

Half Yearly Compliance Report on Environmental Surveillance Monitoring & Compliance Status

(Period: 01.10.2017 to 31.03.2018)

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:



M/s ARTEMIS MEDICARE SERVICES LIMITED

Hospital Site, Sector – 51,
Gurgaon – 122 001, Haryana

Prepared 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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Introduction and Project Description

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/: 2805716GUNOCTOHWM2582153 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:450 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:

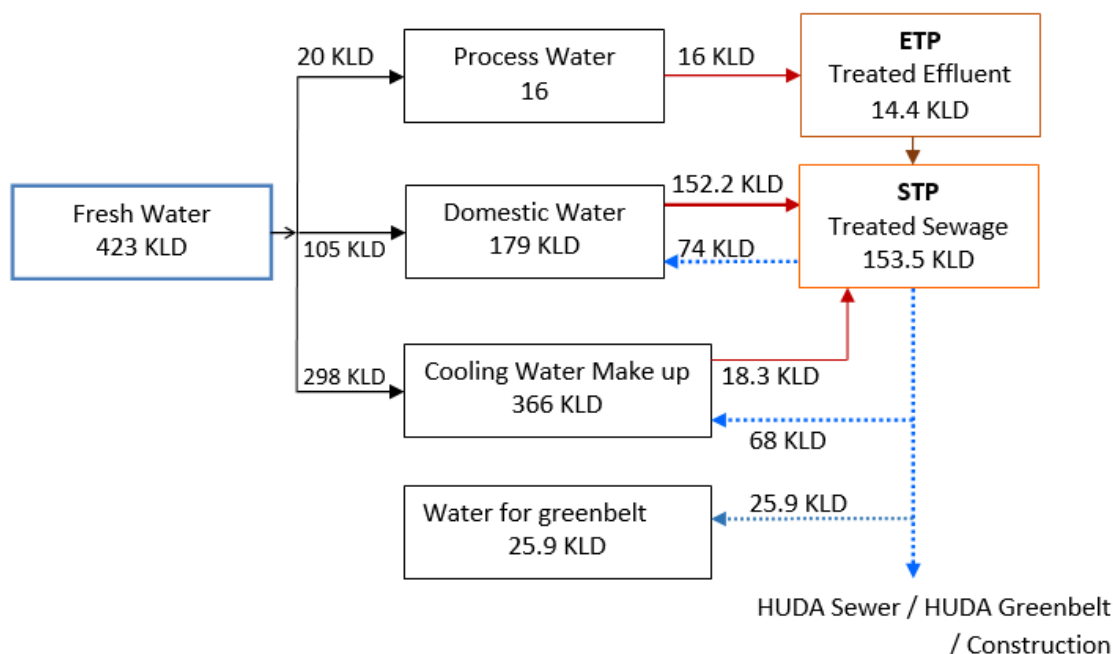
1) **Area:** Total plot area of the project is 32860.83 SQM and total built up area is 28801.57 SQM.

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.17	May.17	Jun.17	Jul.17	Aug.17	Sep.17
1	Bed Occupancy %	93	90	87	90	92	95

3) **Water Consumption:** The total water requirement is 450 KLD at maximum. However, currently the water consumption is nearly 329.2 KLD, out of which fresh water requirement is about 236.2 KLD. Fresh water is sourced from the HUDA water supply. Nevertheless, water is withdrawn through bore wells in case of 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. Fire NOC with validity till 2nd May 2018 and 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: Segregated at site and managed by M/s Vulcan Waste Management Company. The final disposal is being done at the Common waste disposal site earmarked by Municipal Corporation of Gurgaon.

(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. 360 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 29.11.2017 and Form 10 retained. Earlier, on 06.06.2017 also 275 Litre of used oil was handed over to the same Party and Form 10 retained. Form – 4 was submitted to Haryana State Pollution Control Board on 10.04.2018 (Please refer Annexure-A2). Quantity in store as on 31.03.2018 is 15 liter.

(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. There was no disposal of E-Waste during the period of this reporting.

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 01.10.2017 through 31.03.2018, which is due on 1st June 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	Appx. Non-recurring Cost in (₹)	Appx. Recurring Cost		
		during 01.04.2017 – 30.09.2017 in Lakh (₹)	during 01.10.2017 – 31.03.2018 in Lakh (₹)	Annual
APCM	2.5	0.00	0.00	0.00
STP & ETP	30.4	6.15	6.15	12.30
BMW & Garbage Disposal	--	1.54	1.54	3.08
Noise control	2.0	0.50	0.00	0.50
Monitoring and environmental services	--	1.20	1.26	2.46
Rainwater Harvesting	5.0	2.30	2.30	4.60
Greenbelt Maintenance	3.0	2.10	2.10	4.20
Miscellaneous	23.5	6.00	1.16	7.16
TOTAL	66.4	19.79	14.51	34.30

Additionally Expenditure towards CSR activities was ₹33.44 Lakh Appx.

1.6 Schedule for Next Half-Yearly Compliance Report:

The next half yearly progress report shall be submitted latest by 1st December 2018 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: 01.10.2017 to 31.03.2018

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. 4474-4476 dated 11.04.2018 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 35.9 dB(A), which is less than 45 dB (A). Test Report No. 4469 dated 11.04.2018 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 sewage treatment plant of 325 KLD capacity has been installed with provision to treat the wastewater. The treated wastewater is being reused for cooling tower make-up, flushing, landscaping and gardening. The treated sewage does conform to GSR 1265 (E) dated 13 th October 2017 as well as 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 – considering tested parameters. Test Report No. 4472 dated 11.04.2018 issued by NABL Accredited “M/s Ultratec Research & Analytik Labs,

S. No.	Condition	Note on Compliance Status
		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 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	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 post-monsoon period. A self-explanatory schematic diagram of the rainwater harvesting structure is attached as Annexure-A8.
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. All the wastes including STP sludge are being managed by external agency. The final disposal of solid waste is being carried out at common waste management facility provided by Municipal Corporation of Gurgaon.
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	(i) 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. HSPCB/EE/BMW/6708 Dated 31 st March, 2015. Supporting document enclosed, please refer Annexure-A2. (ii) 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.
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. 4469 dated 11.04.2018 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

S. No.	Condition	Note on Compliance Status
		<p>performed on 24 hourly basis for the parameters such as PM₁₀, PM_{2.5}, Sulfur Dioxide (as SO₂), Oxides of Nitrogen (as NO₂), Carbon Monoxide (as CO) Ozone as O₃ and Ammonia as NH₃. All the parameters were observed to be within the permissible limits prescribed in Central Pollution Control Board's National Ambient Air Quality Standards for Residential Areas. Test Report No. 4466-4468 dated 11.04.2018 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. 4470-4471 dated 11.04.2018 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 attached, please see Annexure-A8)
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.
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 (copy attached, please see Annexure-A8).

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 01.10.2017 to 31.03.2018.
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	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

S. No.	Condition	Note on Compliance Status
	Department, State Forest Department, Wildlife Act, 1972 etc. shall be obtained by the project proponents from competent authorities.	<p>2) Fire NOC renewed vide No. MCG/FS/SFSO/2017/240 Dated 06.05.2017</p> <p>3) Permission for regular water supply connection vide Memo No. 4098-99 dated 19.03.2018 has been obtained from the Office of the Executive Engineer, HSVP, Division No. III, Gurugram.</p> <p>All copies enclosed in sequence in Annexure – A3</p>
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 Accredited vide Certificate No. TC-6744 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 12th – 13th March 2018: -

3.3.1 Ambient air Quality (3 No.) for 7 common parameters: 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.

3.3.5 **Sampling & Testing of soil samples** (1 No.) for Parameters: pH, Conductivity, Water Content, Water Retention Capacity, Organic Matters, Exchangeable Calcium as Ca, Available Nitrogen, Available Phosphorous as P_2O_5 , Available Potassium as K_2O , Soluble Sulphate and Boron as B.

3.3.6 **Sampling & Testing of Untreated and Treated Wastewater samples** (4 No.) from STP Inlet and Outlet as well as ETP Inlet and Outlet for Parameters: pH, TDS, TSS, BOD_3 at $27^\circ C$, COD and Oil & Grease. Faecal Coliform parameter was tested in case of STP outlet.

3.3.7 **Sampling & Testing of Stack emission samples** (2 No.) for parameters for DG sets: PM, NO_2 , CO, NMHC as C, O_2

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:

- Respirable Suspended Particulate Matters of size less than $2.5 \mu m$ ($PM_{2.5}$)
- Respirable Suspended Particulate Matters of size less than $10 \mu m$ (PM_{10})
- Sulphur Dioxide (SO_2)
- Oxides of Nitrogen (NO_2)
- Carbon Monoxide (CO)
- Ozone (as O_3)
- Ammonia (as NH_3)

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 ¹
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	UL/STM/A/09 ²
NH ₃	Colorimetric Measurement	UL/STM/A/04 ³

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

¹SOP 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

² SOP based on CPCB Guidelines: NAAQS Monitoring & Analysis Guidelines Volume-I, Central Pollution Control Board, May, 2011, Page 38; Guidelines for sampling and analysis protocol for ozone in ambient air (Chemical Method)

³ SOP based on 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 (Chemical Method)

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**.

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 9876, IS 9989 and UL/SOP/EX/05, 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 time⁴. The noise equivalent levels (Leq) were recorded at different locations and reported in the unit of dB (A).

Method specified in IS/ISO 8528-10: 1998 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 groundwater 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

⁴Reference: Schedule of the Noise Pollution (Regulation and Control) Rules, 2000

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 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 main entrance	Hospital

Table 3.6 Test Parameters and 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:

Topsoil is rich in organic content and is essential for new 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 Sample⁵

S. No.	Parameters	Test Protocol
1	pH Value at 25°C	IS: 2720 Pt 26
2	Conductivity at 25°C	IS:14767
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

⁵ UL.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 ⁶ 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	Total Dissolved Solids	IS :3025 (Pt-16)	Gravimetric
4	BOD ₃ at 27°C	IS: 3025 (Pt-44)	Incubation & Titrimetric
5	COD	IS: 3025 (Pt-58)	Digestion & Titrimetric
6	Oil & Grease	IS: 3025 (Pt-39)	Partition Gravimetric
7	Faecal Coliform	IS 1622	Incubation

⁶Non-methane Hydrocarbon

3.5 Results and Discussions:

3.5.1 Ambient Air Quality Monitoring Results

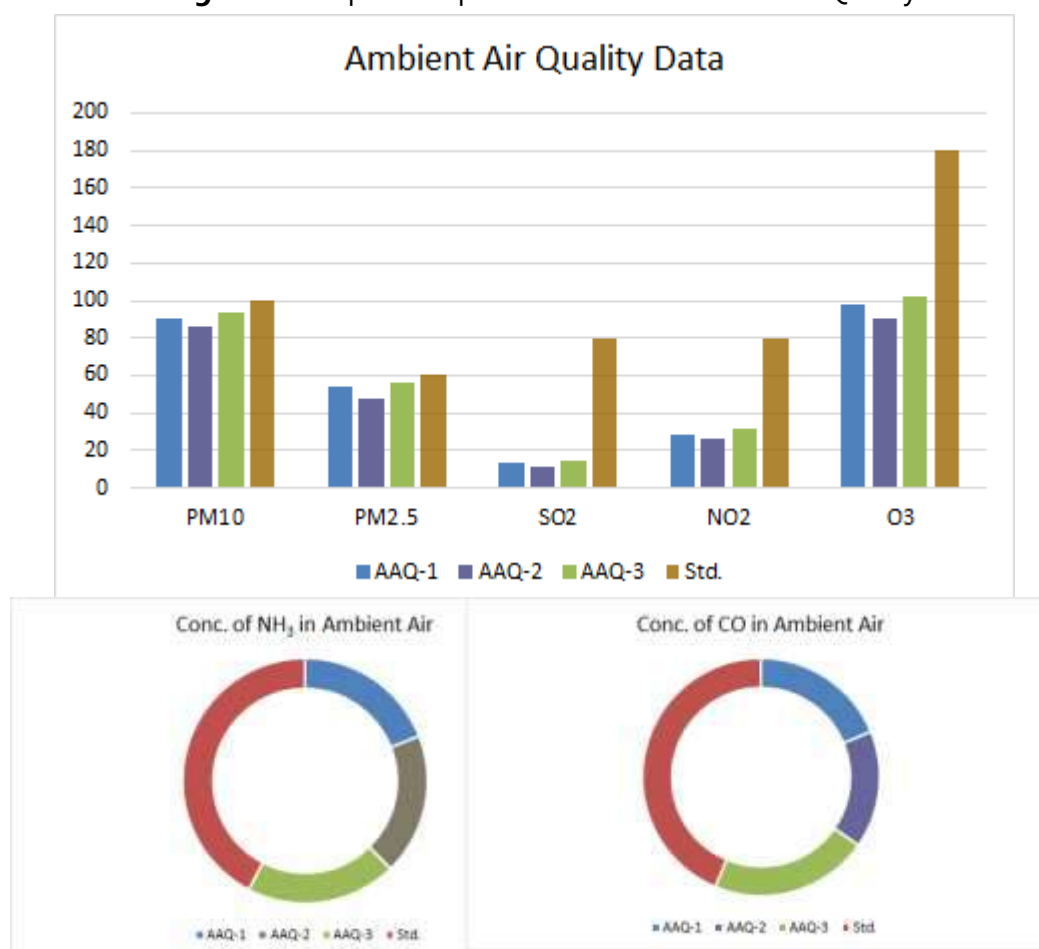
The detailed monitoring results of PM_{2.5}, PM₁₀, SO₂, NO₂, CO, O₃ and NH₃ are presented in **Table 3.11**.

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	54	13.5	28.0	98	1.72	180
2.	AAQ-2	86	48	11.2	25.8	90	1.46	176
3.	AAQ-3	94	56	14.0	31.5	102	1.98	188

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 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 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 53.8 dB (A) towards south eastern direction and 54.8dB (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 35.9 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.

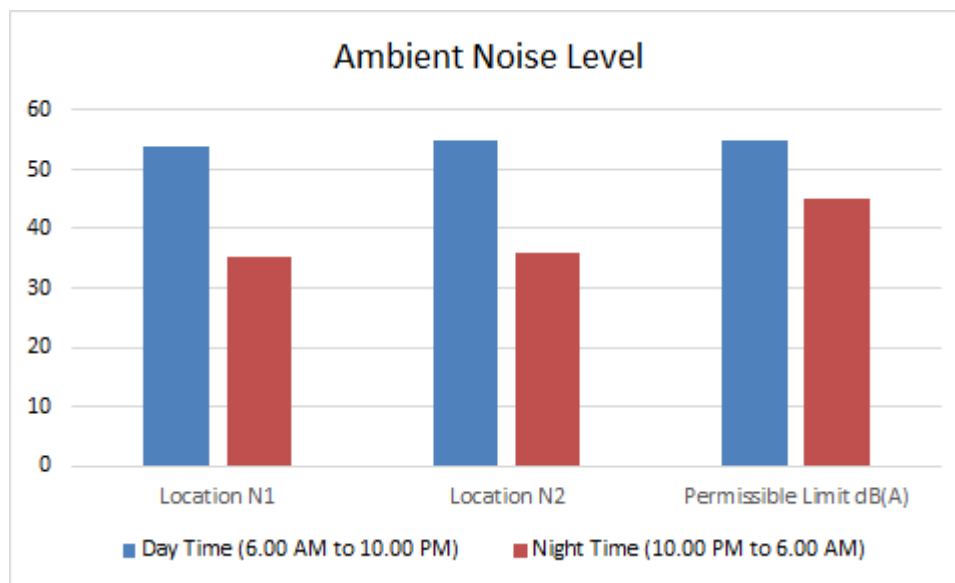


Figure-2: Graphical representation of Ambient Noise Level

3.5.3 Source Noise Levels

Total insertion loss after acoustic treatment of DG sets was found to be 25.8 and 25.3 dB (A), respectively. Therefore, DG set noise conforms to the requirement of acoustic treatment being designed for minimum 25 dB (A) insertion loss.

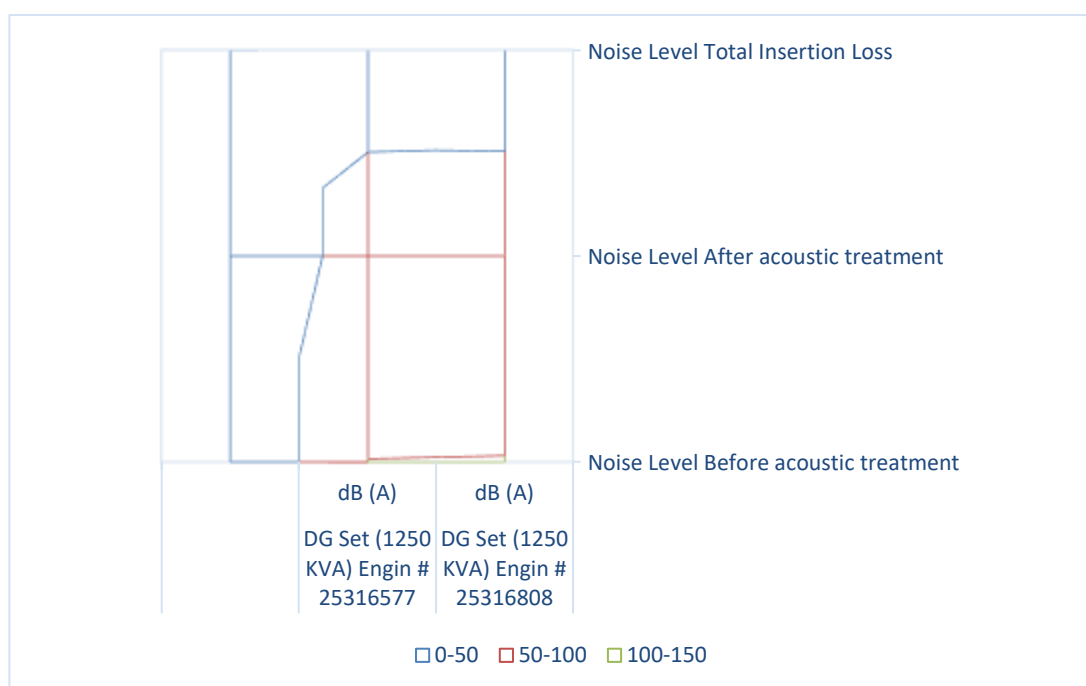


Figure-3: Graphical representation of DG Sound Level

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	1.2	1.7	1 (5)
4	pH Value at 25°C	-	7.94	8.36	6.5-8.5
5	Total Dissolved Solids	mg/L	492	638	500 (2000)
6	Ammonia as total NH ₃ -N	mg/L	<0.02	<0.02	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	55	58	75 (200)
10	Chemical Oxygen Demand	mg/L	<20	22	-
11	Chlorides as Cl	mg/L	71	81	250(1000)
12	Fluorides as F	mg/L	0.58	0.81	1.0 (1.5)
13	Iron as Fe	mg/L	0.22	0.25	0.3 (0.3)
14	Magnesium as Mg	mg/L	9	21	30 (100)
15	Nitrate as NO ₃ ⁻	mg/L	9.5	14.2	45 (45)
16	Phenolic Compounds as C ₆ H ₅ OH	mg/L	<0.001	<0.001	0.001 (0.001)
17	Potassium as K	mg/L	25	35	-
18	Silica as SiO ₂	mg/L	8.3	9.6	-
19	Sodium as Na	mg/L	119	140	-
20	Sulphates as SO ₄	mg/L	55	61	200 (400)
21	Sulphide as H ₂ S*	mg/L	<0.05	<0.05	0.05 (0.05)

S. No.	Parameters	Units	Bore Well No. 1	Bore Well No. 2	Standard*
22	Total Alkalinity as CaCO ₃	mg/L	243	359	200 (600)
23	Total Hardness as CaCO ₃	mg/L	142	232	200 (600)
24	Total Coliform*	MPN/100ml	Absent	Absent	**
25	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 1.2 and 1.7 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 7.94 and 8.36, respectively that falls within the acceptable limit.
5. Total Dissolved Solids: Concentration of TDS was found to be 492 and 638 mg/L, respectively. Therefore, TDS in water from bore well 1 meets acceptable limit while that in bore well 2 is 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 0.02 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 55 and 58 mg/L, respectively, which is within the acceptable limit of 75 mg/L.
10. Chemical Oxygen Demand (COD): COD in sample drawn from bore well 1 was found to be less than 20 mg/L, while it was 22 mg/L in the sample drawn from bore well 2. Indian Standards Specification for Drinking Water IS: 10500, 2012 does not specify any limit for COD.
11. Chlorides as Cl⁻: Concentration of Chlorides as Cl⁻ was observed to be 71 and 81 mg/L, respectively. Both the values are within the acceptable limit of 250 mg/L.
12. Fluorides as F⁻: was recorded to be 0.58 and 0.81 mg/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 0.22 and 0.25 mg/L, respectively. Both the values are within the acceptable limit of 0.3 mg/L.
14. Magnesium as Mg was found to be 9 and 21 mg/L, respectively, which is within the acceptable limit of 30 mg/L.

15. Nitrate: Nitrate was measured to be 9.5 and 14.2 mg/L, respectively. Both the values are within the acceptable limit of 45 mg/L.
16. Phenolic Compounds as C_6H_5OH : 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. Potassium: was observed to be 25 and 35 mg/L, respectively. There is no standard specified for this parameter in the Indian Standards Specification for Drinking Water IS: 10500, 2012.
18. Silica: Observed value of Silica as SiO_2 was found to be 8.3 and 9.6 mg/L, respectively. There is no standard specified for this parameter in the Indian Standards Specification for Drinking Water IS: 10500, 2012.
19. Sodium: Observed value of Na was found to be 119 and 140 mg/L, respectively. There is no standard specified for this parameter in the Indian Standards Specification for Drinking Water IS: 10500, 2012.
20. Sulphate: Concentration of Sulphates as SO_4^{2-} was observed to be 55 and 61 mg/L, respectively, which is within the acceptable limit of 200 mg/L.
21. Sulphide as H_2S : 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.
22. Total Alkalinity as $CaCO_3$: was found to be 243 and 359 mg/L, respectively. Therefore, Total Alkalinity as $CaCO_3$ in both the water samples fail to meet acceptable limit but within the permissible limit but exceeds requirement of 600 mg/L.
23. Total Hardness as $CaCO_3$: was found to be 142 and 232 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.
24. Sodium Absorption Ratio (SAR): Observed value of SAR was found to be 3.7 and 3.5, respectively. There is no standard specified for this parameter in the Indian Standards Specification for Drinking Water IS: 10500, 2012.

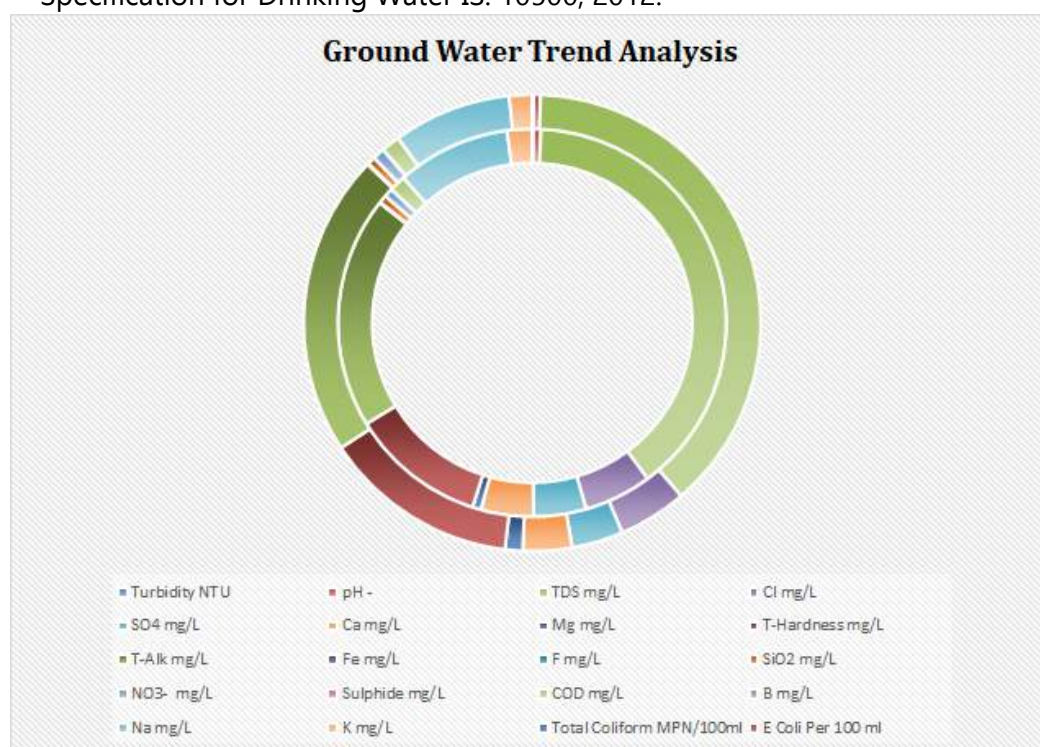


Figure-4: Graphical representation of Ground Water Quality

3.5.4.2.2 Bacteriological Parameters:

1. **Total Coliform:** Total Coliform bacteria was not detected, 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 not detected, 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	-	8.45	5.5 – 7.5	IS: 2720 Pt 26
2	Conductivity at 25°C	µmhos/cm	360	-	IS:14767
3	Water Contents	%	16	-	IS: 2720 Pt 2
4	Water Retention Capacity	%	26.5	-	IS:14765
5	Organic Matters	%	1.42	0.86 Min.	IS: 2720 Pt 22
6	Available Nitrogen	Kg/Hectare	316	280 Min.	UL.STM.S.03
7	Available Phosphorous as P ₂ O ₅	Kg/Hectare	26	10 Min.	UL.STM.S.04
8	Available Potassium as K ₂ O	Kg/Hectare	130	108 Min.	UL.STM.S.05
9	Exchangeable Calcium	meq/100 ml	1.75	1.5 Min.	UL.STM.S.10
10	Soluble Sulphates as Na ₂ SO ₄	ppm	15	8 – 30 ppm	IS: 2720 Pt 27
11	Boron as B	ppm	0.96	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 8.45 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. 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 0.36 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 1.42%. Organic carbon concentration was 0.83 %. Hence, the soil samples 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%)⁷.
- (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.

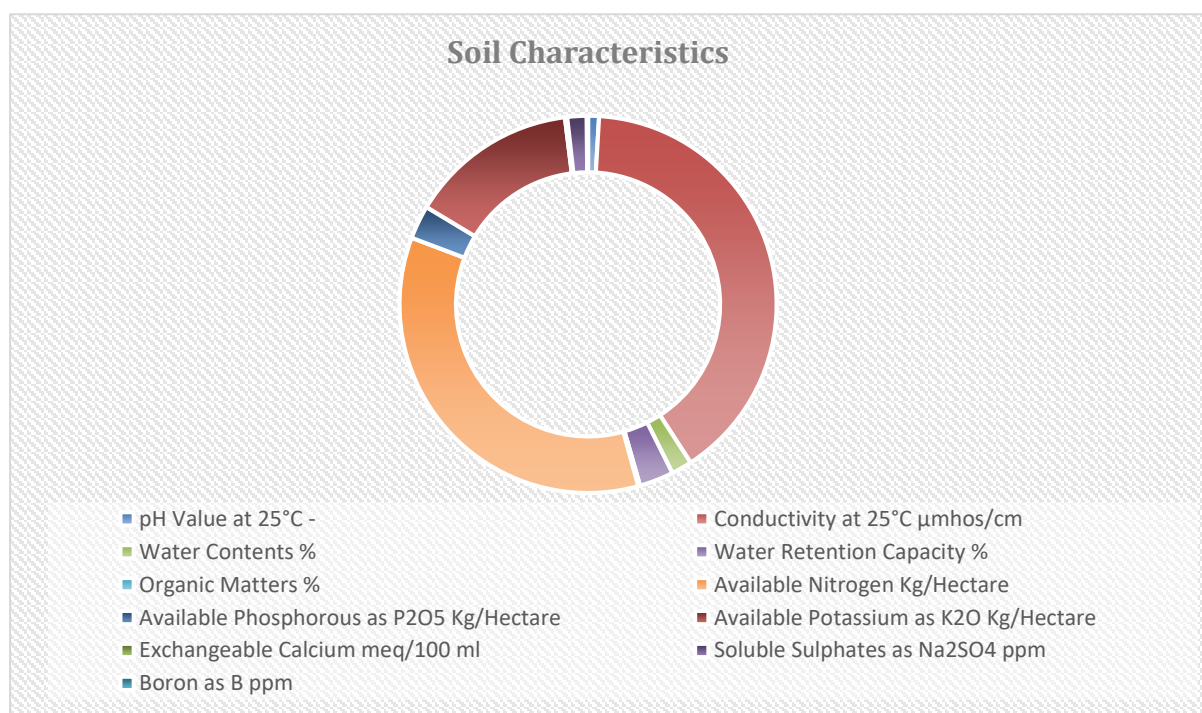


Figure-5: Graphical representation of Soil Quality

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:

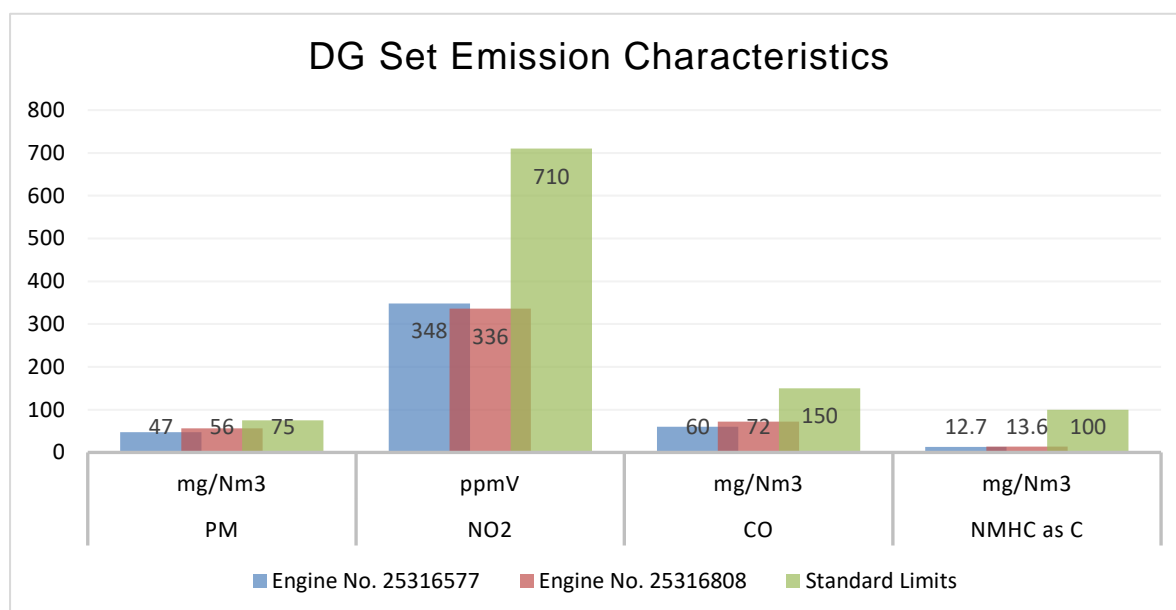
⁷Reference table 1.4: Rating chart for soil test values of primary nutrients, Manual on norms and standards for environmental clearance of large construction projects

Table 3.14: Stack Emission Results

S. No.	Parameters	Unit	Engine No. 25316577	Engine No. 25316808	Standard Limits
1	Particulate Matters	mg/Nm ³	47	56	75
2	Oxides of Nitrogen as NO ₂	ppmV	348	336	710
3	Carbon Monoxide as CO	mg/Nm ³	60	72	150
4	NMHC as C	mg/Nm ³	12.7	13.6	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 generated. 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. Capacity of the ETP is 25 KLD. The ETP treats biodegradable wastewater containing high BOD and COD.

Table 3.15: Results of untreated and treated sewage

S. No.	Parameters	Units	Results		Standards
			"STP Outlet"	"ETP Outlet"	
1	pH Value at 25°C	-	7.75	7.45	5.5-9.0
2	Total Dissolved Solids	mg/l	826	564	2100
3	Total Suspended Solids	mg/l	22	18	100
4	BOD ₃ at 27°C	mg/l	20	16	30
5	COD	mg/l	64	64	250
6	Oil & Grease	mg/l	0.8	1.0	10
7	Faecal Coliform	MPN/100ml	46	Not Required	1000

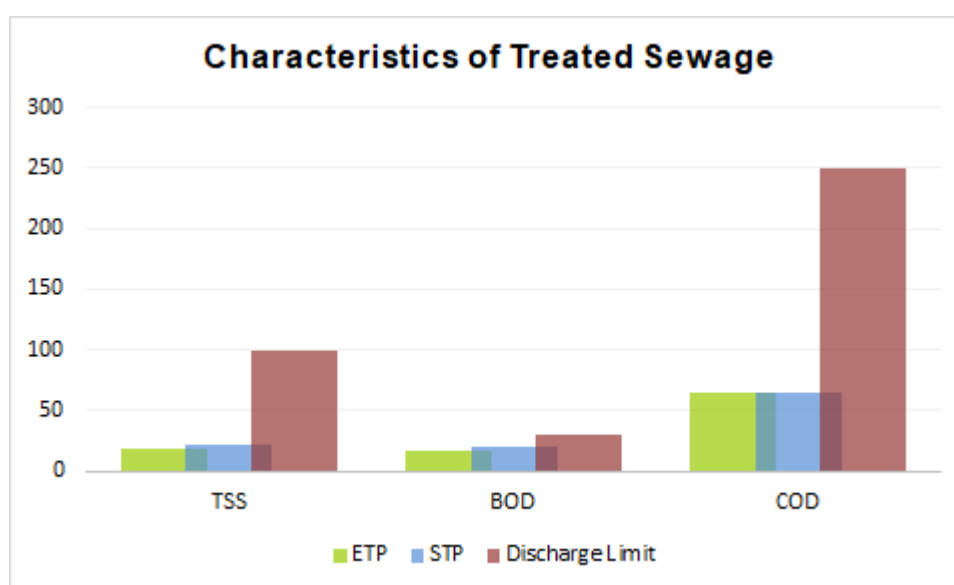


Figure-7: Graphical representation of Treated Wastewater characteristics

The treated sewage quality meets limits specified in the GSR 1265 (E) dated 13th October 2017. Additionally the two test parameters COD and Oil & Grease were carried out that meets requirement of General Standards for Discharge of Environmental Pollutants. 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 March, 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.
- (i) All test reports referred are annexed as Annexure A1.

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. **4466**

Issued To:

M/s Artemis Medicare Services Ltd.
Artemis Health Institute
Hospital Site, Sector - 51
Gurgaon 122 001, Haryana

Date of Issue:	11.04.2018
Sample Code No.:	17181077A11
Date of Sample Receipt:	12.03.2018
Sampling Method:	IS 5182 & UL/STM/A/01

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

MONITORING DATA

(i)	Date of Starting Monitoring	12.03.2018
(ii)	Date of Closing Monitoring	13.03.2018
(iii)	Sampling Start Time (Hour)	12:30
(iv)	Sampling Complete Time (Hour)	12:30
(v)	Actual Time of Sampling (min)	1439.7
(vi)	Flow Rate for PM ₁₀ (m ³ /min)	1.09
(vii)	Total Volume of Air sampled for PM ₁₀ (m ³)	1562.0745
(viii)	Total Volume of Air sampled for PM _{2.5} (m ³)	23.9660
(ix)	Maximum Ambient Temperature (°C)	31
(x)	Minimum Ambient Temperature (°C)	12.4
(xi)	Weather Condition & Rainfall	No rainfall, clear weather suitable for monitoring

TEST RESULTS

S. No.	Parameters	Units	Results	NAAQS	Time Weighted Average	Test Protocol
1.	Sulphur Dioxide as SO ₂	µg/m ³	18.5	80	24 hours	IS 5182 (Pt-2)
2.	Nitrogen Dioxide as NO ₂	µg/m ³	28	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	54	60	24 hours	UL/STM/A/11
5.	Ozone as O ₃	µg/m ³	98	180	1 hour	IS 5182 (Part-9)
6.	Carbon Monoxide as CO*	mg/m ³	1.72	4	1 hour	IS 5182 (Pt-10)
7.	Ammonia as NH ₃	µg/m ³	180	400	24 hours	APHA

Note:

1. Samples collected / not collected by our representatives
2. Sample Testing Period: 12.03.2018 to 22.03.2018
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.

<<<<<<<<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 report does 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.

ULTRATEC RESEARCH & ANALYTICAL LABS

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

Plot No. 115, Daulatabad Road, Industrial Area, Sector-104, Gurgaon-122 606 (Haryana)

Telephone: +91-9512491227 | Email: labs@ecocorporate.com | Website: www.ecocorporate.com/ultratec.html

TEST REPORT

No. 4467

Issued To:

M/s Artemis Medicare Services Ltd.
Artemis Health Institute
Hospital Site, Sector - 51
Gurgaon-122 001, Haryana

Date of Issue:	11.04.2018
Sample Code No.:	17181077A12
Date of Sample Receipt:	12.03.2018
Sampling Method:	IS 5182 & UL/STM/A/01

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

MONITORING DATA

(i) Date of Starting Monitoring	: 12.03.2018
(ii) Date of Closing Monitoring	: 13.03.2018
(iii) Sampling Start Time (Hour)	: 13:05
(iv) Sampling Complete Time (Hour)	: 13:05
(v) Actual Time of Sampling (min)	: 1438.2
(vi) Flow Rate for PM ₁₀ (m ³ /min)	: 1.12
(vii) Total Volume of Air sampled for PM ₁₀ (m ³)	: 1603.593
(viii) Total Volume of Air sampled for PM _{2.5} (m ³)	: 23.998
(ix) Maximum Ambient Temperature (°C)	: 31
(x) Minimum Ambient Temperature (°C)	: 12.4
(xi) Weather Condition & Rainfall	: No rainfall, clear weather suitable for monitoring

TEST RESULTS

S. No.	Parameters	Units	Results	NAAQS	Time Weighted Average	Test Protocol
1.	Sulphur Dioxide as SO ₂	µg/m ³	11.2	80	24 hours	IS 5182 (Pt-2)
2.	Nitrogen Dioxide as NO ₂	µg/m ³	25.8	80	24 hours	IS 5182 (Pt-6)
3.	PM ₁₀	µg/m ³	86	100	24 hours	IS 5182 (Pt-23)
4.	PM _{2.5}	µg/m ³	48	60	24 hours	UL/STM/A/11
5.	Ozone as O ₃	µg/m ³	90	180	1 hour	IS 5182 (Part-9)
6.	Carbon Monoxide as CO*	mg/m ³	1.46	4	1 hour	IS 5182 (Pt-10)
7.	Ammonia as NH ₃	µg/m ³	176	400	24 hours	APHA

Note:

1. Samples collected / not collected by our representatives
2. Sample Testing Period: 12.03.2018 to 22.03.2018
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.

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



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

Note:

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ULTRATEC RESEARCH & ANALYTIK LABS

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

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TEST REPORT

No. 4468

Issued To:

M/s Artemis Medicare Services Ltd.
Artemis Health Institute
Hospital Site, Sector - 51
Gurgaon-122 001, Haryana

Date of Issue:	11.04.2018
Sample Code No.:	17181077A13
Date of Sample Receipt:	12.03.2018
Sampling Method:	IS 5182 & UL/STM/A/01

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

MONITORING DATA

(i)	Date of Starting Monitoring	12.03.2018
(ii)	Date of Closing Monitoring	13.03.2018
(iii)	Sampling Start Time (Hour)	13:25
(iv)	Sampling Complete Time (Hour)	13:25
(v)	Actual Time of Sampling (min)	1440
(vi)	Flow Rate for PM ₁₀ (m ³ /min)	1.15
(vii)	Total Volume of Air sampled for PM ₁₀ (m ³)	1656
(viii)	Total Volume of Air sampled for PM _{2.5} (m ³)	24.0028
(ix)	Maximum Ambient Temperature (°C)	31
(x)	Minimum Ambient Temperature (°C)	12.4
(xi)	Weather Condition & Rainfall	No rainfall, clear weather suitable for monitoring

TEST RESULTS

S. No.	Parameters	Units	Results	NAAQS	Time Weighted Average	Test Protocol
1.	Sulphur Dioxide as SO ₂	µg/m ³	14	80	24 hours	IS 5182 (Pt-2)
2.	Nitrogen Dioxide as NO ₂	µg/m ³	31.5	80	24 hours	IS 5182 (Pt-6)
3.	PM ₁₀	µg/m ³	94	100	24 hours	IS 5182 (Pt-23)
4.	PM _{2.5}	µg/m ³	56	60	24 hours	UL/STM/A/11
5.	Ozone as O ₃	µg/m ³	102	180	1 hour	IS 5182 (Part-9)
6.	Carbon Monoxide as CO*	mg/m ³	1.98	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: 12.03.2018 to 22.03.2018
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.

<<<<<<<End of Report>>>>>>>



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

Notes

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.
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4. Samples shall be destroyed after 1 week from date of issue of report, or as per standards.

ULTRATEC RESEARCH & ANALYTIK LABS

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

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TEST REPORT

No. 4469

Issued To:

M/s Artemis Medicare Services Ltd.
Artemis Health Institute
Sector - 51
Gurgaon-122-001, Haryana

Date of Issue: 11.04.2018
Sample Code No.: 17181077N11
Monitoring Methodology: IS 9889
Monitoring Instrument: Calibrated SLM-100

Monitoring Description: Ambient Noise level was at designated location inside Artemis Hospital, Sector - 51, Gurgaon

MONITORING DATA

(i) Date of Starting Monitoring 12.03.2018
(ii) Date of Closing Monitoring 13.03.2018
(iii) Sampling Start Time (Hour) 14:10
(iv) Sampling Complete Time (Hour) 14:10
(v) Approximate Ambient Temperature (°C) Max 31°C, Min 12.4°C
(vi) Approximate range of Relative Humidity (%) Max 93%, Min 31%
(vii) Most predominant wind direction, wind speed From NE, 3.6 kmph
(viii) Weather Condition & Rainfall Clear, dry weather, No rainfall

MONITORING RESULTS

S. No.	Location	Unit	Results		Standards for Area Code "C" in dB (A)	
			Day L_{eq}	Night L_{eq}	Day	Night
1.	Towards south-east direction at about 1 meter distance from boundary inside the project	dB (A)	53.8	35.4	55	45
2.	Towards North-west direction at about 1 meter distance from boundary inside the project	dB (A)	54.8	35.9	55	45

Note:

- Area Code "C" is meant for residential area as per Schedule of The Noise Pollution (Regulation and Control) Rules, 2000 and also condition stipulated in Environmental clearance vide letter No. 21-292/2007-IA/II dated July 19, 2007
- Day time is considered from 6AM to 10PM, while Night time is considered from 10 PM to 6AM as per Schedule of The Noise Pollution (Regulation and Control) Rules, 2000
- *As specified in Schedule of The Noise Pollution (Regulation and Control) Rules, 2000.
- L_{eq} denotes energy mean of the noise level over a specified period.

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



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

Note:

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ULTRATEC RESEARCH & ANALYTIC LABS

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Issued To:

TEST REPORT

No. 4470

M/s Artemis Medicare Services Ltd.
Artemis Health Institute
Sector - 51
Gurgaon-122 001, Haryana

1. Date of Issue:	11.04.2018
2. Sample Code No.:	17181077W11
3. Sample Received on:	12.03.2018
4. Sampling Method:	IS: 3025 (Part-1)
5. Appearance:	Apparently Clear
6. Quantity of Sample:	5 liters
7. Type of Sample:	Plastic Jerry Cane
8. Packing Details:	PET & Sterilized Glass Bottle

Sample Description: Ground water sample marked as "Bore well 1"

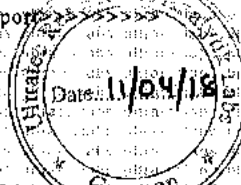
TEST RESULTS

S. No.	Parameters	Units	Results	Requirement (Permissible Limit)	Test Protocol
1.	Colour	Hazen	< 5	5(15)	IS 3025 (Part-4)
2.	Odour		Agreeable	Agreeable	IS 3025 (Part-5)
3.	Turbidity	NTU	1.2	1(5)	IS 3025 (Part-10)
4.	pH Value at 25°C		7.94	6.5-8.5	IS 3025 (Part-11)
5.	Total Dissolved Solids	mg/L	492	500(2000)	IS 3025 (Part-16)
6.	Ammonia as total NH ₃ -N	mg/L	<0.02	0.5	IS 3025 (Part-34)
8.	Anionic Detergents (as MBAS)	mg/L	<0.05	0.2	IS 13428 Annex K
9.	Boron as B	mg/L	<0.1	0.9	IS 3025 (Part-57)
9.	Calcium as Ca	mg/L	55	75 (200)	IS 3025 (Part-40)
10.	Chlorides as Cl	mg/L	171	250(1000)	IS 3025 (Part-32)
11.	Chemical Oxygen Demand	mg/L	<20		IS 3025 (Part-58)
12.	Fluorides as F	mg/L	0.58	1.0 (1.5)	IS 3025 (Part-60)
13.	Iron as Fe	mg/L	0.22	0.3 (0.3)	IS 3025 (Pt-53)
14.	Magnesium as Mg	mg/L	9	30 (100)	IS 3025 (Part-46)
15.	Nitrate as NO ₃	mg/L	9.5	45	IS 3025 (Part-34)
19.	Phenolic compounds (as C ₆ H ₅ OH)	mg/L	<0.001	0.001	IS 3025 (Part-43)
17.	Potassium as K	mg/L	25		IS 3025 (Part-45)
18.	Silica as SiO ₂	mg/L	8.3		IS 3025 (Part-35)
19.	Sodium as Na	mg/L	119		IS 3025 (Part-45)
20.	Sulfates as SO ₄	mg/L	55	200 (400)	IS 3025 (Part-24)
21.	Sulphide as H ₂ S*	mg/L	<0.05	0.05 (0.05)	IS 3025 (Part-29)
22.	Total Alkalinity as CaCO ₃	mg/L	243	200 (600)	IS 3025 (Part-23)
23.	Total Hardness as CaCO ₃	mg/L	142	200 (600)	IS 3025 (Part-21)
24.	Total Coliform*	MPN/100ml	Absent		IS 1622
25.	E Coli*	Per 100ml	Absent		IS 1622

Note:

1. Sample Collection: By lab representative / not collected by lab representative
2. Period of sample testing: 12/03/2018 through 22/03/2018
3. * Not covered under NABL scope.
4. Bore well was operational for above 90 minutes at the time of sampling.
5. As Chemical Oxygen Demand (COD) value did not exceed 20 mg/L, the sample was not analysed for Biochemical Oxygen Demand (BOD).
6. Requirement (Permissible) Limits as prescribed in Indian Standards Specification for Drinking Water IS: 10500: 2012
7. ** Not to be detected in 100 ml

*****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 lab does not endorse any product or any services.
 2. Total liability of ultratec labs shall be limited to the corresponding billed amount only.
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Plot No. 115, Daulatabad Road, Industrial Area, Sector-104, Gurgaon - 122 006 (Haryana)

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

Issued To:

TEST REPORT

No. 4471

M/s Artemis Medicare Services Ltd.
Artemis Health Institute
Sector - 51
Gurgaon-122 001, Haryana

1. Date of Issue:	11.04.2018
2. Sample Code No.:	17181077W12
3. Sample Received on:	12.03.2018
4. Sampling Method:	IS: 3025 (Part-1)
5. Appearance:	Apparently Clear
6. Quantity of Sample:	5 liters
7. Type of Sample:	Plastic Jerry Can
8. Packing Details:	PET & Sterilized Glass Bottle

Sample Description: Ground water sample marked as "Bore well 2"

TEST RESULTS

S. No.	Parameters	Units	Results	Requirement (Permissible Limit)	Test Protocol
1	Colour	Hazen	< 5	5(15)	IS 3025 (Part-4)
2	Odour		Agreeable	Agreeable	IS 3025 (Part-5)
3	Turbidity	NTU	1.7	1(5)	IS 3025 (Part-10)
4	pH Value at 25°C		8.36	6.5-8.5	IS 3025 (Part-11)
5	Total Dissolved Solids	mg/L	638	500(2000)	IS 3025 (Part-16)
7	Ammonia as total NH ₃ -N	mg/L	<0.02	0.5	IS 3025 (Part-34)
8	Anionic Detergents (as MBAS)	mg/L	<0.05	0.2	IS 13428-Annex.K
9	Boron as B	mg/L	<0.1	0.5	IS 3025 (Part-57)
9	Calcium as Ca	mg/L	58	75 (200)	IS 3025 (Part-40)
10	Chlorides as Cl	mg/L	81	250(1000)	IS 3025 (Part-32)
11	Chemical Oxygen Demand	mg/L	22	-	IS 3025 (Part-58)
12	Fluorides as F	mg/L	0.81	1.0 (1.5)	IS 3025 (Part-60)
13	Iron as Fe	mg/L	0.25	0.3 (0.3)	IS 3025 (Part-53)
14	Magnesium as Mg	mg/L	21	30 (100)	IS 3025 (Part-46)
15	Nitrate as NO ₃	mg/L	14.2	45	IS 3025 (Part-34)
19	Phenolic compounds (as C ₆ H ₅ OH)	mg/L	<0.001	0.001	IS 3025 (Part-43)
17	Potassium as K	mg/L	35	-	IS 3025 (Part-45)
18	Silica as SiO ₂	mg/L	9.6	-	IS 3025 (Part-35)
19	Sodium as Na	mg/L	140	-	IS 3025 (Part-45)
20	Sulfates as SO ₄	mg/L	61	200 (400)	IS 3025 (Part-24)
21	Sulphide as H ₂ S*	mg/L	<0.05	0.05 (0.05)	IS 3025 (Part-29)
22	Total Alkalinity as CaCO ₃	mg/L	359	200 (500)	IS 3025 (Part-23)
23	Total Hardness as CaCO ₃	mg/L	232	200 (500)	IS 3025 (Part-21)
24	Total Coliform*	MPN/100ml	Absent	**	IS:1622
25	E Coli*	Per 100ml	Absent	**	IS:1622

Note:

1. Sample Collection: By lab representative / not collected by lab representative
2. Period of sample testing: 12.03.2018 through 22.03.2018
3. * Not covered under NABL scope.
4. Bore well was operational for above 90 minutes at the time of sampling.
5. As Chemical Oxygen Demand (COD) value did not exceed 20 mg/L, the sample was not analysed for Biochemical Oxygen Demand (BOD).
6. Requirement (Permissible) Limits as prescribed in Indian Standards Specification for Drinking Water IS: 10500, 2012.
7. ** Not to be detected in 100 ml

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



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

Note:

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ULTRATEC RESEARCH & ANALYTIK LABS

(A UNIT OF ECO CORPORATE TECH & MEDIA SERVICES PVT. LTD.)

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

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TEST REPORT

No. 4472

Issued To:

M/s Artemis Medicare Services Ltd.
Artemis Health Institute
Sector - 51
Gurgaon 122 001, Haryana

1. Date of Issue:	11.04.2018
2. Sample Code No.:	17181077W21/W22
3. Sample Received on:	12.03.2018
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:	Unsealed Plastic Jerry Cans

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

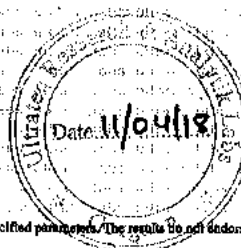
TEST RESULTS

S. No.	Parameter	Unit	RESULT		Standard	Test Protocol
			"STP Inlet"	"STP Outlet"		
1	pH Value at 25°C	-	7.69	7.75	5.5-9.0	IS: 3025 (Pt-11)
2	Total Dissolved Solids	mg/l	928	826	2100	IS 3025 (Part-16)
3	Total Suspended Solids	mg/l	146	22	100	IS: 3025 (Pt-17)
4	BOD ₅ at 27°C	mg/l	190	20	30	IS: 3025 (Pt-44)
5	COD	mg/l	480	64	250	IS: 3025 (Pt-58)
6	Oil & Grease	mg/l	18	0.8	10 [^]	IS: 3025 (Pt-39)
7	Faecal Coliform*	MPN/100ml	-	46	<1000	IS 1622

Note:

1. Sample testing period: 12/03/2018 through 22/03/2018
2. 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 Parameter not covered under NABL accreditation
4. Test Report contains / does not contain Outsourced Test Results.
5. Test Results are specific to the sample described above and does not certify anything beyond.

***** 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 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.

Registration No. 0601000095
NABL Accredited Laboratory

ultrateclabs
PROMISING QUALITY

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. 4473

Issued To:

M/s Artemis Medicare Services Ltd.
Artemis Health Institute
Sector - 51
Gurgaon 122 001 Haryana

1. Date of Issue:	11.04.2018
2. Sample Code No.:	17181077W23/W24
3. Sample Received on:	12.03.2018
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:	Unsealed Plastic Jerry Cans

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
			"ETP Inlet"	"ETP Outlet"		
1	pH Value at 25°C	-	7.54	7.46	5.5-9.0	IS: 3025 (Pt-11)
2	Total Dissolved Solids	mg/l	792	564	2100	IS: 3025 (Part-16)
3	Total Suspended Solids	mg/l	40	18	100	IS: 3025 (Pt-17)
4	BOD ₅ at 27°C	mg/l	195	16	30	IS: 3025 (Pt-44)
5	COD	mg/l	560	64	250	IS: 3025 (Pt-58)
6	Oil & Grease	mg/l	19.4	1.0	10	IS: 3025 (Pt-39)

Note:

1. Sample testing period: 12/03/2018 through 22/03/2018.
2. 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.

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



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

Note:

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

Registration No. 0001800095
NABL Accredited Laboratory

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ULTRATEC RESEARCH & ANALYTIK LABS

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

TEST REPORT

No. 4474

Issued To:

M/s Artemis Medicare Services Ltd.
Artemis Health Institute
Sector - 51, Gurgaon

Date of Issue:	11/04/2018
Sample Code No.:	17181077A31
Date of Sample Receipt:	12/03/2018
Sampling Method:	IS: 11255

Sample Description: Stack emission sample was collected by our representatives.

PROJECT DATA:

- Name & the address of the Project : "M/s Artemis Hospitals, Sector-51, Gurgaon".
- Date of sampling : 12/03/2018
- Name of plant/section : DG Set
- Normal operating schedule of the plant : As per requirement against grid failure
- Name of the emission source monitored : DG Set (Engine No. -253L6577)
 - Rated capacity : 1250 KVA
 - Capacity on the sampling day : 1063 KVA
 - Type and Consumption of Fuel used : HSD, 281.4 LPH approx
- Stack identification : DG Set (Engine No. -253L6577)
- Type of chimney : MS
- Location of sampling points : Above roof top and meets standard requirement
- Stack height (m)
 - From ground level : 37.5
 - Above roof level : 7.5
 - From source of emission : -
- Diameter of stack (mm) : 200
- Total Sampling Duration : 90 mins
- Parameters required : PM, NO₂, CO, NMHC as C & O₂
- Purpose of Monitoring : Surveillance monitoring
- Details of Air pollution control measures : Not Applicable
- Fugitive emissions, if any : Not observed during monitoring

OBSERVATIONS

- Ambient air temperature (°C) : 27.8
- Stack gas temperature (°C), average : 462
- Stack gas velocity (m/s), average : 11.95
- Emission rate (Nm³/hr) : 511.89

TEST RESULTS

S. No.	Parameters	Unit	Results	Standards	Test Protocol
1	Particulate Matters at 15% O ₂	mg/Nm ³	47	75	IS - 11255: Part - 1
2	Oxides of Nitrogen as NO ₂ at 15% O ₂	ppmv	348	710	IS - 11255: Part - 7
3	Carbon Monoxide as CO* at 15% O ₂	mg/Nm ³	60	150	IS - 13270
4	Non-Methane Hydrocarbon as C* at 15% O ₂	mg/Nm ³	12.7	100	USPEA 2002
5	Oxygen as O ₂ *	%	13.2		IS - 13270

NOTE:

- Period of sample Testing: 12.03.2018 through 22.03.2018
- *Not covered under NABL Scope
- 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. 114 under the Environment (Protection) Act, 1986. (Standard considered as applicable for DG sets on or after 01/07/2002)

-----End of Report-----

(Sunita Mishra)

Date: 11/04/18

Technical Manager

(Authorized Signatory)

Note:

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- 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

ULTRATEC RESEARCH & ANALYTIK LABS

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

TEST REPORT

No. 4475

Issued To:

M/s.Artemis Medicare Services Ltd.
Artemis Health Institute
Sector -51, Gurgaon

Date of Issue:	11/04/2018
Sample Code No.:	17181077A32
Date of Sample Receipt:	12/03/2018
Sampling Method:	IS-13270

Sample Description: Stack emission sample was collected by our representatives.

PROJECT DATA:

- Name & the address of the Project : "M/s.Artemis Hospitals, Sector-51, Gurgaon".
- Date of sampling : 12/03/2018
- Name of plant/section : DG Set
- Normal operating schedule of the plant : As per requirement against grid failure
- Name of the emission source monitored : DG Set (Engine No. -25316808)
 - Rated capacity : 1250 KVA
 - Capacity on the sampling day : 1063.8 KVA (Avg.)
- Type and Consumption of Fuel used : HSD, 257 LPH appx.
- Stack identification : DG Set (Engine No. -25316808)
- Type of chimney : MS
- Location of sampling points : Above roof top and meets standard requirement.
- Stack height (m)
 - From ground level : 37.5
 - Above roof level : 7.5
 - From source of emission
- Diameter of stack (mm) : 200
- Total Sampling Duration : 90 mins.
- Parameters required : PM, NO₂, CO, NMHC as C & O₂
- Purpose of Monitoring : Surveillance monitoring
- Details of Air pollution control measures : Not Applicable
- Fugitive emissions, if any : Not observed during monitoring

OBSERVATIONS

- Ambient air temperature (°C) : 29.4
- Stack gas temperature (°C), average : 454
- Stack gas velocity (m/s), average : 11.92
- Emission rate (Nm³/hr.) : 516.20

TEST RESULTS

S. No.	Parameters	Unit	Results	Standards	Test Protocol
1	Particulate Matters at 15% O ₂	mg/Nm ³	56	75	IS - 11255: Part - 1
2	Oxides of Nitrogen as NO ₂ at 15% O ₂	ppmV	336	710	IS - 11255: Part - 7
3	Carbon Monoxide as CO* at 15% O ₂	mg/Nm ³	72	150	IS - 13270
4	Non-Methane Hydrocarbon as C* at 15% O ₂	mg/Nm ³	13.6	100	USPEA 2002
5	Oxygen as O ₂ *	%	12.8		IS - 13270

NOTE:

- Period of sample Testing: 12.03.2018 through 22.03.2018
- Not covered under NABL Scope
- 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. (Standard considered as applicable for DG sets on or after 2005)

-----End of Report-----

Date: 11/04/18

(Sumita Mishra)
Technical Manager
(Authorized Signatory)

Note:

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ULTRATEC RESEARCH & ANALYTIC LABS

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Telephone : +91-9312491527 | Email: labs@ecocorporate.com | Website: www.ecocorporate.com/ultratec.html

TEST REPORT

No. 4476

Issued To:

M/s Artemis Medicare Services Ltd.

Artemis Health Institute

Sector - 51

Gurgaon 122002

Date of Issue:

11.04.2018

Sample Code No.:

17181077N21

Date of Monitoring:

12.03.2018

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	12.03.2018
(ii) Period of Monitoring (Hour)	15:30 - 17:00
(iii) Approximate Ambient Temperature (°C)	28°C to 30.9°C
(iv) Approximate range of Relative Humidity (%)	40% to 52%

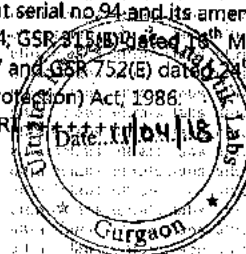
MONITORING RESULTS

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)	100.4	74.6	25.8	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)	100.8	75.5	25.3	

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 18th 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.

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



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

Notes

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Registration No. 0601800098
NABL Accredited Laboratory

ultrateclabs
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ULTRATEC RESEARCH & ANALYTICAL 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 : +91-9812491422 | Email: labs@ecocorporate.com | Website: www.ecocorporate.com/ultratec.html

TEST REPORT

No. **4477**

Issued To:

M/s Artemis Medicare Services Ltd.

Artemis Health Institute

Sector - 51

Gurgaon 122 001, Haryana.

1. Date of Issue:	11.04.2018
2. Sample Code No:	17181077S11
3. Sample Received on:	12.03.2018
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		8.45	5.5 - 7.5	IS: 2720 Pt 26
2	Conductivity at 25°C	µmhos/cm	360		IS:14767
3	Water Contents	%	16		IS: 2720 Pt 2
4	Water Retention Capacity	%	26.5		IS:14765
5	Organic Matters	%	1.42	0.86 Min.	IS: 2720 Pt 22
6	Available Nitrogen	Kg/Hectare	316	280 Min.	ULSTM.S.03
7	Available Phosphorous as P ₂ O ₅	Kg/Hectare	26	10 Min.	ULSTM.S.04
8	Available Potassium as K ₂ O	Kg/Hectare	130	108 Min.	ULSTM.S.05
9	Exchangeable Calcium	meq/100 ml	1.75	1.5 Min.	ULSTM.S.10
10	Soluble Sulphates as Na ₂ SO ₄	ppm	15	8 - 30 ppm	IS: 2720 Pt 27
11	Boron as B*	ppm	0.96	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: 12/03/2018 - 22/03/2018
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

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



Sunila Mishra
(Sunila Mishra)
Technical Manager
(Authorized Signatory)

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FORMAT No. ULEX.F.17
REVISION No.: 01

Credentials

Ultratec Research & Analytik Labs (ultratéclabs) is an environmental laboratory. The laboratory was inceptioned 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	171QAE26	
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.



408, Manihasan 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 audit 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) Hazardous Waste Data
(Form 4 FY 2017-18 &
Form 10)*

2) E-Waste Agreement

*3) BMW Data for the
period 01.10.17 to
31.03.18
and
Agreement*

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




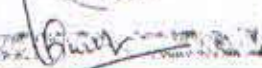
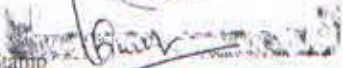
(Signature with Seal)

Place: Gurgaon
Date: 09.04.2018

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.	
M/S Artemis Hospitals Accreditation Board for Hospitals & Health Care Providers Sector 51, Gurgaon/Haryana 122001				0122	
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	
		DL-1LJ2709		7. Vehicle Registration No. DL-1L-52709	
8. Receiver's Name & Mailing Address (Including Phone No. & e-mail)				9. Receiver'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				115/2015-16/RCRR/Waste Oil/ HSPCB Orange	
10. Waste Description : Used oil / waste oil				12. Physical Form	
				Solid	YES
				Semi-Solid	Tarry
				Sludge	Slurry
				Oily	Liquid
11. Total Quantity of Waste		360 ltr approx.		M3 or MT	
No. of Containers		2 Dr		Nos.	
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					
Signature with Designation with Rubber Stamp					
15. Transport's Acknowledgement of Receipt of Material		Used oil			
Type, Name & Stamp of Transporter					
Signature with Designation with Rubber Stamp					
16. Receiver's Certification for Receipt of Hazardous Waste					
Signature with Designation with Rubber Stamp					

1. White Form forwarded by the sender to SPCB

2. Yellow Form retained by sender after taking sign from transporter

5. Green Form sent by receiver to SPCB

6. Blue Form sent by the receiver to the sender

7. Green Form sent by the receiver to the SPCB of the state in

FORM - 13
 [(See Rule 21 (1))]
HAZARDOUS WASTE MANIFEST

1. Occupier's Name & Mailing Address (Including Phone No.)	M/s Artemis Hospital Sec. 51 Gurgaon (Artemis Medical Service, etc.)			
2. Occupier's Registration No.				
3. Manifest Document No.	0168			
4. Transporter's Name & Address (Including Phone No.)	M/s Mahavira Udyog 5/11 Mile Stone, Bhiwani Road, Baniyani Rohtak (HR)			
5. Type of Vehicle	(Truck/Tanker/Special Vehicle)			
6. Transporter's Registration No.	DL-1L P 4951			
7. Vehicle Registration No.				
8. Designed Facility Name & Site Address	M/s. Mahavira Udyog 5/11 Mile Stone, Bhiwani Road, Vill. Baniyani Rohtak (HR.) 115/2015-2016/RCRR/Wasteoil/HSPCB/Orange			
9. Facility's Registration No.				
10. Facility's Phone				
11. Waste Description	Used / waste lube oil			
12. Total Quantity	2750 Ltr. M ³ or MT			
13. Consistency	(Solid/Semi-Solid / Oil / Tarry / Slurry)			
14. Transport Description of Waste	Used lube/waste oil			
15. Containers	Number	Type		
	01	Used		
16. Total Quantity	2750 Ltr. M ³ or MT			
17. Unit Wt./Vol.	2750 Ltr. M ³ or MT			
18. Waste Category No.	5.1			
19. Special Handling Instructions & Additional Information				
20. OCCUPIER'S CERTIFICATE :	I hereby declare that the contents of the consignment are fully and accurately described above by proper shipping name and are categorised, Packed, Marked, and labelled, and are in all respects in proper condition for transport by road according to applicable national government regulations.			
Typed Name & Stamp	Signature	Month	Day	Year
		06	06	2012
21. Transporter's Acknowledgement of Receipt of Waste	Used / waste lube oil			
Typed Name & Stamp	Signature	Month	Day	Year
		06	06	2012
22. Discrepancy Note Space :-				
23. Facility Owner or Operator's Certification of Receipt of Hazardous Waste				
Typed Name & stamp	Signature	Month	Day	Year
		06	06	2012

NOTE : Please attach Photocopy of Comprehensive Analysis Report.



GREEN VORTEX

(O) E-11, Greenwoods City, Sector 46, Gurgaon, Haryana
(F) 177/7, IMT Manesar, Gurgaon, Haryana
(T) 91124-4146402 | (M) 09971389851
(E) info@green-vortex.com
(W) www.green-vortex.com | www.greenvortex.in

SERVICE AGREEMENT

This Service Agreement ("Agreement") is entered into on this 5th day of October, 2015 at Gurgaon, Haryana.

By and between

M/s Green Vortex Waste Management Pvt. Ltd., having its Registered Office at 14 C, Madhur Apartments, Miyawali Nagar, Paschim Vihar, New Delhi – 110087, and its Facility at Plot No. 177, Sector-7, IMT Manesar, Gurgaon, Haryana, by its authorized signatory, Mr. Shankar Sharma designated as Director (hereinafter referred to as "**First Party**" or "**Green Vortex**", represented which expression shall unless contrary to and or repugnant to the context means and includes its successors, representatives and permitted assigns) to enter into and sign this Agreement for and on behalf of the First Party.

AND

M/s Artemis Medicare Services Limited, is having its Registered Office at 414/1, 4th Floor, DDA Commercial Complex, District Center, New Delhi – 110058 and running a hospital in name of "Artemis Hospital" at Sector-51, Gurgaon – 122001, Haryana represented by its authorized signatory, Mr. Navneet Goel, Head - Legal & Company Secretary hereinafter referred to as "**Second Party**" or "**Artemis**", which expression shall unless contrary to and or repugnant to the context means and includes its successors, representatives and permitted assigns) to enter into and sign this Agreement for and on behalf of the Second Party.

WHEREAS:

The First Party has represented that it is registered as approved Electronic Waste (hereinafter referred to as 'E-waste') recycler by the State Pollution Control Board (SPCB & MOEF) Under act 1974, (25 of 1974) and air act 1981(21 of 1981) of the E- Waste (Management & Handling) Rules 2011 and is operating a facility for the collection, reception, transportation, treatment and disposal of E-waste in Haryana. A copy of the approval referred herein is attached herewith.

The Second Party, in compliance of the E-Waste Management & Handling Rules 2011, desires to have services for disposal of their E-waste except liquid waste for which the First Party has a facility authorized by HSPCB and MOEF (Ministry of Environment & Forest) and hereby engages First Party on non-exclusive basis to provide the services for collection, proper transportation, segregation and disposal of E-waste generated at its Hospital.

(Both **First Party** and **Second Party** shall be collectively referred to as Parties and individually as Party.)

Definitions:

Electronic Waste (E-waste) - The term E-waste will refer to the below mentioned items:

- ☐ Large household appliances
- ☐ Small household appliances
- ☐ IT and telecommunications equipment as mentioned in Schedule 1 of MOEF notification S.O.1035 (E) rules
- ☐ Consumer equipment
- ☐ Electrical and electronic tools (with exception of large-scale stationary industrial tools)
- ☐ Toys, leisure and sports equipment
- ☐ Medical devices (with the exception of all implanted and infected products)
- ☐ Monitoring and control instruments
- ☐ Automatic dispensers
- ☐ U.P.S., U.P.S Batteries, Cable Wires and A.C. Plant residuals

For Green Vortex Waste Management Pvt. Ltd.

For Artemis Medicare Services Ltd.

(Navneet Goel)
Head-Legal & Company Secretary

Authorized Signatory

Green Vortex Waste Management Pvt. Ltd.

NOW THIS AGREEMENT ("Agreement") witnesses the following terms and conditions to be compiled with and the roles to be performed by both the parties to the Agreement.

1. The First Party will require the designated Second Party staff representative to other related statutory documents incorporating the required data, in acknowledgement of E-waste handed over.
2. Upon intimation from the Second Party the First Party from within 15 working days, will arrange for collection, proper transportation, segregation and disposal of E-waste generated at its specified facility as per E-Waste (Management & Handling) Rules 2011 or as per any other applicable statutory provisions. First Party here by agreed to undertake deformation of Hard disks of Desktops, Laptops and Servers etc. as part of First Party's internal Information Security policy, before lifting related E-waste from the Facility.
3. Second Party shall be responsible for compliance of E-Waste Management & Handling Rule, 2011. The First Party will be solely responsible for proper disposal of the E-waste collected from all the office locations of the Second Party.
4. First Party shall pay Second Party certain charges, as mentioned in **Annexure-1**, towards sale of E-Waste by the Second Party to the First Party. The Second Party shall have the sole right to choose an Option from among the two Options mentioned in **Annexure-1** at the time of disposing E-waste.
5. Second Party shall pay one-time Registration Fee of ₹ 10,000/- (Rupees Ten Thousand only) to the First Party (valid for 5 years). Further, Second Party shall also pay one time testing fees of Rs. 3,500/- (Rupees Three Thousand Five Hundred only) per sample will be applicable at the time of Agreement.
6. Subject to termination Clause mentioned hereinafter, this Agreement shall be effective from **5th October, 2015** and shall remain valid upto **4th October, 2020**. This Agreement may be extended for a further period on mutual consent of both the Parties in writing.
7. This Agreement may be terminated by either party, without assigning any cause, on giving a 30 days written notice to the other party.
8. **COMPLIANCE WITH LAWS:** First Party with respect to E-waste collected under this Agreement, shall comply, at its own expenses, with all applicable laws, ordinances, regulations, rules and codes (foreign and domestic, including international treaties and conventions) including the identification and procurement of required permits, certificates, licenses, insurance, approvals and inspections (all collectively referred to in this Agreement as "applicable laws") in performance under this Agreement. First Party further agrees that:
 - a) It shall exercise every reasonable safety precaution and best management practices, whether or not required by law, in the performance of the service under this Agreement;
 - b) First Party shall comply with all applicable laws, rules and regulations including with respect to labour / employment related statutes and shall indemnify and hold Second Party harmless in this regard;
 - c) After completion of recycling, reclamation and treatment of each batch of E-waste picked up from Second Party, First Party would provide certificates on the proof of completion of recycling viz destruction certificate within 45 days of the collection of E-waste.
9. First Party hereby agreed that this commercial offer (as per **Annexure-1**) for disposal of E-Waste would also be extended to all facilities/hospitals/locations of Second Party as mentioned in **Annexure-2**.
10. **DISPUTE RESOLUTION:** Any dispute or breach arising out of or in relation to this Agreement shall be referred to arbitration to be conducted by a sole arbitrator appointed in accordance with the Arbitration and Conciliation Act, 1996. The Venue of arbitration shall be New Delhi. The decision of the arbitration shall be binding on both the parties.

For Green Vortex Waste Management Pvt. Ltd.

Authorised Signatory



Subject to the arbitration provisions herein, Courts in Gurgaon (Haryana) shall have the exclusive jurisdiction on the matters arising out of or in connection with this Agreement.

- 11 **CONFIDENTIALITY:** The existence and all terms and conditions of this Agreement are confidential to the parties, and shall not be disclosed to any other entity or individual, without the other party's written consent, save and except to their respective accountants, lawyers and financial advisors or as required by law. Further, both the Parties shall be under an obligation not to disclose any confidential information and/or proprietary information of the other Party without the written approval of the other Party. First Party shall ensure that their staffs comply with all security instructions and policies of the Second Party.
- 12 **ROLES & RESPONSIBILITIES:** The details laid out in this Agreement notwithstanding the essence and spirit of this Agreement is an understanding between M/s Green Vortex Waste Management Pvt. Ltd. and M/s Artemis Medicare Services Limited.
- 13 Any notice or other communication under or in connection with this agreement shall be in writing in the English language and shall be delivered personally or sent by way of courier/registered post or e-mail to the party due to receive the notice or communication at its address set out in this Agreement or such other address as either party may specify by notice in writing to other from time to time.

ADDRESSES FOR COMMUNICATION: Following are the addresses to which all notices/communication to be sent:

For First Party: Mr. Shankar Sharma (Director) M/s Green Vortex Waste Management Pvt. Ltd. ADDRESS: 14 C, Madhur Apartments, Miyawali Nagar, Paschim Vihar, New Delhi – 110087 Mob: 0124-4146402 Email: Shankar@greenvortex.in	For Second Party: Head – Supply Chain M/s Artemis Medicare Services Limited ADDRESS: Artemis Hospital Sector-51, Gurgaon – 122001, Haryana.
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14 **MISCELLANEOUS**

Force Majeure: Neither party shall be liable for damages for any delay or failure to perform its obligations here under, if such delay or failure is due to reasons beyond the control of the concerned party including without limitation, strikes, riots, wars, fires, epidemics, quarantine restrictions, unusually severe weather, earth quakes, explosions, acts of God or state or any public enemy or acts mandated by applicable laws, regulation or order, whether valid or invalid, of any Governmental body.

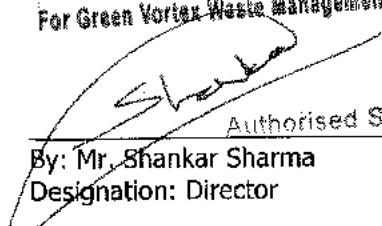
Amendments: This Agreement may be amended with mutual consent of the parties and such amendment shall be in writing only.

15 **RIGHT TO ASSIGN**

This Agreement shall not be assignable by the First Party, without the prior written consent of the Second Party. Any attempt by the First party to assign any of its rights or delegate any of its duties hereunder without the prior written consent of Second Party shall be null and void.


Accepted, signed and delivered by:

For Green Vortex Waste Management Pvt. Ltd.
For Green Vortex Waste Management Pvt. Ltd.


Authorised Signatory
By: Mr. Shankar Sharma
Designation: Director

Accepted, signed and delivered by:

For Artemis Medicare Services Limited


By: Mr. Anurag Goel
Designation: Head - Legal & Compliance
Secretary.

COMMERCIAL QUOTATION

OPTION1: Mixed, unsorted E-waste can be purchased @ Rs.7,500/ Ton (disposal items less than 10% weight in a lot)

OPTION 2: Sale Basis & Disposal Basis

A) On Sale Basis

S. No.	E-Waste Material (Electronic / Electrical)	Price per Kg. (in Rs)
1.	CPUs, Laptops, Servers, Telecom networking switching station etc., Printers, PCBs AC, mobile phones, photocopiers, scanners, Fax, Electrical Panels Monitors, old Telephones, Washing machine, Refrigerators, Vacuum Cleaners, Batteries (Other than Lead batteries), PCBA, Capacitors, IGBT etc.	14/-
2.	Card Readers, Swipe machine, Speakers, Multimedia, Electrical Items (Regulators, Meters, Switches, Fans Starters, Choke, etc.), CPU Cabinets, Cartridges, Transformers, LCDs Plastic Waste, CDs, Storage devices, Thumb drives, Power control units, IO device, Key boards, Mouse, Plastic parts, Hand Sets, Charges, Toner Cartridges, Calculators etc.	8/-

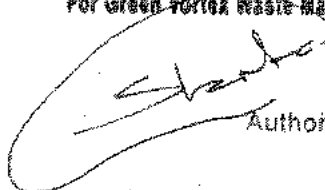
Note: Applicable Tax 5% for purchase within state, 2% for interstate purchase against form 'C'.

B) On service Charge Basis

S. No.	E-Waste Electronic / Electrical Material	Disposal Charges Per Kg. (In Rs.)
1.	Floppies, Broken LCDs	18/-

Note: The above are standard rates, subject to negotiation depending upon volume, composition and frequency of material lifted.

For Green Vortex Waste Management Pvt. Ltd.


Authorized Signatory



LIST OF LOCATIONS

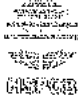
S. No.	Name	Address
1	Artemis Hospital	Sector-51, Gurgaon – 122001, Haryana
2	Artemis Hospital	Plot No. 14, Sector-20, Dwarka, New Delhi – 110075
3	Artemis Health Center	SCO-120A, Brass Market, Rewari, Haryana
4	Artemis Centre	Shop No. S-001, Ashiana Village Centre, Vasundhra Colony, Phase-II, Bhiwadi, District Alwar (Rajasthan)
5	Artemis Clinic	Ground Floor, CC-II, Club 5, DLF 5, Gurgaon, Haryana

For Green Vortex Waste Management Pvt. Ltd.



Authorized Signatory





HARYANA STATE POLLUTION CONTROL BOARD
C-11, SECTOR-6, PANCHKULA
Ph. 0172-2577870-73

No. HSPCB/ 2014/

100

Dated:

8/10/14

To

M/s Green Vortex Management Pvt Ltd.
Plot no. 177, Sector-7, IMT, Manesar Gurgaon

Sub: Authorization under rule, 9 (3) of the E-waste (Management & Handling) Rules, 2011 for dismantling of e-waste 1500 T/Annum.

Kindly refer to your application received through RO Gurgaon Region (South) vide his letter No. HSPCB/ GRS/ 2014/ 5765 dated 03.02.2014 and subsequent letter No. 7499 dated 21.04.2014 on the subject noted above.

In this connection it is intimated that your application has been examined and accordingly it has been decided to grant the authorization under rule, 9 (3) of the E-waste (Management & Handling) Rules, 2011 for dismantling of 1500 T/Annum of e-waste with the following conditions :-

1. The authorization is granted for dismantling of 1500 T/Annum of e-waste.
2. The authorization shall be in force for a period from 05.05.2014 to 04.05.2019.
3. The authorization is subject to the other conditions stated below and such conditions as may be specified in the rules for the time being in force under the Environment (Protection) Act, 1986.

Other Terms and conditions of authorization


1. The authorization shall comply with the provisions of the Environment (Protection) Act, 1986, and the rules made there under.
2. The authorization or its renewal shall be produced for inspection at the request of an officer authorized by the Haryana State Pollution Control Board.
3. The person authorized shall not rent, lend, sell, transfer or otherwise transport the e-wastes without obtaining prior permission of the Haryana State Pollution Control Board.
4. Any unauthorized change in personnel, equipment or working conditions as mentioned in the application by the person authorized shall constitute a breach of his authorization.
5. It is the duty of the authorized person to take prior permission of the Haryana State Pollution Control Board to close down the operations.
6. An application for the renewal of an authorization shall be made as laid down in sub-rule (6) of rule 9 before at least 60 days of its expiry.
7. Unit will maintain the record of e-waste collected and dismantled in the form 2.
8. Unit will dismantle and collect the E-waste in a secured manner.

For Green Vortex Waste Management Pvt. Ltd.

Authorized Signatory.



9. Unit will file Annual Return in Form 3.
10. Unit will make the records available for scrutiny by the HSPCB.
11. Unit will follow the 'E-waste (M & H) rules, 2011 and guidelines issued by the CPCB & all other directions issued by CPCB/HSPCB from time to time in this regard.


Sr. Environmental Engineer - I (HQ)
For Chairman

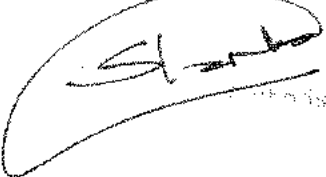
Endst No./ HSPCB/2014/

Dated :

A copy of above is forwarded to RO Gurgaon (S) for information and necessary action w.r.t his letter No. HSPCB/ GRS/ 2014/ 7499 dated 21.04.2014. He is asked to ensure the compliance of the above mentioned conditions.

Sr. Environmental Engineer - I (HQ)
For Chairman

For Green Vortex Waste Management Pvt. Ltd.


Authorized Signatory





HARYANA STATE POLLUTION CONTROL BOARD
C-11, SECTOR-6, PANCHKULA

Website – www.hspcb.gov.in E-Mail - hspcb.pkl@sifymail.com

Tele Fax No. – 0172-2577870-73

No. HSPCB/Consent/ : 2803914GUSOCTOHWM755144

Dated:14/05/2014

To.

M/s :Green Vortex Waste Management Pvt Ltd
Plot No 177, Sector 7, IMT Manesar
GURGAON SOUTH

Subject: Grant of consent for emission of Air under section 21/22 of the Air (Prevention & Control of Pollution) Act, 1981, from 01/04/2014 to 31/03/2016

Please refer to your consent application received on dated 16/02/2014 in Regional Officer , Gurgaon South on the subject cited above.

With reference to your above application for consent for the emission/ continuation of emission of S.P.M. air pollutions into atmosphere under Air (Prevention & Control of Pollution) Act, 1981 hereinafter referred as the Act.

M/s Green Vortex Waste Management Pvt Ltd are authorized by the Haryana State Pollution Control Board to discharge their air pollution being emitted out of their factory premises in accordance with the condition as mentioned below:-

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. Two or more ducts with different nature of exhaust gases should neither be intermixed nor to be through a common chimney.
3. Adequate facilities should be provided for sampling viz sampling holes at specified locations and dimension. The platform of specified size and strengthful arrangements electric connection also be provided.
4. 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.
5. The disturbed condition in any of plant/plants of the factory which is likely to result in increased emission or result in violation of emission standards shall be forthwith reported to this Board under intimation to the Member Secretary, Haryana State Pollution Control Board.
6. The toxic chemicals materials should be handled with due safety. The storage of toxic chemicals should be such that in case of emergency the chemicals could be transferred to other empty tank automatically and which should be followed by an approved air pollution control equipment designed for worst conditions.
7. A green belt (having sufficient tall and dense tree) around the factory should be provided.

For Green Vortex Waste Management Pvt. Ltd.



8. All the processes using toxic chemical/harmful gases should be equipped with an emergency siren system in working conditions for alarming the general public in case of untoward incident.
9. The applicant shall furnish to all visiting officer and/or the State Board, any information regarding the construction/installation or operation of the establishment or emission control system and such other particulars as may be pertinent to prevention and control of air pollution. The industry shall also maintain and make available inspection book to the officers of the Board during their visits.
10. The air pollution control equipment of such specification which shall keep the emissions within the emission standard as approved by the State Board from time to time shall be installed and operated in the premises where the industry is carrying on/proposed to carry on its business.
11. The existing air pollution control equipment if required shall be alerted or replaced in accordance with the direction of the Board.
12. All solid wastes arising in the factory premises shall be properly graded and disposed of by:-
 - (i) In case of Land fill material, care should be taken to ensure that the material does not give rise to leachate which may percolate in ground water or carried away with storm runoff.
 - (ii) Composting in case of bio degradable materials.
 - (iii) If the method of incineration is used for the disposal of solid waste the consent application should be processed separately and it should be taken up which consent is granted.
13. The industry shall submit an undertaking to the effect that the above conditions shall be complied with by them.
14. The applicant shall ensure that the emission of the air pollutants shall remain within emission standards as approved by the State Board from time to time.
15. The applicant shall make an application for grant of fresh consent at least 90 days before the date of expiry of this consent.
16. Necessary fee as prescribed for obtaining renewal consent shall be paid by the applicant alongwith the consent application.
17. The applicant shall either:-
 - a) Not later than 30 days from the date of consent order, certify in writing to the Member Secretary that the applicant had installed or provided for alternate electric power source sufficient to operate all the facilities installed by the applicant to maintain compliance with the terms and conditions of the consent.
 - b). Not later than 30 days from the date of this consent certify in writing to the Member Secretary that upon the reduction loss or failure of one or more of the primary source of electric power to any facilities installed by the application to maintain compliances with the term and conditions of this consent, the application shall proportionally reduce or otherwise control production and/or all emissions in order to maintain compliance with terms and conditions of this consent.
18. There should not be any fugitive emission from the premises.
19. The liquid effluent arising out of the operation of the air pollution control equipment shall also be treated in a manner and to the standards stipulated in the consent granted under Water (Prevention & Control of Pollution) Act, 1974 by this Board.
20. 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.
21. If the industry fails to adhere to any of the condition of this consent order the consent so granted shall automatically lapse.
22. The unit shall obtain consent under Water (Prevention & Control of Pollution) Act, 1974 and authorization under HWTM Rules, 2008.

For Green Vortex Waste Management Pvt. Ltd.


Secretary



23. (a) The industry shall discharge all the gases through a stack of minimum height.
(b) The height of stack shall conform to the following criteria:
(i) $H = 14.Q^{0.3}$ Where sulphur-dioxide is emitted.
Q = Sulphur dioxide emission as Kg/hr.
(ii) $H = 74 Q^{0.27}$ where particulate matter is emitted.
Q = particulate matter emission as tonne/hr. If by using the formula given above the stack height arrived is more than 9 m then this higher stack should be used.
(iii) The minimum stack height should be 30 Mts.
24. Nothing in this consent shall be deemed to preclude the instruction of any legal action nor relieve the applicant from any responsibility, liabilities of penalties to which the applicant is or may be subject.
25. The industry shall maintain the following record to the satisfaction of the Board.
1. The industries shall install separate energy meter and maintain log books for running of all air pollution control devices or pumps/motors used for running of the same.
2. Register showing the results of various tests conducted by industry for monitoring of stack emission and ambient air.
26. 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.
27. The consent being issued by the Board as above doesn't imply that unit performance conforms to law as required. The consent is being issued provisionally only with a view to accommodate the unit to provide it an opportunity to modify its operation immediately so as bring them in conformity with the law of the land.
28. The industry shall provide non-leachate storage facilities for proper disposal of Hazardous wastes.
29. The industry shall provide acoustic chambers on DG sets to control noise pollution and ensure noise level within the permissible limit.
30. The industry shall submit on site/off site emergency plan, if required.
31. The industry shall submit A/R within 3 months in case of 17 categories and once in 6 months, other categories L & M and keep all the parameters within limit.
32. The industry shall comply the public liability insurance Rule, 1991 as amended to date.
33. The industry shall submit Environmental Audit report once in a year.
34. The industry shall comply noise pollution (Regulation and control) Rules, 2000.
35. The industry shall install ambient air station in case of 17 & other categories large & medium.
36. The industry shall obtain environmental clearance, if applicable as per MOEF notification.
37. The industry shall inform to HO/RO office immediately by FAX in case of failure of APCM.
38. In case of by passing the emissions, the consent shall be deemed revoked.
39. The industry shall comply all the direction/Rules/Instructions as may be issued by the MOEF/CPCB/HSPCB from time to time.

Specific Conditions :

Other Conditions :

1. The unit will maintain the APCM and will keep all the parameters within limit.
2. The unit will submit fresh analysis report within three month time.

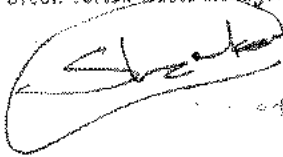
For Green Vortex Waste Management Pvt. Ltd.



Senior Environmental Engineer II, HQ
For and be'half of chairman
Haryana State Pollution Control Board,
Panchkula.

---It is system generated certificate no signature is required---

For Green Vortex Waste Management Pvt. Ltd.



Signature



BIO MEDICAL WASTE GENERATION DATA (F.Y. 2017-18)					
Month	RED/kg	YELLOW/kg	BLUE/kg	WHITE/Kg	Total
April, 2017	9228	7575	1634	0	18437
May, 2017	9086	8013	1533	0	18632
June, 2017	8478	7407	1567	0	17452
July, 2017	8406	7740	1333	0	17479
August, 2017	13049	7328	1717	0	22094
September, 2017	11330	6563	1663	0	19556
October, 2017	10821	6490	1595	0	18906
November, 2017	11653	6637	1643	378	20310
December, 2017	9144	5046	1436	327	15952
January, 2018	44.83	4382.31	8606.62	399.43	1583.48
February, 2018	72.76	4526.42	8564.23	325.47	1354.53
March, 2018	130.22	4799.58	6877.8	299.52	1550.08
TOTAL	91443	76507	38170	1729	173306

Bond

Indian-Non Judicial Stamp
Haryana Government

Date: 31/03/2017

Certificate No. G0312017C5592

GRN No. 26108053

Stamp Duty Paid : ₹ 100
(Rs. Hundred Only)

Penalty : ₹ 0
(Rs. Zero Only)

Name: Vulcan Waste Management pvt ltd

H.No/Floor : Na

Sector/Ward : Na

Landmark : Na

City/Village : Bhondsi

District : Gurugram

State : Haryana

Phone : 9971794840



Purpose : SERVICES AGREEMENT to be submitted at

SERVICE AGREEMENT

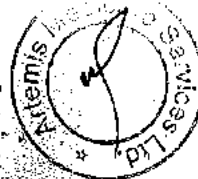
This **SERVICE AGREEMENT** (hereinafter referred to as "Agreement") is made and executed at Gurgaon on this 31st day of March, 2017 by and between:

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 Damdama Road, Village Bhondsi, Gurgaon, Haryana and its Registered office at 1046, Sector-31, Gurgaon, 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: AAFCOA130M 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**"].



Reena Mishra

WHEREAS:

- a) Vulcan has been authorized by the Haryana State Pollution Control Board (HSPCB) vide **Authorisation Letter No.: HSPCB/EE/BMW/6708 dated 31st March 2015** 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 31st March 2018.
- 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 during 6 a.m. to 10 p.m. or any other time which may be mutually agreed upon.



Reena Misra

- c) Artemis will itself arrange for all colours coded bags as per BMW Rules to be used for internal segregation & for their end point purposes.
- d) Artemis undertakes to hand over to Vulcan only the segregated Bio-Medical Waste generated on daily basis. Bags should be duly labeled as per Schedule IV, signed and tagged General Waste i.e. **MUNICIPAL SOLID WASTE IS NOT TO BE PUT INTO THE COLOUR CODED BAGS AT ALL.** For any violation of the Bio-Medical Rules in this regard Artemis shall be exclusively responsible.
- e) Artemis's responsibility will cease once the segregated bio-medical waste, duly packed, labeled and signed, has been handed over to Vulcan. Artemis will be solely responsible for compliance of Bio-Medical Waste Management Rules, 2016/Bio-medical Waste (Management & Handling) Rules, 1998 in respect of its liquid bio-medical waste.

4. Responsibilities and Duties of Vulcan

- a) Vulcan will require Artemis's staff/representative to sign its daily BMW Collection Sheet in acknowledgement of Bio-Medical Waste handed over. Vulcan's staff will sign the Record Book to be maintained by Artemis in acknowledgement of waste collected. Maintenance of the said Record Book by Artemis is a statutory requirement and has to be complied with.
- b) Vulcan will be responsible for complying the following basic guidelines of Bio-Medical Waste Management Rules, 2016/Bio-medical Waste (Management & Handling) Rules, 1998 and more specifically listed in **Annexure-C**:
 - Bio-Medical Waste shall be treated & disposed off in-accordance with Schedule & in compliance with the standards prescribed in Schedule I.
 - Setting up in accordance with the time schedule VI, requisite Bio-Medical Waste treatment facilities like incinerator, autoclave, and microwave system for the treatment of waste at a common waste treatment facility or any other waste treatment facility.
 - Notwithstanding anything under Motor Vehicle Act, 1998 or rules thereunder, untreated Bio-Medical Waste shall be transported only in such vehicle as may be authorized for the purpose by the competent authority as specified by the Government.
 - No untreated Bio-Medical Waste shall be kept stored beyond a period of 48 hours.
 - Maintaining records related to the collection, reception, storage, transportation, treatment, disposal & or any form of handling of Bio-Medical waste in accordance with those rules & any guidelines issued.
 - Suitably designed pollution control devices should be installed/retrofitted with the incinerator to achieve the required emission limits, if necessary.
 - Ensure that animals do not have access to burial sites. Cover of galvanized iron/wire meshes may be used for such purpose.
 - Comply all the directions for collection, reception, storage, transportation, treatment disposal & handling and also ensure that there is no adverse effect to Human & Environment.

5. Tenure

Subject to the termination clause mentioned hereinafter, this Agreement shall come into force with effect from **1st April, 2017** and shall remain in force till **31st March 2018**.

6. Payment Terms

- a) Artemis shall pay Service Charges to Vulcan as per **Annexure-B** towards the services provided, subject to deduction of tax at source. Taxes as applicable shall be charged extra.
- b) Monthly Bills shall be raised by Vulcan to Artemis and Artemis shall make the payment in advance for each month



Artemis Medicare Services Ltd.

7. Liability and Indemnity

It is specifically agreed and understood that compliance of the Bio-Medical Waste Management Rules, 2016/Bio-medical Waste (Management & Handling) Rules, 1998 during transportation and disposal of Bio-Medical Waste shall be the exclusive responsibility of Vulcan. Vulcan 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 non-compliance of BMW regulations by Vulcan during the transportation and disposal of Bio Medical Waste.

8. Termination

- a) Artemis may terminate this agreement by giving 60 days prior written notice to the other party without any cause.
- b) In case of any complaint regarding services provided by Vulcan 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.
- f) After termination of agreement Vulcan shall inform the Haryana State Pollution Control Board in writing regarding cancellation of agreement with prior intimation to Artemis.

9. 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. Vulcan further represented that it will communicate the details of renewed license to Artemis after the expiry of the above mentioned license.

10. 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 Vulcan 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.



Keena Piwani

11. 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 Gurgaon for all matters arising out of or in connection with this Agreement.

12. Dispute Resolution/Arbitration

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, the Chief Executive Officer (CEO) or Director of Artemis shall have the power to appoint an independent 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.

13. 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.

VULCAN	ARTEMIS
Vulcan Waste Management Pvt. Ltd., Damdama Road, Village Bhondsi, Gurgaon, Haryana. E-mail: vulcan.anup@gmail.com	Artemis Medicare Services Ltd., 'Artemis Hospital', Sector-51, Gurgaon-122 001, 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.

14. 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.

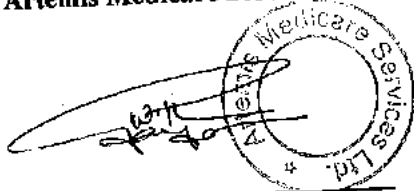


Reena V. Puri

- 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.

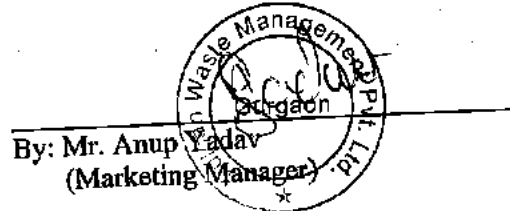
**IN WITNESS WHEREOF, THE PARTIES HERETO HAVE SET THEIR HANDS AND SEAL
ON THE DAY AND YEAR FIRST ABOVE WRITTEN**

For Artemis Medicare Services Limited



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

For Vulcan Waste Management Private Limited



Witnesses:

1. Krishan Kumar

2.

Reena Bhasin

LIST OF LOCATIONS

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



Reena V. Pillai

ANNEXURE-B**MONTHLY SERVICE CHARGES**

Sl. No.	Name of the Institution	Amount, After Deduction of the charge and contribution after additional service charges & Deposits.
01	Artemis Hospital Sector-51, Gurgaon	Rs. 3,08,700/-

Note:

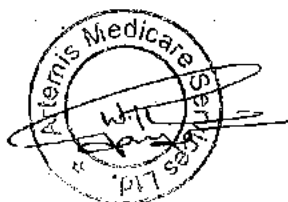
Above service charge is exclusive of the service tax and other related cess & levies.



Reena V. Bhatnagar

TERMS & CONDITIONS OF AUTHORISATION

1. The applicant shall comply with the provisions of Bio-Medical Waste (Management & Handling) Rules, 1998 notified vide No. S.O. 630 (H) dated 20th July, 1998.
2. Bio-Medical Waste shall be treated & disposal off in accordance with Schedule & in compliance with the standards prescribed in Schedule I.
3. Every occupier where required shall setup in accordance with the time schedule VI, requisite treatment Bio-Medical Waste treatment facilities like incinerator, autoclave, microwave system for the treatment of 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 point of generation in accordance with Schedule II prior to storage, transportation treatment & disposal. The containers shall be labeled according to Schedule III.
6. If a container is transported from 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 prescribed in Schedule IV.
7. Now with standing anything contains Motor Vehicle Act, 1998 or rules there under, untreated the Bio-Medical Waste shall be transported only in such vehicle as may be authorized 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 authorized person, shall maintain records related to the generation, collection reception storage, transportation treatment, disposal & or any form of handling of Bio-Medical Waste in accordance with those rules & any guideline issued.
10. All records shall be subject to inspection & verification by the prescribed authority at any time.
11. Suitably designed pollution control devices should installed/retrofitted with the incinerator to achieve the above emissions limits, if necessary.
12. Waste to be incinerated shall not be chemically treated with any chlorinated disinfectants
13. Chlorinated plastics shall not be incinerated. Toxic Metals in incineration ash shall be limited within the regulatory quantities as defined under the Hazardous Waste (Management & Handling) Rules, 1998.
14. Only Low Sulphur Fuel like LDO/L.S.H.S./Diesel shall be used fuel in the incinerator.
15. A pit or trench should be dug about two meters deep it should be half filled with waste then covered with lime within 50 cm of the surface before filling the rest of the pit with soil.
16. It must be ensure that animals do not have access to burial sites Cover of galvanized iron/wire meshes may be used.
17. On each occasion when wastes are added to the pit, a layer of 10cm of soil shall be added to cover the wastes.
18. Burials must be performed under closed & dedicated supervision.
19. The deep burial site should be relatively impermeable & no shallow well close to site.
20. The pits should be distant from habitations & sites so as ensure that no contamination occurs of any surface water for ground water. The area should not be prone to flooding erosions.
21. The location of deep burial site will be authorized by the prescribed authority.
22. The institution shall maintain a record of all pits for deep burial.
23. Occupier will install incinerator APCM such as wet scrubber of its own or having facility within 2 months & will submit scheme alongwith time phased programme within 15 days.
24. Occupier will submit analysis report after the installation of incinerator/ APCM.
25. Occupier will comply all the directions for generation, collection, reception storage, transportation, treatment, disposal & handling as per Bio-Medical Waste (Management & Handling) Rules, 1998 & will ensure that there is no adverse effect to human & Environment.
26. The Occupier will segregate the Bio-Medical Waste at the point of generation in accordance with the Schedule-II of Bio-Medical Waste (Management & Handling) Rules, 1998. The every occupier will also submit the copy of agreement every year before 30 April from any authorized service provider.
27. The authorization would be subject to having proper disposal system for Bio Medical Waste.
28. The unit shall maintain a log book for segregation /collection of Bio-Medical waste at the source (i.e. wards) and also each category of waste incineration, autoclaving or land fill etc.
29. The Yellow Bags should be non-chlorine bags.
30. The Unit will also provide needle destroyer in each ward.
31. The healthcare unit will maintain the record for proper collection, storage of the spilled mercury from the damaged thermometers, pressure, instruments & equipments and sending of the same to the manufacturer.
32. The healthcare unit will submit the Annual Report in Form-II by 31st January every year.
33. The Unit will submit the compliance report of above said conditions within 15 days positively.



Reena Arora

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/HN/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/HN/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/HN/15/1312 (P184960) - Renewal regarding.

महोदय /Sir

(स)

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

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

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

Licence No. P/NC/HN/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> पर जाएं।
(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 भंडारण 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 मात्राओं में पेट्रोलियम 30.00 KL आयात करने के लिए और उसका, तौलें 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 भण्डारण 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 पृष्ठांकन के लिए स्थान
SPACE FOR ENDORSEMENT OF RENEWALS

पेट्रोलियम अधिनियम, 1934 के उपबन्धों या नवीकरण की तारीख समाप्ति की तारीख अनुमानित प्राधिकारी के हस्ताक्षर और
उनके अधीन बनाए गए नियमों या इस Date of Date of स्टाम्प
अनुमति की शर्तों का उल्लंघन न होने की दशा Renewal Expiry of license Signature and office stamp of the
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.

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.

From

Commissioner,
Municipal Corporation,
Gurugram

To

M/s Artemis Medicare Services Ltd.,
Artemis Hospital, Sector- 51,
Gurugram

No. MCG/FS/SFSD/2017/240

Dated: 06-5-2017

Subject:

Renewal of NOC from fire safety point of view of the Hospital Building
named Artemis Hospital, Sector- 51, Gurugram of M/s Artemis
Medicare Services Ltd.

Reference your letter no- NIL Dated- 02/02/2017 & CFC, MCG Application No
201702025346 Dated- 02/02/2017 on the subject cited above.

2

Your site for the Renewal of the Fire NOC has been inspected by the Team of
Fire Station Officers, Gurugram from fire safety Point of View. The means of
escape and Fire Protection system were checked and found as per the N.B.C.
1983 part IV revised 2005 guidelines.

3

In view of the satisfactory fire protection system / arrangement mentioned as
above, this office has no objection for occupation from the Fire Safety point of
view, with the following conditions:-

- a. The owner/occupier shall keep duly trained Fire Staff in all three shifts.
- b. The Fire Protection System tested during inspection shall be maintained properly & always should be in good working condition.
- c. If any lapse is found in the fire protection system at the time of inspection or detected during outbreak of fire, action will be taken as per rules against you.
- d. You are directed to apply for Renewal of NOC in future before 2 month of expiry of your NOC.
- e. The open set back area is not checked at our end as it shall be checked by concerned building department.
- f. The owner/occupier shall strictly follow the other applicable rules/regulations/ byelaws laid down regarding fire safety system. If you fail to comply with any of the above terms & conditions you will be liable to be punished as per fire ordinance 2009 specially chapter- III Section 31 Sub-Section 1 & 2 of Fire Act 2009.
- g. You have to perform quarterly Fire Drill in your building as per NBC with intimation to Fire Department and video-graphy evidence to be kept as a record which shall be produced at the time of next Renewal; Officials/Residents/R.W.A. should be mentioned in the drill.
- h. If the Infringements of Byelaws remains un-noticed the Authority reserves the right to amend the NOC as and when any such Infringements comes to notice after giving an opportunity of being heard and the Authority shall stand Indemnified against any claim on this account.

4.

This NOC is valid for only one year w.e.f. 03/05/2017 to 02/05/2018 as per Clause 19 of Fire Act 2009 Applying for renewal of the same well in time shall be the responsibility of owner/occupier.

Received on
08/05/17
original in copy.
legane

7639


Sr. Fire Station Officer
For Commissioner
Municipal Corporation,
Gurugram

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. C. Sharma
(R.C. Sharma)
Scientist-D

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

B-2

From

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

To

Artemis Medicare Services Pvt Ltd, Sector 51, Gurgaon

Sub.

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

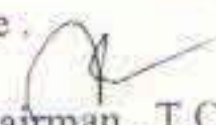
Memo.

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. *4057-22*
2nd Floor. *4057-22*
Basement. *4057-22*
Total Covered Area. *28801.57 Sqm*

Complete certificate
effective from
Dt. *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 con-
trols/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 addi-
tion/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
Owner/Contractor.

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

Endst. No.

1. Allotment Branch.
2. Sub Divisional Engineer, (Survey) HUDA, Gurgaon

Estate Officer
HUDA, Gurgaon

Annexure A4

1) CTO (Air & Water)

2) HWM Authorization



HARYANA STATE POLLUTION CONTROL BOARD

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

E-mail: hspcb.pkl@sify.com



No. HSPCB/Consent/ : 313099717GUNOCTO4297296

Dated:16/08/2017

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. 4297296 received on dated 2017-06-29 in regional office Gurgaon North. With reference to your above application for consent to operate, M/s Artemis Medicare Services Limited is hereby granted consent as per following specification/Terms and conditions.

Consent Under	BOTH
Period of consent	01/10/2017 - 30/09/2018
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 1 to DG Set 1250 KVA	37.5 METER
2. Stack 2 to DG Set 1250 KVA	37.5 METER
Emission parameters	
1. NA	0 mg/m ³
Product Details	
1. NA	0 Metric Tonnes/day
Capacity of boiler	
1. NA	0 Ton/hr
Type of Furnace	
1. NA	0 0
Type of Fuel	
1. Diesel	1.7 KL/day
Raw Material Details	
NA	0 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 in the form of used/spent oil will be sold only to authorized recyclers / Refiners of hazardous waste. 6. Unit will apply for authorization under HWM Rules immediately .

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



HARAYANA STATE POLLUTION CONTROL BOARD
C-11, SECTOR-6, PANCHKULA
Ph.01722577870-73
E-mail: hspcb.pkl@sify.com

No. HSPCB/Consent/ : 2805716GUNOCTOHWM2582153

Dated:10/03/2016

To

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

Sub: Authorization for operating a facility for collection, reception, treatment, storage, transportation and disposal of hazardous wastes from 01/04/2016 to 30/09/2017

Please refer to your authorisation application dated 2015-12-28 received in the board on the subject cited above.

M/s Artemis Medicare Services Limited situated at above address is hereby granted an authorization to operate a facility for collection, reception, treatment, storage, Transportation and disposal of hazardous wastes on the premises of the unit. The authorization shall be in force for a period as mentioned in the subject.

The authorization is subjected to the conditions stated below and such conditions as may be specified in the rules for the time being in force under the Environment (protection) Act, 1986.

TERMS AND CONDITIONS OF AUTHORIZATION

1. The authorization shall comply with the provisions of the Environment (protection) Act, 1986 and the rules made thereunder.
2. The authorization or its renewal shall be produced for inspection at the request of an officer authorized by the State Pollution Control Board.
3. The person authorized shall not rent, lend, sell transfer or otherwise transport the hazardous wastes without obtaining prior permission of the State Pollution control Board.
4. An application for the renewal of an authorization shall be made as laid down in rule 5(6)(ii).
5. The unit should have the necessary facilities for collection, reception, treatment, Transport and disposal of such wastes under the rule. In case of deadly toxic wastes such as Cyanide, Chromium, Nickel, Zinc, etc., the unit shall make arrangement for the pre-treatment before dumping it in the disposal site so that the toxic element does not leach down to pollute the underground water resources.
6. The collection, reception and transportation of hazardous waste shall be carried out by the authorized person/personnel, fully trained for this purpose.
7. Any unauthorized change in personnel, equipment as working conditions as mentioned in the application by the person authorized shall constitute a breach of his authorization.
8. The unit shall ensure the proper usage of safety measures such as providing of gloves, gum boots, face masks, goggles etc to the workers engaged in the handling of hazardous waste.
9. The authorization so granted shall be cancelled or suspended by the Board if the unit fails to comply with any condition of grant of authorization under these rules.
10. Used containers should be pre-cleaned by neutralizing and cleaning agents/solvents/chemicals.
11. The occupier shall not sell or transfer such waste on payment or without payment to any unauthorized people who do not hold any authorization.
12. The unit shall not dispose any Hazardous waste at any other Public Place.
13. Unit will maintain its non-leachate pucca storage site properly.
14. The unit will comply with provisions of all Environmental laws including HWTM Rules etc. and comply with the directions issued by the Board from time to time.

Specific Conditions :

Other Conditions :

1. That the unit will run and maintain its STP/ETP/APCM regularly and properly , will provide separate energy meter on their STP/ETP/APCM and maintain the Log Book for energy consumption of STP/ETP/APCM and chemicals used daily for the STP/ETP . 2.That the unit shall keep all the parameters within the prescribed limits and shall comply with all the Norms and Rules as prescribed in the Act 3.That the unit will adopt cleaner technology thereby reducing pollution load. 4.That the unit will provide inter locking arrangement of DG set with STP/ETP/APCM and shall have separate D.G. set to ensure regular and effective running of pollution control devices. 5.That the unit will not discharge any untreated effluent inside and outside its premises 6.Unit will provide separate flow meter at Inlet/ Outlet of STP/ETP for which separate log book will be maintained. 7.That the unit will not add any air polluting process/ machinery and also not to add any process which increases the water pollution load. 8.That the unit will comply with all the provisions of Hazardous Waste Rules and submit return under HWM Rules on yearly basis. 9.That the CTO so granted shall become invalid in case of violation of any of the above / any law of the land.

**Regional Officer
For and On Be'half of the Chairman
Haryana State Pollution Control Board.
Panchkula.**

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	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 m ² v. Greenbelt Area: 15000 m ² vi. Manpower: 1500 Appx. vii. CAPEX on PCD: ₹ 1 Crore appx. viii. OPEX on PCD: ₹ 40 Lakh p.a. appx. 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) & ₹ 40 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

Excerpts from Balance Sheet

(1) P&L Statement
(2) Capital
Investment Data

Artemis Medicare Services Limited
Statement of Profit & Loss for the year ended 31st March, 2017

Particulars	Note No.	Year Ended 31st March, 2017 Rs. in Lacs	Year Ended 31st March, 2016 Rs. in Lacs
Income			
Revenue from Operations	18	45,899.55	40,179.45
Other Income	19	501.26	538.37
Total Revenue (I)		46,400.81	40,717.82
Expenses			
Purchase of Pharmacy Drugs & Medical Consumables	-	11,874.10	10,221.04
Purchase of Stock in Trade	-	175.30	313.10
(Increase) / Decrease in Inventories of Pharmacy Drugs, Medical Consumables & Stock in Trade	20	(31.76)	106.25
Employee Benefits Expense	21	7,876.26	7,024.00
Finance Costs	22	938.07	882.23
Depreciation and Amortization Expenses	23	1,515.85	1,238.84
Other Expenses	24	20,886.40	18,190.94
Total Expenses (II)		43,234.22	37,976.41
Profit before Tax (I - II)		3,166.59	2,741.42
Tax Expense			
Minimum Alternative Tax (MAT)		725.36	577.03
Less : MAT Credit Entitlement		(903.03)	-
Less : Earlier year tax written back		(649.45)	-
Deferred Tax Liability		998.51	-
Total Tax Expense		171.39	577.03
Profit After Tax for the year		2,995.20	2,164.39
Earning Per Equity Share (Face Value of Rs. 10/- each)			
- Basic	29	14.24	10.29
- Diluted		14.24	10.29

Significant accounting policies &
Notes on Financial Statements

1 to 40

As per our report of even date
For S. P. Puri & Co.
Chartered Accountants
Firm Registration Number 001152N



(Vidur Puri)
Partner
Membership No. 090163

Place : Gurugram
Dated: May 4, 2017



For and on behalf of the Board of Directors
of Artemis Medicare Services Limited

Onkar S. Kanwar
Onkar S. Kanwar
[Chairman & Director]
[DIN: 00056921]

Sanjiv Kumar Kothari
Sanjiv Kumar Kothari
[Chief Financial Officer]

Dr. Devlin Chakravarty
Dr. Devlin Chakravarty
[Executive Director]
[DIN : 07107875]

Navneet Goel
Navneet Goel
[Company Secretary]

Note No. 10.1

Rs. in Lacs

PROPERTY, PLANT AND EQUIPMENT

Particulars	Land *	Building **	Leasehold Improvement	Computers	Furniture & Fixtures	Office Equipments	Plant and Equipments	Vehicles	Total
GROSS BLOCK									
At April 1, 2015	6,900.00	9,832.67	362.40	561.14	1,010.11	274.75	9,294.23	181.59	30,436.88
Additions	-	37.85	112.65	62.53	59.62	69.32	1,121.37	91.41	1,554.95
Disposals / Discarded during the year	-	-	-	-	-	-	-	(16.34)	(16.34)
Revaluation	658.90	-	-	-	-	-	-	-	658.90
At 31st March, 2016	9,558.90	9,870.52	475.25	643.67	1,069.73	344.07	10,415.60	256.66	32,634.40
Additions	-	485.30	54.17	283.56	228.01	91.48	3,700.83	13.01	4,846.36
Disposals / Discarded during the year	-	-	(110.72)	-	(0.59)	-	-	(46.21)	(157.51)
Adjustment during the year #	-	8.90	-	-	0.72	-	66.62	-	76.24
Revaluation	-	-	-	-	-	-	-	-	-
At 31st March, 2017	9,558.90	10,344.72	418.70	937.23	1,297.87	435.55	14,183.05	223.46	37,399.49
DEPRECIATION									
At April 1, 2015	-	1,162.62	98.79	491.46	520.82	176.80	4,190.57	73.01	6,706.07
Charge for the year	-	165.91	24.58	50.02	140.20	32.73	763.33	29.65	1,206.42
Disposals / Discarded during the year	-	-	-	-	-	-	-	(7.64)	(7.64)
At 31st March, 2016	-	1,318.43	123.37	541.48	661.02	211.63	4,953.90	95.02	7,904.85
Charge for the year	-	177.28	37.51	77.80	159.50	49.44	947.83	26.20	1,475.57
Disposals / Discarded during the year	-	-	(25.80)	-	(0.23)	-	-	(21.06)	(47.09)
At 31st March, 2017	-	1,495.71	135.08	619.28	820.29	261.07	5,901.73	100.16	9,333.33
NET BLOCK									
At 31st March, 2016	9,558.90	8,552.09	351.88	102.19	408.71	132.44	5,461.70	161.64	24,729.54
At 31st March, 2017	9,558.90	8,849.01	283.62	317.95	477.58	174.48	8,281.32	123.30	28,066.16

* During the previous year, the Company has further revalued its land based on the market price at the date of valuation, as determined by an approved valuer. This has resulted in increase in the book value of property, plant & equipment by Rs. 658.90 Lacs in the previous year, which has been credited to revaluation reserve.

** Includes part of the building given on operating lease whose cost, depreciation for the year and WDV at the end of the year is not segregated.

comprises of borrowing cost of Rs. 76.24 Lacs. The borrowing cost capitalised during the year ended 31 March, 2017 was Rs. 106.80 Lacs (31 March 2016 : Rs. 3.41 Lacs). The Company capitalised this borrowing cost in the capital work-in-progress (CWIP). The amount of borrowing cost shown as other adjustments in the above note reflects the amount of borrowing cost transferred from CWIP.

Note No. 10.2

INTANGIBLES ASSETS

Particulars	Computer Software
-------------	-------------------

GROSS BLOCK

At April 1, 2015	465.99
Additions	17.00
Disposals / Discarded during the year	-
At 31st March, 2016	482.99
Additions	56.07
Disposals / Discarded during the year	-
At 31st March, 2017	539.06

AMORTIZATION

At April 1, 2015	256.68
Charge for the year	32.42
Disposals / Discarded during the year	-
At 31st March, 2016	289.10
Charge for the year	40.28
Disposals / Discarded during the year	-
At 31st March, 2017	329.39

NET BLOCK

At 31st March, 2016	193.89
At 31st March, 2017	209.67



Annexure A8

1) CSR Details

2) Energy Audit Report

*3) PO copy for Solar
Energy Installation*

*4) Schematic Diagram of
Rainwater Harvesting
Structures*

*5) Schematic Diagram of
STP*

Artemis Medicare Services Limited

Corporate Social Responsibility (FY17-18)

CSR expenses for FY17-18

- CSR Budget – 54.25 Lacs
- CSR Expenses – 36.40 Lacs

Project name: Children at risk

The project provided safe shelter to the rescued street children who were in dire need of care and protection. The project aimed at providing two highly critical services to girls rescued from the streets including shelter and vocational training/skill building in Arushi Residential Centre of Salaam Balak Trust(SBT).

A protective space to live is the most basic need for a child to lead a normal life. A safe place to sleep, a small cupboard to store personal belongings, a somewhat set pattern to life (e.g. regulated timings for food, study, play, roll call and going to bed etc.) and most importantly the feeling that 'I am protected and no one will harm me' can do wonders for the child. On the other hand skill development is a more advanced level service but it is extremely paramount to enable reintegration of street children transforming into young adults back to the society.

Adequate skill building and vocational training is crucial for children to find gainful employment and become self-reliant. It is in this context, the Artemis supported project played a paramount role in ensuring well-being of girls rescued from streets and other difficult circumstances in SBT's Arushi Residential Centre.



Case story: Purnima

Roma is one of the girls who was supported under the project. She is 16 years old and has cleared her Class 12 exam by scoring 84% marks. She has been selected for Vahani scholarship and is enrolled in Vanasthali University in Rajasthan in degree course in Journalism and mass communication. She has shifted in the hostel of the University.

Purnima came to Arushi around four years back when she was 15 years of age. She belongs to Assam. She was rescued by the Childline team. She informed the team that her parents died so she did not want to go back to her native state. The Child Welfare Committee then issued directions to place Purnima in Arushi Children's home. She is a very co-operative child from the beginning and aspires to become a successful beautician so Arushi team helped her to find a good beauty parlour for her training. She improved remarkably and received a good stipend but as she did not have proper training from an institute, she could not progress to a permanent employee. With the support of project funds, she was enrolled in VLCC training course. She completed her course successfully and began working in Style-in-Scissors parlour in Gurugram with salary of 10,000 per month. Due to her good work and perseverance, she found a better job in a parlour known as Cut & Style with a 30% increase in her salary. She is preparing to lead an independent life on her own upon her rehabilitation after turning 18.

Another project under 'Children at Risk' focused on providing pre-school, non formal education and nutrition to 104 marginalised children of the brick Klink workers and create an environment of learning. The syllabus



included- Identifying alphabets and their phonics by using educational charts, illustrations, storytelling, identifying number and its value, dancing and singing, games, drawing, learning about animal names, colours, shapes, body parts, fruits and vegetables. The second measure taken was to provide nutritional supplements to these 104 children- The items included rice, dal, sabji, egg, chicken, fruit and clean water to drink.

Project name: Enable elderly

With erosion of traditional joint family system, older persons are the most affected section of the society; many of them find it very hard to adjust/adapt in changed conditions. In absence of proper support mechanism in Old Age, today, older persons living in slum areas & resettlement colonies are forced to live in the most disadvantaged circumstances. Due to poor financial status, older persons live a life devoid of basic quality of life.

The program implemented by Agewell foundation supported destitute older persons living in slums across Faridabad/Gurgaon with the objective to improve their health condition by providing them nutritious and healthy food supplements and other useful products.

**Objectives:**

- To increase immunity of destitute elderly (60 years and above) and help them improve their health condition
- To provide nutritious, healthy food supplements and other useful products to needy elderly (60 years and above)
- To sensitize elderly, their family members, care-givers and others towards healthcare needs and requirements in old age
- To create awareness in the society about the needs & rights of older persons (60 years and above)

The program reached out to over 200 elderly persons and supported them in providing a dignified life.

Project name: Swasth Gaon- EK Pehal

Project goal: To improve the health status of the communities by imparting & promoting preventive, holistic and comprehensive health care and well being education.

About the project

CSR project Swasthya Gaon-Ek Pehal in Nakhrola Village of Gurgaon district, Haryana is being implemented with a goal to improve the health status of the community by imparting & promoting preventive, holistic and comprehensive health care and well-being education. The program aims to build the capacities of AWCs and Primary Health Centre and then utilize this platform to strengthen the community health outreach program. The program is

contextualized respecting the cultural and traditional practices of the community which are looked upon as an opportunity to promote preventive and holistic health care and knowledge.

Objectives –

- To create health consciousness and positive health seeking behavior among communities.
- To strengthen the public health delivery system through capacity building program
- To strengthen the quality of ICDS services provided at the select AWCs and make each one of them a “vibrant Early Childhood Care and Education (ECCE) Centre”
- To improve the knowledge on reproductive health amongst adolescents.
- Community WASH Activities: To disseminate WASH (Water, sanitation and hygiene) related trainings and education among the front line health workers and targeted community.
- To raise awareness among the community and stakeholders about the services of AWC and to sensitize communities about safe water, sanitation and hygiene practices
- To facilitate creation of a joyful and safe early learning environment at the AWC with need-based up gradation of infrastructure and facilities
- To enhance the life skills of adolescent boys, girls and youth.

Antenatal care, Post natal care and other delivery related information through Godhbharai ceremony-

Godhbharai Ceremony is being conducted in the village. The event is attended by pregnant women along with their family members. The pregnant females were oriented about the importance of ANC, PNC, safe



19 Jan, 2018: Godhbharai event at Nakhrola village

delivery and vaccination. The event has been taken very positively by the village Sarpanch, Mrs. Sanjam Yadav. Each mother was given a set of nutritional packet which includes Gur (Jaggery), Rosted Chana, Bindi, Comb and Sindur, along with an information booklet.

New Born Care awareness through Shishu Swagat

New born care is provided to the mothers and their family members across the community. Shishu swagat was organized in the village for lactating mothers (with 0-6 months old children) along with their family members. Mothers were counselled on importance of early childhood care and breastfeeding practices. This traditional ceremony was chaired by an expert, Ms. Shikha Singhal, who shared with the mothers about importance of breastfeeding, the correct methods



of breastfeeding, identification of danger signs in child, information about kangaroo mother care. The information was given through demonstration by Laerdal Kit for better understanding.

Each new born child was given a 'Sishu swagat kit' along with an informational booklet.

Awareness on initiation of complimentary feeding through Annaprasanna

This program focuses on lactating mothers and those having children aged 6-12 month who were provided information and tips on complimentary feeding, healthy diet, immunization, do's and don'ts, hygiene practices etc. In addition, queries of the parents/ mothers were also addressed. During these activities, special focus was given on babies initiating solid food feeding. A special "Anaprashan" kit containing few utensils- cup, plate and spoon for



babies was given to promote safe and hygienic feeding practices.

Importance of complete immunization through Healthy Baby shows

Healthy baby show was organized to encourage and motivate communities for complete immunization. The assessment was made on the basis of their immunization status, nutritional and sanitation status and milestones for growth and development. The recognition was presented jointly by the expert and AWW along with the local health workers like ASHA and ANM.

Nutritious Food Festival

This program is a unique step of approaching the community and promoting importance of nutritious and healthy food by active participation of the community itself through food festival. During these events, cooking demonstrations and competitions were organized in Anganwadi Centers wherein local community women prepared low cost nutritious meals from their recipes.



8 March, 2018: Nutritious food festival

The focus is towards improving health and nutritional status of women through imparting knowledge through practical demonstration and using charts, posters and other educational materials.

Education & Mental Well-Being for Adolescent

Adolescence is full of demands, stresses and conflicts and the mental wellbeing of adolescents depend on how effectively they deal with these experiences. A core set of abilities called life skills enable adolescents to deal effectively with these demands.



Life skills include, self - awareness (being able to aware about one's self), empathy (ability to

understand other persons views and feelings), ability to communicate effectively, ability to maintain interpersonal relationships, ability to cope with emotions and stress, ability to think creatively and critically, ability to make decisions and to solve problems. The education session on mental well being was organized for children of class VI and above along with school Principal and teachers were invited. Children were counseled on importance of mental health. The event was attended by Sarpanch's husband Mr. Laxman Yadav, Smt Sudha Arora Gov. High School Principal. Over 200 children and teachers actively participated in the program.

The program has reached has been taken very positively by the community women and leaders, and we aim to create a strong impact enabling improved health of the community.

Cancer screening awareness and camps

Artemis Health Sciences Foundation organized 17 cancer screening camps covering 1046 people and sensitizing around 2500 people on cancer.



Details of activities:

Village	District	No of Camp	No. of people
Bandhwari	Gurugram	6	364
Islampur	Gurugram		
Dhankot	Gurugram		
Asawari	Charkhidadri		

Shyamnagar	Faridabad		
Patelnagar slum	Faridabad		
Rajokri	SW Delhi	6	453
Sakatpur	Gurugram	5	229
Damdma	Gurugram		
Daula	Gurugram		
Sehjawas	Gurugram		
Abheypur	Gurugram		

Annexure List:

1. MOU and UC - Agewell Foundation
2. MOU and UC - Bosconet
3. MOU and UC - Salaam Balak Trust
4. MOU and UC – HLPPT
5. MOU and UC – DAVO

Memorandum of Understanding (MOU)

This **Memorandum of Understanding** (hereinafter referred to as "MOU") entered on this 16th January, 2017 by and between:

M/s Artemis Medicare Services Limited, a company registered under the Companies Act, 1956, having its registered office at 414/1, 4th Floor, DDA Commercial Complex, District Centre, Janak Puri, New Delhi- 110058 and Corporate Office at Artemis Hospital, Sector-51, Gurgaon-122001 acting through its authorized signatory, Mr. Navneet Goel, Head-Legal & Company Secretary (hereinafter referred as "**ARTEMIS**", which expression shall, unless it be repugnant to the context or meaning thereof, be deemed to mean and include its successors, nominees, affiliates, subsidiaries, and assigns) of the **FIRST PART**.

AND

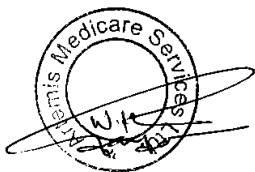
AGEWELL FOUNDATION, a not for profit, Non-Government Organization, having its office at M-8A, Lajpat Nagar-II, New Delhi-110024, acting through its authorized signatory, Mr. Himanshu Rath, Chairman (hereinafter referred as "**AGEWELL**", which expression shall, unless it be repugnant to the context or meaning thereof, be deemed to mean and include its successors, nominees, affiliates, subsidiaries, and assigns) of the **SECOND PART**;

(Both AGEWELL and ARTEMIS are hereinafter referred to as such or individually as "The Party" and collectively as "The Parties")

WHEREAS

1. **ARTEMIS** is a healthcare organization and intends to undertake Corporate Social Responsibility under its CSR program titled as "Enable Elderly" in a project mode which aims at promoting education including special education, employment enhancing vocation skills, livelihood enhancement projects, eradicating hunger, poverty and malnutrition, setting up of day care centre, old age homes, shelter homes and other similar facilities in Delhi and Haryana.
2. **AGEWELL** is a not-for-profit NGO which has been actively working for the welfare and empowerment of older persons in India since 1999 and AGEWELL has represented ARTEMIS through its written proposal for undertaking to carry out the CSR project of Artemis titled as "Enable Elderly".
3. **ARTEMIS** has agreed to contribute a sum of Rs. 11,00,000 (Rupees Eleven Lacs Only) towards its aforesaid CSR Activity to be incurred in project mode by AGEWELL for a group size of 100 destitute elderly in a period of 12 months.
4. **ARTEMIS** and **AGEWELL** are desirous of entering into MOU for execution of the aforesaid object.

NOW THEREFORE, IN CONSIDERATION OF MUTUAL PROMISES AND UNDERTAKING HEREIN CONTAINED IN THIS MOU WITNESSETH AS FOLLOWS:



Himanshu Rath





(In Special Consultative Status with the ECOSOC at United Nations since 2011)
(In association with UN-DPI-NGO)

March 27, 2018

CERTIFICATE OF FUND UTILIZATION

This is to certify that Agewell Foundation has utilized an amount of Rs. **954,708.00/-** (Rupees Nine Lakh Fifty Four Thousand Seven Hundred Eight only) sanctioned by **Artemis Medicare Services Ltd.** as per MoU signed between **Artemis Medicare Services Ltd.** and **Agewell Foundation** on 16th January 2017 on project "Enable Elderly" under CSR Initiatives of Artemis Medicare Services Ltd.

Summary of the Audited Quarterly Fund Utilization Certificates is as under;

Sl.	Funds Received	Amount (Rs.)
1	1st Installment	275000
2	2nd Installment	225000
3	3rd Installment	230000
4	4th Installment	243750
	Total Funds Received	973750

Sl.	Expenditure made	Amount (Rs.)
1	Procurement of nutritious food items	651,808.00
2	Designing and Printing	5250
3	Communication with local community and beneficiaries	110,200.00
4	Project Monitoring and Supervision	122,850.00
5	Transportation of project material	64,600.00
	Total expenditures	954,708.00

Balance in Hand 19,042.00

Under the project free monthly food packets were distributed among destitute and needy elderly living in slums of Gurgaon and Faridabad.

For Agewell Foundation



Himanshu Rath
Chairman



Agewell Foundation

M-8A, Lajpat Nagar-II, New Delhi-110024, INDIA, Ph.: 91-11-29836486, 29840484

Half Yearly Compliance Report Agewell Foundation@gmail.com Website: www.agewellfoundation.org (Page 111 of 178)

(Contributions to Agewell Foundation are exempted u/s 80G of the Income-tax Act)

FCRA No. 231660163



A.K. NAIR & CO.
CHARTERED ACCOUNTANTS

C-192, SARVODAYA ENCLAVE,
NEW DELHI-110017,
Tel. (011) 26528099, 26968617 41829162-63,
Fax. (011) 41829164,
Email: arvinair@yahoo.com
ca.ashishaggarwal@yahoo.in


TO WHOMSOEVER IT MAY CONCERN

This is to certify that Agewell Foundation has utilized an amount of Rs. 2,06,650/- (Rupees Two Lac Six Thousand Six Hundred Fifty only) against 4th instalment of Rs. 2,43,750/- received out of grant of Rs. 11,00,000/- sanctioned by Artemis Medicare Services Ltd. vide MoU signed on 16th January 2017 for CSR program titled as Enable Elderly, for the purpose it was sanctioned during 1st November 2017 to 15th January 2018.



Place:-New Delhi.
Date:- 15.01.2018

For A.K.Nair & Co.
Chartered Accountants
FRN- 011075N


A.K.Nair
Partner
Membership No. 84690



A.K. NAIR & CO.
CHARTERED ACCOUNTANTS

C-192, SARVODAYA ENCLAVE,

NEW DELHI-110017,

Tel. (011) 26528099, 26968617 41829162-63,

Fax. (011) 41829164,

Email: arvinair@yahoo.com

ca.ashishaggarwal@yahoo.in

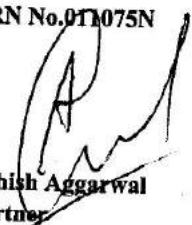
CERTIFICATE OF UTILIZATION

This is to certify that Agewell Foundation has utilized an amount of Rs.2,92,700/- (Rupees Two Lac Ninety Two Thousand Seven Hundred only) against 3rd installment of Rs. 2,30,000 received out of grant of Rs. 11,00,000/- sanctioned by Artemis Medicare Services Ltd. vide MOU signed on 16th January 2017 for CSR program titled as Enable Elderly, for the purpose it was sanctioned during August 2017 to October 2017.

For A.K.Nair & Co.
Chartered Accountants
FRN No.011075N



Place:-New Delhi.
Date:- 10.11.2017


Ashish Aggarwal
Partner
Membership No.514308



A.K. NAIR & CO.
CHARTERED ACCOUNTANTS

C-192, SARVODAYA ENCLAVE,
NEW DELHI-110017,
Tel. (011) 26528099, 26968617 41829162-63,
Fax. (011) 41829164,
Email: arvinair@yahoo.com

CERTIFICATE OF UTILIZATION

This is to certify that Agewell Foundation has utilized an amount of Rs. 2,20,528/- (Rupees Two Lac Twenty Thousand Five Hundred Twenty Eight only) against 2nd Instalment of Rs. 2,25,000 received out of grant of Rs. 11,00,000/- sanctioned by Artemis Medicare Services Ltd. vide MoU signed on 16th January 2017 for CSR program titled as Enable Elderly, for the purpose it was sanctioned during 16th April 2017 to July 2017.

For Agewell Foundation

Harmaninder Rath

Place: New Delhi
Date: 31.07.2017



For A.K.Nair & Co.

Chartered Accountants

FRN: 011075N

A.K. Nair
Partner
M. No. 84690



A.K. NAIR & CO.
CHARTERED ACCOUNTANTS

C-192, SARVODAYA ENCLAVE,
NEW DELHI-110017.
Tel. (011) 26528099, 26968617 41829162-63,
Email: arvindnair@yahoo.com

CERTIFICATE OF UTILIZATION

This is to certify that Agewell Foundation has utilized an amount of Rs. 2, 34,830/- (Rupees Two Lac Thirty Four Eight Hundred Thirty only) against 1st installment of Rs. 2, 75,000 received out of grant of Rs. 11, 00,000/- sanctioned by Artemis Medicare Services Ltd. vide MoU signed on 16th January 2017 for CSR program titled as Enable Elderly, for the purpose it was sanctioned during January 2017 to 15th April 2017.

Place : New Delhi
Date : 28.04.2017



For A.K. Nair & Co.
Chartered Accountant
FRN No. 011075N

A.K. Nair
(Partner)
M NO.84690

Memorandum of Understanding (MOU)

This **Memorandum of Understanding** (hereinafter referred to as “MOU”) entered on this 16th January, 2017 by and between:

M/s Artemis Medicare Services Limited, a company registered under the Companies Act, 1956, having its registered office at 414/1, 4th Floor, DDA Commercial Complex, District Centre, Janak Puri, New Delhi- 110058 and Corporate Office at Artemis Hospital, Sector-51, Gurgaon-122001 acting through its authorized signatory, Mr. Navneet Goel, Head-Legal & Company Secretary (hereinafter referred as “**ARTEMIS**”, which expression shall, unless it be repugnant to the context or meaning thereof, be deemed to mean and include its successors, nominees, affiliates, subsidiaries, and assigns) of the **FIRST PART**.

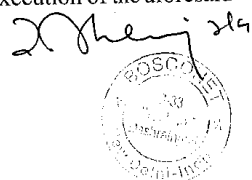
AND

BOSCONET, a non-profit, Non-Government Organisation (NGO), having its office at B-33, Dashrathpuri, Street No. -7, Palam Dabri Road, New Delhi -110045, acting through its authorized signatory, Fr. Noel Maddhichetty, Director (hereinafter referred as “**BOSCONET**”, which expression shall, unless it be repugnant to the context or meaning thereof, be deemed to mean and include its successors, nominees, affiliates, subsidiaries, and assigns) of the **SECOND PART**;

(Both **BOSCONET** and **ARTEMIS** are hereinafter referred to as such or individually as “The Party” and collectively as “The Parties”)

WHEREAS

1. **ARTEMIS** is a healthcare organisation and intends to undertake Corporate Social Responsibility under its CSR program titled as “Children at Risk” in a project mode which aims at promoting education including special education, employment enhancing vocation skills, livelihood enhancement projects, eradicating hunger, poverty and malnutrition, setting up of day care centre, and other similar facilities in Delhi & Haryana.
2. **BOSCONET** is a non-profit NGO and has been working for the last Eight (8) years focusing primarily on education, health, nutrition and hygiene of brick kiln children and has expanded its development work in the brick kiln communities through various other development activities like bridge education, mid-day meal, dispensary and crèche services, community gatherings, seminars, discussions, community entertainments surveys etc. and **BOSCONET** has represented **ARTEMIS** through its written proposal for undertaking to carry out the CSR project of Artemis titled as “Children at Risk”.
3. **ARTEMIS** has agreed to contribute a sum of Rs. 9,74,000 (Rupees Nine Lakh Seventy Four Thousand Only) towards its aforesaid CSR Activity to be incurred in project mode by **BOSCONET** for a group size of 104 children between the age group of 2-5 years in a period of 12 months.
4. **ARTEMIS** and **BOSCONET** are desirous of entering into MOU for execution of the aforesaid object.



12 March 2018

To,
Artemis Medicare Services Ltd.
Artemis Hospital,
Sector – 51, Gurgaon
Haryana – 122 001

This is to certify that **BoscoNet** has received the CSR fund from **Artemis Medicare Services Ltd., Artemis Hospital, Gurgaon, Haryana** and has been utilized as per the statement below towards the project “**promoting education among marginalized children of brick kilns and catering to their nutritional requirement in Passour, Jhajjar, Haryana**”.

Project Period : 16 January 2017 to 15th January 2018

Particulars	Amount (Rs.)
<u>Receipts:</u>	
<u>Grant Received from Artemis Medicare Services Ltd.</u>	
- 1st Installment received on 15.02.2017	2,43,500.00
- 2nd Installment received on 26.07.2017	1,31,000.00
- 3rd Installment received on 15.09.2017	1,50,000.00
- 4th Installment received on 14.12.2017	2,75,000.00
Total Receipts	7,99,500.00
<u>Payments:</u>	
Nutrition for Children	7,03,502.31
Stationery to be provided to children	37,740.00
Purchase of Teaching learning materials	12,000.00
Teacher's Remuneration	95,625.00
Monitoring, Evaluation, Impact Assessment, Reporting	88,560.00
Total Payments	9,37,427.31
Balance Recoverable from Artemis Medicare Services Ltd.	1,37,927.31



BoscoNet


B-33, Street No.7, Dashrathpur | Palam - Dabri Road, New Delhi - 110 045
Tel: +91-11-25390585 | Mail Us : info@bosconet.in | Visit Us : www.bosconet.in

We are also attaching the audited utilization certificate for each quarter.

We request you to kindly transfer the balance amount to us as soon as possible.

Thank you very much for your constant support and collaboration.

With Regards


Fr. Noel Maddhichetty
Director, BoscoNet



BoscoNet

B-33, Street No.7, Dashrathpuri | Palam - Dabri Road, New Delhi - 110 045
Tel: +91-11-25390585 | Mail Us : info@bosconet.in | Visit Us : www.bosconet.in

J. A. Martins & Co.
Chartered Accountants

Artemis Medicare Services Ltd.
Artemis Hospital,
Sector 51, Gurgaon
Haryana - 122 001

UTILISATION CERTIFICATE

PROJECT NAME : Promoting Education among Marginalized Children of brick kilns and Catering to their nutritional requirement in Passour, Jhajjar, Haryana

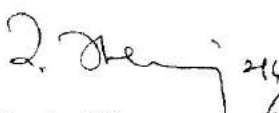
PROJECT HOLDER : BoscoNet

This is to certify that **BoscoNet** has received grant aggregating Rs. 275,000.00 (Rupees Two Lacs Seventy Five Thousand Only) from the **Artemis Medicare Services Ltd., Artemis Hospital, Gurgaon, Haryana** towards the project "**promoting education among marginalized children of brick kilns and catering to their nutritional requirement in Passour, Jhajjar, Haryana**".

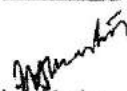
We have verified the books of accounts for the project and certify that as per the said books of accounts, information and explanations provided to us, the receipts and payments are the following for the period 16th October 2017 to 15th January 2018:

Particulars	Amount (Rs.)
Opening Balance	(2,683.31)
Receipts	
(i) Grant Received from Artemis Medicare Services Ltd.	275,000.00
4 th Installment received on 14.12.2017 Rs. 275,000.00	
Total	272,316.69
Payments	
Nutrition for Children	344,994.00
Stationery to be provided to Children	9,360.00
Teacher's Remuneration	33,750.00
Monitoring, Evaluation, Impact Assessment, Reporting	22,140.00
Total	410,244.00
Balance Recoverable	137,927.31

For BoscoNet


Place: New Delhi
Date: 13/02/18




J. A. Martins
M. No. 82051
Proprietor
J. A. Martins & Co.
Chartered Accountants
Firm Regn. No. 010860N

231 Vardhman Big "V" Plaza, Plot No. 12, Community Centre, Road No. 44, Pitampura, Delhi 110 034
Tel: 91 11 2701 8472; 2701 8473 Email: ngo223@yahoo.com

J. A. Martins & Co.
Chartered Accountants

Artemis Medicare Services Ltd.
Artemis Hospital,
Sector - 51, Gurgaon
Haryana - 122 001

UTILISATION CERTIFICATE

PROJECT NAME : Promoting Education among Marginalized Children of brick kilns and Catering to their nutritional requirement in Passour, Jhajjar, Haryana


PROJECT HOLDER : BoscoNet

This is to certify that BoscoNet has received grant aggregating Rs. 281,000.00 (Rupees Two Lacs Eighty One Thousand Only) from the Artemis Medicare Services Ltd., Artemis Hospital, Gurgaon, Haryana towards the project "promoting education among marginalized children of brick kilns and catering to their nutritional requirement in Passour, Jhajjar, Haryana".

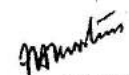
We have verified the books of accounts for the project and certify that as per the said books of accounts, information and explanations provided to us, the receipts and payments are the following for the period 16th July 2017 to 15th October 2017:

Particulars	Amount (Rs.)
Opening Balance	(179,227.00)
Receipts	
(i) Grant Received from Artemis Medicare Services Ltd.	281,000.00
- 2 nd Installment received on 26.07.2017 Rs. 131,000.00	
- 3 rd Installment received on 15.09.2017 Rs. 150,000.00	
Total	101,773.00
Payments	
Nutrition for Children	66,386.31
Stationery to be provided to Children	4,680.00
Teacher's Remuneration	11,250.00
Monitoring, Evaluation, Impact Assessment, Reporting	22,140.00
Total	104,456.31
Balance Recoverable	2,683.31

For BoscoNet


Place: New Delhi
Date: 2-11-17




J. A. Martins
M No. 82051
Proprietor
J. A. Martins & Co.
Chartered Accounts
Firm Regn. No. 010860N

231 Vardhman Big 'V' Plaza, Plot No. 12, Community Centre, Road No. 44, Pitampura, Delhi 110 034
Tel: 91 11 2701 8472; 2701 8473 Email: ngo223@yahoo.com

J. A. Martins & Co.
Chartered Accountants

Artemis Medicare Services Ltd.
Artemis Hospital,
Sector - 51, Gurgaon
Haryana - 122 001

UTILISATION CERTIFICATE

PROJECT NAME : Promoting Education among Marginalized Children of brick kilns and Catering to their nutritional requirement in Passour, Jhajjar, Haryana

PROJECT HOLDER : BoscoNet


This is to certify that **BoscoNet** has received grant aggregating Rs. Nil (Rupees Nil) from the **Artemis Medicare Services Ltd., Artemis Hospital, Gurgaon, Haryana** towards the project "promoting education among marginalized children of brick kilns and catering to their nutritional requirement in Passour, Jhajjar, Haryana".

We have verified the books of accounts for the project and certify that as per the said books of accounts, information and explanations provided to us, the receipts and payments are the following for the period 16th April 2017 to 15th July 2017:


Particulars	Amount (Rs.)
Opening Balance	39,525
Receipts	
(i) Grant Received from Artemis Medicare Services Ltd.	NIL
Total	39,525
Payments	
Nutrition for Children	116,272.00
Teacher's Remuneration	22,500.00
Stationery to be provided to Children	23,700.00
Purchased of teaching learning material	12,000.00
Monitoring, Evaluation, Impact Assessment, Reporting	44,280.00
Total	218,752.00
Balance Recoverable	179,227.00

Note: The Installment of Rs. 131,000.00 was received on 26th July, 2017.

For BoscoNet


Place: New Delhi
Date: 12/09/2017




J. A. Martins
M No 82051
Proprietor
J. A. Martins & Co.
Chartered Accountants
Firm Regn. No. 010860N

231 Vardhman Big 'V' Plaza, Plot No. 12, Community Centre, Road No. 44, Pitampura, Delhi 110 034
Tel: 91 11 2701 8472; 2701 8473 Email: ngo223@yahoo.com

J. A. Martins & Co.
Chartered Accountants

Artemis Medicare Services Ltd.
Artemis Hospital,
Sector - 51, Gurgaon
Haryana - 122 001

UTILISATION CERTIFICATE

PROJECT NAME : Promoting Education among Marginalized Children of brick kilns and Catering to their nutritional requirement in Passour, Jhajjar, Haryana

PROJECT HOLDER : BoscoNet

This is to certify that BoscoNet has received grant aggregating Rs. 243,500.00 (Rupees Two Lacs Forty Three Thousand Five Hundred Only) from the Artemis Medicare Services Ltd., Artemis Hospital, Gurgaon, Haryana towards the project "promoting education among marginalized children of brick kilns and catering to their nutritional requirement in Passour, Jhajjar, Haryana".

We have verified the books of accounts for the project and certify that as per the said books of accounts, information and explanations provided to us, the receipts and payments are the following for the period 16th January 2017 to 15th April 2017 :

Particulars	Amount (Rs.)
Opening Balance	Nil
Receipts	
(i) Grant Received from Artemis Medicare Services Ltd.	
- 1st Installment on 15.02.2017	243,500.00
Total	243,500.00
Payments	
Nutrition for Children	175,850.00
Teacher's Remuneration	28,125.00
Total	203,975.00
Balance in Hand	39,525.00


For BoscoNet



Place: New Delhi

Date: 9-5-17




J. A. Martins
M No. 82051
Proprietor
J. A. Martins & Co.
Chartered Accounts
Firm Regn. No. 010860N

231 Vardhman Big 'V' Plaza, Plot No. 12, Community Centre, Road No. 44, Pitampura, Delhi 110 034
Tel: 91 11 2701 8472; 2701 8473 Email: ngo223@yahoo.com

Memorandum of Understanding (MOU)

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M/s Artemis Medicare Services Limited, a company registered under the Companies Act, 1956, having its registered office at 414/1, 4th Floor, DDA Commercial Complex, District Centre, Janak Puri, New Delhi- 110058 and Corporate Office at Artemis Hospital, Sector-51, Gurgaon-122001 acting through its authorized signatory, Mr. Navneet Goel, Head-Legal & Company Secretary (hereinafter referred as “**ARTEMIS**”, which expression shall, unless it be repugnant to the context or meaning thereof, be deemed to mean and include its successors, nominees, affiliates, subsidiaries, and assigns) of the **FIRST PART**.

AND

SALAAM BAALAK TRUST, a Non-Government Organisation, having its office at 2nd Floor, DDA Community Centre, Gali Chandiwali, Paharganj, New Delhi - 110055, acting through its authorized signatory, Ms. Parvati Patni, Director (hereinafter referred as “**SBT**”, which expression shall, unless it be repugnant to the context or meaning thereof, be deemed to mean and include its successors, nominees, affiliates, subsidiaries, and assigns) of the **SECOND PART**;

(Both SBT and ARTEMIS are hereinafter referred to as such or individually as “The Party” and collectively as “The Parties”)

WHEREAS

1. **ARTEMIS** is a healthcare organisation and intends to undertake Corporate Social Responsibility under its CSR program titled as “Children at Risk” in a project mode which aims at promoting education including special education, employment enhancing vocation skills, livelihood enhancement projects, eradicating hunger, poverty and malnutrition, setting up of day care centre, and other similar facilities.
2. **SBT** is a Non-Government Organization and has represented that it is working for last 28 years to protect and nurture the dreams of street children in Delhi and NCR, SBT has touched over 72820 children in the geographical region of New Delhi and National Capital Region (NCR) and over 46000 children have been enrolled in various education programmes and SBT has represented **ARTEMIS** through its written proposal to carry out the CSR project of Artemis titled as “Children at Risk”.
3. **ARTEMIS** has agreed to contribute a sum of Rs. 16,26,000 (Rupees Sixteen Lakh Twenty Six Thousand Only) towards its aforesaid CSR Activity to be incurred in project mode by SBT for a group size of 55 rescued girl’s in a period of 12 months.
4. **ARTEMIS** and **SBT** are desirous of entering into MOU for execution of the aforesaid object.

For Artemis Medicare Services Ltd.

Authorized Signatory

2nd Floor, D.D.A. Community Center, Chandiwali Gali, Paharganj, New Delhi-110055,

+91-011-23589305, 23584164, 23586416, 23586437 | www.salaambaalaktrust.com | E-mail : contact@salaambaalaktrust.org

Utilization Certificate

This is to certify that Utilize Rs. 15,73,226/- out of sanction Rs. 16,26,000/- by Artemis Medicare Services Limited for the period 23rd January 2017 to 22nd January 2018 for title project "Providing safe shelter and building the skills of children at risk in Gurgaon", we have received Rs. 14,71,500/- and are yet to Receive the remaining Rs. 101,726/- as per our Books of Accounts during the period & audited utilization certificate and fund summary given below:

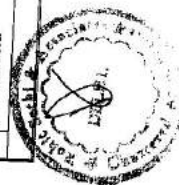
Fund Summary				
Received	Amount	Expenditure	Amount	Balance
Amount Received as on dt 16.02.2017	406,500	Amount utilized for the period from 23.01.2017 to 31.03.2017	352,998	53,502
		Amount utilized for the period from 01.04.2017 to 31.07.2017	437,782	(384,280)
Amount Received as on dt. 02.08.2017	340,000			
Amount Received as on dt. 14.09.2017	300,000	Amount utilized for the period from 01.08.2017 to 31.10.2017	458,642	(202,922)
Amount Received as on dt. 18.12.2017	425,000	Amount utilized for the period from 01.11.2017 to 22.01.2018	323,804	(101,726)
TOTAL	1,471,500		1,573,226	(101,726)

For Salaam Baalak Trust

Gopal
Gopal Chakraborty
17/03/2018
GOPAL CHAKRABORTY
CFO
SALAAM BAALAK TRUST

Utilization Certificate
FINANCIAL REPORT FOR THE PERIOD 23RD JANUARY 2017 TO 22ND JANUARY 2018
NGO Partner : Salim Badai Trust
Title of the Project : Artemis Midcare Services Limited
Project Period : 23rd January 2017 to 22nd January 2018
Grant Amount : 16,25,000
Grant Received : 14,71,500
Utilized Amount : 15,73,226
Balance Amount : 59,344

Detailed Program Budget (MP)													Expense Statement for 23.01.17 to 31.01.2018											
S.No	Budget Head	Description	Amount	Grand Total	23.01.17 to 31.01.17	01-02-17 to 28.02.17	01-03-17 to 31.03.17	01-04-17 to 30.04.17	01-05-17 to 31.05.17	01-06-17 to 30.06.17	01-07-17 to 31.07.17	01-08-17 to 30.08.17	01-09-17 to 31.09.17	01-10-17 to 30.10.17	01-11-17 to 31.11.17	01-12-17 to 31.12.17	01-01-18 to 31.01.18	Total	Balance					
1	English Course for 4 girls Jyoti Rani Roma and Yasmin	The English Guru- 3 months course Rs. 15,000/- per head	62,000	62,000																				
2	Vocational Training and skill building programme	V.L.C.C Training 2 children @ 50,000/- each	1,20,000	1,20,000			1,20,000										16,600	1,46,600	45,550					
		Advance beauty culture course- 1 girl Rs. 30,000/-	30,000	30,000																				
		Computer Training instructor @ Rs. 5000/- per month for 12 months	60,000	60,000																				
3	Salary		1,30,000	1,30,000																				
	a) Coordinator - 1 (part payment)	@Rs. 12,000/- per month x 12 months	1,44,000	1,44,000																				
	b) Teacher 2 (full time)	@Rs. 12,000/- each per month x 12 months	2,88,000	2,88,000																				
	c) Night Supervisor - 2 (part time)	@Rs. 6000/- each per month x 12 month	1,56,000	1,56,000																				
4	Counseling group session	50 children	50,000	50,000																				
5	Conveyance	Children & staff conveyance with fuel or vehicle related to project line item mentioned above.	80,000	80,000																				
6	Security Service (for safety of children)	@ Rs. 22,000/- per month	2,76,000	2,76,000																				
7	Shelter care & maintenance	Repair & maintenance of shelter, electricity etc. @Rs. 20,000/- per month (approx.)	2,40,000	2,40,000																				
8	Monitoring, evaluation, documentation and other administrative cost	Rs. 10,000/- per month	1,20,000	1,20,000																				
Total			16,25,000	16,25,000	44,311	80,500	2,19,167	84,273	1,15,696	1,26,589	1,07,722	1,33,621	1,74,302	1,49,319	1,23,455	1,07,259	87,046	15,73,236	52,774					



A-140, SECOND FLOOR, DEFENCE COLONY, NEW DELHI-110024 TELEPHONE: 011-41636329 Email: rohitsethi.associates@gmail.com

Fund Summary				
Received	Amount	Expenditure	Amount	Balance
Amount Received as on dt 16.02.2017	4,06,500	Amount utilized for the period from 23.01.2017 to 31.03.2017	3,52,998	53,502
		Amount utilized for the period from 01.04.2017 to 31.07.2017	4,37,782	(3,84,280)
Amount Received as on dt. 02.08.2017	3,40,000	Amount utilized for the period		
Amount Received as on dt. 14.09.2017	3,00,000	from 01.08.2017 to 31.10.2017	4,58,642	(2,02,922)
Amount Received as on dt. 18.12.2017	4,25,000	Amount utilized for the period from 01.11.2017 to 22.01.2018	3,23,804	(1,01,726)
TOTAL	14,71,500		15,73,226	(1,01,726)

Place: New Delhi
Date: 17/02/2018



As Per Books of Accounts Presented Before Us

For ROHIT SETHI & ASSOCIATES

[Signature]
DIVYA GUJRAL
(Partner)
M. No. - 501026

A-140, SECOND FLOOR, DEFENCE COLONY, NEW DELHI-110024 TELEPHONE : 011-41836329 Email : rohitsethi.associates@gmail.com



उत्तर प्रदेश UTTAR PRADESH

DS 794835

Memorandum of Understanding (MOU)

This Memorandum of Understanding (hereinafter referred to as "MOU") entered on 01.12.2017 by and between:

Artemis Health Sciences Foundation, a society registered under Haryana Registration and Regulation of Societies Act, 2012 having its registered office at Artemis Hospital, sector-51, Gurugram-122001 having Registration No. HR018201300819 represented through its authorized signatory Mr. Navneet Goel, Member (hereinafter referred to as "AHSF" which expression unless repugnant to the context shall mean and include its representatives successors and permitted assigns, as the context permits) of the **FIRST PART**;

AND

Hindustan Latex Family Planning and Promotion, a Trust registered under the Travancore-Cochin Literary, Scientific and Charitable Societies Registration Act, 1955, having its office at B-14/A, 2nd Floor, Sector-62, Gautam Buddha Nagar, Noida, Uttar Pradesh, acting through its authorized signatory, Mr. Sharad Agarwal, CEO (hereinafter referred to as "HLPPT", which expression unless repugnant to context shall mean and include its representatives successors and permitted assigns, as the context permits) of the **SECOND PART**;

(Both AHSF and HLPPT are hereinafter referred to as such or individually as "The Party" and collectively as "The Parties")

Hindustan Latex Family Planning promotion Trust
Project Budget: Artemis Foundation-Swasth Caon-Ek Pahal
Audited Statement of Expenditures
from 01.12.2017 to 28.02.2018

Cost Elements	Nos.	Monthly days	Unit Cost (Rs)	Total Cost (Rs)	Activity Q1	Budget for Q1 (Dec-Feb)	Expense for			Total Expenses upto Feb-18	Variance in Q1
							Dec17	Jan.18	Feb.18		
Human Resource											
A1) Project Coordinator	1	12	35,000	420,000	3	105,000	-	33,673	33,673	67,346	37,654
A2) Health Promoter	3	12	12,000	42,000	3	108,000	-	6,876	33,000	39,876	68,124
A3) Admin-cum-Accounts Officer (Time Cost)	1	48	3,500	1,68,000	12	42,000	14,000	14,000	14,000	42,000	-
Activity & Monitoring Cost											
B1) Improvement of physical ambience and provision of reading and learning material in Anganwadi Centres				250,000		250,000	14,000	54,549	90,673	149,222	105,778
B2) Observation of Early Childhood Care and Education (ECCE) Day at AWCs	3	1	9,700	29,100			-	-	-	-	-
B3) Cultural day at AWCs	4	1	12,250	49,000	1	12,250	-	7,264	-	7,264	4,986
B4) Swasth Swagat Events	4	1	12,250	49,000	1	12,250	-	11,947	-	11,947	303
B5) Anganwadi Event	4	1	12,250	49,000	1	12,250	-	9,307	-	9,307	2,743
B6) Healthy Baby Shows	4	1	12,250	49,000	1	12,250	-	12,231	-	12,231	19
B7) Nutritious Food Festival	4	1	10,000	40,000	1	10,000	-	-	-	-	-
B8) Training and Awareness session for the women in the community on Self Breast examination	1	2	7,500	15,000			-	-	-	-	-
B9) Care Mother training and capacity building workshop	1			15,000			-	-	-	-	-
B10) Care Mother kits for Health Workers (for 200 pregnant women)	200		1,250	250,000			-	-	-	-	-
B11) Pre-School Education (PSE) & Behaviour Change Communications (BCC)	1	1	16,000	16,000			-	-	-	-	-
B12) Training Programme for AWCs and other Frontline Health Monitoring Services	1	1	16,000	16,000			-	-	-	-	-
B13) Sensitization Programme on Immunization, Health check-up and Referral Services for AWCs and FLHVs	1	1	16,000	16,000			-	-	-	-	-
B14) Training workshop on MCH & Adolescent Health Services for AWCs and FLHVs	1	1	21,000	21,000			-	-	-	-	-
B15) Training workshop on BCC and counseling for AWCs and FLHVs	1	1	16,000	16,000			-	-	-	-	-
B16) AWCs Training Workshop on Event Management & Resource Mobilization for AWCs and FLHVs	1	1	16,000	16,000			-	-	-	-	-
B17) Training on WASH for AWCs and FLHVs	1	1	16,000	16,000			-	-	-	-	-
B18) Education & Mental Well Being (for class VI onwards, boys and girls)	2	1	18,500	37,000	1	18,500	-	-	-	-	-
B19) Building Interpersonal Relationship Skills and Social Capital (for class VI onwards, boys and girls)	2	1	18,500	37,000			-	-	-	-	-
B20) Session on Reproductive & Sexual Health (for class VI onwards, boys and girls)	2	1	18,500	37,000			-	-	-	-	-
				37,000			-	-	-	-	-


 Virendra Vyas & Co.
 Chartered Accountants
 No. 005833A
 Dated: 28.02.2018

For Hindustan Latex Family Planning Promotion Trust

 Deepak Bhatnagar
 (Manager-Finance)


 Sushrta Das Pattnaik
 (Manager Operations-CSR)

[illegible]



"घर से घर तक"
(निःशुल्क अनाथ आश्रम, वृद्ध आश्रम, नारी आश्रम)

देवो संस्था D.A.V.O. N.G.O. (रजि. नं. 63697)

80G/2AA

आश्रम स्थान : चौक-दातीली से चिरन्नी रोड, तहसील-गन्नौर, जिला-सोनीपत (हरियाणा)
सम्पर्क : 9910200632, 9213605463, 011-28522673, Email : davosanstha@gmail.com, website : www.davongo.org

Memorandum of Understanding

This Memorandum of Understanding (hereinafter referred to as "MOU") entered on this 25th March, 2018 by and between:

M/s Artemis Medicare Services Limited, a company registered under the Companies Act, 1956, having its registered office at Plot No. 14, Sector-20, Dwarka, New Delhi - 110075 and Corporate Office at Artemis Hospital, Sector-51, Gurugram - 122001 acting through its authorized signatory, Mr. Navneet Goel, Head - Legal & Company Secretary (hereinafter referred as "ARTEMIS", which expression shall, unless it be repugnant to the context or meaning thereof, be deemed to mean and include its successors, nominees, affiliates, subsidiaries, and assigns) of the **FIRST PART**.

AND

Dev Animal Voluntary Organization, a not for profit, Non-Government Organisation (NGO), having its office at RZ-25/1313, Gali no.3/9, Main Sagarpur, New Delhi - 110046, acting through its authorized signatory, Mr. Dev Dass Goswami, Gen Secretary (hereinafter referred as "DAVO", which expression shall, unless it be repugnant to the context or meaning thereof, be deemed to mean and include its successors, nominees, affiliates, subsidiaries, and assigns) of the **SECOND PART**;

(Both DAVO and ARTEMIS are hereinafter referred to as such or individually as "the Party" and collectively as "the Parties".)

WHEREAS:

1. ARTEMIS is a healthcare organisation and intends to undertake Corporate Social Responsibility under its CSR program titled as "Enable Elderly" in a project mode which aims at promoting education including special education, employment enhancing vocation skills, livelihood enhancement projects, eradicating hunger, poverty and malnutrition, setting up of day care centre, and other similar facilities in Delhi & Haryana.
2. DAVO is a not for profit NGO and has been working for the underprivileged elderly focusing on shelter, care, food and medical needs. DAVO is in process of setting-up old age home at Datoli Village, Chirani Road, Gannour, Sonapat, Haryana - 131101 (hereinafter referred to as "Old Age Home"). DAVO has approached ARTEMIS requesting financial contribution towards setting-up aforesaid Old Age Home by DAVO.
3. ARTEMIS under its CSR program titled "Enable Elderly" has agreed to contribute to DAVO towards setting-up Old Age Home by construction of toilets in the said Old Age Home.
4. ARTEMIS and DAVO are desirous of entering into MOU for execution of the aforesaid object.



Dev Animal Voluntary Organization (DAVO) (Regd.)

Dev Dass Goswami
Gen. Secretary

**Y Sharma & Associates.**

Chartered Accountants
Add: 1507, Janta Flats, IInd Floor
GTB Enclave, Delhi-110093.

Ph: 9911464236

E Mail: ysharmaandassociates@gmail.com

Artemis Medicare Services Limited.

Artemis Hospital, Sector-51,

Gurugram, Haryana- 122001

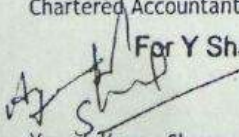
UTILISATION CERTIFICATEProject Name- Construction of Toilets and other Necessary things for old age at Sonipat Location.Project Owner- Dev Animal Voluntary Organization (D.A.V.O.)

This is to certify that D.A.V.O. has received a grant amounting to Rs. 2,40,000 (Two Lac Forty Thousand) from Artemis Medicare Service Limited vide cheque no "064926 Yes Bank Limited" dated on 29/03/2018 towards the above mentioned Project Name.

We have verified the Books of Account for the project and certify that as per the said books of accounts, information and explanations given to us, the receipt and the Payments are the following for the period from 01/04/2018 to 20/04/2018.

Particulars	Amount (Rs)
Opening Balance	NIL
Receipt	
1. First Installments 29.03.2018	2,40,000
Total Receipts (A)	2,40,000
Payments	
1. Towards Material like, Cement, Reta, Dust, Tiles, Tin Shed, Sanitary Item, electricity item, paints.	2,12,400
2. Labour charges towards above activity.	27,600
Total Payments (B)	2,40,000
Balance Left	NIL
Work Complete	Work In Progress

For Y Sharma & Associates
Chartered Accountant

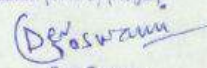

Yogesh Kumar Sharma
M. No 535405

For Y Sharma And Associates

Proprietor

For Dev Animal Voluntary Organization

Dev Animal Voluntary Organization (DAVO) (Regd.)


Devdass Goswami
Gen.Secretary

Gen.Secretary

Energy Audit Report

Client

ARTEMIS HOSPITALS

Sector 51,
Gurgaon, Haryana

Contact Persons:

Mr. Joginderpal Singh, Manager
Mr. Deepkumar

Energy Auditors

 **Acclaim Technology Services**
India Private Limited

C-8, Shanthi Apartments, No. 18 (Old No. 21) TTK Road 1st Cross
Alwarpet, Chennai - 600 018. Phone : 044 - 6515 5544, 2433 8183

Email: acclaim.technology@gmail.com

Web : www.acclaimcleanenergy.com

Represented by

R. Ilango
P. Elumalai
Divakaran K

Period of Audit

Nov 26 to Dec 2, 2013

Over View

Artemis Hospitals is a multi specialty hospital, situated in Gurgaon, Haryana in the National Capital Region. Artemis Hospital is the first JCI and NABH Accredited hospital in Gurgaon, spread over 9 acres of land and came to the existence at the initiative of the Apollo Group, leading manufacturers of Tyres in India. *Artemis Hospitals* is one of the most advanced hospitals, of this type, in the country. *Artemis Hospitals* provides in-depth expertise over a spectrum of health care services and clinical and surgical intervention. *Artemis Hospitals* is well equipped with modern medical and surgical facilities and the practices followed by the Medical practitioners is research oriented and of world class. The hospital has 300 Bed for in- patient treatment and provides out- patient services too.

Artemis Hospitals is an Energy intensive consumer and the annual Electricity Bill is beyond Rs.100 million. *Artemis Hospitals* draws power supplied by the Grid and through stand-by diesel generator sets. In the year 2012, 90% of the power supply was from the grid and the balance from stand-by Diesel Generator. More than 60% of the power is used by the HVAC system. For providing round the clock air conditioning, *Artemis Hospitals* has installed 3 x 350 TR Chiller unit and 2 x3 00 kW electrically operated hot water generator. The hospital is having a 1 x 100 KW hot water generator for plumbing water supply. The balance Electrical power load caters to Lighting, Medical Gas Plant, Kitchen, water pumping, water treatment plant and fire fighting system.

M/s. Acclaim Technology Services India Private Limited conducted an Energy Audit of *Artemis Hospitals* from 26 Nov 2013 to 2 Dec, 2013 led by its Certified Energy Auditor Er. Ilango and team.

The Operating data were analysed by Energy Audit Team and the pattern of Energy consumption was studied with specific purpose to suggest Savings by improving operating procedures and efficient coefficient of systems. It was observed during the Energy Audit that there is considerable scope for Energy Saving mainly in the HVAC system, the details of which are more fully described elsewhere in this report.

The observations of our Energy Audit and summary of the Report with proposals to be implemented will give the scope of cost saving potential in the project in terms of Energy. This report provides all the relevant data regarding the Energy consumption pattern in the Hospital, the facilities data and the Energy saving proposals.

The essence of the Energy Audit lies in the follow up and Energy Efficient Management suggested by the Energy Audit Team who have made a detailed study of the present systems and usage and made their professional recommendations. Energy Saved is thrice energy generated and profit without effort. Energy saved is Energy Generated and translated into cost benefit and operating profit to *Artemis Hospitals*.

We wish to thank the Management for giving us an opportunity to be of service to *Artemis Hospitals* and Maintenance team who worked with us closely providing data to make this Energy Audit possible and prepare this report.

The success of the Audit is complete only if the observations are studied in details by the Hospital Administration and methods to conserve energy is implemented.

M/s. Acclaim Technology Services India Private Limited assures *Artemis Hospitals* of their full support and co-operation in post Audit support including go-green initiatives that the Hospital may be willing to take up under CSR activity.



Energy & Utility details

No of Beds	300	
Built Up Area	2477	Sq Mtr
Total Connected Electrical Load	3200	KVA
Stand By power Generation	2 x 1500 KVA	Diesel Generator
Water supply	400	KL/Day
Hot water supply	70	kl/day
HVAC Cooling	3x350 TR	Clivet Chillers
HVAC Heating	2x300 kW	Electrical Hot water Boiler
Air Compressor	45.5 kW	Kirloskar Cummins, 9 kg/cm ² pr. 5m ³ FAD, 2 kl receiver
Vacuum Pump	2 x 7.5 kW	-500 to 600 Water column
Window & Split AC	98	TR
Medical Equipment, Computer and others Power	65	kW
Energy Consumption Year-2012	14.635	Million kWh
Electrical Power Rate	Rs 6.60	Per unit
Power Cost Year-2012	Rs.96.594	(In Million)
Power Consumption/Bed	0.49	M kWh/Bed
Power Consumption/m ² area	5,909.00	kWh/m ²

Summary of recommendations

S. No	Description	Investment (INR)	Saving (INR/annum)	Pay Back Period
1	Installing additional 2000 L air receiver and modifying the power circuit to switch off the compressor motor during unloading	0.15M	0.24 M	7 Months
2	Provide a 250 m ³ Chilled water storage tank in the HVAC water supply circuit and use the Chiller at the full load in the night time to store chilled water and use the storage in day time	5M	2.7 M	23 Months
3	Providing BMS for HVAC System with advanced control system to operate the plant efficiently	8M	6 M	16 Months
4	Provide Biomass/briquette fired Hot water Boiler for the HVAC /Plumbing water supply system .Operate the Briq. boiler instead of the present Electrically operated Boilers	4M	4 M	12 Months
TOTAL		17.15 M	12.94 M	16 months

Electricity Consumption Pattern:

Artemis Hospitals is a very high Energy consuming unit.

The following is the power consumed for the 12 month period ending Oct-2013.

Electrical Power consumption details Month Wise		
Month	Board Meter Reading	HVAC
Nov-12	7,03,080.00	2,88,500.00
Dec-12	6,50,000.00	2,69,820.00
Jan-13	7,13,480.00	2,82,620.00
Feb-13	6,07,240.00	2,16,480.00
Mar-13	7,83,920.00	3,43,770.00
Apr-13	8,74,560.00	4,27,810.00
May-13	9,96,440.00	5,14,390.00
Jun-13	10,55,880.00	6,46,700.00
Jul-13	12,39,880.00	6,76,860.00
Aug-13	12,29,192.00	6,28,980.00
Sep-13	12,21,440.00	6,15,070.00
Oct-13	11,59,120.00	5,74,610.00
Total	1,12,34,232.00	54,85,610.00*

* The HVAC load is 48.83% of total load

Summary

Power consumed by HAVC Hot water Boiler	:	360,000 kWh (3.20%)
Power Consumed by HAVC System	:	5,485,610 kWh
Power Consumed by AHU system	:	1,170,161 kWh
Total Power consumption for HVAC	:	7,015,771 kWh
Percentage of power consumption by AC	:	62.4%

The percentages of Power Consumption in various areas are as below:

1. a) HAVC System	:	48.83%
b) Heating (Hot Water Boiler)	:	3.20%
2. Medical Gas Plant	:	3.0%
3. Plumbing Water Supply	:	3.6 %
4. Water Treatment Plant	:	4.0%
5. Lighting	:	8.0%
6. Raw water Pumping	:	4.0%
7. Window Coil Unit	:	9.0%
8. Others(Split & Window A.C) medical equipments	:	16.4%

The above data indicates that there exists a major Energy saving potential in the HVAC system.

From the Energy Audit the following observations and conclusions were arrived:

1. The water treatment plant consists of small size motors and they are provided with efficient ones.

The potential for energy saving is minimal

2. The plumbing water system is run by electrically operated hot water boilers adding significant cost to the Energy Bill.

Installing a Briquette fired HWB will give considerable Energy Saving.

3. Overall load of the Medical Gas Plant compressor is very low and there is Energy saving potential.

Considerable Energy can be saved if the Compressor Loading Time is increased by providing additional Pressure tank of 2,000 Ltr Capacity and the compressor motor is switched off during the unloading time (this can be automated).

4. HVAC system potential Energy saving areas are:

- a. The hospital site location is having a wide monthly Temperature variation.

*There is a temperature gradient of 12°C between day and night temperatures. The Chilled water system can be provided with storage tank of 250 M³ capacity and the tank can be stored with chilled water at around 10°C by operating the Chillers on full load during night time. Since the ambient temperature at the night time is very low, the compressors shall consume less electric energy compared to day time. The chilled water stored in the night time can be used in the day time saving considerable energy. **The process can be reversed in winter by storing hot water generated by the Hot Water Boiler in the day time.***

Average Temperature Record in Gurgaon City

Month	Max, °C	Min, °C	Delta T, °C
Jan	21.10	7.30	13.80
Feb	24.20	10.10	14.10
Mar	30.00	15.40	14.60
April	36.20	21.50	14.70
May	39.60	25.90	13.70
Jun	39.30	28.30	11.00
Jul	35.10	26.60	8.50
Aug	33.30	25.90	7.40
Sep	33.90	24.40	8.50
Oct	32.90	19.50	13.40
Nov	28.30	12.80	15.50
Dec	23.00	8.20	14.80

- b. The HVAC hot water supply during winter and as when required, is supplied by electrically operated hot water Boiler system. The system is having two Electrical hot water Boilers of capacity 300 kW each. These boilers are running at near full load (2x300 kW) during winter season (4 months mid-Oct to mid-Feb) and at less load (100-200 kW) during other seasons.

If the plant is provided with Biomass fired Hot water Boiler of capacity 0.6 MKCAL/Hr and operated for Hot water supply as well for the plumbing water supply, electrical energy and power demand can be reduced significantly leading to good savings.

- c. The HVAC system is currently manually controlled. The Building Management System supplied by M/s. SIEMENS is not in use.

An efficient and reliable Auto Control switch linked to an advanced Building Management system with additional Control features that can:

- i) Switching ON/OFF the Chiller, compressors and condenser cooling pumps as per an optimization program. The program will be designed such a way that it will operate the Chiller plant to match the capacity and maintaining the temperature and pressure limits of Chilled water and the condenser cooling water.*
- ii) At present only the AHUs for the OT are provided with VFD control and automatic Chilled water flow control.*



DETAILS OF ENERGY SAVING PROPOSALS:

Proposal : 1

MEDICAL GAS PLANT

Switching off Compressor motor during unloading time

COMPRESSOR DETAILS

Compressor Make	Kirloskar Cummins
No of Compressors (One stand by)	2.0
Model	2005
Bore (in mm)	215.9
RPM	525
Stroke, mm	190.5
Design Pressure	9 kg/cm ³
Free Air Delivery (m ³ /min)	5(200 CFM)
Compressor Motor Frame	Sc 225 M
Motor output kW	45
Speed, RPM	1475
Voltage	415 V 3Ph
Amperes (A)	75
Connection	DELTA
Maximum operating Pressure, kg/cm ²	7.4
Loading -Unloading Band, kg/cm ²	0.7
Loading/Unloading Time at Maximum Load	22 sec/22 sec
Loading/Unloading Time at Minimum Load	33 sec/165 sec
Average Loading time /Unloading time	22 sec/44 sec
No of operating hours/day	22
No of operating days/year	365
Motor current at Loading Time (A)	62
Motor current at Unloading Time (A)	25
Power Factor Loading Time	0.83
Power Factor at Unloading Time	0.345

The Medical Gas Plant of **Artemis Hospitals** is having two compressor of 45.0 kW motor capacity each. At a time only one compressor is operating and the second compressor is in stand-by. The customer operates the compressor alternatively switching of one compressor and switching on the second compressor. There is vast difference between the loading and unloading time of the compressor.

The Energy Audit reveals that implementing of the following option would result in significant saving.

- i) To install an additional 2,000 Ltr Air receiver and connect the same to the existing reservoir.*
- ii) To modify the Electrical circuit such that the motor of compressor is off during the unloading time. Since the receiver capacity is 4000 L, the frequency of switching on and switching off of the compressor will be considerably reduced protecting the electrical system.*



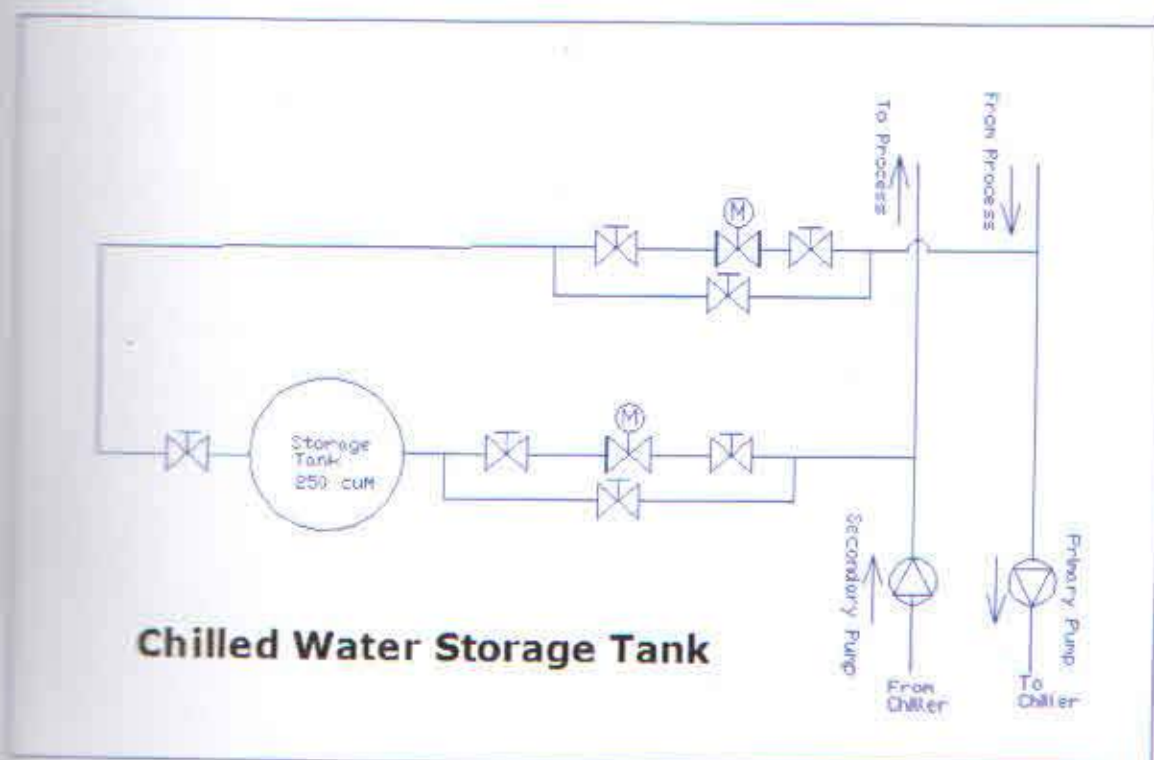
Compressor Calculation

Description	Unit	Symbol	Value
Rated Power Consumption of the Compressor	kW	W	45.00
Design Out let Pressure	kg/cm ² -a	P _m	10.00
Operating Pressure	kg/cm ² -a	P ₁	7.00
Electrical Current Drawn during Loading	Amps	I	62.00
Power Factor	Numerical	PF	0.83
Line Volatge-3 Ph	V	V	412.00
Power Drawn per hour	KW hr	P _L	36,721.03
Electrical Current Drawn during unloading	A	I	30.00
Power Factor	Numerical	PF	0.34
Line Volatge-3 Ph	V	V	412.00
Electrical Power during unloading	kw	P _u	7.3
Average Loading Time	sec	t _l	22.00
Average Unloading Time	sec	t _u	92.00
Unloading Time	hr/hr	tR	0.60
Energy Consumption during Unloading Time	kWHr/Hr		7.3
No of operating hours in a day			24.00
Power saved in a day (23 Working Hour)	kWH/day		100.00
Power cost	Rs/kWH		6.60
Annual saving	Rs/Year		2,40,000.00
Implementation Cost			
Installing an additional Receiver tank of 2,000 Litre Capacity	Rs		80,000.00
Erection and commissioning work	Rs		50,000.00
Total implementation cost	Rs		1,30,000.00
Pay Pack period	months		7.0

Proposal : 2

Providing 250 m³ Chilled water storage tank and generate Chilled water in the night and utilize the same during the day to use the system efficiently and save Energy.

The ambient temperature at the site has a wide variation between day and night temperature. As per the annual data, the yearly average day temperature during day-time is 30°C and for the night-time, it is 18°C. The HVAC plant operates with a chilled water temperature of 10-13°C. Due to the low ambient temperature, during night time the condenser cooling water temperature will be low and hence to get the same refrigeration effect as during the day time, it is required to run the Chiller comparatively at low loads. The chilled water can be generated during the night thereby consuming less energy and stored in insulated tanks for use during day-time. This will increase the system efficiency and save Energy. It is advisable to install a 250 m³ tank storage tank in the system as per the sketch below and save Energy.



Energy Saving by installing Chilled Water Storage System in HVAC circuit

Description	Unit	Symbol	Value
Average Ambient Temperature in the night time	°C	T_n	18.00
Average Ambient Temperature in the Day time	°C	T_d	33.00
Chiller water temperature	°C	T_c	10.00
Storage Tank capacity	Q	m^3	250.00
Refrigerant Effect in the night time considering 5% insulation loss	TR	$TR_N = 1.05 \times 1000Q(T_n - T_c)/3024$	695.00
Refrigerant Effect in the day time considering 8% insulation loss	TR	$TR_D = 1.1 \times 1000Q(T_D - T_c)/3024$	2,091.00
kwh/TR the Chiller considered		kW/TR	0.80
Energy Saving by installation chilled water storage system in HVAC circuit	TR	$E_s = (TR_D - TR_N)$	1,396.00
Equivalent Electrical Power	kWh/day	E	1,111.70
Electrical Power cost	Rs/kWh	C	6.60
Savings achievable in day	Rs	$C_1 = (C * E)$	7,370.00
Annual saving (300 days)	Rs	C1	22,11,000.00
Implementation Cost	Rs	C2	50,00,000.00
Simple Payback Period	Month		27

Proposal : 3

Providing a BMS system with advanced controls to operate and energy tracking of HVAC system and save Energy.

The present HVAC system is provided with the following Controls:

1. The AHU's in the OT section have VFD control for the Fan motor and automatic control valves for the hot and cold water supply. The system is also provided with a regenerative heat recovery wheel that utilizes the high change over air volume to produce cooling effect. These sections are operated by BMS from remote. The existing BMS for other sections are not operating due to hardware problem and non-support from the Supplier. A Custom Designed BMS for the hospital will cost less and have better control of the system resulting in considerable operating efficiency and cost savings.
2. The Twin screw gas compressors of the Chillers are provided with step control 25%, 50%, 75% and 100% Loads. This is found to be adequate.
3. The Secondary water pumps are provided with VFD controls for the motors and the VFD is operated through a feedback loop fed from the HVAC supply line pressure signal. The Motors RPM is controlled such that the circuit pressure is maintained constant during the load changing. This is adequate for secondary pump control.
4. The operation of the Secondary water pumps are controlled by Controller to sequencing the running of the Secondary water pump automatically as and when required based on the load. This is found to be adequate.

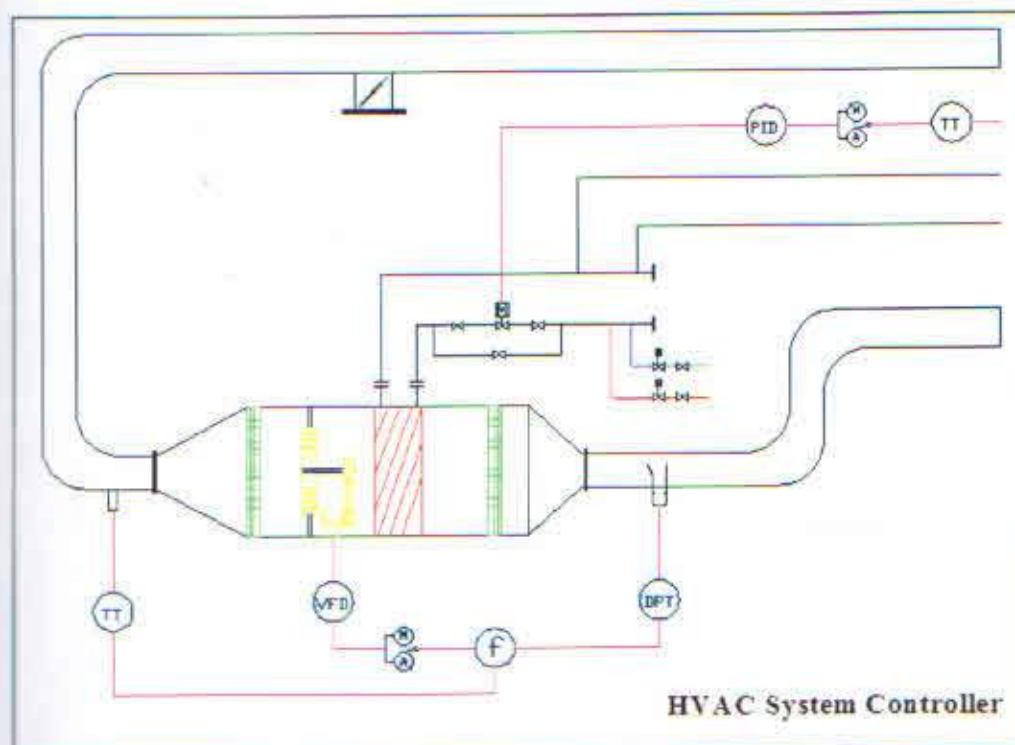
5. Currently the compressors are controlled manually depending on the load requirements without considering operating efficiency of the compressor/chiller.
6. The condenser pumps, which are not provided with VFD drives are being operated without any consideration of compressor operation. It is being run at times even when chillers are not running.

The Energy Auditor recommends a BMS system for the HVAC system with the following advanced control features:

- 1. As provided in the OT all the AHUs should be provided with VFD control for the fan speed to operate the fan at required flow. The required flow can be decided by the ambient temperature, controlled space temperature and the occupancy at a given time. Custom Designed BMS exclusively for this area will be cost effective and better maintained.*
- 2. Similarly as provided in the OT the chilled and hot water flow should be controlled by a proportional control valve controlled by a feedback signal based on the cold air outlet temperature and controlled space temperature.*
- 3. The Control should have control algorithm to route the Compressors of the three chillers in an optimum way based on load tracking vis a vis the compressor operating efficiency in order to optimize energy consumption.*
- 4. The condenser pumps should be provided with VFD drives. The BMS should provide routines to operate VFD controlled Condenser pumps to control the condenser water flow rate only to required optimal flow rates.*

5. The BMS shall be provided with Data Base routine to generate MIS and performance charts and graphs which is not being currently done.

If the HVAC System is operated and controlled optimally from remote in coordination with CCTV system considerable energy can be save. The Energy Auditor recommends this proposal which shall save around 15% Electrical Energy.



Energy Saving by implementing BMS system for the HVAC, Split up for Different areas

DESCRIPTION	Unit	Symbol	Value
Annual Electrical Power Consumption of the AHU	KW hr	P_1	11,70,161.00
Saving achievable	%	r	25.00
Electrical Power saved	kwhr/year	$P_{S1} = P_1 \cdot r/100$	2,92,540.30
Motor capacity of Condenser pump	kW		30.00
Average running load of Each Condenser Pumps	kW		25.00
No of Pumps running at a time	kW		2.00
Power consumption /day	kW hr		1,200.00
No of operating days in a year			325.00
Annual power consumption of condenser pumps	kW hr		3,90,000.00
Power saving potential in condenser pump	%		15.00
Power saving potential in condenser pump	kW hr/Year		58,500.00
Chiller compressors Motor Max Load	kW		247
No of Compressor			2
Average Load on the compressors for three Chillers	kW		235.00
No of units consumed in a day	kW hr/Day		5,640.00
No of operating days/Year			325
Power consumed by the Chiller compressor	kW hr/Year		18,33,000.00
Power Saving potential	%		15.00
Power Saving potential	KW hr/Year		2,74,950.00
Secondary water pump rating	kW		37.00
No of Secondary water pump running on average			2.00
Average Load on Secondary water pumps	kW		55.00
Average power consumption in a day	kW hr		1,320.00
No of operating days in an year			325.00
Power consumed in an year	kW hr		4,29,000.00
Power saving potential	%		5.00
Power saved potential	kW hr/year		21,450.00

DESCRIPTION	Unit	Symbol	Value
Primary water pump rating	kW		11.00
No of Primary water water pump running at a time			2.00
Average Load on Primary water pumps	kW		22.00
Average power consumption in a day	kWhr		528.00
No of operating days in an year			325.00
Power consumed in an year	kWhr		1,71,600.00
Power saving potential	%		Nil
Power saved potential	kWhr/year		Nil
Plant hot water pump rating	kW		11.00
No of hot water water pump running on average			2.00
Average Load on hot water pumps	kW		16.00
Average power consumption in a day	kWhr		384.00
No of operating days in an year			325.00
No of power consumed in an year	kWhr		1,24,800.00
Power saving potential	%		5.00
Power saved potential	kWhr/year		6,2400.00
Total Electrical Power Consumption	kWhr		41,18,561.00
Power Saving potential	kWhr		6,53,680.00
Power Saving potential	%		15.87

HVAC Saving Calculation

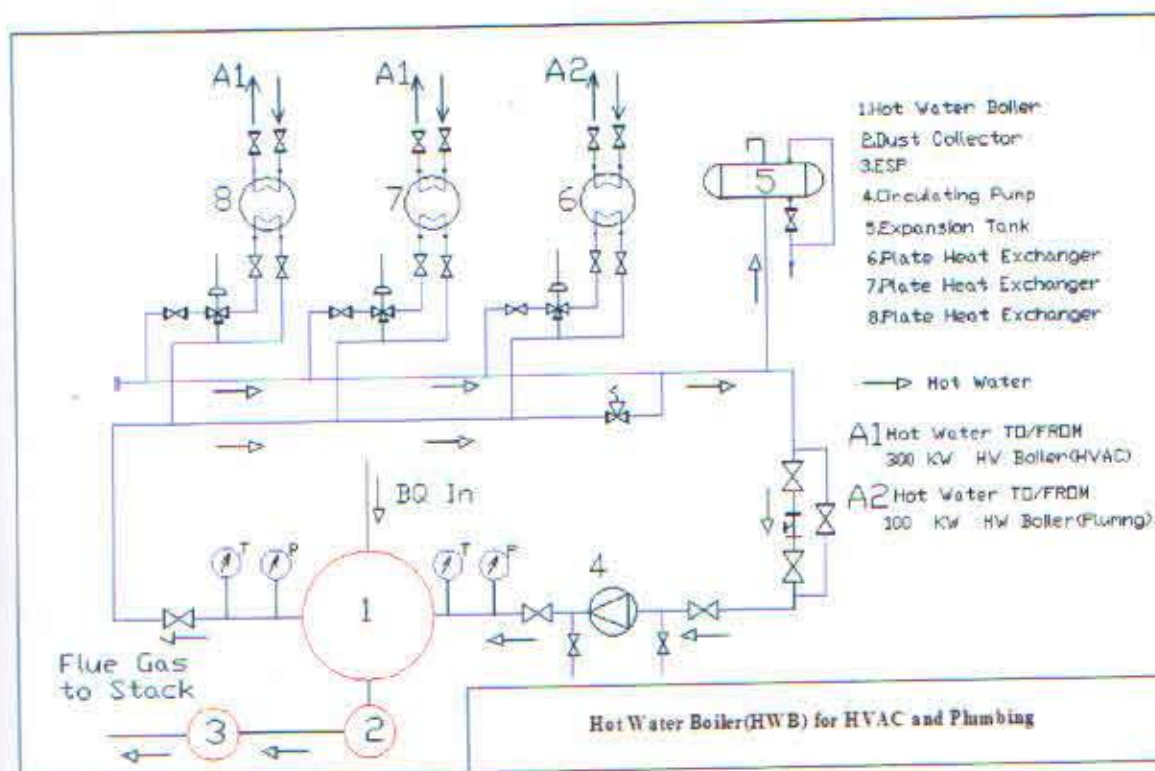
Description	Unit	Value
Annual Power Consumption	kWh	41,00,000.00
Power Cost	Rs/kW	6.6
Savings Achievable	%	15
Power Saving/Year	INR	40,59,000.00
Project Implementation Cost	INR	60,00,000.00
Simple Pay Back Period	months	18.00

PROPOSAL : 4

Installing a Biomass Hot Water Boiler (HWB) for HVAC and Plumbing water supply. The Present Electrically operated Hot Water Boilers(HWB) will be on stand by.

At present the customer are using electrically fired hot water boiler for the HVAC and plumbing system supply. There are 2x300 KW HWB for HVAC and 1x100 KW HWB for the Plumbing water supply. The load on the HWB boilers is max 600 KW during winter and a minimum load of 100 kW. The yearly average load is estimated to be 150 kW. This system is consuming high Electrical Energy. The Energy auditor recommends a Biomass fired boiler and save considerable Energy. The fuel required is available locally (Biomass/Briquettes) and the boiler can be provided with air pollution control to limit the flue gas emission within the limits set by the NCR authority.

Please refer the sketch below for the details of the System.



Energy Saving Calculation by installing and operating Biomass fired Boiler

Energy cost of running Electrically fired Hot Water System

Description	Unit	Symbol	Value
No of Electrical Hot Water Boilers HVAC		N ₁	2.00
Heat Capacity	kW	H ₁	300.00
No of plumbing Hot water Boilers		N ₂	1.00
Heat output	kW	H ₂	100.00
Average Heat Load on the HVAC heater	kW	H ₃	125.00
No of hours in operation	Hour	T ₁	24.00
Energy Consumed/Day	Kwhr	H ₄	3,000.00
Average Consumption of Plumbing hot water	kL/day	Q ₁	70.00
Average Ambient Temperature	°C	t ₁	25.00
Plumbing Hot water Temperature	°C	t ₂	45.00
Heat consumed /Day	KWHR	H ₅	1,627.53
Total Energy Consumed/Day	KWHR	H ₆	4,627.53
Thermal Efficiency of Electrical Hot water boiler system		e ₁	0.98
Electrical power consumption/Day	KWHR	H ₅	4,721.97
Electrical power Cost	RS/Kwhr	c ₁	6.60
Electrical power cost/day	Rs/Day	c ₂	31,164.99
Annual power cost on account of Hot water Boilers	Rs	c ₃	1,13,75,220.52

Cost of operating a Briquette fired hot water system

Description	Unit	Symbol	Value
Electrical Power consumption on account of Electrical fired hot water system	Kwhr/day	H5	4,721.97
Equivalent Heat Load	kcal/Hr	H6	40,61,836.73
Calorific value of BQT	kcal/kg	GCV	3,500.00
Thermal Efficiency of the BQT fired Hot Water Boiler		e2	0.75
BQT Fuel consumption in a day	kg/day	M1	1,547.37
Briquette Cost	Rs/kg	C4	6.60
Daily Briquette cost	Rs/Day	C5	10,212.62
Additional Electrical power consumption (LS)	Kwhr/day	H7	720.00
Electrical Power cost	Rs/KWHR	H8	6.60
Daily Electrical Power Cost	Rs/Day	C6	4,752.00
Total Energy Cost (c3+c4)	Rs/Day	C7	14,964.62
Operator Cost (LS – 3 Shift)	Rs/Day	C8	1,500.00
Total Cost	Rs/Day	C9	16,464.62
Maintenance Cost	Rs/Year	C10	1,00,000
Annual cost with Briquette fired Hot water system (C9 x 365)-c10	Rs/Annum	C11	59,09,585.60

Simple Pay Back Calculation

Maximum Heating Load - Planned	kW	H9	650.00
Hot water Boiler capacity	kcal/hr	H10	5,59,000.00
Saving in Energy cost	Rs/Year	C12=c13-c11	53,65,634.93
Installation cost of BQT fired Hot water system (LS)	Rs	c13	60,00,000.00
Pay Back period	Months	t3	14.00

Summary

Average Load	60%
No of Days	365
Consumption/Day	11,70,161.00

ACTION PLAN FOR Energy Saving

From the above study and report, it is evident that there is a vast potential for Energy Saving in Artemis Hospital. By proper Energy Saving Action plan, ARTEMIS shall be able to transform the potential to sustainable Energy Development and save at least 25-30% within 3 to 4 years.

Based on our Plant Experience, Energy Auditors of Acclaim suggest the following Energy Action Plan:

- 1) Executing the Energy saving proposals within a year.
- 2) Forming an Energy Saving Team among the operating staff and setting targets for energy savings.
- 3) Conducting Micro level Energy audit on continuous basis to identify Energy saving potential, in consonance with changing technologies.
- 4) As of now the Solar power potential has not been considered because of the space limitation prevailing in the hospital. In the future the possibility of installing solar collectors might be explored based on the possibility of shifting equipments and reallocating space.

Energy Saving at **Artemis HEALTH CARE LTD** by implementing Building Management System

#	Description of Electrical System	Energy savings after implementing BMS	
		Assured Min.	Max. attainable
1.	HVAC system	17% ✓	26%
2.	Medical Gas Plant	6%	12%
3.	Plumbing Water Supply	8%	15%
4.	Water Treatment Plant	5%	10%
5.	Raw water Pumping	7%	15%
Over all energy savings		18%	27%



ANNEXURES

Annexure : 1

Coefficient of Chiller Performance Calculation

Chiller No;1 Running

Description	Unit		Value
Primary Pump Flow Estimation			
Current Drawn by Two primary Pumps	A		40
Line Voltage	V		412
Power Factor		PF	0.82
Power Drawn by primary pumps	kW	$P_3 = 1.732VA(PF)$	23.4
Efficiency of the Electrical Motor	%	e_1	88
Efficiency of the pump	%	e_2	75
Pumping System Efficiency	%	e_3	66
Density of water	Kg/m ³	ρ	1000
Differential Head across the Pump	mWC	H	15
Pump Flow rate	m ³ /hr	$Q = 3600P_3e_3/(9.81Hr)$	410.12
Chiller Capacity	TR		350
Chiller inlet temperature	°C	T_1	15
Chiller outlet temperature	°C	T_2	12
Chiller water flow rate	m ³ /hr	Q	410.12
Current Drawn by the Chiller compressor	A	A	400
Line Voltage	V		412
Power Factor		PF	0.92
Power input	kW	$P_1 = 1.732VA(PF)$	262.6
Current Drawn by the Cooling Pumps	A		90

Description	Unit	Value	
Line Voltage	V		412
Power Factor	PF	PF	0.86
Power input	P2	$P_2=1.732VA(PF)$	52.62
Current Drawn by the Primary Pumps	A		40.0
Line Voltage	V		412
Power Factor	PF	PF	0.82
Power input	KW	$P_3=1.732VA(PF)$	23.4
Current Drawn by the Cooling Tower Fans	A		32
Line Voltage	V		412
Power Factor	PF	PF	0.82
Power input	P4	$P_4=1.732VA(PF)$	17.6
Total Power input	P	$P=P_1+P_2+P_3+P_4$	356.12
Energy Absorbed by the refrigerant	KW	$E=Q(RO)(T1-T2)C_p$	1430.3
Coefficient of performance		$COP=P/E$	4.02
Refrigeration Effect	TR	$RE=0.285E$	407.6
kw/TR			0.87



Annexure : 2

Equipment Details – Location Plant Room

Equipment	Model No	SI No	Rated Amps	Rating	Make
HOT WATER PUMP1	HX+160MLD-4	A/173900	21	11KW	ABB
HOT WATER PUMP2	HX+160MLD-4	A/173931	21	11KW	ABB
HOT WATER PUMP3	HX+160MLD-4	A/173935	21	11KW	ABB
PRIMARY PUMP 1	HX+160MLD-4	A/173902	21	11KW	ABB
PRIMARY PUMP 2	HX+160MLD-4	A/173932	21	11KW	ABB
PRIMARY PUMP 3	HX+160MLD-4	A/173933	21	11KW	ABB
PRIMARY PUMP 4	HX+160MLD-4	A/173934	21	11KW	ABB
CONDENSOR PUMP 1	HX+220MLD-4	264721	54.5	30KW	ABB
CONDENSOR PUMP 2	HX+220MLD-4	264726	54.5	31KW	ABB
CONDENSOR PUMP 3	HX+220MLD-4	264729	54.5	32KW	ABB
CONDENSOR PUMP 4	HX+220MLD-4	264719	54.5	33KW	ABB
SECONDARY PUMP 1	HX22SMB4	269334	67	37KW	ABB
VFD 1	178B0044	030632G426	65	52.6KW	Danfoss
SECONDARY PUMP 2	178B0044	269335	67	37 KW	ABB
VFD 2	HX22SMB4	029232G316	65	52.6KW	Danfoss
SECONDARY PUMP 3	029232G146	269333	67	37 KW	
VFD 3		029232G146	65	52.6 KW	
Bore well 1				7.5	
Bore Well 2				5	
Bore Well 3				7.5	

Equipment	Model No	Sl No	Rated Amps	Rating	Make
Raw Water transfer pump 1				3KW	Grundfoss
Raw Water transfer pump 2				3KW	Grundfoss
H/W primary circulation pump				1650W	Grundfoss
H/W Secondary circulation pump1 (OPD)				1650W	Grundfoss
H/W secondary circulation pump2 (OPD)				1530 W	Grundfoss
H/W secondary circulation pump(IPD)				1530 W	Grundfoss
H/W secondary circulation pump(IPD)				1530 W	Grundfoss
H/W Return pump(OPD)				1530 W	Grundfoss
H/W Return pump(IPD)				1530 W	Grundfoss



Annexure : 3

Air Handling Unit Operating Data

Name	Location	Model No	M/Rate (kW)	TR	CFM	Hrs/Day	KWHr
Brach therapy (Saivaz Make)	LGF	3554/33	1.1	25	1200	12	13.2
Chemotherapy	LGF	3554/42	2.2	10.38	4500	12	26.4
Lift Lobby	LGF	3554/02	5.5	25	12000	12	66
CSSD	LGF	3554/20	5.5	13	6000	12	66
Dialysis	LGF	3554/01	3.7	13	6500	12	44.4
LA1	LGF	3554/40	2.2	7	3600	12	26.4
LA2	LGF	3554/40A	2.2	7	3600	12	26.4
Minor OT	LGF	3554/70	1.1	2.5	1500	12	13.2
Ophthalmology	LGF	3554/03	7.5	37	16500	12	90
Oncology	LGF	3554/31	7.5	38.5	14500	12	90
Lab	LGF	3554/15	3.7	13	6000	12	44.4
Executive Office 1	LGF	3554/09	2.2	8	4000	12	26.4
Executive Office-2	LGF	3554/09	2.2	8	4000	12	26.4
Linen Room	LGF		1.5	8	3600	12	18
Doctor & Staff Café	LGF		3.7	8	5000	12	44.4
UPS Room	LGF	3554/42	10	8	3600	12	120
Blood Bank	UGF	3554/44	3.7	15	7000	12	44.4
Physiotherapy	UGF		3.7	12	5000	12	44.4
IPD	UGF	3554/42	3.7	7	3500	12	44.4
Emergency	UGF	3554/44	1.5	30	12000	12	18
Main Lobby	UGF		5.5	21	10000	12	66
OPD Waiting Area	UGF		5.5	7	5600	12	66
Visitors Café	UGF	3554/42	3.7	40	19000	12	44.4
Consult Area1	UGF	3554/04	9.3	9	4500	12	111.6
Consult Area2	UGF	3554/04	2.2	35	16500	24	52.8
Radiology	UGF	3554/32	7.5	35	16500	12	90
Auditorium	UGF		7.5	58	21000	12	90
Auditorium-Pre function Area	UGF		15			24	360

Name	Location	Model No	M/Rate (kW)	TR	CFM	Hrs/Day	KWHr
ICU(OT Waiting Area)	1st Floor		15		6000	24	360
Surgical ICU & Lobby-First Floor	1st Floor	3554/22	3.7	25	14000	24	88.8
ICU-First Floor	1st Floor	3554/25	7.5	42.5	18000	24	180
OT-2	1st Floor		9.3	42.5	18000	24	223.2
OT-3	1st Floor	3554/39A	15	17	3000	24	360
OT-4	1st Floor	3554/39B	5	17	3000	24	120
OT-5	1st Floor	3554/36	5	15	3000	24	120
OT-6	1st Floor	3554/39C	5	22	4000	24	120
OT-7	1st Floor	3554/39	7.7	16	3000	24	184.8
OT-8	1st Floor		5	17	3000	24	120
OT-9	1st Floor	3554/38	5	17	3000	24	120
Dirty Corridor	1st Floor	3554/37	5	21	10000	24	120
Clean Corridor	1st Floor	3554/35	5.5	10	4500	24	132
Cath Lab	1st Floor	3554/21	3.7	60	22500	24	88.8
LDR	1st Floor	3554/26	15	40	17500	24	360
Board Room	1st Floor		9.3	45	23000	12	111.6
Conference Room	2nd Floor		11	8	3600	12	132
Server Room	2nd Floor	3554/05	1.5	10	3000	24	36
Second Floor(PICU)	2nd Floor	3554/23	2.2	39	17000	24	52.8
ICU & Lobby	2nd Floor		9.3	39	17000	24	223.2
3rd Floor Corridor	3rd Floor		9.3	37	5000	24	223.2
4th Floor Corridor	4th Floor		3.7	37	5000	24	88.8
5th Floor Corridor	5th Floor	3554/16	3.7	37	5000	24	88.8
6th Floor Corridor	6th Floor	3554/16	3.7	45	5000	24	88.8
Total			281.7	1136.86	433800		5343.2



End

PURCHASE ORDER

4000602

Godrej & Boyce Mfg Co. Ltd.

Godrej & Boyce Mfg Co.Ltd Plot no 16,

Haryana

121004-Haryana

India

Pur Order No. : 9000001881

Date : 10.12.2016

Validity Date : 10.06.2017

Your Ref : Negotiated quote dated 05.10.2016

Our Ref : AN:432 Dtd 13.07.15 from GE Dept

Please send your order acceptance immediately on receipt of this order. Your invoice, packing list and delivery challan should mention our PO No., Date and item code as per our purchase order. You may arrange to supply the following items against this order in accordance with the terms and conditions attached with the order.

SL NO.	Code	Description	Unit	Quantity	Rate (INR)	Amount (INR)
1	C2486BBBBBBBA4	SOLAR POWER PLANT 100KW	NMB	1.00	6,210,000.00	6,210,000.00
		Vat (5.25%) Non Deductible (General item)			INR	326,025.00
		Net Amount				6,536,025.00

Total : 6,536,025.00

RS/ SIXTY-FIVE LAC THIRTY-SIX THOUSAND TWENTY-FIVE ONLY

Notes :

Prices are inclusive of all taxes.

SCOPE OF WORK AND SUPPLY AS PER ANNEXURE-I ATTACHED ALONGWITH PURCHASE ORDER.

Warranty :

5 years on complete system,

Performance warranty for 10 years for 90% of the nominal power output ✓

Performance warranty for 25 years for 80% of the nominal power output ✓

Inverter grid warranty - 5 years

Price Basis :**Payment Instructions :**

20% along with PO against BG, 30% against material receipt on site, 30% after successful installation & commissioning of project and 20% after 1 month of successful operation from date of commissioning

Payment Terms :**Despatch to :**

Sector 51, Gurgaon, 122001

Despatch instruction :

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 SCOPE.

Other Terms & Conditions:

The supplier shall ensure the smooth delivery, installation, testing, commissioning and training of 100KW Solar Power Plant at the Parking area with the elevated structure as per governing / local / central statutory compliances for the same.

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

NABH & JCI Accredited | 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: U85100DL2004PLC126414 | TIN: 06461826988 (HR) 07300402750 (DEL) SERVICE TAX: AAFCAD130MST001 TAN No.: DELA160485 PAN: AAFCAD130M | Email: info@artemishospitals.com

Half Yearly Compliance Report Artemis Hospitals Sector-51, Gurgaon (Period 01.10.2017 - 31.03.2018) Page 168 of 168

Pur Order No. : 9000001881
Date : 10.12.2016
Validity Date : 10.06.2017

Also apart from the items / quantity mentioned in Annexure-I, if any equipment / component / spares / consumables / etc is required for smooth functioning of the plant for the desired output, the supplier shall provide the same free of cost to the buyer.

M/s Godrej Boyce pvt ltd will provide the following :

1. Structure stability certificate.
2. Will provide test and warranty and certificate and related document of Manufacturer's for components (which have to be used in project) in the subsidy
3. Any software and technical drawing is built O&M manuals / SOP will be provided to the buyer and shall be in custody of the buyer.
4. Technical Training for system.
5. Artemis will provide one spare breaker and other all activities/interfacing to receive power in vendor scope.
6. Performance ratio will be measured by vendor and duly vetted.

1.0 INSURANCE

- 1.1 will provide transit insurance paper and also all manpower working on perfect project are insured.
- 1.2 It would be Vendor/Vendor's Indian agent's responsibility to cover all risks against direct damage and /or injury to our property and /or employees or our agents occurring during commissioning & acceptance by the Artemis Medicare Services Limited.
- 1.3 The insurance shall be valid till the date of commissioning of the equipment and its acceptance by General Engineering Department of Artemis Hospital, Gurgaon.

2.0 TRANSPORTATION & SHIPMENT REQUIREMENTS

- 2.1 The mode of dispatch can be Air / Rail/Road/Sea.
- 2.2 All equipment items shall be preserved & packaged in accordance with the manufacturer's standard practices to avoid damage while in transport & shipment to its final destination.
- 2.3 Vendor shall assume all responsibilities & incur all liabilities for the equipment during transport, shipment, all loading/unloading of equipment & rigging into place if required by local labor conditions or agreements. Vendor shall also coordinate any loading/unloading of equipment & rigging into place performed by others & shall pay the cost of any such loading/ unloading or rigging into place. All equipment shall be delivered, installed, freight pre-paid & absorbed by Vendor.
- 2.4 No items of equipment shall be delivered to the site before such time that the facility is ready for immediate installation of the equipment. Fifteen days notification is required by buyer before delivery of its equipment.
- 2.5. If requested, vendor shall pre-stage equipment before shipment to Buyer. This shall include complete assembly, interconnection & testing of the system at Vendor's facility. Documentation of successful completion of such testing shall be provided before shipment for the review by buyer or its designate representative. The system shall not be dis-assembled for shipment without buyer's approval of test result.

3.0 DELIVERY

- 3.1 Time will be essence of this contract, shipment will comply with requirements noted on the face of the Purchase Order or Annexure attached thereto and Vendor will pay all premiums required to meet the specified delivery dates.
- 3.2 If delivery is not completed within the time specified, Buyer reserves the right, without liability, in addition to its other rights and remedies.

4.0 WARRANTIES / POST WARRANTY CONTRACTS

As mentioned Above

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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: U85110DL2004PLC126414 | TIN: 06461826988 (HR), 07300402760 (DEL), SERVICE TAX: AAFCA0130MST001, TAN No.: DELA16048E, PAN: AAFCA0130M | Email: info@artemishospitals.com

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BOS(Balance of system) will be as per standards and code defined by MNRE.

- 4.1 Vendor shall warrant that the Equipment to be furnished hereunder will be (i) merchantable, free from defects in material and workmanship; (ii) in full compliance with Buyer's specifications blueprints, drawings and data and Vendor's quotations if any and other applicable documentation; and (iii) fit and sufficient for the purposes for which Buyer has informed Vendor the Equipment will be used.
- 4.2 In case of any complaint lodged by buyer & the call is not attended within 24 hours on working days & within 48 hours on weekend/holidays, the warranty period will get extended by 1 day for every hour delayed
- 4.3 Vendors guarantees the availability and sale directly to the Buyer of its designated spare parts and repair service for a period of 10 years from the date of the purchase of the equipment under this Agreement even if the purchased model is out of production.
- 4.4 The warranty covers all installed components, including those that are not standard.
- 4.5 The vendor should abide by the terms and conditions of this PO for lifetime of the equipment.

5.0 INSTALLATION & BUYER'S ACCEPTANCE TESTING

- 5.1 This portion of the conditions provides requirement for the installation of the equipment purchased by the buyer from the vendor. With the exception of any action specifically agreed upon to be performed by buyer, vendor shall have the total responsibility for the assembly, installation, interconnection, calibration & start-up of all the equipment, including final electric power connections & mounting of equipment.
- 5.2 Within seven calendar days following award of contract vendor shall provide BUYER with the drawings detailing all the electrical & other work (e.g. provisions for equipment mounting) to be performed by BUYER (in case applicable).
- 5.3 Vendor shall inspect the existing facility & the architectural & engineering drawings for the planned facility & completely familiarize its with all the conditions affecting the equipment specified. Failure to do so shall not relieve the vendor from any of the requirements contained herein.
- 5.4 Upon satisfactory completion of delivery & inspection, vendor shall immediately begin installation of the equipment. Upon completion of equipment installation, assembly interconnection calibration & start up, buyer shall test the equipment as to its proper functioning with all test results recorded in writing. This shall constitute Buyer's acceptance testing.
- 5.5 All statutory / environmental compliance must be met without any exception or failure along-with delivery / installation of equipments / completion of subject.
- 5.6 All statutory / environmental compliances for installation & commissioning of equipment to be in vendor's account.
- 5.7 Vendor shall be responsible for all Taxes, if any, payable for such commissioning & installation.

6.0 THE VENDOR SUPPORT SERVICES

The services to be provided by the Vendor during the warranty and the period of Comprehensive Annual Maintenance Contract/ Annual Maintenance Labor contract (herein after referred to as "#support services" and "#support services period").

- 6.1 Installation and Commissioning Team (#I & C") and Escalation Matrix: Vendor shall provide the details of the I & C team working during the support services period, clearly defining the role being performed by each of the member and the escalation matrix thereof. The same shall be provided within 10 days.
- 6.2 Service Training:
- 6.3 Obligations and Responsibilities of Vendor:
- A) will provide training to staff that are approved by Artemis for the maintenance of solar Power plant only
- b) During DLP period, Maintenance visit will be on call basis in case of any faults related to solar Power plant
- c) Re-familiarize Artemis staff on aspects of equipment operation during planned maintenance visits.
- d) Perform during planned Preventive Maintenance the training of the Artemis staff regarding the proper handling of the Equipment.



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e) Vendor shall ensure to carry out all maintenance as necessitated by agreement through its efficient and qualified staff only in a diligent manner. Vendor shall also ensure that all spares parts and consumables provided are original, New and are of approved quality and benchmark. f) Vendor would arrange the factory visit at their own cost.

7.0 REPAIR AND REPLACEMENT OF DEFECTIVE EQUIPMENTS

- Vendor shall replace or repair all defective Equipment and software and shall correct any defects without charge for parts or labor (both during and after regular business hours) during the warranty & support service period.
- All support services shall be provided by full time bonafide employees working for Vendor, except as otherwise agreed. Qualified service engineers, whose location will ensure compliance with the minimum response time, for emergency repairs shall provide repair services.
- Vendor shall provide a no charge replacement of any defective Equipment or part thereof that cannot be repaired or corrected to the satisfaction of Buyer during the warranty or AMC period.
- Any defective Equipment that is replaced during the support period shall be covered by a full warranty, regardless of the term of the warranty on the existing Equipment at the time of replacement.
- In case the Vendor is not in a position to replace/correct the defective equipments within the agreed time lines the support services period shall be extended by twice the down time at no extra cost or a financial adjustment equivalent to the same.

8.0 EFFECTIVENESS LEVELS

The following effectiveness level provision shall apply to the Equipment during the support services period. Uptime is defined as the period during which the Equipment is working and or available for use to Buyer's satisfaction. Downtime is defined as the state when the equipment is not operable due to breakdown, non performance, malfunctioning performance of repairs, or failure to perform according to specifications. The period of downtime shall be from the time of notification to the vendor service representative until the Equipment is returned / presented the Buyer's representative properly functioning and ready for use. Scheduled routine preventive maintenance, scheduled upgrades of Equipment and external failure (i.e. air conditioning or power loss) shall not be considered downtime. The effectiveness level is computed by dividing the total amount of uptime in hours by the sum of the uptime in hours and the downtime in hours.

The following minimum effectiveness levels are required:

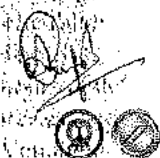
The effectiveness level shall be calculated monthly, both for 24 hour day system availability and/ or for system availability during the standard hours of department operation in effect at that time.

Percentage effectiveness level required: 99% of 365 days.

Vendor and the Vendor's agents will undertake to ensure that ordered system will have an uptime guarantee of 99% or otherwise the Vendor will compensate Artemis Medicare Services Limited. For the revenue loss based on the daily average patient load of that equipment projected for the last month of the first year of operation. A logbook will be maintained by the Vendor's engineer and Artemis Medicare Services Limited's technician for keeping record of uptime/downtime of the equipment.

9.0 SCHEDULED INSPECTION/PREVENTIVE MAINTENANCE

- Vendor shall provide complete inspection/preventive maintenance and calibration on quarterly basis. Vendor will ensure that written Service / Preventive / Calibration Reports signed by User Deptt and General Engineering shall be deposited for each such event to General Engineering, Artemis.
- Scheduled inspection and preventive maintenance shall conform to the Vendor's/manufacturers published recommendation, as well as to the requirements of applicable standards regulatory and accrediting agencies.
- Preventive maintenance work on the Equipment shall be performed at predetermined times convenient to Buyer. These times may include



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off-hours:

10.0 Software / hardware upgrades

- a) Vendor shall supply all software upgrades to the equipment at no additional charge during the warranty period. These upgrades shall include circuit boards or other parts required.
- b) All software or hardware upgrades to the Equipment and any associated hardware to support them shall be brought to the attention of Buyer at the earliest.
- c) Vendor shall schedule any installation of software upgrades at a time that will have the least impact on the operations of Buyer and shall obtain prior approval of this schedule from Buyer.
- d) Vendor shall supply at no additional charge to buyer, any hardware and software required for making the equipment comply with changing safety standards and regulations of India.
- e) Any technical up gradation that has been incorporated in the above said equipment anywhere in India or abroad.

11.0 DOCUMENTATION

Vendor shall supply buyer with the following documentation for each of the equipment being installed & commissioned before issuance of final acceptance certificate by Buyer:

A) Commercial documents (as applicable): #

- a) Bill of Entry (Importer & Exchange control copy) in case of direct import.
- b) Original commercial invoice plus 2 copies
- c) Packing list -2 copies.
- d) Vendor's test certificate
- e) Country of origin certificate, in case of imported items
- f) Insurance certificate

B) Technical documents (as applicable):

- a) Three (3) hard copies of installation and commissioning manuals.
- b) Two (2) hard copies of complete technical drawings giving the complete mechanical, electrical, plumbing lay outs.
- c) All the operation manuals, test certificates, packing list and other documents received during the course of unpacking the equipments.
- d) Vendor shall complete 36 point checklist provided by General Engineering Deptt.

Further the Vendor shall also provide the two soft copies of each of the above requirements in a CD/DVD duly indexed.

During the support services period, all documentation shall be updated monthly by vendor to reflect any revisions.

12.0 SUPPORT OUR MARKETING TEAM

You will support our marketing team at ARTEMIS in promoting your equipment/item supplied. This will be in the form of advertising, press conferences, events, trainings & Continuous Medical education# seminars/workshop for technicians/doctors/nursing staff.

13. INDEMNIFICATION

Vendor shall indemnify and hold harmless the Buyer and its officers, directors, agents, employees, successors and assigns, including and each of them, harmless from and against any claims, losses, demands, judgments or expenses (including attorney's fees), arising from performance of his deliverables under this agreement and/ or (ii) incurred as a result of a defect or malfunction in the Equipment.

Vendor shall also indemnify and hold harmless the buyer, its officers, directors, agents, employees, successors and assigns against any claim

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loss or legal proceedings initiated for violation of any patent or proprietary material supplied by the Vendor including software. The vendor shall be responsible for the payment of all statutory dues including PF, ESI and any other applicable statutory payments to the workmen allocated by him to execute the contractual obligations at the site of the Buyer and agrees to indemnify the buyer for any liability. The maximum response time for repairing the equipments shall be 4 hours and in case of any failure of Vendor to give response to repair the equipments within the response time, it shall indemnify Artemis of all the losses suffered by the Artemis because of such failure. Artemis reserves the right to cancel/rescind/voke the Agreement and impose suitable penalty in proportion to the damages.

14. EQUIPMENT QUALITY

All equipment provided shall be of current production, new, and of first rate quality. Reconditioned or previously used Equipment shall not be supplied.

15. FORCE MAJEURE

Vendor will not be responsible for delays or failures of deliveries caused by fires, strikes, floods, epidemics, riots, acts of God, acts of civil or military authorities or any other matter beyond the reasonable control of the Vendor. In order to be excused from performance, the Vendor must give Buyer written Notice of the potential delay within 2 days of the occurrence of the event, Vendor's notice must give an estimate of how long the delay will continue. If Vendor's performance is delayed or expected to be delayed for more than 30 days, Buyer may cancel all unfulfilled purchase orders. Buyer's liability for payment will only be for goods already delivered installed & commissioned & accepted.

16. FAMILIARISATION WITH INSTALLATION SITE CONDITION

Vendor shall acknowledge that it has visited or will visit the location of Equipment installation or has otherwise familiarized itself with all conditions affecting the installation of Equipment. Failure to do so shall not relieve Vendor of the obligation to assure proper operation of the Equipment sold under these conditions.

17. CONFIDENTIALITY

Vendor agrees it will not disclose any of Buyer's Confidential Information (as hereinafter defined) which has been acquired either directly or indirectly by virtue of the dealing with the Buyer, at any time during or after this agreement. Confidential Information includes Buyer's trade secrets, product specifications, documentation, data designs, marketing strategy or materials, and other proprietary information's, confidential information may be oral or written. Confidential Information which is given to Vendor is intended for the Vendor's internal use only in connection with the performance of this Purchase Order and Vendor will not, in any manner, either directly or indirectly, divulge, disclose or communicate to any person, firm, or agency and shall immediately return all copies of Confidential Information held by Vendor.

18. NOTICE

In the event that any material provisions of these conditions are violated by Vendor, the Buyer may serve written notice upon Vendor of its intention to cancel the order. In case such violation is not reminded with 20 days of notice the cancellation of the Order shall be final & the Vendor shall return to the buyer all documents, data and payments received for the Order. Such notices will be deemed to have been served to the Vendor if the same is sent by the registered post/fax on the address and number furnished by the Vendor.



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CIN: U85110DL2004PLC126414 | TIN: 05461826988 (HS) 07300402760 (DEL) SERVICE TAX: AAFCAD130MST001 TAN No.: DELA16048E PAN: AAFCAD130M | Email: info@artemishospitals.com

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19. SEVERABILITY

If any term or condition in this Agreement is held unenforceable, that term or conditions will not affect the remaining terms and conditions of this agreement, which will continue in full force and effect. The parties shall endeavor to make changes for the un-enforceable clause to be modified for the proper execution of the order.

20. COMPLIANCE WITH LAW

Vendor shall warrant and represent that the goods and Equipment provided hereby comply with all relevant provisions of Indian State and lo laws and regulations, including all applicable environmental and safety laws and regulations.

21. ASSIGNMENT

Vendor may not delegate or assign any or all of its rights, duties, or obligations under this Agreement without Buyer's prior written approval any attempt to do so will be avoid & shall.

22. GOVERNING LAW

This Agreement, and any disputes related to it will be handled under the jurisdiction of Gurgaon, applicable to agreements executed and who performed within said jurisdiction and governed by the laws of India.

23. DISPUTE RESOLUTION

The parties shall attempt to resolve any controversial claim arising out of or relating to this Agreement, or the breach thereof, in an amicable way. Failing this, any remaining controversy or dispute in connection with this Agreement shall be settled by arbitration such arbitration shall be governed by Arbitration and Conciliatory, Act 1996. The CEO of Buyer shall appoint a Sole Arbitrator to settle the dispute. The award in any such arbitration shall be final. The judgment thereon may be entered into courts at Gurgaon.

24. ENTIRE AGREEMENT

This Agreement, all Attachments and all purchase orders issued pursuant to this Agreement constitute the complete and Final Agreement with the Vendor of the goods. It supersedes all prior discussions, understandings or communications (oral or written between the Buyer and Vendor regarding purchase of goods). All other documents will not be in conflict with the above Terms and Conditions agreed between the Buyer

Prepared By

Authorized Signatory



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SOLAR POWER PLANT (BOQ)

Description	Make	Technical Compliance
Polycrystalline PV Module of rating 250 Wp, 60 Cells	ReneSola / PV Powertech / Vikram Solar or Equivalent MNRE approved make	250 Wp, Vmp- 30.50v, Imp- 8.20 A, Voc- 37.10v, Isc- 8.60, efficiency >15%. The PV modules must qualify the relevant IEC 61215 or IS 14286 and IEC 61730. Manufacturer of proposed PV modules must have the ISO 9001:2008 or ISO 14001 Certification for their manufacturing unit for their said manufacturing item.
String Inverter	Delta	Max DC voltage 1000V, MPP voltage range / nominal voltage 300V - 1000V /600V, Number of MPP trackers/strings per MPP tracker- 2/2, Max. input current 15A / 15A, Max. input current per string- 20A, Max. output current 16A, AC ; range nominal voltage 3/N/PE, 230V/400V 184 - 275V THDI <3%
Elevated Module Mounting structure with min. ground clearance of 3 mtr , SS 304 Nut, Bolt Washers	Godrej In house design and approved fabricator	Hot dipped galvanized MS angles/ channel of suitable size. The support structure design & foundation shall be designed to withstand wind speed upto 180 kmph. The array structure shall be made of hot dip galvanized MS structure of minimum galvanizing thickness 80 micron. T All fasteners shall be of stainless steel of grade SS 304. The mounting structure steel shall be as per latest IS 2062: 1992 and galvanization of the mounting structure shall be in
MC4 connectors for DC Cable connecting (suitable for module)	Any standard make	IP -65, compactable 250wp modules
Civil Works		Construction of Civil Foundation (300*300*300)mm with 1:2:4 ratio for structure installation
Grid Intefacing panel	VNT, Hensel, Trinity Touch, MCCB make Schneider / L & T and ABB	GIP 20 Amp MCB with 3 ph, TPN, 1 no. of SPD of 10 KA with IP 20 Enclosure
1 CX4 Sq mm UV Protected DC solar Cables for Module to Module Interconnection and to inveter	Lapp/ Leoni / SicheM	All the cables shall be supplied conforming to IEC 60189 / IS 694 / IS 1554 or IS / IEC 69947 shall be of 650 V/1.1 kV grade as per requirement.
4CX 6 Sq mm PVC insulated copper armoured AC Cables for connecting the Inverter to the grid Interfacing panel and to grid.	Lapp/ Finolex / KEI or Equivalent	All the cables shall be supplied conforming to IEC 60189 / IS 694 / IS 1554 or IS / IEC 69947 shall be of 650 V/1.1 kV grade as per requirement.
1CX6 Sq mm copper Earthing cables for Inverters earthing	Lapp/ Finolex / KEI or Equivalent	All the cables shall be supplied conforming to IEC 60189 / IS 694 / IS 1554 or IS / IEC 69947 shall be of 650 V/1.1 kV grade as per requirement.



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CIN: U85110DL2004PLC2641A | TIN: 0563825938 (HR) 07300402760 (DL) | SERVICE TAX: AAFCA0130MST001 | TAN No.: DELA160485 | PAN: AAFCA0130M | Email: info@artemishospitals.com

modem for web monitoring along with internet connection	D- Link	Wireless Security 64/128-bit WEP (Wired Equivalent Privacy) WPA & WPA2 (Wi-Fi Protected Access) FIREWALL Network Address Translation (NAT) Stateful Packet Inspection (SPI) WiFi modem, Ports : 2 x LAN (RJ-45), 1 x WAN (RJ-45), 1 x Phone (RJ-11)
Cable conduits for AC cables with complete accessories		24mm UPVC conduit
Cable conduits for DC cables with complete accessories		24mm UPVC conduit
25X3 mm GI Strip for lightning arrestor earthing		
25X5 mm GI Strip for structure and inverter earthing.		The array structure shall be grounded properly using maintenance free earthing kit as per IS: 3043 – 1987, tested & certified by CPRI.
Import Export Meter (Optional)		To be provided by DISCOM
Lightning Arrestor (Conventional)	VNT/LPI/OBO or Equivalent	The main aim in this protection shall be to reduce the over voltage to a tolerable value before it reaches the PV or other sub system components.
Conventional Earth pit with 3 mtr long 100mm diameter with cast iron cover plate with locking arrangements. Charcoal and salts	Ashlok or Equivalent	GI pipe, 3 m long 40 mm diameter including accessories and providing masonry enclosures with cast iron cover plate having locking arrangement, water in pipe using charcoal or coke and salt as required as per provisions of IS:3043. Isolating joints should be bolted of each Earthing pit for periodic checking of earth resistance.
Installation & Commissioning		
Loading, Unloading, Installation and commissioning of structure, Material Supply, module Mounting, cable Laying & Termination, Crimping of Lugs , Inverter Commissioning, GIP Installation & Commissioning.		

[Signature]

[Signature]

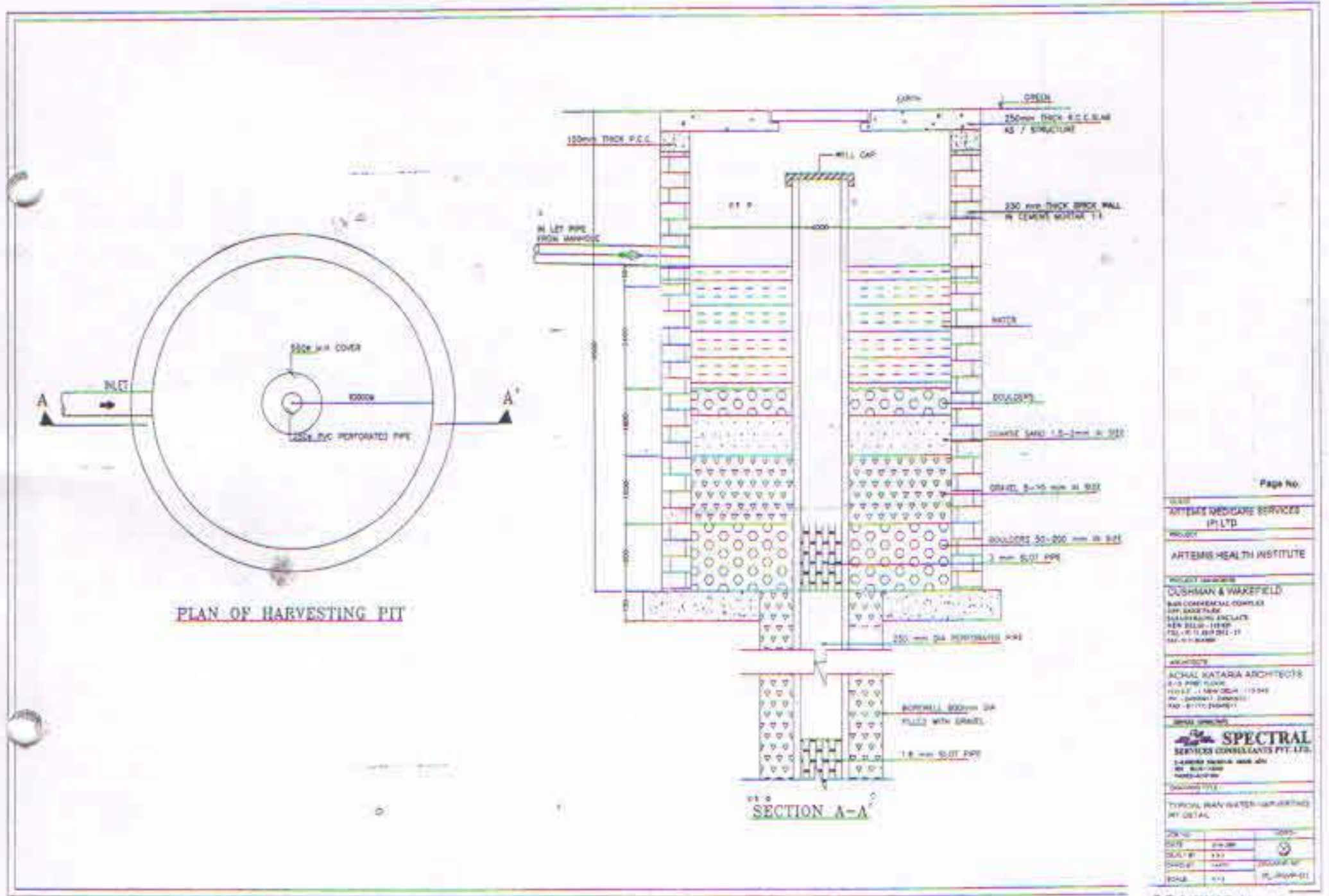


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CIN: U85120DL2004PLC026444 | TAN: 05461825888 | IIRL: 07300403750 (DEL) | SERVICE TAX: AAFCA0130M5T001 | TAN No: DELAL60485 | PAN: AAFCA0130M | Email: info@artemishospitals.com

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DRAWING No.10

OUR
SPECIALITY
IS
YOU

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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 frn 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

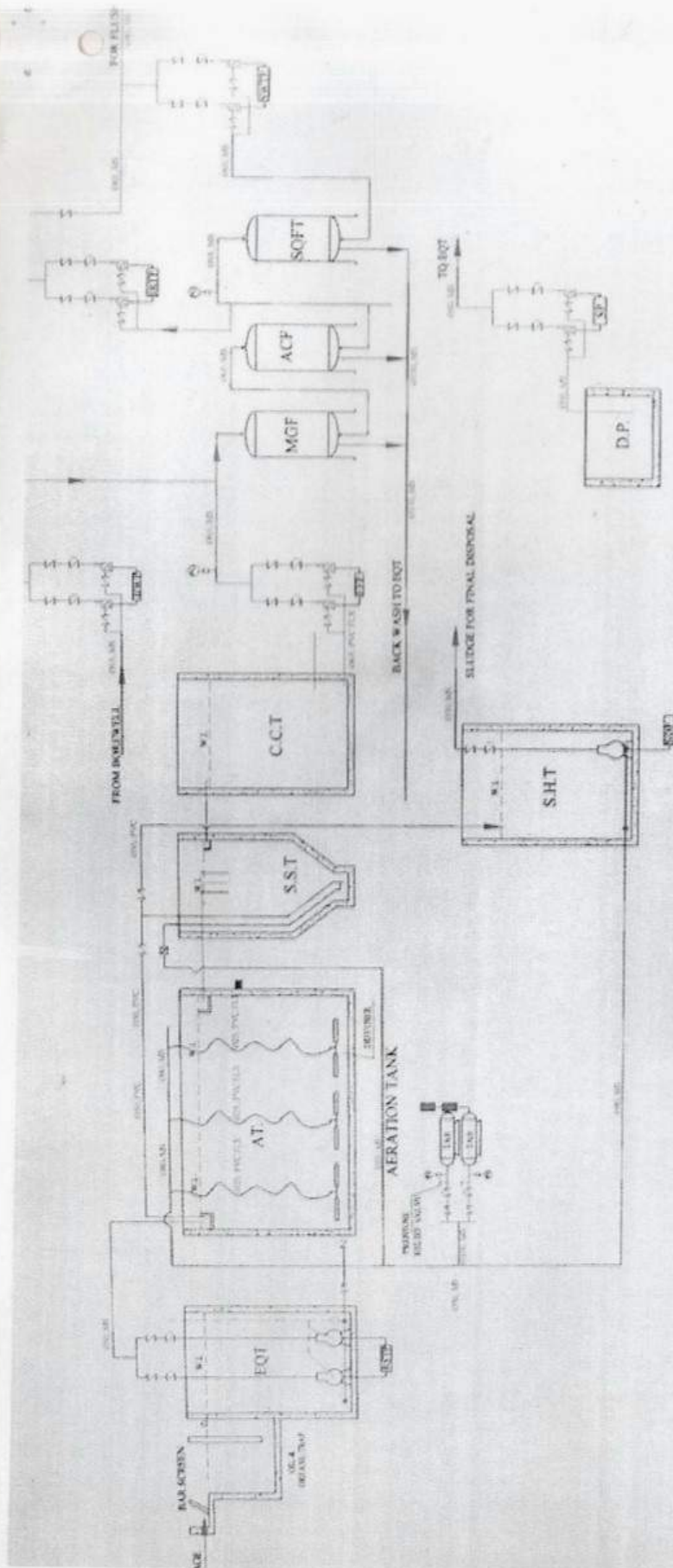


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NABH & JCI Accredited | Sector 51, Gurgaon 122001, Haryana, India. Ph: +91 124 6767 999 | Fax: +91 124 6767 701 | Emergency & Trauma: +91 124 6767 000

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: U85110DL2004PLC126414 | TIN: 05461826988 (HR), 07300402760 (DEL), SERVICE TAX: AAFCA0130MST001, TAN No.: DELA1604BE, PAN: AAFCA0130M | Email: info@artemishospitals.com

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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
DRAWN:	E.D
DATE:	2018/03/01

MARK	DESCRIPTION	QTY
BS	BAR SCREEN	01
FOT	FIRST OIL TRAP	01
SST	SOLIDS SETTLING TANK	01
AT	AERATION TANK	01
CCT	CLARIFIER	01
MGF	MOTORIZED GRAVITY FILTER	01
ACF	ACTIVATED CARBON FILTER	01
SOFT	SOFTENER	01
D.P.	DISPOSAL POINT	01
BS	BAR SCREEN	01
FOT	FIRST OIL TRAP	01
SST	SOLIDS SETTLING TANK	01
AT	AERATION TANK	01
CCT	CLARIFIER	01
MGF	MOTORIZED GRAVITY FILTER	01
ACF	ACTIVATED CARBON FILTER	01
SOFT	SOFTENER	01
D.P.	DISPOSAL POINT	01

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ACF	ACTIVATED CARBON FILTER	01
SOFT	SOFTENER	01
D.P.	DISPOSAL POINT	01

ARTEMIS HOSPITALS		Form No: 04 OPEX – REPAIR & MAINTENANCE / SPARES / EQUIPMENT ACCESSORY REQUIREMENT APPROVAL NOTE			DOCUMENT CONTROL No.: AH/PUR/018/04/2016	
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, PLS MENTION 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/-		
As Compliance Recommended By Advisor (MOEF/Climate Change Ministry)						
TOTAL ESTIMATED EXPENDITURE (RS.)				136220/-	(EXCLUDING TAXES)	
(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 PART I, 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 Less: Discount 2%	01 No.	139000/-	139000.00 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.