

Deputy Director,  
Ministry of Environment, Forest & Climate Change  
Northern Regional Office  
Bays No. 24-25, Sector 31-A  
Dakshin Marg, Chandigarh-160030

**Sub:** Submission of Six-monthly compliance report for the period of October-2021 to March-2022 submission due in June-2022 of the Environmental/Safeguards Conditions stipulated in Environmental Clearance letter for "Artemis Hospital " at Sector-51, Gurgaon, Haryana by M/s Artemis Medicare Services Ltd

Reference: Environmental Clearance vide Letter No 23-279/2018-IA.III(V)  
Dated 27/09/2019.

Dear Sir,

This is in reference to the submission of six-monthly compliance report for the period October -2021 to March-2022 submission due in June-2022 Environmental Clearance's conditions obtained vide F.No 23-279/2018-IA.III(V) Dated 27/09/2019 on plot area 33,588.908 sqm and built-up area 67,444.652 sqm.

In this regard, as per the conditions laid down in the Environmental Clearance Letter, we are hereby submitting a six-monthly Compliance Report along with all the requisite annexures and soft copy (CD) as per the guidelines of the Ministry of Environment, Forest & Climate Change.

Thanking You,

Yours Faithfully,



For, M/s Artemis Medicare Services Ltd

(Authorized Signatory)

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Copy to:

1. The Chairman, State Environment Impact Assessment Authority, Bays No. 55-58, Prayatan Bhawan, Sector-2, Panchkula, Haryana.
2. Member Secretary, Haryana State Pollution Control Board, C-11, Sector-6, Panchkula, Haryana.



NABH & JCI Accredited

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**SIX-MONTHLY COMPLIANCE REPORT OF STIPULATED  
ENVIRONMENTAL CLEARANCE CONDITIONS**

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**"Artemis Hospital "**

**(Environmental Clearance Letter No.**

**23-279/2018-IA.III(V) Dated 27/09/2019**

**At**

**Sector-51, Gurgaon, Haryana**

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**By**

**M/s Artemis Medicare Services Ltd**

**Plot No. 14, Sector-20, Dwarka, New Delhi -110075**

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**Submitted by:**

**M/s Perfact Solutions**

**(Environment Consultant)**

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**June-2022**

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## **CHAPTER-I: PURPOSE OF THE REPORT**

As per the “Sub Para (ii)” of “Para 10” of EIA Notification 2006, it is stated that “It shall be mandatory for the project management to submit half-yearly compliance reports in respect of the stipulated prior environmental clearance conditions/safeguards in hard and soft copies to the regulatory authority concerned, by June and December of each calendar year” and as per compliance of condition mentioned in Environment Clearance Letter (i.e. Part B General Condition, point number II), Six monthly compliance reports should be submitted to the Haryana State Pollution Control Board and Regional Office, MOEF, GOI, Northern Region, Chandigarh and a copy to the Regulatory Authority of Haryana.

It is mandatory to submit a six-monthly compliance report to show the status & compliance of all the Conditions mentioned in Environment Clearance Letter, along with monitoring of various Environmental Parameters (as per CPCB Norms).

The regulatory authorities in this case are Haryana State Pollution Control Board, Regional Office-MoEF (Chandigarh) and SEIAA, Haryana.

Based on the Specific and General Conditions mentioned in the EC Letter, a Compliance Report is prepared by the Perfact Group on behalf of Project Proponent; details of which are present in Chapter – “Compliance Report”

### **Methodology for Preparation of Report is as follows:**

1. Study of EC Letter & Related Documents,
2. Site Visits by a representative/team of Environment Consultant,,
3. Monitoring of Environment Parameters, viz. Ambient Air, Water, Noise, Soil & DG Sets,
4. Analysis of Samples collected during Monitoring,
5. Interpretation of Monitoring Results,
6. Compliance Report, explaining the entire Environmental Clearance conditions in the EC Letter and providing details w.r.t. each condition/ guideline.

## CHAPTER II: INTRODUCTION

The proposed "Artemis Hospital " at Sector-51, Gurgaon, Haryana being developed by M/s Mis Artemis Medicare Services ltd

<b>Particulars</b>	<b>Details of project</b>
Name of the project	"Artemis Hospital "
Site address	Sector-51, Gurgaon, Haryana
Environment Clearance Letter No	F.No. 23-279/2018-IA.III(V) Dated 2709/2019
Project Description	Project involves 394 Bedded hospital " on a total plot area of 33,588.908 sqm and built up area of the project is 67,444.652 m <sup>2</sup> .
Year of Construction Start	September 2019

## PROJECT DESCRIPTION

The proposed "Artemis Hospital " at Sector-51, Gurgaon, Haryana being developed by M/s Artemis Medicare Services Ltd will have the following salient features: -

<b>Particulars</b>	<b>Details as per Environmental Clearance dated 27.09.2019</b>
Plot Area	33,588.908 sqm.
FAR	49,913.526 s sqm
Total Built up Area	67,444.652 sqm.
No. of Towers	5
Building Height	27.5
Power Requirement	4500 KW (existing: 3100 KW & Proposed: 1400 kW)
D.G set	2x 125 ,1x 62.5 KVA and 1x40 KVA(Required during Construction Phase)
Total Water Requirement	1104 KLD
Wastewater generated	637 KLD
STP and ETPCapacity	325 & 400 KLD and ETP of 25 KLD and 45 KLD
Treated Water	514 KLD
Solid waste generation	1930 Kg/day
Biodegradable Waste	1351 Kg/day
Non Biodegradable Waste	483 Kg/day
Biomedical waste	298 Kg/day
E waste	1-2 Kg/month w
Plastic Waste	96 Kg/day
Rain water harvesting pit	6 No. (5 installed)
Parking Provision	668 ECS (Existing - 236 ECS and Proposed - 432 ECS) (four wheelers) is proposed to be provided against the requirement of 666 ECS.
Total Cost of Project	Rs. 399 Crore.

### CHAPTER III: CONSTRUCTION STATUS:

Tower-II Construction work of the 6th floor and roof is under process and for Tower-III basement work is undergoing.

S. No.	Component	Construction Status as on June -2022	
		Tower-II	Tower-III
1.	Civil Construction: No. of Towers Completed- Structural Work- Brick Work- Plaster Work- No. of Towers Under Construction- Structural Work- Brick Work- Plaster Work-	Completed  Completed  Completed  Nil  Completed  Completed  Completed	Nil    01      
2.	Plumbing Work	Completed	Completed
3.	Electricity work	Completed	-
4.	Fire Fighting Work	Completed	-
5.	Sewage Treatment Plant Work	Completed	-
6.	Total No. of Rain Water Harvesting Pits: No. of pits completed- No. of Pits under Construction- No. of Pits balanced-	01  Nil 01 01	-
7.	Sewerage, Drainage etc. Work: Civil Work- Mechanical Work- Electrical-	Completed	-
8.	D.G. room, AC Plant Room Work	Completed	-
9.	Landscape Work Total No. of Plants- No. of Plants Planted in the project rea- Size of Greenbelt along periphery -	95%	-
10.	Finishing Work	92%	-

**SITE PHOTOGRAPHS:**



**Photograph of Operational Building**





**Photograph of Construction Building**



**Photograph Showing Mobile Toilet and Drinking water for labour**



**Photograph showing medical room at the construction time**



**Photograph showing D.G of capacity 1250 KVA (overall 2x1250 and 1x 500 KVA)**



**Photograph showing RWH Pit**



**Photograph of ETP installed at the construction site**



**Photograph of STP installed at the construction site**

## CHAPTER IV: POINT WISE COMPLIANCE REPORT AS PER EC CONDITIONS

Current Status of Point – wise compliance of the stipulated environmental conditions/ safeguards.

<b>A. Standard Conditions:</b>		
<b>S.No</b>	<b>Environmental Conditions/Safeguards</b>	<b>Compliances</b>
<b>I. Statutory Compliance</b>		
1.	The project proponent shall obtain all necessary clearance/permission from all relevant agencies including town planning authority before commencement of work. All the construction shall be done in accordance with the local building by-laws.	We have obtained Water Assurance from HUDA.  Approved Building plan has been obtained. We have obtained Consent To Establish from HSPCB vide Consent No 313099719GUNOCTE6992359 dated 5/12/2019 Valid till 26/9/2026 Copy of the same is enclosed as Annexure- <b>II and</b> Consent to Operate from HSPCB vide Consent No 313099720GUNOCTO7813399 dated 27/07/2020 Valid till 30/9/2021 Copy of the same is enclosed as Annexure- <b>III</b>  We have also obtained Aravali NOC.
2.	The approval of the Competent Authority shall be obtained for structural safety of buildings due to earthquakes, adequacy of firefighting equipment etc as per National Building Code including protection measures from lightning etc.	The approval for the structural safety of buildings due to earthquakes, adequacy of firefighting equipment, etc as per the National Building Code including protection measures from lightning, etc. will be obtained.
3.	The project proponent shall obtain forest clearance under the provisions of Forest (Conservation) Act, 1980, in case of the	Forest NOC has been obtained from dated 017.05.2017 No diversion of forest land involved in this project.

	diversion of forest land for non-forest purpose involved in the project.	
4.	The project proponent shall obtain clearance from the National Board for Wildlife, if applicable.	NBWL clearance is not applicable for this project.
5.	The project proponent shall obtain Consent to Establish / Operate under the provisions of Air (Prevention & Control of Pollution) Act, 1981 and the Water (Prevention & Control of Pollution) Act, 1974 from the concerned State Pollution Control Board/ Committee.	We have obtained Consent To Establish from HSPCB vide Consent No 313099719GUNOCTE6992359 dated 5/12/2019 Valid till 26/9/2026 Copy of the same is enclosed as Annexure- <b>II and</b> Consent to Operate from HSPCB vide Consent No .313099720GUNOCTO7813399 dated 27/07/2020 Valid till 30/9/2021.Copy of the same is enclosed as Annexure- <b>III</b>
6.	The project proponent shall obtain the necessary permission for the drawl of groundwater/surface water required for the project from the competent authority.	2 Number borewell exists at the premises
7.	A certificate of adequacy of available power from the agency supplying power to the project along with the load allowed for the project should be obtained.	We have obtained Power assurance from DHBVN
8.	All other statutory clearances such as the approvals for storage of diesel from Chief Controller of Explosives, Fire Department, Civil Aviation Department shall be obtained. as applicable, by project proponents from the respective competent authorities.	We have obtained Water Assurance from HUDA.  Approved Building plan has been obtained. We have obtained Consent To Establish from HSPCB vide Consent No 313099719GUNOCTE6992359 dated 5/12/2019 Valid till 26/9/2026.Copy of the same is enclosed as Annexure- <b>II and</b>

		<p>Consent to Operate from HSPCB vide Consent No 313099720GUNOCT07813399 dated 27/07/2020 Valid till 30/9/2021..... .Copy of the same is enclosed as Annexure- III</p> <p>We have also obtained Aravali NOC.</p>
9.	The provisions of the Solid Waste Management Rules, 2016, e-Waste (Management) Rules, 2016, and the Plastics Waste Management Rules, 2016, shall be followed.	Noted. All applicable rules are followed as per provision of the Solid Waste Management Rules, 2016, e-Waste (Management) Rules, 2016, and the Plastics Waste Management Rules, 2016 in the operation part and the same has been followed after the expansion.
10.	The project proponent shall strictly follow the ECBC/ECBC-R prescribed by Bureau of Energy Efficiency, Ministry of Power strictly.	We have complied with all ECBC norms and will use a non-conventional energy System.
<b>II. Air quality monitoring and preservation</b>		
1.	A management plan shall be drawn up and implemented to contain the current exceedance in ambient air quality at the site	Management plan will be drawn to check current exceedance in ambient air quality at the site.
2.	The project proponent shall install a system to carryout Ambient Air Quality monitoring for common/criterion parameters relevant to the main pollutants released (e.g. PM10 and PM2.5) covering upwind and downwind directions during the construction period.	Ambient Air Quality monitoring are regularly monitored from an upwind and downwind direction during the construction period and copy of monitoring report is also send to MOEF and other concern department. Copy of Monitoring report is enclosed as <b>Annexure-VII</b>

4.	<p>Diesel power generating sets proposed as source of backup power should be of enclosed type and conform to rules made under the Environment (Protection) Act, 1986. The height of stack of DG sets should be equal to the height needed for the combined capacity of all proposed DG sets. Use of low sulphur diesel. The location of the DG sets may be decided in consultation with State Pollution Control Board.</p>	<p>03 nos. of DG Sets i.e. 2 x 1250 KVA, 1 x500 KVA installed with acoustic enclosure adequate stack height. Diesel of low Sulphur are utilised for operation of DG Set.</p> <p>Noted.</p>
5.	<p>Construction site shall be adequately barricaded before the construction begins. Dust, smoke &amp; other air pollution prevention measures shall be provided for the building as well as the site. These measures shall include screens for the building under construction, continuous dust/ wind breaking walls all around the site (at least 3 meter height). Plastic/tarpaulin sheet covers shall be provided for vehicles bringing in sand, cement, murrum and other construction materials prone to causing dust pollution at the site as well as taking out debris from the site.</p>	<p>Barricading of 10 m height is provided at the site to control the dust emission at the site. Loose construction material like sand, cement, murrum and C&amp;D waste is covered with tarpaulin sheets and covered transportation of construction material is practised at site.</p>
6.	<p>Sand, murrum, loose soil, cement, stored on site shall be covered adequately so as to prevent dust pollution.</p>	<p>All loose soil or sand or Construction Demolition Waste or any other construction material that causes dust are kept under tarpaulin cover.</p>



7.	Wet jet shall be provided for grinding and stone cutting.	During grinding and stone cutting wet jet will be provided.
8.	Unpaved surfaces and loose soil shall be adequately sprinkled with water to suppress dust.	Water sprinkling and an anti smog gun is installed and practised at a regular interval of time for dust suppression.
9.	All construction and demolition debris shall be stored at the site (and not dumped on the roads or open spaces outside) before they are properly disposed. All demolition and construction waste shall be managed as per the provisions of the Construction and Demolition Waste Management Rules, 2016.	Construction and Demolition waste is stored at earmarked locations on site and kept covered with tarpaulin sheets. All construction debris is disposed off as per the guidelines of the Construction and Demolition Waste Rules, 2016.
10.	The diesel generator sets to be used during construction phase shall be low sulphur diesel type and shall conform to rules made under the Environment (Protection) Act, 1986.	Low Sulphur diesel type fuel will be used for operation of DG Set during the construction phase which will conform to Environment (Protection) Act,1986.
11.	The gaseous emissions from DG set shall be dispersed through adequate stack height as per CPCB standards. Acoustic enclosure shall be provided to the DG sets to mitigate the noise pollution. Low sulphur diesel shall be used. The location of the DG set and exhaust pipe height shall be as per the provisions of the Central Pollution Control Board (CPCB) norms.	Adequate DG Set stack height has been provided to all 3 D.G sets installed at the premises as per CPCB standards, with an acoustic enclosure to mitigate the noise pollution. Low Sulphur diesel fuel is used for operation of DG Set which conform to CPCB norms. Noted.

12.	For indoor air quality the ventilation provisions as per National Building Code of India.	Provision of ventilation for indoor air quality is provided as per National Building Code of India.
<b>III. Water quality monitoring and preservation</b>		
1.	The natural drain system should be maintained for ensuring unrestricted flow of water. No construction shall be allowed to obstruct the natural drainage through the site, on wetland and water bodies. Check dams, bio-swales, landscape, and other sustainable urban drainage systems (SUDS) are allowed for maintaining the drainage pattern and to harvest rain water.	Natural drainage systems will be maintained to the extent possible. 6 Nos. Rainwater harvesting pits are proposed to recharge the rain water into the ground out of which 5 are installed and one is under construction.
2.	Buildings shall be designed to follow the natural topography as much as possible. Minimum cutting and filling should be done.	Noted.
3	Total fresh water use shall not exceed the proposed requirement as provided in the project details	Noted, Total freshwater use is not to exceed the proposed requirement in the project details.
4.	The quantity of fresh water usage, water recycling and rainwater harvesting shall be measured and recorded to monitor the water balance as projected by the project proponent. The record shall be submitted to the Regional Office, MoEF&CC along with six monthly Monitoring reports.	Quality of fresh water usage, recycling water and rainwater harvesting is regularly recorded and submitted to the Regional Office, MoEF&CC along with six monthly Monitoring reports.

5	<p>A certificate shall be obtained from the local body supplying water, specifying the total annual water availability with the local authority, the quantity of water already committed, the quantity of water allotted to the project under consideration and the balance water available. This should be specified separately for ground water and surface water sources, ensuring that there is no impact on other users.</p>	<p>Noted, will complied</p>
6.	<p>At least 20% of the open spaces as required by the local building bye-laws shall be pervious. Use of Grass pavers, paver blocks with at least 50% opening, landscape etc. would be considered as previous surface.</p>	<p>20% of open space will be provided and use of previous Glass Pavers, paver blocks with 50% opening and landscape would be previous.</p>
7.	<p>Installation of dual pipe plumbing for supplying fresh water for drinking, cooking and bathing etc and other for supply of recycled water for flushing, landscape irrigation, car washing, thermal cooling, conditioning etc. shall be done.</p>	<p>Dual plumbing for a separate supply of fresh as well as treated water is provided in the operational phase and the same will be developed in the construction phase. The treated water is used for flushing, gardening, HVAC &amp; DG cooling etc</p>
8.	<p>Use of water saving devices/ fixtures (viz. low flow flushing systems; use of low flow faucets tap aerators etc) for water conservation shall be incorporated in the building plan.</p>	<p>Water saving devices like low flow flush, water taps, faucets, aerator taps are provided in the Operational part and the same will also be provided in the construction part.</p>

9	Separation of grey and black water should be done by the use of dual plumbing system. In case of single stack system separate recirculation lines for flushing by giving dual plumbing system be done.	Dual plumbing for a separate supply of fresh as well as treated water is provided in the operational phase and the same will be developed in the construction phase. The treated water is used for flushing, gardening, HVAC & DG cooling etc
10.	Water demand during construction should be reduced by use of pre-mixed concrete, curing agents and other best practices referred.	RMC and other curing agents are used to minimise the water demand for construction purposes.
11	The local bye-law provisions on rain water harvesting should be followed . If local bye-law provision is not available, adequate provision for storage and recharge should be followed as per the Ministry of Urban Development Model Building Byelaws, 2016. Rain water harvesting recharge pits/storage tanks shall be provided for ground water recharging as per the CGWB norms	6 Nos. Rainwater harvesting pits are proposed to recharge the rain water into the ground. Out of 6NO. 5 are installed and one is under construction.
12.	A rain water harvesting plan needs to be designed where the recharge bores of minimum one recharge bore per 5,000 square meters of built up area and storage capacity of minimum one day of total fresh water requirement shall be provided. In areas where ground water recharge is not feasible, the rain water should be harvested and stored for reuse. The ground water shall not be withdrawn	6 Nos. Rainwater harvesting pits are proposed to recharge the rain water into the ground.Out of 6 Nos 5 are installed and one is under construction.  No ground water is used during the construction phase of the project; only STP treated water is used for the construction purpose. Formal approval from the Ground Water Authority for ground water extraction is obtained

	without approval from the Competent Authority.	
13.	All recharge should be limited to shallow aquifer.	Noted.
14.	No ground water shall be used during the construction phase of the project.	2 Number of borewells that exist at the premises for ground water extraction has been proposed for construction as well as the operational phase of the project. For construction purposes STP treated water is used which are supplied by tankers.
15.	Any ground water dewatering should be properly managed and shall conform to the approvals and the guidelines of the CGWA in the matter. Formal approval shall be taken from the CGWA for any ground water abstraction or dewatering.	No dewatering has been proposed.
16.	The quantity of fresh water usage, water recycling and rainwater harvesting shall be measured and recorded to monitor the water balance as projected by the project proponent. The record shall be submitted to the Regional Office, MoEF&CC along with six monthly Monitoring reports.	Quantity of fresh water usage, recycling water and rainwater harvesting are recorded regularly and submitted to the Regional Office, MoEF&CC along with six monthly Monitoring reports.

17	Sewage shall be treated in the STP with tertiary treatment. The treated effluent from STP shall be recycled/re-used for flushing, AC make up water and gardening. As proposed, no treated water shall be disposed in to municipal drain.	STP of total Capacity 325 KLD has been installed to treat waste water from the Hospital and ETP 25 KLD installed to treat Effluent from the lab.Treated water is used in Gardening and Cleaning purpose and excess treated water is disposed out through Sewer line . A STP of 400 KLD is also installed in Tower II and the same is not in operation.
18.	No sewage or untreated effluent water would be discharged through storm water drains.	Noted and comply.
19.	Onsite sewage treatment of capacity of treating 100% waste water to be installed. The installation of the Sewage Treatment Plant (STP) shall be certified by an independent expert and a report in this regard shall be submitted to the Ministry before the project is commissioned for operation. Treated waste water shall be reused on site for landscape, flushing, cooling tower, and other end-uses. Excess treated water shall be discharged as per statutory norms notified by Ministry of Environment, Forest and Climate Change. Natural treatment systems shall be promoted.	STP of total Capacity 325 KLD has been installed to treat waste water from the Hospital and ETP 25 KLD installed to treat Effluent from the lab.Treated water is used in Gardening and Cleaning purpose and excess treated water is disposed out through Sewer line . Permission for the same is obtained .  Discharge standards are also maintained before the disposal into the sewer. Noted. A STP of 400 KLD is also installed in Tower II and the same is not in operation. The adequacy report of STP will be submitted after the STP will be in operation. discharge standards shall be maintained. Noted.

20.	Periodical monitoring of water quality of treated sewage shall be conducted. Necessary measures should be made to mitigate the odour problem from STP.	Six Monthly monitoring of treated water has been conducted on a regular basis. Copy of the same is enclosed as <b>Annexure-VII</b> Necessary measures are also undertaken for odour problems from the STP.
21.	Sludge from the onsite sewage treatment, including septic tanks, shall be collected, conveyed and disposed as per the Ministry of Urban Development. Central Public Health and Environmental Engineering Organization (CPHEEO) Manual on Sewerage and Sewage Treatment Systems, 2013.	Sludge from STP is used as manure in gardening. And ETP sludge is disposed off through Authorised

#### IV. Noise monitoring and prevention

1.	Ambient noise levels shall conform to residential area/commercial area/industrial area/silence zone both during day and night as per Noise Pollution (Control and Regulation) Rules, 2000. Incremental pollution loads on the ambient air and noise quality shall be closely monitored during construction phase. Adequate measures shall be made to reduce ambient air and noise level during construction phase, so as to conform to the stipulated standards by CPCB / SPCB.	Ambient noise level is maintained during day and night as per Noise Pollution (Control and Regulation) Rules, 2000 Incremental pollution load is monitored closely during the construction phase and the operation phase of the project. Copy of Monitoring report is enclosed as <b>Annexure-VII</b> Necessary measures will be undertaken to control the air and noise emissions.
2.	Noise level survey shall be carried as per the prescribed guidelines and report in this regard shall be submitted to Regional	Noise level monitoring is carried out on a six-monthly basis and a report is submitted to the concerned department.

	Officer of the Ministry as a part of six-monthly compliance report.	
3.	Acoustic enclosures for DG sets, noise barriers for ground-run bays. ear plugs for operating personnel shall be implemented as mitigation measures for noise impact due to ground sources.	Acoustic enclosure with adequate stack height for DG Set is provided and proper safety equipment are provided to the operating personnel.
<b>V. Energy Conservation measures</b>		
1.	Compliance with the Energy Conservation Building Code (ECBC) of Bureau of Energy Efficiency shall be ensured_ Buildings in the States which have notified their own ECBC, shall comply with the State ECBC.	The project are comply with ECBC norms and will use non conventional energy system.
2.	Outdoor and common area lighting shall, be LED.	LEDs will be used in guest rooms, common areas and parking.
3.	Concept of passive solar design that minimize energy consumption in buildings by using design elements, such as building orientation, landscaping, efficient building envelope, appropriate fenestration, increased day lighting design and thermal mass etc. shall be incorporated in the building design. Wall, window, and roof u-values shall be as per ECBC specifications.	Noted and will be compiled.
4.	Energy conservation measures like installation of CFLs/ LED for the lighting the area outside the building should be integral part of the project design and	LED lights only for common areas like corridors, lift, and lobby will be provided. Energy Efficient LEDs will be used.



	should be in place before project commissioning.	Used LED will be disposed off/sent for recycling as per the prevailing guidelines.
5.	Solar, wind or other Renewable Energy shall be installed to meet electricity generation equivalent to 1% of the demand load or as per the state level/ local building bye-laws requirement, whichever is higher.	Solar and other renewable sources will be installed to meet at least 1% of the demand load.
6.	Solar power shall be used for lighting in the apartment to reduce the power load on grid. Separate electric meter shall be installed for solar power. Solar water heating shall be provided to meet 20% of the hot water demand of the commercial and institutional building or as per the requirement of the local building bye-laws, whichever is higher. Residential buildings are also recommended to meet its hot water demand from solar water heaters, as far as possible.	Solar PV Generation will be provided to meet the part of the street lighting. External street lighting will be provided by a standalone solar panel. Solar Water Heater will be used to meet 20 % of the hot water requirements of the project. Separate electric metre will be installed for solar power.

## **VI. Waste Management**

1.	A certificate from the competent authority handling municipal solid wastes, indicating the existing civic capacities of handling and their adequacy to cater to the M.S.W. generated from project shall be obtained.	For solid waste is disposed off by giving it to the authorised vendor.
2.	Disposal of muck during construction phase shall not create any adverse effect	The debris of construction and demolition material will sent to the authorised C&D waste management site.

	on the neighbouring communities and be disposed taking the necessary precautions for general safety and health aspects of people. only in approved sites with the approval of competent authority.	Proper safety and health aspects of people will be considered during disposal of C&D waste.
	Separate wet and dry bins must be provided in each unit and at the ground level for facilitating segregation of waste. Solid waste shall be segregated into wet garbage and inert materials.	Separate bin are provided at the premisses for collection of wet and dry waste
3.	Organic waste compost/ Vermiculture pit/ Organic Waste Converter within the premises with a minimum capacity of 0.3 kg /person/day must be installed.	Noted and Organic waste converter will be installed once the project is in operational phase.
4.	All non-biodegradable waste shall be handed over to authorised recyclers for which a written tie up must be done with the authorized recyclers.	Non-biodegradable waste is collected, stored and disposed-off by giving it to the approved vendor.
5.	Any hazardous waste generated during construction phase, shall be disposed off as per applicable rules and norms with necessary approvals of the State Pollution Control Board.	Used oil generated from the DG sets are kept in leak proof containers and sent to the approved recycler.
6.	Use of environment friendly materials in bricks, blocks and other construction materials, shall be required for at least 20% of the construction material quantity. These include Fly Ash bricks, hollow bricks, AACs, Fly Ash Lime Gypsum blocks,	Noted and environmentally friendly materials are used during construction.

	Compressed earth blocks. and other environment friendly materials.	
7.	Fly ash should be used as building material in the construction as per the provision of Fly Ash Notification of September, 1999 and amended as on 27.08.2003 and 25.01.2016. Ready mixed concrete must be used in building construction.	Fly ash material are utilized for construction as per the provision of Fly Ash Notification of September, 1999 and amended as on 27th August, 2003 and 25th January, 2016. Ready mixed concrete material are used.
8.	Any wastes from construction and demolition activities related thereto shall be managed so as to strictly conform to the Construction and Demolition Waste Management Rules, 2016.	All construction debris will be disposed off by giving it to the approved site and during disposal of the same Construction and Demolition Waste Management Rules, 2016 will be followed.
9.	Used CFLs and TFLs should be properly collected and disposed off/sent for recycling as per the prevailing guidelines/ rules of th-, regulatory authority to avoid mercury contamination.	Used LED lights are disposed off by giving it to the approved recycler as per the regulatory authority.
<b>VII. Green Cover</b>		
	No tree can be felled/transplant unless exigencies demand. Where absolutely necessary, tree felling shall be with prior permission from the concerned regulatory authority. Old trees should be retained based on girth and age regulations as may be prescribed by the Forest Department. Plantations to be ensured species (cut) to species (planted).	Noted

	<p>A minimum of 1 tree for every 80 sqm of land should be planted and maintained. The existing trees will be counted for this purpose. The landscape planning should include plantation of native species. The species with heavy foliage, broad leaves and wide canopy cover are desirable. Water intensive and/or invasive species should not be used for landscaping</p>	<p>Noted</p>
	<p>Where the trees need to be cut with prior permission from the concerned local Authority, compensatory plantation in the ratio of 1:10 (i.e. planting of 10 trees for every 1 tree that is cut) shall be done and maintained. Plantations to be ensured species (cut) to species (planted). Area for green belt development shall be provided as per the details provided in the project document.</p>	<p>Noted</p>
<p>1.</p>	<p>Topsoil should be stripped to a depth of 20 cm from the areas proposed for buildings, roads, paved areas, and external services. It should be stockpiled appropriately in designated areas and reapplied during plantation of the proposed vegetation on site.</p>	<p>The top soil stripped to a depth of 20 cm from the areas proposed for buildings, roads, paved areas, etc were stockpiled appropriately.</p>

**VIII Transport**

1.	<p>A comprehensive mobility plan, as per MoUD best practices guidelines (URDPFI), shall be prepared to include motorized, non-motorized, public, and private networks. Road should be designed with due consideration for environment, and safety of users. The road system can be designed with these basic criteria. a. Hierarchy of roads with proper segregation of vehicular and pedestrian traffic. b. Traffic calming measures. c. Proper design of entry and exit points. d. Parking norms as per local regulation.</p>	Noted and compiled.
2.	<p>Vehicles hired for bringing construction material to the site should be in good condition and should have a pollution check certificate and should conform to applicable air and noise emission standards be operated only during non-peak hours.</p>	<p>Vehicles hired for bringing construction material to the site are in good condition and have a valid pollution check certificate. Vehicles are allowed to enter during non-peak hours. Ambient air noise standards are maintained as per the norms.</p>
3.	<p>A detailed traffic management and traffic decongestion plan shall be drawn up to ensure that the current level of service of the roads within 5 kms radius of the project is maintained and improved upon after the implementation of the project. This plan should be based on cumulative impact of all development and increased habitation being carried out or proposed to be carried out by the project or other agencies in this 05 Kms radius of the site in different scenarios of space and time.</p>	<p>Traffic study has been conducted in the 05 Km and the same was already submitted to MoEFCC given in EMP.</p>

	Traffic management plan shall be duly validated and certified by the State Urban Development department and the P.W.D./competent authority for road augmentation and shall also have their consent to the implementation of components of the plan which involve the participation of these departments.	Noted
<b>IX. Human health issues</b>		
1.	All workers working at the construction site and involved in loading, unloading, carriage of construction material and construction debris or working in any area with dust pollution shall be provided with dust mask.	Respiratory masks are provided to the workers involved in loading, unloading, carriage of construction material and construction debris.
2.	For indoor air quality the ventilation provisions as per National Building Code of India.	Provision of Ventilation is provided for betterment of indoor air quality.
3.	Emergency preparedness plan based on the Hazard identification and Risk Assessment (HIRA) and Disaster Management Plan shall be implemented.	Noted and will be compiled.

4.	Provision shall be made for the housing of construction labour within the site with all necessary infrastructure and facilities such as fuel for cooking, mobile toilets, mobile STP, safe drinking water, medical health care, crèche etc. The housing may be in the form of temporary structures to be removed after the completion of the project.	Workers are not allowed to stay at the construction Site, for construction purposes all the workers hired were local so, no Shalters for labourers are provided at the site. Drinking water facilities , Sanitary facilities and mobile toilets are provided at the site.
5.	Occupational health surveillance of the workers will be done on a regular basis.	Health surveillance of the workers are carried out regularly.
6.	A First Aid Room shall be provided in the project both during construction and operations of the project.	A First Aid Room is provided in the project during construction, which will continue in the operation phase.

**X. Corporate Environment Responsibility**

	The project proponent shall comply with the provisions contained in this Ministry's OM vide F.No. 22-65/2017-IA.iii dated 1st May 2018, as applicable regarding Corporate Environment Responsibility	Noted and Complied
1.	The company shall have a well laid down environmental policy duly approved by the Board of Directors. The environmental policy should prescribe for standard operating procedures to have proper checks and balances and to bring into focus any infringements/deviation/violation of the	Environmental Policy are be submitted in the later stage of the project. Board resolution submitted with the EC application in MoEF.

	<p>environmental / forest / wildlife norms / conditions. The company shall have defined system of reporting infringements / deviation / violation of the environmental / forest / wildlife norms / conditions and / or shareholders / stakeholders. The copy of the board resolution in this regard shall be submitted to the MoEF&amp;CC as a part of six-monthly report.</p>	
2.	<p>A separate Environmental Cell both at the project and company headquarter level, with qualified personnel shall be set up under the control of senior Executive, who will directly report to the head of the organization.</p>	<p>The Environmental Cell is developed with qualified personnel.</p>
3.	<p>Action plan for implementing EMP and environmental conditions along with responsibility matrix of the company shall be prepared and shall be duly approved by competent authority. The year wise funds earmarked for environmental protection measures shall be kept in separate account and not to be diverted for any other purpose. Year wise progress of implementation of action plan shall be reported to the Ministry/Regional Office along with the Six Monthly Compliance Report.</p>	<p>Action plan will be developed for implementation of EMP conditions along its responsibility matrix at site. Separate funds will be allocated for expenditure of environmental protection measures and reports will be submitted to the Ministry/ Regional Office.</p>
<p><b>XI. Miscellaneous</b></p>		



1.	The project proponent shall prominently advertise it at least in two local newspapers of the District or State, of which one shall be in the vernacular language within seven days indicating that the project has been accorded environment clearance and the details of MoEF&CC/SEIAA website where it is displayed.	
2.	The copies of the environmental clearance shall be submitted by the project proponents to the Heads of local bodies, Panchayats and Municipal Bodies in addition to the relevant offices of the Government who in turn has to display the same for 30 days from the date of receipt.	Noted and Complied.
3.	The project proponent shall upload the status of compliance of the stipulated environment clearance conditions, including results of monitored data on their website and update the same on a half-yearly basis.	Noted. This is our first Six monthly compliance and we will upload it on our Company website along with monitoring report.
4.	The project proponent shall submit six-monthly reports on the status of the compliance of the stipulated environmental conditions on the website of the ministry of Environment, Forest and Climate Change at environment clearance portal.	We will submit six-monthly reports on the status of the compliance of the stipulated environmental conditions.

5.	The project proponent shall submit the environmental statement for each financial year in Form-V to the concerned State Pollution Control Board as prescribed under the Environment (Protection) Rules, 1986, as amended subsequently and put on the website of the company.	Environmental statements for each financial year in Form-V are regularly submitted to the concerned State Pollution Control Board as prescribed under the Environment (Protection) Rules, 1986, as amended subsequently and put on the website of the company.
6.	The project proponent shall inform the Regional Office as well as the Ministry, the date of financial closure and final approval of the project by the concerned authorities, commencing the land development work and start of production operation by the project.	Noted and the same will be complied.
7.	The project authorities must strictly adhere to the stipulations made by the State Pollution Control Board and the State Government.	Noted.
8	The project proponent shall abide by all the commitments and recommendations made in the EIA/EMP report, commitment made during Public Hearing and also that during their presentation to the Expert Appraisal Committee.	
9	No further expansion or modifications in the plant shall be carried out without prior approval of the Ministry of	If any further expansion or modification is to be carried out at the site, a proper approval from the Ministry of Environment, Forest and Climate Change (MoEF&CC) will be taken.

	Environment. Forest and Climate Change (MoEF&CC).	
10.	Concealing factual data or submission of false/fabricated data may result in revocation of this environmental clearance and attract action under the provisions of Environment (Protection) Act, 1986.	Noted.
11.	The Ministry may revoke or suspend the clearance, if implementation of any of the above conditions is not satisfactory.	Noted.
12.	The Ministry reserves the right to stipulate additional conditions if found necessary. The Company in a time bound manner shall implement these conditions.	noted.
13.	The Regional Office of this Ministry shall monitor compliance of the stipulated conditions. The project authorities should extend full cooperation to the officer (s) of the Regional Office by furnishing the requisite data / information/monitoring reports.	Full cooperation will be given to the officials from the regional office of MoEF&CC ,Chandigarh. Monitoring will be carried out regularly on a six-monthly basis.
14.	The above conditions shall be enforced, inter-alia under the provisions of the Water (Prevention & Control of Pollution) Act, 1974, the Air (Prevention & Control of Pollution) Act, 1981. the Environment (Protection) Act, 1986, Hazardous and Other Wastes (Management and	Noted.

	Transboundary Movement) Rules, 2016, and the Public Liability Insurance Act, 1991 along with their amendments and Rules and any other orders passed by the Hon'ble Supreme Court of India / High Courts and any other Court of Law relating to the subject matter.	
15.	Any appeal against this EC shall lie with the National Green Tribunal, if preferred, within a period of 30 days as prescribed under Section 16 of the National Green Tribunal Act, 2010.	Noted.

**ANNEXURE - I**  
**COPY OF ENVIRONMENTAL CLEARANCE**

**F. No. 23-279/2018-IA.III(V)**  
Government of India  
Ministry of Environment, Forest and Climate Change  
(Impact Assessment Division)

Indira Paryavaran Bhawan  
Jor Bagh Road, New Delhi - 3

**September 27, 2019**

To,

**M/s Artemis Medicare Services Ltd**  
Plot No. 14, Sector-20, Dwarka, New Delhi -110075  
E-Mail: [joginder@artemishospitals.com](mailto:joginder@artemishospitals.com)

**Subject: Expansion of Artemis Hospital located at Sector-51, Gurgaon, Haryana by M/s Artemis Medicare Services Ltd - Environmental Clearance - regarding.**

Sir,

This has reference to your proposal No. IA/HR/MIS/84185/2007 dated 01.11.2018 from M/s Artemis Medicare Services Ltd for Expansion of Artemis Hospital located at Sector-51, Gurgaon, Haryana, along with the application in prescribed format (Form-I), for consideration under the provisions of S.O. 804 (E) dated 14<sup>th</sup> March, 2017.

2. The said Notification provides for appraisal of projects for grant of terms of reference/environmental clearance, which have started the work on site, expanded the production beyond the limit of environmental clearance, or changed the product mix without obtaining prior environmental clearance under the EIA Notification, 2006.

3. The proposal for environmental clearance was considered by the Expert Appraisal Committee (EAC) for projects relating to violation of the EIA Notification, 2006, in terms of the provisions of the Ministry's Notification dated 14<sup>th</sup> March, 2017, in its 15<sup>th</sup> meeting held during 27-29 November, 2018 and 22<sup>nd</sup> meeting held during 21-22 May, 2019 in the Ministry. The details of the project are as follows:

- (i) The proposed project is an "Expansion of Artemis Hospital" at Sector-51, Gurugram, Haryana which is being developed by M/s Artemis Medicare Services Limited. The total plot area of the project site is 33,588.908 sqm having Built-up area after expansion of 67,444.652 sqm. The land has been allotted by HUDA to M/s Artemis Medicare Services Pvt Ltd by Memo No.- 83, dated 15.02.2006.
- (ii) The Project had already been granted the Environmental Clearance vide letter no. 21-292/2007-IA.III dated 19.07.2007 for plot area 33,958.90 sqm and built-up area of 27,354.0 sqm for development of hospital. Now, the hospital is operational.
- (iii) As per new planning of expansion, total built-up area will be 67,444.652 sqm for which PP had earlier applied for Environment clearance for expansion of the project in SEIAA, Haryana on 05.04.2017. Meanwhile, the project proponent had already started construction before the grant of Environmental Clearance for expansion, hence violating EIA Notification 2006.
- (iv) As per notification no. S.O.804(E) dated 14.03.2017 & notification vide S.O. 1030(E) dated 14.03.2017 dated 8<sup>th</sup> March 2018, project proponent had applied for grant of Terms of Reference under violation cases & category 'B'. The Terms of Reference (ToR) was granted by SEIAA, Haryana vide letter no. SEIAA/HR/2018/829 on 26.07.2018.



(v) Since, the tenure of Haryana SEIAA/SEAC has completed, the PP has again submitted the EIA Report in MoEF&CC on 01.11.2018. The case was appraised in the 15<sup>th</sup> EAC meeting for the proposal involving violation of EIA Notification, 2006 on 29.11.2018. Few queries were raised, the reply of which was submitted to MoEF&CC on 15.04.2019. Now, the case was enlisted in the 22<sup>nd</sup> EAC Meeting for the violation of EIA Notification, 2006 held on 21.05.2019.

(vi) The construction status is given below: -

S. No.	DESCRIPTION	TOWER II	TOWER III
1.	Excavation work	Completed	Not yet done
2.	Foundation	Completed	Not yet done
3.	RCC work	Completed	Not yet done
4.	Masonry work	40%	Not yet done
5.	Roofs	95%	Not yet done
6.	Timber work (Door and windows)	Not yet done	Not yet done
7.	Piping of water & sewage	15%	Not yet done
8.	Drainage System	Not yet done	Not yet done
9.	Sewage Treatment Plant	Not yet done	Not yet done
10.	Rainwater Harvesting	Not yet done	Not yet done
11.	Plantation	Not yet done	Not yet done
12.	Roads	Not yet done	Not yet done
13.	Installation of Electrical & mechanical items & fire	Not yet done	Not yet done
14.	Plastering	25%	Not yet done
15.	Bathroom fitting & plumbing work	7%	Not yet done
16.	Flooring	Not yet done	Not yet done
17.	Painting and exteriors	Not yet done	Not yet done

(vii) The total plot area is 33,588.908 sqm, FAR area after expansion will be 49,913.526 sqm and total Built-up area of hospital after expansion will be 67,444.652 sqm. The project comprises of Five Towers. Maximum height of the building is 27.5 m.

(viii) During construction phase, total water requirement is expected to be 24 KLD which has been met by Tanker Supply. During the construction phase, temporary sanitary toilets have been provided during peak labor force. 10 KLD of waste water generated from the construction site will be disposed off to septic tanks.

(ix) Total water requirement of the existing operational part of the hospital is 483 KLD. Fresh water requirement is 333 KLD which is met by HUDA Supply/Borewell and same shall be followed for expansion part. Wastewater generation from the complex is 294 KLD which is being treated in STP & ETP of capacity 325 KLD and 25 KLD respectively. Total water requirement after expansion will be estimated to be 1104 KLD for the project & will be met by HUDA supply/Borewell and waste water generation will be 637 KLD generated from domestic use and Lab, which will be treated in STP of 325 & 400 KLD and ETP of 25 KLD and 45 KLD. Treated water of 514 KLD will be reused for flushing, gardening, DG Cooling & filter backwash. 38 KLD of treated water shall be discharged to sewer. 53 KLD of excess treated water from ETP shall be discharged to sewer line.

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- (x) The Solid waste generation in the existing complex is 493 Kg/day. Biodegradable waste is sent to approved recycler who is responsible for final disposal. The Bio Medical waste being generated from the complex is given to approved recycler- M/s Vulcan Waste Management Pvt. Ltd and used oil of 27 lit/month being collected at isolated place and given to approved vendor of CPCB as per Hazardous & other Wastes (Management and Transboundary Movement) Rules, 2016.
- (xi) After operation of the complex the total solid waste generation after expansion will be approximately 1930 Kg/day Out of which approx. 1351 Kg/day of Bio-Degradable waste shall be treated in OWC and convert the waste into manure. The compost shall be used in green area within the project premises & unused manure will be given to nearby nursery. 483 Kg/day of recyclable Waste & 96 Kg/day of plastic waste will be given to Authorized Vendor as per Plastic Waste Management Rules, 2016.
- (xii) Biomedical waste generated from hospital will be 298 Kg/day which shall be handed over to authorized processor. Agreement with M/s Vulcan Waste Management Pvt. Ltd. has already been done for treatment and disposal of biomedical waste as per Biomedical Waste Management Rules, 2018 and used oil will be 77lit/month which shall be stored in leak proof drums and shall be given to approved recycler as per the Hazardous & other Wastes (Management and Transboundary Movement) Rules, 2016. E-waste generated from hospital will be 1-2 Kg/month which shall be handed over to approved recycler as per E-Waste Management Rules, 2016.
- (xiii) The total power requirement during construction phase is being met by 2 x 125 kVA, 1 x 62.5 kVA & 1 x 40 kVA and total power requirement during operation phase is 4500 KW (existing: 3100 KW & Proposed: 1400 kW) and will be met from Uttar Haryana Bijli Vitran Nigam.
- (xiv) Rooftop rainwater of buildings will be collected in 6 RWH pits (Existing- 5 no. and Proposed - 1 no.) for harvesting.
- (xv) Parking facility for 668 ECS (Existing - 236 ECS and Proposed - 432 ECS) (four wheelers) is proposed to be provided against the requirement of 666 ECS.
- (xvi) Proposed energy saving measures would save about 1% of power.
- (xvii) It is not located within 10 km of Eco Sensitive areas. Hence, NBWL Clearance is not required.
- (xviii) No Forest Clearance is required.
- (xix) No Court case is pending against the project.
- (xx) Investment/Cost of the project is Rs. 399 Crore.
- (xxi) Employment potential: It will provide employment to 300-350 no of labor's during construction phase & 10963 number as IPD Beds, Day care Beds, Residential Service Quarters, In-patients, Residents & 2512 nos. as Staff & Employee. (Existing Population- 5569 no.)
- (xxii) Benefits of the project: Social Benefits, Environmental Benefits and Financial Benefits.

4. The said project/activity is covered under Category 'B' of item 8(a) of the schedule to the EIA Notification, 2006, and requires prior EC based on the appraisal by SEAC, Haryana. However, due to non-existence of SEIAA/SEAC in Haryana at that time, the proposal has appraised at Central level by Expert Appraisal Committee (EAC-Violation).

5. Terms of Reference (ToR) was granted by State Environment Impact Assessment Authority, Haryana vide letter No. SEIAA/HR/2018/829 dated 26.07.2018.

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6. The proposal for environmental clearance was considered by the Expert Appraisal Committee (EAC) for projects relating to violation of the EIA Notification, 2006, in terms of the provisions of the Ministry's Notification dated 14<sup>th</sup> March, 2017, in its 15<sup>th</sup> meeting held during 27-29 November, 2018 and 22<sup>nd</sup> meeting held during 21-22 May, 2019 in the Ministry. The committee found the EIA/EMP report satisfactory and in consonance with the ToR, and recommended the proposal for environmental clearance with certain conditions in terms of the provisions of the Ministry's Notification dated 14<sup>th</sup> March, 2017.

7. Based on recommendations of the EAC and finalization/approval of the bank guarantee for an amount of ₹3,60,90,000/- by the competent authority, towards Remediation Plan and Natural and Community Resource Augmentation Plan, the project proponent has submitted the desired bank guarantee with the Haryana State Pollution Control Board (HSPCB). The HSPCB vide letter No. HSPCB/EE/2019/501 dated 19.09.2019 has informed the Ministry regarding receipt of the bank guarantee dated 03.09.2019 which is valid up to 02.09.2024.

8. Considering the proposal submitted by the project proponent, recommendations of the EAC (Violation) and submission of the desired bank guarantee, the Ministry of Environment, Forest and Climate Change hereby accords environmental clearance to the project for Expansion of Artemis Hospital located at Sector-51, Gurgaon, Haryana by M/s Artemis Medicare Services Ltd, under the provisions of the Ministry's Notification dated 14<sup>th</sup> March, 2017, subject to the compliance of the following specific conditions in addition to all standard conditions applicable for such project:-

1. EAC recommended for an amount of ₹3,60,90,000/- towards Remediation plan and Natural and Community Resource Augmentation plan to be spend within a span of three years. The details are given below:

**a) Cost of Remediation Plan**

S. No.	Particular	Remediation Budget (Rs.)
1	Air Environment	a) Distribution of Wayu purifier @ ₹60,000 for 30 units = ₹18,00,000 b) Maintenance of Wayu Purifier for 3 years @ ₹1500/month = ₹16,20,000 c) Distribution of Sprinkler system <ul style="list-style-type: none"> <li>• Sprinkler @ ₹1000/per pc for 100 = ₹1,00,000</li> <li>• Twin Filtration system @ ₹15000/pc for 3 units = ₹45,000</li> <li>• Pump @ ₹10000/pc for 3 units = ₹30,000</li> <li>• Water Distributing Pipeline @ Rs 165/m for length of 3000 m = ₹4,95,000</li> </ul> d) Awareness Program for Health in Gurgaon Region = ₹12,50,000 e) Health check-up camp in nearby village = ₹15,00,000 f) Plantation and Maintenance of Plants in Nearby area road @ ₹1,500 for 1500 units = ₹22,50,000  <b>Total Cost contributed towards Air Environment = ₹90,90,000</b>
2.	Water Environment	a) Installation of Rain Water Harvesting Pits (Diameter 4 m & Depth- 4.5 m) in nearby village @ ₹3,00,000 per RWH pit (including raw material, labour, profit, construction, pipeline)

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		<p>for 20 units = ₹60,00,000</p> <p>b) Maintenance of Rainwater Harvesting Pit before monsoon and after monsoon for 3 year @ ₹5,000/year/RWH Pit for 20 units = ₹3,00,000</p> <p>c) Procurement of RO Plant(1000 LPH) @ ₹2,00,000 for 10 units = ₹20,00,000</p> <p>d) Awareness program on 5R (Refuse, Recycle, Reuse, Repurpose and Recycle) = ₹2,00,000</p> <p>e) Installation of RO plant @ ₹5,000 for 10 units = ₹50,000</p> <p>f) Maintenance of RO Plant for 3 years @ ₹10,000/ year/ RO for 10 units = ₹3,00,000</p> <p><b>Total Cost to be contributed towards Water Environment = ₹88,50,000</b></p>
3.	Waste Management	<p>a) Distribution of Organic Waste Converter in Nearby Panchayat @ ₹15,00,000 for 4 units = ₹60,00,000</p> <p><b>Total cost to be contributed towards Waste Management = ₹60,00,000</b></p>
4.	Noise Environment	<p>a) Distribution of PPE (Personal Protective Equipment) to labors @ ₹1,00,000/year for 3 years = ₹3,00,000</p> <p>b) Awareness program in nearby area for Noise @ ₹1,00,000/year for 3 years = ₹3,00,000</p> <p><b>Total cost to be contributed towards Noise Environment = ₹6,00,000</b></p>
5.	Land Environment/Biological Environment	<p>a) Development of Park (in Consideration with Panchayat, development of Panchayat Park) = ₹10,00,000</p> <p>b) Land reclamation of nearby area (Approx. 8194 sqm equivalent to ground coverage of super structure creates @ trenching ₹45.85/sqm; uprooting weed ₹2.9/sqm; uprooting vegetation ₹35.75/sqm; supply stacking of earth ₹332.55/sqm; supply manure ₹192.05/ sqm, grassing ₹10.4/ sqm, Bed preparation ₹130.25/ sqm, tree guard ₹ 259/sqm, filling earth and sludge ₹10.7/ sqm, anti-terminate treatment ₹47.6/tree, plant of 500 trees @ 1500/tree other charges) = ₹20,00,000/-</p> <p><b>Total cost to be contributed towards Land Environment/Biological Environment = ₹30,00,000</b></p>

**b) Year wise break up of Remediation Plan**

S. No.	Activity	YEAR-WISE IMPLEMENTATION BUDGET (₹)			Total Budget (₹)
		1 <sup>st</sup> Year	2 <sup>nd</sup> Year	3 <sup>rd</sup> Year	
1.	Air Environment	₹34,76,667	₹ 28,06,667	₹28,06,667	₹90,90,000
2.	Water Environment	₹30,70,000	₹28,65,000	₹27,65,000	₹88,50,000
5.	Waste Management	₹30,00,000	₹15,00,000	₹15,00,000	₹60,00,000
4.	Noise Environment	₹2,00,000	₹2,00,000	₹2,00,000	₹6,00,000
3.	Land/ Biological Environment	₹20,00,000	₹ 10,00,000	₹ 0	₹30,00,000
<b>TOTAL BUDGET FOR REVISED REMEDIATION PLAN (₹)</b>					<b>₹2,75,40,000</b>

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c) Year wise breakup of Natural Resource and Community Welfare Augmentation Plan Budgetary Allocation

S. No.	Aspect	Activity	YEAR-WISE IMPLEMENTATION BUDGET (₹)			Total Budget (₹)
			1 <sup>st</sup> Year	2 <sup>nd</sup> Year	3 <sup>rd</sup> Year	
1.	Natural Resource Augmentation	Providing Solar Lighting in the village and School (50kW solar Panel installation); Supply of LED Bulbs	₹20,00,000	₹20,00,000	₹10,00,000	₹50,00,000
<b>TOTAL BUDGET FOR NATURAL RESOURCE AUGMENTATION PLAN (₹)</b>						<b>₹50,00,000</b>
1.	Community Welfare	Construction of sanitation facilities. (Provision of 16 number of toilets)	₹2,00,000	-	₹6,00,000	₹8,00,000
2.		Medical Check-up camp in nearby area (for labors) and basic medicine supplies for women	₹3,00,000	-	₹3,00,000	₹6,00,000
3.		Installation of 10 RO plants (Drinking Facility)	₹7,00,000	₹7,00,000	-	₹14,00,000
4.		Provision of 25 Computers in the schools @ ₹30,000 each	₹2,25,000	₹5,25,000	-	₹7,50,000
<b>TOTAL BUDGET FOR COMMUNITY WELFARE AUGMENTATION PLAN (₹)</b>						<b>₹35,50,000</b>

d) Summary

S. No.	PARTICULARS	PROPOSED BUDGET (₹)
1.	Remediation Plan	₹2,75,40,000
2.	Natural Resource Augmentation plan	₹ 50,00,000
3.	Community Resource Augmentation Plan	₹35,50,000
<b>TOTAL BUDGET FOR REMEDIATION, NATURAL &amp; COMMUNITY RESOURCE AUGMENTATION</b>		<b>₹3,60,90,000</b>

II. Total budgetary provision with respect to Remediation plan and Natural & Community Resource Augmentation plan is ₹3,60,90,000/-.

III. The project proponent has submitted bank guarantee of ₹3,60,90,000/- with HSPCB. The HSPCB vide letter No. HSPCB/EE/2019/501 dated 19.09.2019 has informed the Ministry regarding receipt of the bank guarantee dated 03.09.2019 which is valid up to 02.09.2024.

*S. K. Bose*

- IV. Remediation plan shall be completed in 3 years whereas bank guarantee shall be for 5 years. The bank guarantee shall be released after successful implementation of the EMP, followed by recommendations of the EAC and approval of the regulatory authority.
- V. Fund allocation for Corporate Environment Responsibility (CER) of ₹325.00 lakhs to be implemented.
- VI. Approval/permission of the CGWA/SGWA shall be obtained before drawing ground water for the project activities, as applicable. State Pollution Control Board (SPCB) concerned shall not issue Consent to Operate (CTO) till the project proponent obtains such permission.
- VII. Effective air pollution mitigation plan submitted to the Ministry shall be implemented in toto.
- VIII. Project proponent shall take necessary other clearances/permissions under various Acts and Rules if any, from the respective authorities / department.
- IX. PP shall implement RWH system as per the building code and guidelines.
- X. PP shall comply with the requirement of Green Belt (GB) guidelines of MoEFCC, apart from the committed GB during the meeting.
- XI. PP shall comply with ECBC of 2017 applicable for commercial buildings.
- XII. PP shall generate @1% of solar power/renewable energy, of the total demand.
- XIII. PP shall submit conservation plan for schedule 1 species duly approved by Chief wild life warden prior to grant of EC.
- XIV. Noise monitoring to be carried out before and after the noise barrier already erected.
- XV. All the vehicles for internal use in the hospital premises should be battery operated.

9. The grant of environmental clearance is subject to compliance of Standard EC Conditions as specified by the Ministry vide OM dated 4<sup>th</sup> January, 2019 for the said project/activity as per **Annexure**, and compliance of other general conditions, as under: -

- (i) The project authorities shall adhere to the stipulations made by the State Pollution Control Board, Central Pollution Control Board, State Government and any other statutory authority.
- (ii) No further expansion or modifications in the plant shall be carried out without prior approval of the Ministry of Environment, Forest and Climate Change. In case of deviations or alterations in the project proposal from those submitted to this Ministry for clearance, a fresh reference shall be made to the Ministry to assess the adequacy of conditions imposed and to add additional environmental protection measures required, if any.
- (iii) The locations of ambient air quality monitoring stations shall be decided in consultation with the State Pollution Control Board (SPCB) and it shall be ensured that at least one station each is installed in the upwind and downwind direction as well as where maximum ground level concentrations are anticipated.
- (iv) The National Ambient Air Quality Emission Standards issued by the Ministry vide G.S.R. No. 826(E) dated 16<sup>th</sup> November, 2009 shall be followed.
- (v) The overall noise levels in and around the plant area shall be kept well within the standards by providing noise control measures including acoustic hoods, silencers, enclosures etc. on all sources of noise generation. The ambient noise levels shall conform

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to the standards prescribed under Environment (Protection) Act, 1986 Rules, 1989 viz. 75 dBA (day time) and 70 dBA (night time).

- (vi) The Company shall harvest rainwater from the roof tops of the buildings and storm water drains to recharge the ground water and use the same water for the process activities of the project to conserve fresh water.
- (vii) Training shall be imparted to all employees on safety and health aspects of chemicals handling. Pre-employment and routine periodical medical examinations for all employees shall be undertaken on regular basis. Training to all employees on handling of chemicals shall be imparted.
- (viii) The company shall also comply with all the environmental protection measures and safeguards proposed in the documents submitted to the Ministry. All the recommendations made in the EIA/EMP in respect of environmental management, and risk mitigation measures relating to the project shall be implemented.
- (ix) The company shall undertake all relevant measures for improving the socio-economic conditions of the surrounding area. ESC activities shall be undertaken by involving local villages and administration.
- (x) The company shall undertake eco-developmental measures including community welfare measures in the project area for the overall improvement of the environment.
- (xi) A separate Environmental Management Cell equipped with full-fledged laboratory facilities shall be set up to carry out the Environmental Management and Monitoring functions.
- (xii) The company shall earmark sufficient funds towards capital cost and recurring cost per annum to implement the conditions stipulated by the Ministry of Environment, Forest and Climate Change as well as the State Government along with the implementation schedule for all the conditions stipulated herein. The funds so earmarked for environment management/ pollution control measures shall not be diverted for any other purpose.
- (xiii) A copy of the clearance letter shall be sent by the project proponent to concerned Panchayat, Zilla Parishad/Municipal Corporation, Urban local Body and the local NGO, if any, from whom suggestions/ representations, if any, were received while processing the proposal.
- (xiv) The project proponent shall also submit six monthly reports on the status of compliance of the stipulated Environmental Clearance conditions including results of monitored data (both in hard copies as well as by e-mail) to the respective Regional Office of MoEF&CC, the respective Zonal Office of CPCB and SPCB. A copy of Environmental Clearance and six monthly compliance status report shall be posted on the website of the company.
- (xv) The environmental statement for each financial year ending 31<sup>st</sup> March in Form-V as is mandated shall be submitted to the concerned State Pollution Control Board as prescribed under the Environment (Protection) Rules, 1986, as amended subsequently, shall also be put on the website of the company along with the status of compliance of environmental clearance conditions and shall also be sent to the respective Regional Offices of MoEF&CC by e-mail.
- (xvi) The project proponent shall inform the public that the project has been accorded environmental clearance by the Ministry and copies of the clearance letter are available with the SPCB/Committee and may also be seen at Website of the Ministry at <http://moef.nic.in>. This shall be advertised within seven days from the date of issue of the clearance letter, at least in two local newspapers that are widely circulated in the region of

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which one shall be in the vernacular language of the locality concerned and a copy of the same shall be forwarded to the concerned Regional Office of the Ministry.

(xvii) The project authorities shall inform the Regional Office as well as the Ministry, the date of financial closure and final approval of the project by the concerned authorities and the date of start of the project.

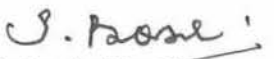
11. The Ministry reserves the right to stipulate additional conditions, if found necessary at subsequent stages and the project proponent shall implement all the said conditions in a time bound manner. The Ministry may revoke or suspend the environmental clearance, if implementation of any of the above conditions is not found satisfactory.

12. This issues with approval of the competent authority.

  
(Dr. Subrata Bose)  
Scientist 'F'

**Copy to:**

- 1) The Secretary, Directorate of Environment, Government of Haryana, SCO 1-2-3, Sector 17 D (Second Floor), Chandigarh.
- 2) The Addl. Principal Chief Conservator of Forests (Central), Ministry of Environment, Forests and Climate Change, Regional Office (NZ), Bay No.24-25, Sector 31-A, Dakshin Marg, Chandigarh-160030.
- 3) The Chairman, Central Pollution Control Board Parivesh Bhavan, CBD-cum-Office Complex, East Arjun Nagar, New Delhi - 110 032.
- 4) The Member Secretary, Haryana Pollution Control Board, C-11, Sector-6, Panchkula, Haryana 134109.
- 5) Monitoring Cell, MoEF&CC, Indira Paryavaran Bhavan, New Delhi.
- 6) Guard File/ Record File/ Notice Board.
- 7) MoEF&CC website.

  
(Dr. Subrata Bose)  
Scientist 'F'

**F. No. 22-34/2018-IA.III**  
Government of India  
Ministry of Environment, Forest and Climate Change  
(Impact Assessment Division)

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Indira Paryavaran Bhawan  
Jor Bagh Road, Aliganj,  
New Delhi – 110003

E-mail: sharath.kr@gov.in  
Tel: 011-24695319

Dated: 4<sup>th</sup> January, 2019

**OFFICE MEMORANDUM**

**Sub.: Standardization of Environment Clearance conditions – reg.**

The Ministry of Environment, Forest and Climate Change has notified the Environmental Impact Assessment (EIA) Notification, 2006 under the provisions of the Environment (Protection) Act, 1986, which regulates development and their expansion/modernization of 39 sectors/activities listed in the Schedule to the EIA Notification, 2006. There are two Category of projects viz. Category 'A' projects that are handled at the level of MoEF&CC and Category 'B' projects that are handled by the respective State Environment Impact Assessment Authority (SEIAA) following the procedure prescribed under the EIA Notification, 2006.

2. All projects or activities included as Category 'A' in the Schedule, including expansion and modernization of existing projects or activities and change in product mix, shall require prior environmental clearance from the Central Government in the Ministry of Environment and Forest and Climate Change (MoEF&CC) on the recommendations of an Expert Appraisal Committee (EAC) constituted by the Central Government for the purposes of this notification.

3. The Standard Environmental Clearance conditions have been prepared for expediting the process of Environmental Clearance without compromising environmental norms and the rigor of environment impact assessment.


4. The standard Environment Clearance conditions shall be considered by the concerned EAC with due diligence while recommending the Environmental Clearance. The expert appraisal committee can modify, prescribe additional conditions based on the project specific requirements.

5. The recommended conditions by the EAC shall be brought in the minutes of the meeting of the EAC.

6. The standard Environment Clearance conditions are herewith issued for the following sectors:

S.No.	Sector	Project / Activity
I.	Infrastructure	7(a) Airports 7(d) Common hazardous waste treatment, storage and disposal facilities (TSDFs) 7(da) Bio-medical waste treatment facility 7(e) Port, Harbour, Break water and Dredging 7(g) Aerial Ropeways 7(h) Common Effluent Treatment Plants 7(i) Common Municipal Solid Waste Management Facility
II.	Building/construction Projects, Area Development Projects	8 (a) Building and construction projects 8(b) Township and Area Development Projects.

7. This issues with the approval of competent authority.

  
(Sharath Kumar Pallerla)  
Director (IA-III-Policy)

To

1. Chairman, Central Pollution Control Board (CPCB).
2. Chairman of all the Expert Appraisal Committees
3. Chairperson/Member Secretaries of all the SEIAAs/SEACs
4. All the Officers of I.A. Division
5. Chairpersons/Member Secretaries of all SPCBs/UTPCCs

**Copy for information to:**

1. PS to Hon'ble Minister for Environment, Forest and Climate Change
2. PS to Hon'ble MoS (EF&CC)
3. PPS to Secretary(EF&CC)
4. PPS to AS(AKJ) / AS (AKM)
5. PS to JS (RSP)/ JS(JT)/JS(GM)
6. Website, MoEF&CC
7. Guard file.



## **Standard EC Conditions for Project/Activity 8(a/b): Building and Construction projects / Townships and Area Development projects**

### **I. Statutory compliance:**

- i. The project proponent shall obtain all necessary clearance/ permission from all relevant agencies including town planning authority before commencement of work. All the construction shall be done in accordance with the local building byelaws.
- ii. The approval of the Competent Authority shall be obtained for structural safety of buildings due to earthquakes, adequacy of firefighting equipment etc as per National Building Code including protection measures from lightening etc.
- iii. The project proponent shall obtain forest clearance under the provisions of Forest (Conservation) Act, 1980, in case of the diversion of forest land for non-forest purpose involved in the project.
- iv. The project proponent shall obtain clearance from the National Board for Wildlife, if applicable.
- v. The project proponent shall obtain Consent to Establish / Operate under the provisions of Air (Prevention & Control of Pollution) Act, 1981 and the Water (Prevention & Control of Pollution) Act, 1974 from the concerned State Pollution Control Board/ Committee.
- vi. The project proponent shall obtain the necessary permission for drawl of ground water / surface water required for the project from the competent authority.
- vii. A certificate of adequacy of available power from the agency supplying power to the project along with the load allowed for the project should be obtained.
- viii. All other statutory clearances such as the approvals for storage of diesel from Chief Controller of Explosives, Fire Department, Civil Aviation Department shall be obtained, as applicable, by project proponents from the respective competent authorities.
- ix. The provisions of the Solid Waste (Management) Rules, 2016, e-Waste (Management) Rules, 2016, and the Plastics Waste (Management) Rules, 2016 shall be followed.

- x. The project proponent shall follow the ECBC/ECBC-R prescribed by Bureau of Energy Efficiency, Ministry of Power strictly.

## **II. Air quality monitoring and preservation**

- i. Notification GSR 94(E) dated 25.01.2018 of MoEF&CC regarding Mandatory Implementation of Dust Mitigation Measures for Construction and Demolition Activities for projects requiring Environmental Clearance shall be complied with.
- ii. A management plan shall be drawn up and implemented to contain the current exceedance in ambient air quality at the site.
- iii. The project proponent shall install system to carryout Ambient Air Quality monitoring for common/criterion parameters relevant to the main pollutants released (e.g. PM<sub>10</sub> and PM<sub>2.5</sub>) covering upwind and downwind directions during the construction period.
- iv. Diesel power generating sets proposed as source of backup power should be of enclosed type and conform to rules made under the Environment (Protection) Act, 1986. The height of stack of DG sets should be equal to the height needed for the combined capacity of all proposed DG sets. Use of low sulphur diesel. The location of the DG sets may be decided with in consultation with State Pollution Control Board.
- v. Construction site shall be adequately barricaded before the construction begins. Dust, smoke & other air pollution prevention measures shall be provided for the building as well as the site. These measures shall include screens for the building under construction, continuous dust/ wind breaking walls all around the site (at least 3 meter height). Plastic/tarpaulin sheet covers shall be provided for vehicles bringing in sand, cement, murrum and other construction materials prone to causing dust pollution at the site as well as taking out debris from the site.
- vi. Sand, murrum, loose soil, cement, stored on site shall be covered adequately so as to prevent dust pollution.
- vii. Wet jet shall be provided for grinding and stone cutting.
- viii. Unpaved surfaces and loose soil shall be adequately sprinkled with water to suppress dust.
- ix. All construction and demolition debris shall be stored at the site (and not dumped on the roads or open spaces outside) before they are properly disposed. All

demolition and construction waste shall be managed as per the provisions of the Construction and Demolition Waste Management Rules, 2016.

- x. The diesel generator sets to be used during construction phase shall be low sulphur diesel type and shall conform to Environmental (Protection) prescribed for air and noise emission standards.
- xi. The gaseous emissions from DG set shall be dispersed through adequate stack height as per CPCB standards. Acoustic enclosure shall be provided to the DG sets to mitigate the noise pollution. Low sulphur diesel shall be used. The location of the DG set and exhaust pipe height shall be as per the provisions of the Central Pollution Control Board (CPCB) norms.
- xii. For indoor air quality the ventilation provisions as per National Building Code of India.

### **III. Water quality monitoring and preservation**

- i. The natural drain system should be maintained for ensuring unrestricted flow of water. No construction shall be allowed to obstruct the natural drainage through the site, on wetland and water bodies. Check dams, bio-swales, landscape, and other sustainable urban drainage systems (SUDS) are allowed for maintaining the drainage pattern and to harvest rain water.
- ii. Buildings shall be designed to follow the natural topography as much as possible. Minimum cutting and filling should be done.
- iii. Total fresh water use shall not exceed the proposed requirement as provided in the project details.
- iv. The quantity of fresh water usage, water recycling and rainwater harvesting shall be measured and recorded to monitor the water balance as projected by the project proponent. The record shall be submitted to the Regional Office, MoEF&CC along with six monthly Monitoring reports.
- v. A certificate shall be obtained from the local body supplying water, specifying the total annual water availability with the local authority, the quantity of water already committed, the quantity of water allotted to the project under consideration and the balance water available. This should be specified separately for ground water and surface water sources, ensuring that there is no impact on other users.

- vi. At least 20% of the open spaces as required by the local building bye-laws shall be pervious. Use of Grass pavers, paver blocks with at least 50% opening, landscape etc. would be considered as pervious surface.
- vii. Installation of dual pipe plumbing for supplying fresh water for drinking, cooking and bathing etc and other for supply of recycled water for flushing, landscape irrigation, car washing, thermal cooling, conditioning etc. shall be done.
- viii. Use of water saving devices/ fixtures (viz. low flow flushing systems; use of low flow faucets tap aerators etc) for water conservation shall be incorporated in the building plan.
- ix. Separation of grey and black water should be done by the use of dual plumbing system. In case of single stack system separate recirculation lines for flushing by giving dual plumbing system be done.
- x. Water demand during construction should be reduced by use of pre-mixed concrete, curing agents and other best practices referred.
- xi. The local bye-law provisions on rain water harvesting should be followed. If local bye-law provision is not available, adequate provision for storage and recharge should be followed as per the Ministry of Urban Development Model Building Byelaws, 2016. Rain water harvesting recharge pits/storage tanks shall be provided for ground water recharging as per the CGWB norms.
- xii. A rain water harvesting plan needs to be designed where the recharge bores of minimum one recharge bore per 5,000 square meters of built up area and storage capacity of minimum one day of total fresh water requirement shall be provided. In areas where ground water recharge is not feasible, the rain water should be harvested and stored for reuse. The ground water shall not be withdrawn without approval from the Competent Authority.
- xiii. All recharge should be limited to shallow aquifer.
- xiv. No ground water shall be used during construction phase of the project.
- xv. Any ground water dewatering should be properly managed and shall conform to the approvals and the guidelines of the CGWA in the matter. Formal approval shall be taken from the CGWA for any ground water abstraction or dewatering.
- xvi. The quantity of fresh water usage, water recycling and rainwater harvesting shall be measured and recorded to monitor the water balance as projected by the

project proponent. The record shall be submitted to the Regional Office, MoEF&CC along with six monthly Monitoring reports.

- xvii. Sewage shall be treated in the STP with tertiary treatment. The treated effluent from STP shall be recycled/re-used for flushing, AC make up water and gardening. As proposed, no treated water shall be disposed in to municipal drain.
- xviii. No sewage or untreated effluent water would be discharged through storm water drains.
- xix. Onsite sewage treatment of capacity of treating 100% waste water to be installed. The installation of the Sewage Treatment Plant (STP) shall be certified by an independent expert and a report in this regard shall be submitted to the Ministry before the project is commissioned for operation. Treated waste water shall be reused on site for landscape, flushing, cooling tower, and other end-uses. Excess treated water shall be discharged as per statutory norms notified by Ministry of Environment, Forest and Climate Change. Natural treatment systems shall be promoted.
- xx. Periodical monitoring of water quality of treated sewage shall be conducted. Necessary measures should be made to mitigate the odour problem from STP.
- xxi. Sludge from the onsite sewage treatment, including septic tanks, shall be collected, conveyed and disposed as per the Ministry of Urban Development, Central Public Health and Environmental Engineering Organization (CPHEEO) Manual on Sewerage and Sewage Treatment Systems, 2013.

#### **IV. Noise monitoring and prevention**

- i. Ambient noise levels shall conform to residential area/commercial area/industrial area/silence zone both during day and night as per Noise Pollution (Control and Regulation) Rules, 2000. Incremental pollution loads on the ambient air and noise quality shall be closely monitored during construction phase. Adequate measures shall be made to reduce ambient air and noise level during construction phase, so as to conform to the stipulated standards by CPCB / SPCB.
- ii. Noise level survey shall be carried as per the prescribed guidelines and report in this regard shall be submitted to Regional Officer of the Ministry as a part of six-monthly compliance report.

- iii. Acoustic enclosures for DG sets, noise barriers for ground-run bays, ear plugs for operating personnel shall be implemented as mitigation measures for noise impact due to ground sources.

## **V. Energy Conservation measures**

- i. Compliance with the Energy Conservation Building Code (ECBC) of Bureau of Energy Efficiency shall be ensured. Buildings in the States which have notified their own ECBC, shall comply with the State ECBC.
- ii. Outdoor and common area lighting shall be LED.
- iii. Concept of passive solar design that minimize energy consumption in buildings by using design elements, such as building orientation, landscaping, efficient building envelope, appropriate fenestration, increased day lighting design and thermal mass etc. shall be incorporated in the building design. Wall, window, and roof u-values shall be as per ECBC specifications.
- iv. Energy conservation measures like installation of CFLs/ LED for the lighting the area outside the building should be integral part of the project design and should be in place before project commissioning.
- v. Solar, wind or other Renewable Energy shall be installed to meet electricity generation equivalent to 1% of the demand load or as per the state level/ local building bye-laws requirement, whichever is higher.
- vi. Solar power shall be used for lighting in the apartment to reduce the power load on grid. Separate electric meter shall be installed for solar power. Solar water heating shall be provided to meet 20% of the hot water demand of the commercial and institutional building or as per the requirement of the local building bye-laws, whichever is higher. Residential buildings are also recommended to meet its hot water demand from solar water heaters, as far as possible.

## **VI. Waste Management**

- i. A certificate from the competent authority handling municipal solid wastes, indicating the existing civic capacities of handling and their adequacy to cater to the M.S.W. generated from project shall be obtained.
- ii. Disposal of muck during construction phase shall not create any adverse effect on the neighboring communities and be disposed taking the necessary

precautions for general safety and health aspects of people, only in approved sites with the approval of competent authority.

- iii. Separate wet and dry bins must be provided in each unit and at the ground level for facilitating segregation of waste. Solid waste shall be segregated into wet garbage and inert materials.
- iv. Organic waste compost/ Vermiculture pit/ Organic Waste Converter within the premises with a minimum capacity of 0.3 kg /person/day must be installed.
- v. All non-biodegradable waste shall be handed over to authorized recyclers for which a written tie up must be done with the authorized recyclers.
- vi. Any hazardous waste generated during construction phase, shall be disposed off as per applicable rules and norms with necessary approvals of the State Pollution Control Board.
- vii. Use of environment friendly materials in bricks, blocks and other construction materials, shall be required for at least 20% of the construction material quantity. These include Fly Ash bricks, hollow bricks, AACs, Fly Ash Lime Gypsum blocks, Compressed earth blocks, and other environment friendly materials.
- viii. Fly ash should be used as building material in the construction as per the provision of Fly Ash Notification of September, 1999 and amended as on 27<sup>th</sup> August, 2003 and 25<sup>th</sup> January, 2016. Ready mixed concrete must be used in building construction.
- ix. Any wastes from construction and demolition activities related thereto shall be managed so as to strictly conform to the Construction and Demolition Waste Management Rules, 2016.
- x. Used CFLs and TFLs should be properly collected and disposed off/sent for recycling as per the prevailing guidelines/ rules of the regulatory authority to avoid mercury contamination.

## **VII. Green Cover**

- i. No tree can be felled/transplant unless exigencies demand. Where absolutely necessary, tree felling shall be with prior permission from the concerned regulatory authority. Old trees should be retained based on girth and age regulations as may be prescribed by the Forest Department. Plantations to be ensured species (cut) to species (planted).

- ii. A minimum of 1 tree for every 80 sqm of land should be planted and maintained. The existing trees will be counted for this purpose. The landscape planning should include plantation of native species. The species with heavy foliage, broad leaves and wide canopy cover are desirable. Water intensive and/or invasive species should not be used for landscaping.
- iii. Where the trees need to be cut with prior permission from the concerned local Authority, compensatory plantation in the ratio of 1:10 (i.e. planting of 10 trees for every 1 tree that is cut) shall be done and maintained. Plantations to be ensured species (cut) to species (planted). Area for green belt development shall be provided as per the details provided in the project document.
- iv. Topsoil should be stripped to a depth of 20 cm from the areas proposed for buildings, roads, paved areas, and external services. It should be stockpiled appropriately in designated areas and reapplied during plantation of the proposed vegetation on site.

#### **VIII. Transport**

- i. A comprehensive mobility plan, as per MoUD best practices guidelines (URDPFI), shall be prepared to include motorized, non-motorized, public, and private networks. Road should be designed with due consideration for environment, and safety of users. The road system can be designed with these basic criteria.
  - a. Hierarchy of roads with proper segregation of vehicular and pedestrian traffic.
  - b. Traffic calming measures.
  - c. Proper design of entry and exit points.
  - d. Parking norms as per local regulation.
- ii. Vehicles hired for bringing construction material to the site should be in good condition and should have a pollution check certificate and should conform to applicable air and noise emission standards be operated only during non-peak hours.
- iii. A detailed traffic management and traffic decongestion plan shall be drawn up to ensure that the current level of service of the roads within a 05 kms radius of the project is maintained and improved upon after the implementation of the project. This plan should be based on cumulative impact of all development and



increased habitation being carried out or proposed to be carried out by the project or other agencies in this 05 Kms radius of the site in different scenarios of space and time and the traffic management plan shall be duly validated and certified by the State Urban Development department and the P.W.D./ competent authority for road augmentation and shall also have their consent to the implementation of components of the plan which involve the participation of these departments.

#### **IX. Human health issues**

- i. All workers working at the construction site and involved in loading, unloading, carriage of construction material and construction debris or working in any area with dust pollution shall be provided with dust mask.
- ii. For indoor air quality the ventilation provisions as per National Building Code of India.
- iii. Emergency preparedness plan based on the Hazard identification and Risk Assessment (HIRA) and Disaster Management Plan shall be implemented.
- iv. Provision shall be made for the housing of construction labour within the site with all necessary infrastructure and facilities such as fuel for cooking, mobile toilets, mobile STP, safe drinking water, medical health care, crèche etc. The housing may be in the form of temporary structures to be removed after the completion of the project.
- v. Occupational health surveillance of the workers shall be done on a regular basis.
- vi. A First Aid Room shall be provided in the project both during construction and operations of the project.

#### **X. Corporate Environment Responsibility**

- i. The project proponent shall comply with the provisions contained in this Ministry's OM vide F.No. 22-65/2017-IA.III dated 1st May 2018, as applicable, regarding Corporate Environment Responsibility.
- ii. The company shall have a well laid down environmental policy duly approved by the Board of Directors. The environmental policy should prescribe for standard operating procedures to have proper checks and balances and to bring into focus any infringements/deviation/violation of the environmental / forest / wildlife norms / conditions. The company shall have defined system of reporting infringements / deviation / violation of the environmental / forest / wildlife norms / conditions and /

or shareholders / stake holders. The copy of the board resolution in this regard shall be submitted to the MoEF&CC as a part of six-monthly report.

- iii. A separate Environmental Cell both at the project and company head quarter level, with qualified personnel shall be set up under the control of senior Executive, who will directly to the head of the organization.
- iv. Action plan for implementing EMP and environmental conditions along with responsibility matrix of the company shall be prepared and shall be duly approved by competent authority. The year wise funds earmarked for environmental protection measures shall be kept in separate account and not to be diverted for any other purpose. Year wise progress of implementation of action plan shall be reported to the Ministry/Regional Office along with the Six Monthly Compliance Report.

#### **XI. Miscellaneous**

- i. The project proponent shall prominently advertise it at least in two local newspapers of the District or State, of which one shall be in the vernacular language within seven days indicating that the project has been accorded environment clearance and the details of MoEFCC/SEIAA website where it is displayed.
- ii. The copies of the environmental clearance shall be submitted by the project proponents to the Heads of local bodies, Panchayats and Municipal Bodies in addition to the relevant offices of the Government who in turn has to display the same for 30 days from the date of receipt.
- iii. The project proponent shall upload the status of compliance of the stipulated environment clearance conditions, including results of monitored data on their website and update the same on half-yearly basis.
- iv. The project proponent shall submit six-monthly reports on the status of the compliance of the stipulated environmental conditions on the website of the ministry of Environment, Forest and Climate Change at environment clearance portal.
- v. The project proponent shall submit the environmental statement for each financial year in Form-V to the concerned State Pollution Control Board as prescribed under the Environment (Protection) Rules, 1986, as amended subsequently and put on the website of the company.

- vi. The project proponent shall inform the Regional Office as well as the Ministry, the date of financial closure and final approval of the project by the concerned authorities, commencing the land development work and start of production operation by the project.
- vii. The project authorities must strictly adhere to the stipulations made by the State Pollution Control Board and the State Government.
- viii. The project proponent shall abide by all the commitments and recommendations made in the EIA/EMP report, commitment made during Public Hearing and also that during their presentation to the Expert Appraisal Committee.
- ix. No further expansion or modifications in the plant shall be carried out without prior approval of the Ministry of Environment, Forest and Climate Change (MoEF&CC).
- x. Concealing factual data or submission of false/fabricated data may result in revocation of this environmental clearance and attract action under the provisions of Environment (Protection) Act, 1986.
- xi. The Ministry may revoke or suspend the clearance, if implementation of any of the above conditions is not satisfactory.
- xii. The Ministry reserves the right to stipulate additional conditions if found necessary. The Company in a time bound manner shall implement these conditions.
- xiii. The Regional Office of this Ministry shall monitor compliance of the stipulated conditions. The project authorities should extend full cooperation to the officer (s) of the Regional Office by furnishing the requisite data / information/monitoring reports.
- xiv. The above conditions shall be enforced, inter-alia under the provisions of the Water (Prevention & Control of Pollution) Act, 1974, the Air (Prevention & Control of Pollution) Act, 1981, the Environment (Protection) Act, 1986, Hazardous and Other Wastes (Management and Transboundary Movement) Rules, 2016 and the Public Liability Insurance Act, 1991 along with their amendments and Rules and any other orders passed by the Hon'ble Supreme Court of India / High Courts and any other Court of Law relating to the subject matter.
- xv. Any appeal against this EC shall lie with the National Green Tribunal, if preferred, within a period of 30 days as prescribed under Section 16 of the National Green Tribunal Act, 2010.

F. No. 23-279/2018-IA-III(V)  
Government of India  
Ministry of Environment, Forest and Climate Change  
(Impact Assessment Division)

Indira Paryavaran Bhawan  
Jor Bagh Road, New Delhi - 3

Date: 27<sup>th</sup> August, 2019

To,

**The Member Secretary,**  
Haryana Pollution Control Board,  
C-11, Sector-6, Panchkula - 134109, Haryana

**Sub: Expansion of Artemis Hospital located at Sector-51, Gurgaon, Haryana by  
M/s Artemis Medicare Services Ltd - Submission of Bank Guarantee - reg.**

Sir,

This has reference to proposal No. IA/HR/MIS/84185/2007 dated 01.11.2018 from M/s Artemis Medicare Services Ltd for Expansion of Artemis Hospital located at Sector-51, Gurgaon, Haryana, along with the application in prescribed format (Form-I), for consideration under the provisions of S.O. 804 (E) dated 14<sup>th</sup> March, 2017.

2. The Ministry has issued a Notification vide S.O.804 (E) dated 14<sup>th</sup> March, 2017 for appraisal of projects for grant of terms of reference/environmental clearance, which have started the work on site, expanded the production beyond the limit of environmental clearance, or changed the product mix without obtaining prior environmental clearance under the EIA Notification, 2006.

3. As per the above said Notification, in cases of violation, action is to be taken against the project proponent by the respective State Government or the State Pollution Control Board under the provisions of the Environment (Protection) Act, 1986 and further, no consent to operate or occupancy certificate to be issued till the project is granted environmental clearance.

4. The said project/activity is covered under Category 'B' of item 8(a) of the schedule to the EIA Notification, 2006, and requires prior EC based on the appraisal by SEAC, Haryana. However, due to non-existence of SEIAA/SEAC in Haryana, the proposal is appraised at Central level by Expert Appraisal Committee (EAC-Violation).

5. Terms of Reference (ToR) was granted by State Environment Impact Assessment Authority, vide Memo No. SEIAA/HR/2018/829 dated 26.07.2018.

6. The proposal for environmental clearance was considered by the Expert Appraisal Committee (EAC) for projects relating to violation of the EIA Notification, 2006, in terms of the provisions of the Ministry's Notification dated 14<sup>th</sup> March, 2017, in its 15<sup>th</sup> meeting held during 27-29 November, 2018 and 22<sup>nd</sup> meeting held during 21-22 May, 2019 in the Ministry. The Committee has recommended the proposal for grant of

*J. Rose*

Issued  
on 27/8/19

environmental clearance subject to compliance of certain conditions, including the following:

- I. Total budgetary provision with respect to Remediation plan and Natural & Community Resource Augmentation plan is Rs. Rs. 3,60,90,000/-.
- II. Therefore, project proponent shall be required to submit a bank guarantee of an amount of Rs. 3,60,90,000/- towards Remediation plan and Natural and Community Resource Augmentation plan with the SPCB prior to the grant of EC.
- III. Remediation plan shall be completed in 3 years whereas bank guarantee shall be for 5 years. The bank guarantee shall be released after successful implementation of the EMP, followed by recommendations of the EAC and approval of the regulatory authority.
- IV. Fund allocation for Corporate Environment Responsibility (CER) of Rs. 325/- lakhs to be implemented.
- V. Approval/permission of the CGWA/SGWA shall be obtained before drawing ground water for the project activities, if applicable. State Pollution Control Board (SPCB) concerned shall not issue Consent to Operate (CTO) till the project proponent obtains such permission.
- VI. Effective air pollution mitigation plan submitted to the Ministry shall be implemented in toto.
- VII. Project proponent shall take necessary other clearances/permissions under various Acts and Rules if any, from the respective authorities / department.
- VIII. PP shall implement RWH system as per the building code and guidelines.
- IX. PP shall comply with the requirement of Green Belt (GB) guidelines of MoEFCC, apart from the committed GB during the meeting.
- X. PP shall comply with ECBC of 2017 applicable for commercial buildings.
- XI. PP shall generate @1% of solar power/renewable energy, of the total demand.
- XII. PP shall submit conservation plan for schedule 1 species duly approved by Chief wild life warden prior to grant of EC.
- XIII. Noise monitoring to be carried out before and after the noise barrier already erected.
- XIV. All the vehicles for internal use in the hospital premises should be battery operated.

7. As per the provisions contained in the Ministry's Notification dated 14<sup>th</sup> March, 2017, the project proponent is required to submit a bank guarantee equivalent to the amount of remediation plan and natural and community resource augmentation plan with the State Pollution Control Board and the quantification will be recommended by EAC and finalized by Regulatory Authority and the bank guarantee shall be deposited prior to the grant of EC and will be released after successful implementation of the remediation plan and Natural and Community Resource Augmentation Plan, and after

J. Rose

the recommendation by Regional Office of the Ministry, Expert Appraisal Committee and approval of the Regulatory Authority.

8. Based on the recommendations of the EAC and as per the Notification dated 14<sup>th</sup> March, 2017, the Ministry has now asked the project proponent to submit a bank guarantee of Rs. 3,60,90,000/- (Three Crore Sixty Lakhs Ninety Thousands only) with the State Pollution Control Board for consideration of their project for environmental clearance.

9. It is requested that the Ministry may be intimated regarding receipt of bank guarantee of Rs. 3,60,90,000/- (Three Crore Sixty Lakhs Ninety Thousands only) by the SPCB from M/s Artemis Medicare Services Ltd. The bank guarantee shall be released after successful implementation of the remediation plan and natural and community resource augmentation plan, and after the recommendation by Regional Office of the Ministry, Expert Appraisal Committee and approval of the Regulatory Authority.

10. This issues with approval of the competent authority.

  
(Dr. Subrata Bose)  
Scientist F

**Copy to:-**

1. The Addl. Principal Chief Conservator of Forests (Central), Ministry of Environment, Forests and Climate Change, Regional Office(NZ), Bay No.24-25, Sector 31-A, Dakshin Marg, Chandigarh-160030.
2. M/s Artemis Medicare Services Ltd, Plot No. 14, Sector-20, Dwarka, New Delhi-110075.
3. Guard File/Monitoring File/Website/Record File.
4. MoEF&CC website.

  
(Dr. Subrata Bose)  
Scientist F

F. No. 23-279/2018-IA-III(V)  
Government of India  
Ministry of Environment, Forest and Climate Change  
(Impact Assessment Division)

Indira Paryavaran Bhawan  
Jor Bagh Road, New Delhi - 3

Date: 27<sup>th</sup> August, 2019

To,

**M/s Artemis Medicare Services Ltd.**  
Plot No. 14, Sector-20, Dwarka, New Delhi-110075  
E-Mail: [joginder@artemishospitals.com](mailto:joginder@artemishospitals.com)

**Subject: Expansion of Artemis Hospital located at Sector-51, Gurgaon, Haryana by M/s Artemis Medicare Services Ltd - Submission of Bank Guarantee - reg.**

Sir,

This has reference to your proposal No. IA/HR/MIS/84185/2007 dated 01.11.2018 from M/s Artemis Medicare Services Ltd for Expansion of Artemis Hospital located at Sector-51, Gurgaon, Haryana, along with the application in prescribed format (Form-I), for consideration under the provisions of S.O. 804 (E) dated 14<sup>th</sup> March, 2017.

2. The Ministry has issued a Notification vide S.O.804 (E) dated 14<sup>th</sup> March, 2017 for appraisal of projects for grant of terms of reference/environmental clearance, which have started the work on site, expanded the production beyond the limit of environmental clearance, or changed the product mix without obtaining prior environmental clearance under the EIA Notification, 2006.

3. As per the above said Notification, in cases of violation, action is to be taken against the project proponent by the respective State Government or the State Pollution Control Board under the provisions of the Environment (Protection) Act, 1986 and further, no consent to operate or occupancy certificate to be issued till the project is granted environmental clearance.

4. The said project/activity is covered under Category 'B' of item 8(a) of the schedule to the EIA Notification, 2006, and requires prior EC based on the appraisal by SEAC, Haryana. However, due to non-existence of SEIAA/SEAC in Haryana, the proposal has been appraised at Central level by Expert Appraisal Committee (EAC-Violation).

5. Terms of Reference (ToR) was granted by State Environment Impact Assessment Authority, vide Memo No. SEIAA/HR/2018/829 dated 26.07.2018.

6. The proposal for environmental clearance was considered by the Expert Appraisal Committee (EAC) for projects relating to violation of the EIA Notification, 2006, in terms of the provisions of the Ministry's Notification dated 14<sup>th</sup> March, 2017, in its 15<sup>th</sup> meeting held on 27-29 November, 2018 and 22<sup>nd</sup> meeting held on 21-22 May,

*J. Bose*

*Issued on 27/8/19.*

2019 in the Ministry. The Committee has recommended the proposal for grant of environmental clearance subject to compliance of certain conditions, including the following:

- I. Total budgetary provision with respect to Remediation plan and Natural & Community Resource Augmentation plan is Rs. 3,60,90,000/-.
- II. Therefore, project proponent shall be required to submit a bank guarantee of an amount of Rs. 3,60,90,000/- towards Remediation plan and Natural and Community Resource Augmentation plan with the SPCB prior to the grant of EC.
- III. Remediation plan shall be completed in 3 years whereas bank guarantee shall be for 5 years. The bank guarantee shall be released after successful implementation of the EMP, followed by recommendations of the EAC and approval of the regulatory authority.
- IV. Fund allocation for Corporate Environment Responsibility (CER) of Rs. 325/- lakhs to be implemented.
- V. Approval/permission of the CGWA/SGWA shall be obtained before drawing ground water for the project activities, if applicable. State Pollution Control Board (SPCB) concerned shall not issue Consent to Operate (CTO) till the project proponent obtains such permission.
- VI. Effective air pollution mitigation plan submitted to the Ministry shall be implemented in toto.
- VII. Project proponent shall take necessary other clearances/permissions under various Acts and Rules if any, from the respective authorities / department.
- VIII. PP shall implement RWH system as per the building code and guidelines.
- IX. PP shall comply with the requirement of Green Belt (GB) guidelines of MoEFCC, apart from the committed GB during the meeting.
- X. PP shall comply with ECBC of 2017 applicable for commercial buildings.
- XI. PP shall generate @1% of solar power/renewable energy, of the total demand.
- XII. PP shall submit conservation plan for schedule 1 species duly approved by Chief wild life warden prior to grant of EC.
- XIII. Noise monitoring to be carried out before and after the noise barrier already erected.
- XIV. All the vehicles for internal use in the hospital premises should be battery operated.

7. As per the provisions contained in the Ministry's Notification dated 14<sup>th</sup> March, 2017, the project proponent is required to submit a bank guarantee equivalent to the amount of remediation plan and natural and community resource augmentation plan with the State Pollution Control Board and the quantification will be recommended by EAC and finalized by Regulatory Authority and the bank guarantee shall be deposited prior to the grant of EC and will be released after successful implementation of the

*S. Rose*



remediation plan and Natural and Community Resource Augmentation Plan, and after the recommendation by Regional Office of the Ministry, Expert Appraisal Committee and approval of the Regulatory Authority.

8. The Ministry accepts the recommendations of the EAC (violation) regarding quantum of bank guarantee towards remediation plan and natural and community resource augmentation plan. In this regard, you are required to submit the bank guarantee of Rs. 3,60,90,000/- (Three Crore Sixty Lakhs Ninety Thousands only) with the State Pollution Control Board for consideration of the project for environmental clearance. The bank guarantee shall be released after successful implementation of the remediation plan and natural and community resource augmentation plan, and after the recommendation by Regional Office of the Ministry, Expert Appraisal Committee and approval of the Regulatory Authority.

9. This issues with approval of the competent authority.

  
(Dr. Subrata Bose)  
Scientist F

**Copy to:-**

1. The Member Secretary, Haryana Pollution Control Board, C-11, Sector-6, Panchkula, Haryana 134109 - **with the request to confirm receipt of the bank guarantee from the project proponent, as stated above.**

**Copy for information to:-**

1. The Addl. Principal Chief Conservator of Forests (Central), Ministry of Environment, Forests and Climate Change, Regional Office(NZ), Bay No.24-25, Sector 31-A, Dakshin Marg, Chandigarh-160030.
2. Guard File/Monitoring File/Website/Record File.
3. MoEF&CC website.

  
(Dr. Subrata Bose)  
Scientist F

**ANNEXURE - II**  
**COPY OF CONSENT TO ESTABLISH**



**HARYANA STATE POLLUTION CONTROL  
BOARD**

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

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

*Telephone No.: 0172-2577870-73*



No. HSPCB/Consent/ : 313099719GUNOCTE6992359

Dated:05/12/2019

To.

**M/s : Artemis Medicare Services Limited**  
**Artemis hospital( A unit of Artemis medicare services limited) Sector 51, Gurugram**  
**Sector-51,Gurgaon**  
**GURGAON**  
**122001**

**Sub. : Grant of consent to Establish to M/s Artemis Medicare Services Limited**

Please refer to your application no. 6992359 received on dated 2019-10-17 in regional office Gurgaon North.

With reference to your above application for consent to establish,M/s Artemis Medicare Services Limited is here by granted consent as per following specification/Terms and conditions.

<b>Consent Under</b>	AIR/WATER
<b>Period of consent</b>	05/12/2019 - 26/09/2026
<b>Industry Type</b>	Health -care Establishment / Projects having discharge of 100 KLD or More with or Without Incinerator
<b>Category</b>	RED
<b>Investment(In Lakh)</b>	36757.3203
<b>Total Land Area (Sq. meter)</b>	33588.91
<b>Total Builtup Area (Sq. meter)</b>	67444.65
<b>Quantity of effluent</b>	
1. Trade	70.0 KL/Day
2. Domestic	725.0 KL/Day
<b>Number of outlets</b>	2.0
<b>Mode of discharge</b>	
1. Domestic	Recycling/ reuse
2. Trade	Recycling/ reuse
<b>Permissible Domestic Effluent Parameters</b>	
1. BOD	30 mg/l
2. COD	250 mg/l
3. TSS	100 mg/l

<b>Permissible Trade Effluent Parameters</b>	
1. BOD	30 mg/l
2. COD	250 mg/l
3. TSS	100 mg/l
Number of stacks	1
<b>Height of stack</b>	
1. Attached with DG set 750x2, 1250x1, 1250x2, 1500x1, 1500x2, 750x1(Above roof level)	7 Meter
<b>Permissible Emission parameters</b>	
1. NA	
<b>Capacity of boiler</b>	
1. NA	Ton/hr
<b>Type of Furnace</b>	
1. NA	
<b>Type of Fuel</b>	
1. Diesel	4.23 KL/day

## HARYANA STATE

**Regional Officer, Gurgaon North**

*Haryana State Pollution Control Board.*

### Terms and conditions

1. The industry has declared that the quantity of effluent shall be 795 KL/Day i.e 70KL/Day for Trade Effluent, 0 KL/Day for Cooling, 725 KL/Day for Domestic and the same should not exceed .
2. The above 'Consent to Establish' is valid for 60 months from the date of its issue to be extended for another one year at the discretion of the Board or till the time the unit starts its trial production whichever is earlier. The unit will have to set up the plant and obtain consent during this period.
3. The officer/official of the Board shall have the right to access and inspection of the industry in connection with the various processes and the treatment facilities being provided simultaneously with the construction of building/machinery. The effluent should conform the effluent standards as applicable
4. That necessary arrangement shall be made by the industry for the control of Air Pollution before commissioning the plant. The emitted pollutants will meet the emission and other standards as laid/will be prescribed by the Board from time to time.
5. The applicant will obtain consent under section 25/26 of the Water (Prevention & Control of Pollution) Act, 1974 and under section 21/22 of the Air (Prevention & Control of Pollution) Act,1981 as amended to-date-even before starting trial production
6. The above Consent to Establish is further subject to the conditions that the unit complies with all the laws/rules/decisions and competent directions of the Board/Government and its functionaries in all respects before commissioning of the operation and during its actual working strictly.
7. No in-process or post-process objectionable emission or the effluent will be allowed, if the scheme furnished by the unit turns out to be defective in any actual experience

8. The Electricity Department will give only temporary connection and permanent connection to the unit will be given after verifying the consent granted by the Board, both under Water Act and Air Act.
9. Unit will raise the stack height of DG Set/Boiler as per Board's norms.
10. Unit will maintain proper logbook of Water meter/sub meter before/after commissioning.
11. That in the case of an industry or any other process the activity is located in an area approved and that in case the activity is sited in an residential or institutional or commercial or agricultural area, the necessary permission for siting such industry and process in an residential or institutional or commercial or agricultural area or controlled area under Town and Country Planning laws CLU or Municipal laws has to be obtained from the competent Authority in law permitting this deviation and be submitted in original with the request for consent to operate.
12. That there is no discharge directly or indirectly from the unit or the process into any interstate river or Yamuna River or River Ghaggar.
13. That the industry or the unit concerned is not sited within any prohibited distances according to the Environmental Laws and Rules, Notification, Orders and Policies of Central Pollution control Board and Haryana State Pollution Control Board.
14. That of the unit is discharging its sewage or trade effluent into the public sewer meant to receive trade effluent from industries etc. then the permission of the Competent Authority owing and operating such public sewer giving permission letter to his unit shall be submitted at time of consent to operate.
15. That if at any time, there is adverse report from any adjoining neighbor or any other aggrieved party or Municipal Committee or Zila Parishad or any other public body against the unit's pollution; the Consent to Establish so granted shall be revoked.
16. That all the financial dues required under the rules and policies of the Board have been deposited in full by the unit for this Consent to Establish.
17. In case of change of name from previous Consent to Establish granted, fresh Consent to Establish fee shall be levied.
18. Industry should adopt water conservation measures to ensure minimum consumption of water in their Process. Ground water based proposals of new industries should get clearance from Central Ground Water Authority for scientific development of previous resource.
19. That the unit will take all other clearances from concerned agencies, whenever required.
20. That the unit will not change its process without the prior permission of the Board.
21. That the Consent to Establish so granted will be invalid, if the unit falls in Aravali Area or non conforming area.
22. That the unit will comply with the Hazardous Waste Management Rules and will also make the non-leachate pit for storage of Hazardous waste and will undertake not to dispose off the same except for pit in their own premises or with the authorized disposal authority.
23. That the unit will submit an undertaking that it will comply with all the specific and general conditions as imposed in the above Consent to Establish within 30 days failing which Consent to Establish will be revoked.
24. That unit will obtain EIA from MoEF, if required at any stage.
25. In case of unit does not comply with the above conditions within the stipulated period, Consent to Establish will be revoked.

26. That unit will obtain consent to operate from the board before the start of product activity.

### **Specific Conditions**

### **Other Conditions :**

1. CTE so granted is on the basis of detail submitted by the unit in online application, CTE granted will be without prejudice to any violation made by unit in past & will be deemed revoked & further action will be taken as per law if any violation is observed at any stage. 2. Unit will not change the quantity of domestic effluent/trade effluent/air emission without prior permission of the Board. 3. Unit will obtain prior CTO before starting of production. 4. Unit will obtain all necessary clearance from all concerned departments. 5. The unit will install STP/ETP/APCM along with the main project. 6. The unit will install the project only on the land for which Town and Country Planning Department/HUDA/HSIIDC has given license. 7. The unit will install adequate acoustic enclosures/chambers on their DG SETS with proper stack height as per prescribed norms to meet the prescribed standards under EP Rules, 8. Unit will apply for CTO/ CTE Extension at least 90 days before expiry date of this CTE. 9. That in case any additional charges / fees / penalty etc. are found payable towards this authorization / CTO/ CTE as per audit then the same shall be paid by the unit without any objection immediately as and when demanded by this office. 10. If at any stage found that unit was involved in any past violation, If at any stage found that unit was involved in any past violation regarding Environment Laws / Rules / Acts then CTE so granted shall be revoked automatically & legal action will be initiate against the project proponent. 11. Unit will use only treated effluent supplied from Sewage treatment plant during construction phase of the project. 12. That this CTE will not provide any immunity from any other Act/Rules/Regulations applicable to the project/land in question. 13. Unit will not discharge any type Treated or untreated effluent outside the premises of the project. 14. Unit will not use in their DG set as a fuel i.e. pet coke, furnace oil and LSHS etc. 15. Stack emission level should be stringent than the existing standards in terms of the identified critical pollutants. 16. Increase of green belt cover by 40% of the total land area beyond the permissible requirement of 33%, wherever feasible. 17. Stipulation of greenbelt outside the project premises such as avenue plantation, plantation in vacant areas, social forestry etc. 18. Unit will not discharge any type of effluent outside of the premises of the project and reuse/recycle of treated waste water. 19. Continuous monitoring of effluent quality / quantity in large and medium Red Category Industries. 20. A detailed water harvesting plan may be submitted by the project proponent. 20. Unit will achieve zero discharge and install latest technology of STP and reuse/recycle of treated effluent. 21. Unit will dispose off their waste/spent oil of DG sets only 2 authorized recyclers by the HSPCB. 22. Monitoring of compliance of EC conditions may be submitted with third party audit every year. 23. The % of the CER may be least 1.5 times the slabs given in the OM dated 01.05.2018 for SPA and 2 times for CPA in case of Environmental Clearance. 24. Unit will submit the above mentioned compliance within 90 days. 25. The Project Proponent/unit will not claim any benefits on the basis of this CTE in respect of past violation committed by them.

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

**ANNEXURE - III**  
**COPY OF CONSENT TO OPERATE**



# HARYANA STATE POLLUTION CONTROL BOARD

Gurgaon North Vikas Sadan, 1st Floor, Near DC Court, Gurgaon Ph.0124-2332775 Email:-  
hspcbrogrn@gmail.com  
E-mail: hspcb@hry.nic.in



No. HSPCB/Consent/ : 313099720GUNOCTO7813399

Dated:27/07/2020

To.

M/s :Artemis Medicare Services Limited  
Artemis hospital( A unit of Artemis medicare services limited) Sector 51, Gurugram  
Sector-51,Gurgaon

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

Please refer to your application no. 7813399 received on dated 2020-06-30 in regional office Gurgaon North. With reference to your above application for consent to operate, M/s Artemis Medicare Services Limited is here by granted consent as per following specification/Terms and conditions.

<b>Consent Under</b>	BOTH
<b>Period of consent</b>	01/10/2020 - 30/09/2021
<b>Industry Type</b>	Health -care Establishment / Projects having discharge of 100 KLD or More with or Without Incinerator
<b>Category</b>	RED
<b>Investment(In Lakh)</b>	36757.3203
<b>Total Land Area(Sq. meter)</b>	32860.82
<b>Total Builtup Area(Sq. meter)</b>	28801.57
<b>Quantity of effluent</b>	
1. Trade	25.0 KL/Day
2. Domestic	325.0 KL/Day
<b>Number of outlets</b>	2.0
<b>Mode of discharge</b>	
1. Domestic	Reuse/Recycle
2. Trade	for irrigation
<b>Domestic Effluent Parameters</b>	
1. BOD	30 mg/l
2. COD	250 mg/l
3. TSS	100 mg/l
4. O&G	10 mg/l
<b>Trade Effluent Parameters</b>	
1. BOD	30 mg/l
2. COD	250 mg/l
3. TSS	100 mg/l



4. O&G	10 mg/l
Number of stacks	2
<b>Height of stack</b>	
1. Stack to DG set	7.5 Meter (Above roof level)
2. Stack to DG set	7.5 Meter (Above roof level)
<b>Emission parameters</b>	
1. NA	
<b>Product Details</b>	
1. Hospital	Metric Tonnes/day
<b>Capacity of boiler</b>	
1. NA	Ton/hr
<b>Type of Furnace</b>	
1. NA	
<b>Type of Fuel</b>	
1. Diesel	1.540 KL/day
<b>Raw Material Details</b>	
Hospital	Metric Tonnes/Day

**HARYANA STATE**

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

**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. Unit will run and maintain it's 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 if required.
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 Rule and submit return under HWM Rules on yearly basis.
9. That the CTO so granted shall be come invalid in case of violation of any of the above / any law of the land.
10. Unit will apply for consent to operate for further period 90 days before expiry of this consent otherwise penalty will be imposed as per policy.
11. Unit will submit compliance report of general & specific conditions mentioned in CTO alongwith fresh analysis report within 03 months.
12. The unit will apply for authorization under HWM rules, 2016.
13. Unit will install Emission control measures on DG set of capacity more than 500 KVA having minimum specified PM capturing

efficiency of at least 70% approved by CPCB recognized labs or shift to gas based generator in compliance of HSPCB office order no. 4230-44 dated 25.06.2020.

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



**ANNEXURE - IV**

**COPY OF STRUCTURAL SAFETY CERTIFICATE**



**TO WHOM SO EVER IT MAY CONCERN**

**Structural Certificate for project " Artemis Hospital at Gurgaon"**

This is to certify that the structural design of above mentioned building is based on Architectural drawings of M/s Achal Kataria Architects., E-15, South Extension Part-1, New Delhi-110049 confirm to the requirement of relevant Indian Standard Codes and National Building codes in respect of 'Structural Safety' in general and National hazards including earthquake in particular.

Date: 24.04.2017

  
Signature of Structure Engineer

**PANKISH GOEL**  
**M.Sc., (Struct), USA, M.A.S.C.E.**  
**CONSULTING STRUCTURAL ENGINEER**  
**TPC TECHNICAL PROJECTS CONSULTANTS PVT. LTD.**  
**B-74, Sector-57, Noida - 201301**

**ANNEXURE - V**  
**COPY OF ELECTRICITY BILL**

Meter and Read Details (* Latest MCO is shown in case of multiple MCO in one billing cycle)													
Meter No.	Meter Reading Date		Period Days	MDI	Unit	Meter Reading		M.F.	Consumed Units	Billed Units	Bill Basis	Read Rmrk	Mtr Ste
	Old	New				Old	New						
X0979594	01/04/2022	19/04/2022	18	0.00 ( )	kWh	642515.5	656898	40	575300	575300	OK	OK	A
X0979594	01/04/2022	19/04/2022	18	2078.00 (KVA)	kVAh	674385.5	689749	40	614540	614540	OK	OK	A
X0979594	19/04/2022	01/05/2022	12	0.00 ( )	kWh	656898	663983	50	354250	354250	OK	OK	A
X0979594	19/04/2022	01/05/2022	12	2188.00 (KVA)	kVAh	689749	697407.5	50	382925	382925	OK	OK	A

Arrears Outstanding for the Financial Year (₹)				Slab Calculation			Connection Details	
Description	Previous	Current	Total (₹)	Unit	Rate	Amount (₹)	Tariff Category	HTS-NDS
SOP Charges	0.00	3467552.93	3467552.93	997465	6.650	6633142.25	Flats in BS (DS)	1
F.S.A.	0.00	-2330562.95	-2330562.95	Total		6633142.25	Supply Voltage(kV)	11.00 kV
Surcharge	0.00	-119745.00	-119745.00	Applicable Tariff on Read Date:			Sanctioned Load (kW/KVA)	~ 4364.00/66.24
E. Duty	0.00	84006.00	84006.00				MMC(₹)	0.00
M. Tax	0.00	-70917.94	-70917.94				Cons. Security (₹)	4364000.01
Fixed Charges	0.00	-1030333.00	-1030333.00				DOC/DOE	15/09/2009/
Excess Credit	0.00	0.00	0.00				Meter Ownership/MDI Meter	Nigam meter/
<b>Total Arrear</b>	<b>0.00</b>	<b>0.04</b>	<b>0.04</b>				Meter Make/Meter Type	Secure Meter Ltd./HT-MTR

Details of Charges for Current Cycle		Details of Amount Payable		Last Payment Details				
Description	Amount (₹)	Description	Amount (₹)	Amount(₹)	8091310.00			
Fixed Charges	10903.56	Current Cycle Charges	6869881.73	Receipt No	80038643256			
Energy Charges	6633142.25	Arrears/Outstanding Dues	0.04	Receipt Date	15/04/2022			
MMC/FC for Reconnection	0.00	Sundry Charges/Allowances	809513835.00/0.00	Mode of Payment	DD			
Amount to cover MMC	0.00	Provisional Adjustment/BR Adj.	0.00	Previous Consumption Pattern				
Fuel Surcharge Adjustment	0.00	LPS Adjustment	0.00	Bill month	Units (KWH)	Units (KVAH)	MDI	Status
TDS/TCS	0.00/0.00	Other Non-Energy Charges	0.00	Nov-2021	912380	850820	2211.2	OK
Excess Load Surcharge	0.00	<b>Net Payable Amount</b>	<b>7383717.00</b>	Dec-2021	680340	700540	1494.4	OK
Capacitor Surcharge	0.00	<b>On Or Before Due Date(₹)</b>	<b>7383717.00</b>	Jan-2022	655720	678362.4	1379.2	OK
Meter Service Charges	0.00	Surcharge(₹)	107172.00	Feb-2022	636760	656457.6	1286.4	OK
Line Service Charges	0.00	Gross Amount Payable After Due Date(₹)	7490889.00	Mar-2022	587360	612240	1488	OK
Capacitor Service Charges	0.00	Brief details of Sundry charges/allowances		Apr-2022	840060	883840	1943.2	OK
Solar Rebate /Prepaid Rebate/Gaushala Rebate	0.00/0.00/0.00	11212/ROW ID 52517C/SR 121		In case of bill is not paid within 7 days of due date the supply shall be liable to be disconnected without any further notice.				
Govt. Subsidy/Battery Rbt	0.00/0.00	FC ( )		Date from which bill other than "OK" is being issued: Reason:				
Electricity Duty	92955.00	Metering Equipment Testing Charges ( )						
Municipal Tax / P Tax	132880.92	<b>RECEIPT OF DD</b>						
<b>Total Current Cycle Charges (₹)</b>	<b>6869881.73</b>	South City Sub Div (G26)						

DD to be drawn in favour of SDO G26-South City, DHBVN, GURUGRAM

Signature of important information for consumers: 15/04/22

Payment of this bill can be made online by logging on the Website: www.dhbvn.org.in at any time and at office counter on all working days during working hours i.e. 09:00AM to 05:00PM. This Bill is considered as a notice under section 56 of The Electricity Act 2003. Kindly pay the bill by due date. In case of default the connection is liable to be disconnected after 15 days of due date

Address and Telephone Number(s) of the authorities relating to consumers grievances		
Grievance pertaining to this bill can be lodged with	Address & Telephone number(s) of the	
Assistant General Manager Operation - G26-South City	Consumer Grievance Redressal Forum	Ombudsman
		For all type of complaints call at: 18001804334 (Toll Free)

Reading Date - 07.04.22 to 08.05.22

Payable Amount - 7383717 / Page 1 of 2



Account No: 8003860000

0 0 3 8 6 0 0 0 4 2 2 2 3 3 2 1 4 0 3 2 0 2 2 4 2 8 3 9 5 3

Name: ARTIMISE MEDICOSE		Account No: 8003860000	Net Payable Amount on or before Due Date (₹): 4222332.00
Address: SEC-52, -, GURUGRAM, HR, IND		Old Acct No: 12226H1UIND50019	Due Date: 14/03/2022
		K No: 2123054895X	Surcharge(₹): 61621.00
Circle : GURUGRAM CIRCLE-2	Cycle/Group: FARY/H1U	Issue Date: 03/03/2022	Gross Amount Payable After Due Date(₹): 4283953.00
Division: SUB URBAN GURUGRAM	Bill Month: MAR/2022	Bill No: 800389578072	
Sub Division: G26-South City	Net Payable Amount in words: Forty Two Lakh Twenty Two Thousand Three Hundred Thirty Two Rupees Only		

Generated on Date - 07-03-2022 09:42:35 , Generated by:- reportus

Meter and Read Details (\* Latest MCU is shown in case of multiple MCO in one billing cycle)

Meter No.	Meter Reading Date		Period Days	MDI	Unit	Meter Reading		M.F.	Consumed Units	Billed Units	Bill Basis	Read Rmrk	Mtr Sts
	Old	New				Old	New						
X0979594	01/02/2022	01/03/2022	28	0.00 ( )	kWh	606830	621514	40	587360	587360	OK	OK	A
X0979594	01/02/2022	01/03/2022	28	1488. 00 (KVA)	kVAh	636983.5	652289.5	40	612240	612240	OK	OK	A

Arrears Outstanding for the Financial Year (₹)				Slab Calculation			Connection Details	
Description	Previous	Current	Total (₹)	Unit	Rate	Amount (₹)	Tariff Category	
Charges	0.00	2939927.40	2939927.40	612240	6.650	4071396.00	HTS-NDS	
F.S.A.	0.00	-2330562.95	-2330562.95	Total		4071396.00	Flats in BS (DS)	1
Surcharge	0.00	-120470.00	-120470.00	Applicable Tariff on Read Date:			Supply Voltage(kV)	11.00 kV
E. Duty	0.00	63676.00	63676.00				Sanctioned Load (Kw/kWh)	3100.00/66.24
M. Tax	0.00	-89800.70	-89800.70				MMC(₹)	0.00
Fixed Charges	0.00	-462377.88	-462377.88				Cons. Security (₹)	3100000.01
Excess Credit	0.00	0.00	0.00				Meter Security (₹)	0.02
<b>Total Arrear</b>	<b>0.00</b>	<b>391.87</b>	<b>391.87</b>				Meter Ownership/MDI Meter	Nigam meter/
							Meter Make/Meter Type	Secure Meter Ltd. /HT-MTR

Details of Charges for Current Cycle		Details of Amount Payable		Last Payment Details				
Description	Amount (₹)	Description	Amount (₹)	Amount(₹)				
Fixed Charges	10176.65	Current Cycle Charges	4221940.10		5118652.00			
Energy Charges	4071396.00	Arrears/Outstanding Dues	391.87	Receipt No	800386021557			
MMC/F.C for Reconnection	0.00	Sundry Charges/Allowances	0.00/0.00	Receipt Date	14/02/2022			
Amount to cover MMC	0.00	Provisional Adjustment/BR Adj.	0.00	Mode of Payment	DD			
Fuel Surcharge Adjustment	0.00	LPS Adjustment	0.00	Previous Consumption Pattern				
Reliability Charges	0.00	Other Non-Energy Charges	0.00	Bill month	Units (KWH)	Units (KVAH)	MDI	Status
Excess Load Surcharge	0.00	<b>Net Payable Amount</b>	<b>4222332.00</b>	Sep-2021	1077998.8	1134200	2172.8	OK
Capacitor Surcharge	0.00	<b>On Or Before Due Date(₹)</b>	<b>4222332.00</b>	Oct-2021	1049600	1102300	2323.2	OK
Meter Service Charges	0.00	Surcharge(₹)	61621.00	Nov-2021	912380	950820	2211.2	OK
Line Service Charges	0.00	Gross Amount Payable After Due Date(₹)	4283953.00	Dec-2021	680340	700540	1494.4	OK
Capacitor Service Charges	0.00	Brief details of Sundry charges /allowances		Jan-2022	655720	678362.4	1379.2	OK
Solar Rebate / BS Rebate	0.00/0.00	<i>Handwritten notes: Paid by 4222332/- last date - 14/03/2022</i>		Feb-2022	636760	656457.6	1286.4	OK
Govt. Subsidy	0.00/0.00			In case Bill is not paid within 7 days of due date the supply shall be liable to be disconnected without any further notice.				
Electricity Duty	58736.00			Date from which bill other than "OK" is being issued: Reason:				
Municipal Tax	81631.45							
<b>Total Current Cycle Charges (₹)</b>	<b>4221940.10</b>							

Cheque/DD to be drawn in favour of SDO G26-South City, DHBN, GURUGRAM

**Important Information for consumers:**  
 Under Section-56 of EA-2003, the supply of electricity shall not be cut off if the consumer deposits, under protest, a) an amount equal to the sum claimed from him, or b) the electricity charges due from him for each month calculated on the basis of average charge for electricity paid by him during the preceding six months, whichever is less, pending disposal of any dispute between him and the licensee

Address and Telephone Number(s) of the authorities relating to consumers grievances		
Grievance pertaining to this bill can be lodged with	Address & Telephone number(s) of the	
Assistant General Manager Operation - G26-South City	Consumer Grievance Redressal Forum	Address & Telephone number(s) of complaint centers
	HETRI HOUSE, GURUGRAM	18001804334 (Toll Free)
	Ombudsman	1800 180 2124 (Vigilance Toll Free)
	HERC, Sec-4, Bays No. 33-36, Panchkula, Haryana Email ID : herc-ohd@nic.in Contact No. - 0172-2582531	

*Reading Date 7.02.2022 - 8.03.2022*  
*Payable Amount - 4222332/-*  
*Last Date - 14.03.2022*



Meter No.	Meter Reading Date		Period Days	MDI	Unit	Meter Reading		M.F.	Consumed Units	Billed Units	Bill Basis	Read Rmrk	Mtr Sts
	Old	New				Old	New						
X0979594	01/01/2022	01/02/2022	31	0.00 ( )	kWh	590911	606830	40	636760	636760	OK	OK	A
X0979594	01/01/2022	01/02/2022	31	1288. 40 (KVA)	kVAh	620572.06	636983.5	40	656457.6	656457.6	OK	OK	A

Arrears Outstanding for the Financial Year (₹)				Slab Calculation			Connection Details			
Description	Previous	Current	Total (₹)	Unit	Rate	Amount (₹)				
SOP Charges	0.00	2946535.59	2946535.59	656457.6	6.650	4365443.04	Tariff Category HTS			
F.S.A.	0.00	-2330562.95	-2330562.95	Total 4365443.04			Flats in BS (DS) 1			
Surcharge	0.00	-120862.00	-120862.00	Applicable Tariff on Read Date:			Supply Voltage(kV) 11.00 kV			
E. Duty	0.00	65572.00	65572.00				Sanctioned Load (kW) 3100.00			
M. Tax	0.00	-86887.36	-86887.36				MMC(₹) 0.00			
Fixed Charges	0.00	-462377.88	-462377.88				Cons. Security (₹) 3100000.00			
Excess Credit	0.00	0.00	0.00				Meter Security (₹) 0.00			
Total Arrear	0.00	11417.40	11417.40				Meter Ownership/MDI Meter Nigam meter/			
							Meter Make/Meter Type Secure Meter Ltd /HT-MTR			

Details of Charges for Current Cycle		Details of Amount Payable		Last Payment Details				
Description	Amount (₹)	Description	Amount (₹)	Amount(₹)				
Fixed Charges	579222.13	Current Cycle Charges	5107234.47	5252452.00	Receipt No 800386090240			
Energy Charges	4365443.04	Arrears/Outstanding Dues	11417.40	13/01/2022	Receipt Date			
VMC/FC for Reconnection	0.00	Sundry Charges/Allowances	0.00/0.00	DD	Mode of Payment			
Amount to cover MMC	0.00	Provisional Adjustment/BR Adj.	0.00	Previous Consumption Pattern				
Fuel Surcharge Adjustment	0.00	LPS Adjustment	0.00	Bill month	Units (KWH)	Units (KVAH)	MDI	Status
Reliability Charges	0.00	Other Non-Energy Charges	0.00	Aug-2021	1110761.2	1172101.2	2394.4	OK
Excess Load Surcharge	0.00	Net Payable Amount	5118652.00	Sep-2021	1077999.8	1134200	2172.8	OK
Capacitor Surcharge	0.00	On Or Before Due Date(₹)	5118652.00	Oct-2021	1049600	1102300	2323.2	OK
Meter Service Charges	0.00	Surcharge(₹)	74661.00	Nov-2021	912380	950820	2211.2	OK
Line Service Charges	0.00	Gross Amount Payable After Due Date(₹)	5193313.00	Dec-2021	680340	700540	1494.4	OK
Capacitor Service Charges	0.00	Brief details of Sundry charges /allowances		Jan-2022	655720	678362.4	1379.2	OK
Solar Rebate /Prepaid	0.00/0.00/0.00	<p style="text-align: center;"><b>RECEIPT OF DD</b>  <b>HESL-GURUGRAM</b>  <b>South City Sub Div (G-28)</b></p>		In case of bill is not paid within 7 days of due date the supply shall be liable to be disconnected without any further notice.				
Govt. Subsidy/Battery Rbt	0.00/0.00			Date from which bill other than "OK" is being issued: Reason:				
Electricity Duty	63676.00							
Municipal Tax / P Tax	98893.30							
Total Current Cycle Charges (₹)	5107234.47							

DD to be drawn in favour of SDO G28 Gurugram, Haryana. 8-60386000

Payment of this bill can be made online by logging on the website [www.dhbn.org.in](http://www.dhbn.org.in) at any time and at office counter on all working days during working hours i.e. 09:00AM to 05:00PM. This Bill is considered as a notice under section 56 of The Electricity Act 2003. Kindly pay the bill by due date. In case of default the connection is liable to be disconnected after 15 days of due date.

Address and Telephone Number(s) of the authorities relating to consumers grievances		
Address & Telephone number(s) of the		For all type of complaints call at:
Assistant General Manager Operation - G26-South City	Consumer Grievance Redressal Forum	18001804334 (Toll Free)
	HETRI HOUSE, GURUGRAM	1800 180 2124 (Vigilance Toll Free)
	Ombudsman	
	HERC, Sec-4, Bays No. 33-36, Panchkula, Haryana	
	Email ID eo@nic.in	
	Contact No. - +91(172)2572299	
	WhatsApp No:-	

**ANNEXURE - VI**  
**COPY OF WATER BILL**



# WATER & SEWERAGE BILL

M/s Artemis Hospital  
 Address: Sector 51  
 9716122274  
 joginder@artemishospitals.com

Consumer Number.	18090255
Invoice No.	124202222481
Connection Type.	Other
Meter No.	18004975
From Date	01/03/2022
To Date	31/03/2022
Invoice Date	17-04-2022
Modify Date	
Due Date	04/05/2022
STP Certificate	NA

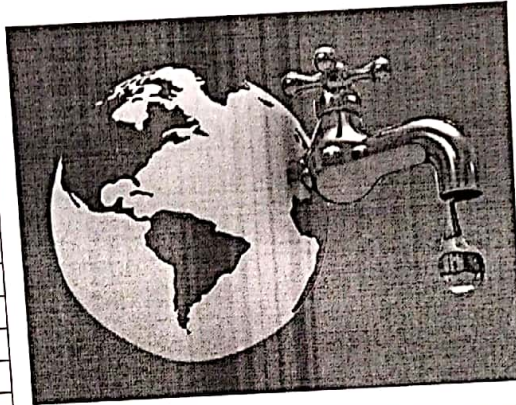
## Your Invoice for Consumer Number 18090255

Current Month Charges INR 121872	+	Perivous Outstanding Bill Amount INR 0	-	Adjusted Amount if any INR 0	=	Total amount to pay Before Due Date INR 121872
Current Month charges After Due Date INR 134059		Perivous Outstanding Bill Amount INR 0		Adjusted Amount if Any INR 0		Total Amount To Pay After Due Date INR 134059

**PLEASE NOTE:**

- Please make payments before due date to avoid the late fee charges.

Current Charges in detail		
Summary of current charges		
Column	Particulars	Total (INR)
1	Old Connection Number	12233541
2	Connection Size (in mm)	100
3	Meter Reading Old	9374
4	Meter Reading New	19530
5	Water Consumed	10156
6	Sewerage Charges(%)	20
7	Rent in Rs	0
8	Water per Unit	10
9	Charges in Rs Water	101560
10	Charges in Rs Sewerage	20312
11	HSVP Arrear before 1-Oct-2018	
12	Adjust Amount Amount	0
13	Month	April 2022



Your History				
Month	Consumption	Charge	Payment	Due Date
March 2022	9374 Unit	112488	112488	07/04/2022
February 2022	1626 Unit	19512	19512	07/03/2022
January 2022	9220 Unit	110640	110640	03/02/2022

Instructions Reading Date 24.02.2022 to 25.03.2022  
 Payable Amount - 121872/-  
 Last Date - 04.05.2022  
 Rasigla



# WATER & SEWERAGE BILL

M/s Artemis Hospital  
 Address: Sector 51  
 9716122274  
 joginder@artemishospitals.com

Consumer Number.	18090255
Invoice No.	73202221702
Connection Type.	Other
Meter No.	18004975
From Date	01/02/2022
To Date	28/02/2022
Invoice Date	21-03-2022
Modify Date	
Due Date	07/04/2022
STP Certificate	NA

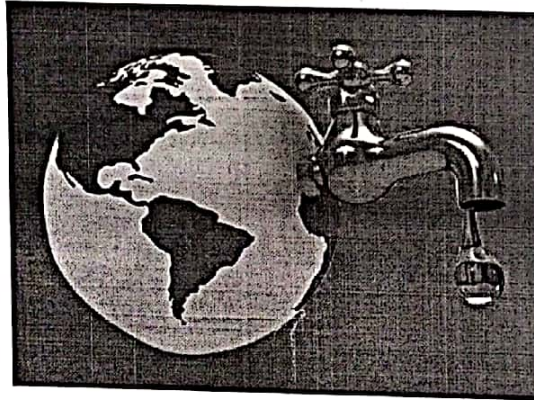
## Your Invoice for Consumer Number 18090255

Current Month Charges INR 112488	+	Perivous Outstanding Bill Amount INR 0	-	Adjusted Amount if any INR 0	=	Total amount to pay Before Due Date INR 112488
Current Month charges After Due Date INR 123737		Perivous Outstanding Bill Amount INR 0		Adjusted Amount if Any INR 0		Total Amount To Pay After Due Date INR 123737

**PLEASE NOTE:**

1. Please make payments before due date to avoid the late fee charges.

Current Charges in detail		
Summary of current charges		
Column	Particulars	Total (INR)
1	Old Connection Number	12233541
2	Connection Size (in mm)	100
3	Meter Reading Old	0
4	Meter Reading New	9374
5	Water Consumed	9374
6	Sewerage Charges(%)	20
7	Rent in Rs	0
8	Water per Unit	10
9	Charges in Rs Water	93740
10	Charges in Rs Sewerage	18748
11	HSVP Arrear before 1-Oct-2018	
12	Adjust Amount Amount	0
13	Month	March2022



Your History				
Month	Consumption	Charge	Payment	Due Date
February2022	1626 Unit	19512	19512	07/03/2022
January2022	9220 Unit	110640	110640	03/02/2022
December2021	6211 Unit	74532	74532	03/01/2022

**Instructions**

Reading Date 24.01.2022 to 24.02.2022

Paybel Amount - 112488/-

Last Date - 07.04.2022

Jany  
Rasni



# WATER & SEWERAGE BILL

M/s Artemis Hospital  
 Address: Sector 51  
 9716122274  
 joginder@artemishospitals.com

Consumer Number.	18090255
Invoice No.	112202221228
Connection Type.	Other
Meter No.	18004975
From Date	01/01/2022
To Date	31/01/2022
Invoice Date	17-02-2022
Modify Date	
Due Date	07/03/2022
STP Certificate	NA

Your Invoice for Consumer Number 18090255

Current Month Charges INR 19512	+	Perivous Outstanding Bill Amount INR 0	-	Adjusted Amount if any INR 0	=	Total amount to pay Before Due Date INR 19512
Current Month charges After Due Date INR 21463		Perivous Outstanding Bill Amount INR 0		Adjusted Amount if Any INR 0		Total Amount To Pay After Due Date INR 21463

**PLEASE NOTE:**

1. Please make payments before due date to avoid the late fee charges.

Current Charges in detail.		
Summary of current charges		
Column	Particulars	Total (INR)
1	Old Connection Number	12233541
2	Connection Size (in mm)	100
3	Meter Reading Old	379320
4	Meter Reading New	380946
5	Water Consumed	1626
6	Sewerage Charges(%)	20
7	Rent in Rs	0
8	Water per Unit	10
9	Charges in Rs Water	16260
10	Charges in Rs Sewerage	3252
11	HSPV Arrear before 1-Oct-2018	
12	Adjust Amount Amount	0
13	Month	February2022



Your History				
Month	Consumption	Charge	Payment	Due Date
January2022	9220 Unit	110640	110640	03/02/2022
December2021	6211 Unit	74532	74532	03/01/2022
November2021	7806 Unit	93672	93672	29/11/2021

**Instructions**

Reading Date 12.01.2022 - 17.01.2022  
 Payable Amount. 19512/-  
 Last Date - 07/03/2022

*[Handwritten Signature]*

10 03 2022 11:11

**ANNEXURE -VII**

**MONITORING REPORT**



## TEST REPORT Ambient Air Analysis

Issue Date : 20/05/2022

ULR No. : TC699322000031518F

Test Report No. : PRPL/AS/290422-001

Name of the Customer : Artemis Medicare Services Limited  
Name & Address of the project : "Artemis Hospital" at Sector- 51, Gurugram--122001, Haryana

Location of Sampling & GPS detail : Onsite  
Sampling Plan & Procedure : PRPL/WP/AS/001-012  
Date of Monitoring/ Date of collection : 28/04/2022 To 29/04/2022  
Date of Receipt of Sample at lab : 29/04/2022  
Sample Description : Ambient Air  
Sample Quantity : PM10 -48.50 m3, PM2.5-24.50 m3& Gases-250 lit  
Sample Collected by : Mr. Anshul & Mr. Abhimanyu  
Manufacture Model & Serial no. : AAS 271 mini,19-F-374, by Ecotech  
Ambient Temperature : 42°C  
Humidity : 14%  
Wind Speed & Direction : 9.6 Km/hr, East  
Tests started on : 30/04/2022  
Tests Completed on : 04/05/2022


## RESULTS

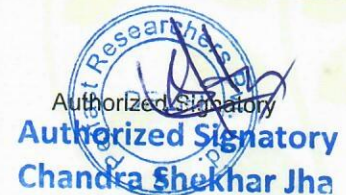
S.No.	PARAMETER	Units	Test Method	Results	Standard Limit as per NAAQS
1	Particulate Matter 2.5 (PM2.5)	µg/m3	IS:5182 Part 24	135.6	60
2	Particulate Matter 10 (PM10)	µg/m3	IS:5182 Part 23 :2006	186.4	100
3	Nitrogen dioxide (NO2)	µg/m3	IS:5182 Part VI 2006	44.6	80
4	Sulphur dioxide (SO2)	µg/m3	IS:5182 Part II (1999-2001)Reaffirmed 2006	10.2	80

### Remarks:

1. The results mentioned above relate only to the Sample received and Tested by us.
2. The test report shall not be reproduced either in full or part without the written approval of the Laboratory.
3. Samples received shall be disposed off after one month from the date of issue of Test Report unless specified otherwise.

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

  
Analyst

  
Authorized Signatory  
Chandra Shekhar Jha



## TEST REPORT Drinking Water Analysis

Issue Date : 20/05/2022

ULR No. : TC699322000031512F

Test Report No. : PRPLWS/290422-001

Name of the Customer : Artemis Medicare Services Limited  
Name & Address of the project : "Artemis Hospital" at Sector- 51, Gurugram--122001, Haryana

Location of Sampling & GPS detail : Onsite  
Sampling Plan & Procedure : PRPL/WP/MS/058  
Date of Monitoring/ Date of collection : 29/04/2022  
Date of Receipt of Sample at lab : 29/04/2022  
Sample Description : Drinking Water  
Sample Quantity : 1 Lt.  
Sample Collected by : Mr. Abhimanyu  
Tests started on : 30/04/2022  
Tests Completed on : 06/05/2022

## RESULTS

S.No.	Parameter	Unit	Test Method	Results	IS 10500:2012(Drinking Water Standard)	Minimum Detection Limit
1	Colour	Hazen	APHA 2120 B 23rd Edition 2017	<1	5	1
2	Odour	--	APHA 2150 B 23rd Edition 2017	Agreeable	Qualitative	-
3	Turbidity	NTU	APHA 2130 B 23rd Edition 2017	<1	1	1
4	pH at 25°C	--	APHA 4500-H+ B 23rd Edition 2017	7.9	6.5-8.5	2
5	Temperature	°C	APHA 2550 B 23rd Edition 2017	24.6	60	1
6	Conductivity	µmhos/cm	APHA 2510 B 23rd Edition 2017	101	-	1
7	Total Dissolve Solids	mg/L	APHA 2540 C 23rd Edition 2017	50.9	500	1
8	Chloride	mg/L	APHA 4500 Cl B 23rd Edition 2017	4	250	2
9	Fluoride	mg/L	APHA 4500-F D 23rd Edition 2017	<0.1	1	0.1
10	Total Hardness as CaCO <sub>3</sub>	mg/L	APHA 2340 C 23rd Edition 2017	20	200	2
11	Boron	mg/L	APHA 4500-B C 23rd Edition 2017	<0.1	0.5	0.1
12	Calcium	mg/L	APHA 3500-Ca B 23rd Edition 2017	4.8	75	1
13	Aluminium	mg/L	APHA 3111 C-AI B 23rd Edition 2017	<0.02	0.03	0.02
14	Phosphorous	mg/L	APHA 4500-P D 23rd Edition 2017	<0.01	-	0.01
15	Magnesium	mg/L	APHA 3500-Mg B 23rd Edition 2017	1.9	30	--
16	Iron	mg/L	APHA 3111 B 23rd Edition 2017	<0.1	0.3	0.1
17	Sulphates	mg/L	APHA 4500-SO <sub>4</sub> E 23rd Edition 2017	0.65	200	2
18	Nitrate Nitrogen	mg/L	APHA 4500- NO <sub>3</sub> B 23rd Edition 2017	0.56	45	0.1
19	Chromium Total	mg/L	APHA 3111 B 23rd Edition 2017	BDL	0.05	0.1
20	Alkalinity as CaCO <sub>3</sub>	mg/L	APHA 2320 B 23rd Edition 2017	16	200	2





TC-6993

Issue Date : 20/05/2022



ULR No. : TC699322000031512F

Test Report No. : PRPL/WS/290422-001

S.No.	Parameter	Unit	Test Method	Results	IS 10500:2012(Drinking Water Standard)	Minimum Detection Limit
21	Nickel	mg/L	APHA 3111 B 23rd Edition 2017	<0.02	0.02	0.02
22	Manganese	mg/L	APHA 3111 B 23rd Edition 2017	<0.1	0.1	0.1
23	Sodium	mg/L	APHA 3111 B 23rd Edition 2017	4	-	0.1
24	Copper	mg/L	APHA 3111 B 23rd Edition 2017	<0.02	0.05	0.02
25	Potassium	mg/L	APHA 3111 B 23rd Edition 2017	0.8	-	0.1
26	Cadmium	mg/L	APHA 3111 B 23rd Edition 2017	<0.001	0.003	0.001
27	Lead	mg/L	APHA 3111 B 23rd Edition 2017	<0.01	0.01	0.01
28	Lithium	mg/L	APHA 3500-Li B 23rd Edition 2017	<0.1	-	0.1
29	Zinc	mg/L	APHA 3111 B 23rd Edition 2017	<0.01	5	0.01
30	Total Suspended solids	mg/L	APHA 2540-D 23rd Edition 2017	<1	-	1

\*BDL-Below Detection Limit

**Remarks:**

1. The results mentioned above relate only to the Sample received and Tested by us.
2. The test report shall not be reproduced either in full or part without the written approval of the Laboratory.
3. Samples received shall be disposed off after one month from the date of issue of Test Report unless specified otherwise.
4. Samples for BOD and DO, Colour shall be disposed off after 7 days from the date of issue of test report.

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

*Shubham*  
Analyst

*Chandra Shekhar Jha*  
Authorized Signatory  
**Authorized Signatory**  
**Chandra Shekhar Jha**



Issue Date : 20/05/2022

**TEST REPORT**

**Waste Water (Effluents/ Sewage) Analysis**

ULR No. : TC699322000031513F

Test Report No. : PRPL/WS/290422-002

Name of the Customer : Artemis Medicare Services Limited  
 Name & Address of the project : "Artemis Hospital" at Sector- 51, Gurugram--122001, Haryana

Location of Sampling & GPS detail : Onsite  
 Sampling Plan & Procedure : PRPL/WP/WS/058  
 Date of Monitoring/ Date of collection : 29/04/2022  
 Date of Receipt of Sample at lab : 29/04/2022  
 Sample Description : STP Inlet (325 KLD)  
 Sample Quantity : 2 Lt.  
 Sample Collected by : Mr. Abhimanyu  
 Tests started on : 30/04/2022  
 Tests Completed on : 06/05/2022

**RESULTS**

S.No.	PARAMETER	Unit	Test Method	Results
1	pH at 25°C	--	APHA 4500-H+ B 23rd Edition 2017	7.1
2	Chemical oxygen demand	mg/L	APHA 5220 B&C, 23rd edition 2017	200
3	Oil & Grease	mg/L	APHA 5520 B 23rd edition 2017	8
4	Total Suspended solids	mg/L	APHA 2540-D 23rd edition 2017	16
5	Biochemical Oxygen Demand (BOD @ 27°C for 3 days)	mg/l	IS 3025 (P-44) Reaffirmed, 2009	36.6

**Remarks:**

1. The results mentioned above relate only to the Sample received and Tested by us.
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3. Samples received shall be disposed off after one month from the date of issue of Test Report unless specified otherwise.
4. Samples for BOD and DO, Colour shall be disposed off after 7 days from the date of issue of test report.

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

*Shukla*  
Analyst

*Chandra Shekhar Jha*  
Authorized Signatory  
Chandra Shekhar Jha



TC-6993



**TEST REPORT**

Issue Date : 20/05/2022

**Waste Water (Effluents/ Sewage) Analysis**

ULR No. : TC699322000031514F

Test Report No. : PRPL/WS/290422-003

Name of the Customer : Artemis Medicare Services Limited  
 Name & Address of the project : "Artemis Hospital" at Sector- 51, Gurugram--122001, Haryana

Location of Sampling & GPS detail : Onsite  
 Sampling Plan & Procedure : PRPL/WP/WS/058  
 Date of Monitoring/ Date of collection : 29/04/2022  
 Date of Receipt of Sample at lab : 29/04/2022  
 Sample Description : STP Outlet (325 KLD)  
 Sample Quantity : 2 Lt.  
 Sample Collected by : Mr. Abhimanyu  
 Tests started on : 30/04/2022  
 Tests Completed on : 06/05/2022

**RESULTS**

S.No.	PARAMETER	Unit	Test Method	Results	Standard Limits
1	pH at 25°C	--	APHA 4500-H+ B 23rd Edition 2017	7.3	5.5-9
2	Chemical oxygen demand	mg/L	APHA 5220 B&C, 23rd edition 2017	80	<250
3	Oil & Grease	mg/L	APHA 5520 B 23rd edition 2017	4	<10
4	Total Suspended solids	mg/L	APHA 2540-D 23rd edition 2017	10	<100
5	Biochemical Oxygen Demand (BOD @ 27°C for 3 days)	mg/l	IS 3025 (P-44) Reaffirmed, 2009	18.9	<30

**Remarks:**

1. The results mentioned above relate only to the Sample received and Tested by us.
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3. Samples received shall be disposed off after one month from the date of issue of Test Report unless specified otherwise.

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

*Shubham*  
Analyst

Authorized Signatory  
**Authorized Signatory**  
**Chandra Shekhar Jha**



Issue Date : 20/05/2022

**TEST REPORT**

**ETP (Effluent Treatment Plant) Analysis**

ULR No. : TC699322000031515F

Test Report No. : PRPL/WS/290422-004

Name of the Customer : Artemis Medicare Services Limited  
 Name & Address of the project : "Artemis Hospital" at Sector- 51, Gurugram--122001, Haryana

Location of Sampling & GPS detail : Onsite  
 Sampling Plan & Procedure : PRPL/WP/WS/058  
 Date of Monitoring/ Date of collection : 29/04/2022  
 Date of Receipt of Sample at lab : 29/04/2022  
 Sample Description : ETP Inlet (25 KLD)  
 Sample Quantity : 2 Lt.  
 Sample Collected by : Mr. Abhimanyu  
 Tests started on : 30/04/2022  
 Tests Completed on : 06/05/2022

**RESULTS**

S.No.	PARAMETER	Unit	Test Method	Results
1	pH at 25°C	--	APHA 4500-H+ B 23rd Edition 2017	6.2
2	Chemical oxygen demand	mg/L	APHA 5220 B&C, 23rd edition 2017	560
3	Oil & Grease	mg/L	APHA 5520 B 23rd edition 2017	6
4	Total Suspended solids	mg/L	APHA 2540-D 23rd edition 2017	12
5	Biochemical Oxygen Demand (BOD @ 27°C for 3 days)	mg/l	IS 3025 (P-44) Reaffirmed, 2009	31.7

**Remarks:**

1. The results mentioned above relate only to the Sample received and Tested by us.
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3. Samples received shall be disposed off after one month from the date of issue of Test Report unless specified otherwise.
4. Samples for BOD and DO, Colour shall be disposed off after 7 days from the date of issue of test report.

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

*Abhimanyu*  
Analyst

*Chandra Shekhar Jha*  
Authorized Signatory  
Perfact Researchers Pvt Ltd  
Chandra Shekhar Jha



Issue Date : 20/05/2022

**TEST REPORT**

**ETP (Effluent Treatment Plant) Analysis**

Test Report No. : PRPL/WS/290422-005

ULR No. : TC699322000031516F

Name of the Customer

Name & Address of the project

: Artemis Medicare Services Limited  
 "Artemis Hospital" at Sector- 51, Gurugram--122001, Haryana

Location of Sampling & GPS detail : Onsite  
 Sampling Plan & Procedure : PRPL/WP/WS/058  
 Date of Monitoring/ Date of collection : 29/04/2022  
 Date of Receipt of Sample at lab : 29/04/2022  
 Sample Description : ETP Outlet (25 KLD)  
 Sample Quantity : 2 Lt.  
 Sample Collected by : Mr. Abhimanyu  
 Tests started on : 30/04/2022  
 Tests Completed on : 06/05/2022

**RESULTS**

S.No.	PARAMETER	Unit	Test Method	Results	Prescribed Standard
1	pH at 25°C	--	APHA 4500-H+ B 23rd Edition 2017	6.2	5.5-9
2	Chemical oxygen demand	mg/L	APHA 5220 B&C, 23rd edition 2017	216	<250
3	Oil & Grease	mg/L	APHA 5520 B 23rd edition 2017	2	<10
4	Total Suspended solids	mg/L	APHA 2540-D 23rd edition 2017	8	<100
5	Biochemical Oxygen Demand (BOD @ 27°C for 3 days)	mg/l	IS 3025 (P-44) Reaffirmed, 2009	26.8	<30

**Remarks:**

1. The results mentioned above relate only to the Sample received and Tested by us.
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3. Samples received shall be disposed off after one month from the date of issue of Test Report unless specified otherwise.

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

*Shubham*  
Analyst

Perfact Researchers Pvt. Ltd.  
 Authorized Signatory  
**Chandra Shekhar Jha**



Issue Date : 20/05/2022

## TEST REPORT Soil/Sediments Analysis

ULR No. : TC699322000031517F

Test Report No. : PRPL/SS/290422-001

Name of the Customer

: Artemis Medicare Services Limited

Name & Address of the project

: "Artemis Hospital" at Sector- 51, Gurugram--122001, Haryana

Location of Sampling & GPS detail : Onsite

Sampling Plan & Procedure : PRPL/WP/SS/030

Date of Monitoring/ Date of collection : 29/04/2022

Date of Receipt of Sample at lab : 29/04/2022

Sample Description : Composite Sample

Sample Quantity : 1 Kg

Sample Collected by : Mr. Abhimanyu

Tests started on : 30/04/2022

Tests Completed on : 06/05/2022

## RESULTS

S.No.	PARAMETER	Unit	Test Method	Results	Range Of Detection
1	pH	--	ISO-10390: 2005	8.2	1 - 12
2	Colour	--	Munsell Chart	4/3 (Brown)	--
3	Moisture Content	%	IS: 2720 PART -2	1.1	0.1-40
4	Organic Matter	%	IS: 2720 (Part xxii)-1972, Reaffirmed 2010	0.78	0.01-10
5	Electrical Conductivity (EC)	µS/cm	IS :4767: 2000	435.8	1-1000
6	Available Nitrogen	mg/kg	ISO: 14256	92.6	5-500
7	Calcium as (Ca)	mg/kg	ISO : 11260	268.8	5-3000
8	Magnesium as (Mg)	mg/kg	ISO : 11260	210.1	10-2500
9	Potassium (as K)	mg/kg	ISO : 11260	35.7	1- 1000
10	Nitrate (as NO <sub>3</sub> )	mg/kg	ISO : 4256:2003	44.4	5-500
11	Phosphorus Available (as P)	mg/kg	Lab SOP No. 002 Dated 30.06.2015 based on USDA M 61, 1954, edition by LA Richards	42.8	5 - 500
12	Available Chloride (as Cl)	mg/kg	Lab SOP No. 010, dated 30.06.2015 based on (USDA M 13) by 1954, edition by LA Richards	195.0	5 - 1000
13	Cation Exchange Capacity (CEC)	meq/100 mg	ISO : 11260: 1994 (E) (Reissued in 1996)	48.7	5-300
14	Sulphur (as S)	mg/kg	Lab SOP No. 012, dated: 30.06.2015 based on Soil Testing in India by Ministry of Agriculture, GOI	<1	1- 200
15	Sodium as (Na)	mg/kg	ISO : 11260	182.5	1-1000



TC-6993

Issue Date : 20/05/2022



ULR No. : TC699322000031517F

Test Report No. : PRPL/SS/290422-001

S.No.	PARAMETER	Unit	Test Method	Results	Range Of Detection
16	Bicarbonate Alkalinity as (CaCO <sub>3</sub> )	mg/kg	Lab SOP no. 008 dated 30.06.2015 (USDA M-12, 1954 Edition by LA Richards) Reissued in 1969	36.6	2 - 1000
17	Texture	--	IS 2720 PART- 4	Silt Loam	---
	a. Sand	%	IS 2720 PART- 4	12.1	0-100
	b. Silt	%	IS 2720 PART- 4	69.5	0-100
	c. Clay	%	IS 2720 PART- 4	18.3	0-100
18	Bulk Density	gm/cc	ISO : 11272	1.28	0.1-8
19	Porosity	%	Lab SOP No. 016, dated 30.06.2015 based on (USDA M 40) by 1954, edition by LA Richards	25.2	5-40

Remarks:

1. The results mentioned above relate only to the Sample received and Tested by us.
2. The test report shall not be reproduced either in full or part without the written approval of the Laboratory.
3. Samples received shall be disposed off after one month from the date of issue of Test Report unless specified otherwise.

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

Manoj Kumar  
Analyst

Perfact Researchers Pvt. Ltd.  
Authorized Signatory  
Authorized Signatory  
Chandra Shekhar Jha



**TEST REPORT**  
**Ambient Noise Analysis**

Issue Date : 26/05/2022

ULR No. : TC699322000031631F

Test Report No. : PRPL/NS/290422-001

Name of the Customer : Artemis Medicare Services Limited  
Name & Address of the project : "Artemis Hospital" at Sector- 51, Gurugram--122001, Haryana

Location of Sampling & GPS detail : Onsite  
Sampling Plan & Procedure : PRPL/WP/NS/001-002  
Date of Monitoring/ Date of collection : 28/04/2022 To 29/04/2022  
Date of Receipt of Sample at lab : 29/04/2022  
Sample Description : Ambient Noise  
Sample Collected by : Mr. Anshul & Mr. Abhimanyu  
Sampling Period : 24 Hr  
Tests started on : 30/04/2022  
Tests Completed on : 30/04/2022

**RESULTS**

S.No.	Time	Unit	Test Method	Leq Values	Standard Limit
1	Sound Pressure Level Day Time (06:00 - 22:00)	Leq dB(A)	IS: 9989-1981 Reaffirmed 2014	56.9	50.0
2	Sound Pressure Level Night Time (22:00 - 06:00)	Leq dB(A)	IS: 9989-1981 Reaffirmed 2014	46.2	40.0

**Remarks:**

1. The results mentioned above relate only to the Sample received and Tested by us.
2. The test report shall not be reproduced either in full or part without the written approval of the Laboratory.
3. Samples received shall be disposed off after one month from the date of issue of Test Report unless specified otherwise.

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

*Son. Singh*  
Analyst

*Chandra Shekhar Jha*  
Authorized Signatory  
**Authorized Signatory**  
**Chandra Shekhar Jha**





## TEST REPORT Source Noise Analysis

Issue Date : 26/05/2022

ULR No. : TC699322000031632F

Test Report No. : PRPL/NS/290422-002

Name of the Customer : Artemis Medicare Services Limited  
Name & Address of the project : "Artemis Hospital" at Sector- 51, Gurugram--122001, Haryana

Location of Sampling & GPS detail : Onsite  
Sampling Plan & Procedure : PRPL/WP/NS/001-002  
Date of Monitoring/ Date of collection : 29/04/2022  
Date of Receipt of Sample at lab : 29/04/2022  
Sample Description : DG Set Noise (1250 KVA)  
Sample Collected by : Mr. Abhimanyu  
Sampling Period : 30 Min.  
Tests started on : 30/04/2022  
Tests Completed on : 30/04/2022

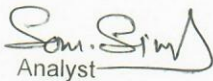
## RESULTS


S.No.	Time	Units	Test Method	Leq	Specifications
1	DG Set	KVA	-	1250	
2	Inside Lmin Value	dB(A)	IS:4758	99.8	-
3	Inside Lmax Value	dB(A)	IS:4758	103.1	-
4	Inside Leq Value	dB(A)	IS:4758	99.2	-
5	Outside Lmin Value	dB(A)	IS:4758	72.3	-
6	Outside Lmax Value	dB(A)	IS:4758	77.6	-
7	Outside Leq Value	dB(A)	IS:4758	73.5	-
8	Insertion Loss Value	dB(A)	IS:4758	25.7	>25 dB(A)

### Remarks:

1. The results mentioned above relate only to the Sample received and Tested by us.
2. The test report shall not be reproduced either in full or part without the written approval of the Laboratory.
3. Samples received shall be disposed off after one month from the date of issue of Test Report unless specified otherwise.

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

  
Analyst

  
Authorized Signatory  
Chandra Shekhar Jha



## TEST REPORT Stack Emission Analysis

Issue Date : 25/05/2022

ULR No. : TC699322000031546F

Test Report No. : PRPL/SE/290422-001

Name of the Customer : Artemis Medicare Services Limited  
Name & Address of the project : "Artemis Hospital" at Sector- 51, Gurugram--122001, Haryana

Location of Sampling & GPS detail : Onsite  
Sampling Plan & Procedure : PRPL/WP/STS/001-008  
Date of Monitoring/ Date of collection : 29/04/2022  
Date of Receipt of Sample at lab : 29/04/2022  
Sample Description : DG Stack (1250 KVA)  
Sample Collected by : Mr. Tarun & Mr. Anil  
Manufacture Model & Serial no. : VSS1 by Vayubodhan Upkaran Pvt. Ltd.  
Sampling Time period : 42.0 Minutes  
Ambient Temperature : 42°C  
Humidity : 14%  
Wind Speed & Direction : 9.6 Km/hr, East  
Tests started on : 30/04/2022  
Tests Completed on : 04/05/2022

### RESULTS

S.No.	Parameter	Units	Test Method	Values
1	Stack attached to	KVA	-	1250
2	Stack Diameter	m	-	0.45
3	Stack Height	m	-	30
4	Sample Quantity PM	Lt	IS: 11255 Part-3	916.02
5	Sample Quantity Gases	Lt	IS: 11255 Part-3	83.98
6	Stack Temperature	°C	IS: 11255 Part-3	214
7	Stack Velocity	m/s	IS: 11255 Part-3	12.54
8	Flow Rate	m3/ hr	IS: 11255 Part-3	7176.20
9	Particulate Matter	mg/Nm3	IS: 11255 Part-1	56.3
10	Sulphur Dioxide	mg/Nm3	IS: 11255 Part-2	38.4
11	Oxides of Nitrogen	mg/Nm3	USEPA Method-7B	212.7



Issue Date : 25/05/2022


ULR No. : TC699322000031546F


Test Report No. : PRPL/SE/290422-001

Remarks:

1. The results mentioned above relate only to the Sample received and Tested by us.
2. The test report shall not be reproduced either in full or part without the written approval of the Laboratory.
3. Samples received shall be disposed off after one month from the date of issue of Test Report unless specified otherwise.

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

  
Analyst

  
Authorized Signatory  
**Chandra Shekhar Jha**