,000.00
		Service Tax @15%	NMB	1.00	4200.00	4,200.00
		0% Input tax (CST)				
		NET AMOUNT				32,200.00

RS. THIRTY-TWO THOUSAND TWO HUNDRED ONLY

Total : 32,200.00

Notes :

The above cost is inclusive of all Taxes.

This is the continuation of PO- 4000003020, dtd- 06.04.2016

Warranty :

Price Basis :

Payment Instructions :

Payment Terms :

30 days after the receipt of mat/bill/ser rendered

Despatch to :

Work Completed. This is the regularisation of order.

Despatch instruction :

Insurance :

NA



Artemis Hospital (A unit of Artemis Medicare Services Ltd)

Sector 51, Gurgaon 122001, Haryana, India. Ph: +91 124 6767 999 | Fax: +91 124 6767 701 | Emergency & Trauma: +91 124 6767 000

Registered Office: 414/1, 4th Floor, DDA Commercial Complex, District Centre, Janak Puri, New Delhi 110 058 | Corporate Office: Artemis Hospital, Sector 51, Gurgaon 122001, Haryana, India
CIN: UBS1100L2004PLC126414 | TIN: 05461826988 (HR), 07300402760 (DEL), SERVICE TAX: AAFCA0130MST001, TAN No.: DELA1604BE, PAN: AAFCA0130M | Email: info@artemishospitals.com

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