

APPENDIX I
(See paragraph6)
FORM 1

I. Basic Information

S. No.	Item	Details			
1.	Name of the project	Proposed Expansion of Existing “ARTEMIS HOSPITAL” at Sector-51, Gurgaon (Haryana)			
2.	S. No. in the Schedule	Project or Activity-8 (a)]			
3.	Proposed capacity/area/length/tonnage to be handled/command area/lease area/number of wells to be drilled	The proposal is for expansion of existing ARTEMIS HOSPITAL, details are as follows:			
		Particular	Existing	Proposed	Details of project after expansion
		Plot Area Sq. mt.	8.3 acres or 33588.908 sq. mt.	-	8.3 acres or 33588.908 sq. mt.
		Permissible F.A.R. Sq. mt. @ 1.5	50383.362 sq. mt.	-	50383.362 sq. mt.
		Proposed F.A.R. Sq.mt.	30351.796 sq. mt. (Hospital + Residential)	19561.73 sq. mt. + 40.50 sq. mt. (Hospital + Pharmacy + Residential)	49954.02 sq. mt.
		Permissible Ground Coverage Sq. mt.	9127.227 sq. mt.	-	9127.227 sq. mt.
		Proposed Ground Coverage Sq. mt.	5907.39 sq. mt. (Hospital + Residential)	3134.984 sq. mt. (Hospital + Pharmacy)	9043.174 sq. mt.
		Built-up area (Total area in sq. m.)	32222.508 sq. mt.	35262.654 sq. mt.	67485.162 sq. mt.
		F.A.R Area in sq. m.	30351.796 sq. mt.	19602.239 sq. mt.	49954.02 sq. mt.
		Non F.AR Area in sq. m.	1870.712 sq. mt.	5391.97 sq. mt.	7262.682 sq. mt.
		Basement Area in sq. m.	-	10268.44 sq. mt.	10268.44 sq. mt.
		No. of Beds	206 Beds	400 Beds	606 Beds
		Green area sq.mt.	10076.67 sq. mt. (30 % of total plot area)		
4.	New/Expansion/Modernization	Proposed Expansion of Existing “ARTEMIS HOSPITAL” at Sector-51, Gurgaon (Haryana)			

5.	Existing Capacity/Area etc.	In earlier project planning the total plot area & total built-up area was 33588.908 sq. mt. & 32222.508 sq. mt. respectively. After above said expansion the proposal will have same plot area, as per earlier area and total built up area of the project after expansion in project planning is 67485.162 sq. mt. Land document/Lease Deed is being enclosed as Annexure I
6.	Category of Project i.e.' A' or 'B'	Category 'B'
7.	Does it attract the general condition? If yes, Please specify.	No, it does not attract the general condition, as General Conditions are not applicable on S. No. – 8 projects of EIA Notification dated 14.09.2006
8.	Does it attract the specific condition? If 'yes, please specify.	No, it does not attract the specific condition, as Specific Conditions are not applicable on S. No. – 8 projects of EIA Notification dated 14.09.2006.
9.	Location:	Sector-51, Gurgaon (Haryana)
	Plot/Survey/Khasra. No.	-
	City	Gurgaon
	State	Haryana
10.	Nearest Railway Station/ Airport along with distance in kms.	Gurgaon Railway Station -is located approx 9.0 km in NW direction.
11.	Nearest Town, city, District Headquarters along with distance in kms.	Project Site lies within the Municipal Authority Limits of Gurgaon City.
12.	Village Panchayats, Zilla Parishad, Municipal Corporation, Local body (complete postal addresses with telephone nos. to be given)	Haryana Urban Development Authority, HUDA Office Complex, Sector 14, Gurgaon – 122001 (Haryana) Phones: 0124 –2321650
13.	Name of the applicant	M/s. Artemis Medicare Services Ltd.
14.	Registered address	414/1, 4th Floor, DDA Commercial Complex District Centre, Janakpuri, New Delhi-110058
15.	Address for correspondence (1) :	
	Name	Mr. Navneet Goel Authorization Letter is being enclosed with land document, as Annexure -I
	Designation (Owner/ Partner/CEO)	Authorized Signatory

	Address	T-801, Homes 121, Sector 121, Noida, Gautam budh Nagar, 201309
	Pin Code	201309
	E-mail	navneetg@artemishospitals.com
	Phone No.	09716811116
	Fax No.	-
	Address for correspondence (2):	Environment Consultant Mr. Sunil Dixit (Associate Director) J. M. EnviroNet (P) Ltd. 1st & 2nd Floor, S.C.O. 16, Sector 10 – A, Gurgaon (Haryana) Tel. 0124 – 3206559 Mobile No. 09971699906 Email: jmgurgaon@hotmail.com Disclosure of the consultant has been enclosed as <i>Annexure II.</i>
16.	Details of Alternative Sites examined, if any. Location of these sites should be shown on a Topo-Sheet.	No alternative site has been taken into consideration, as it is case of a Proposed Expansion of Existing “ARTEMIS HOSPITAL” within project premises.
17.	Interlinked Projects	There are no interlinked projects related to this project as this is a Proposed Expansion of Existing “ARTEMIS HOSPITAL” within project premises.
18.	Whether separate application of interlinked project has been submitted	Not Applicable, As this is a Proposed Expansion of Existing “ARTEMIS HOSPITAL” within existing project premises.
19.	If yes, date of submission	Not Applicable, As this is a Proposed Expansion of Existing “ARTEMIS HOSPITAL” within existing project premises.
20.	If no, reason	Not Applicable, As this is a Proposed Expansion of Existing “ARTEMIS HOSPITAL” within project premises.
21.	Whether the proposal involves approval/clearance under: if yes, details of the same and their status to be given. (a) The Forest (Conservation) Act, 1980 ?	Not Applicable, No approval/Clearance involves under any Notification and under any Act, As It is a Proposed Expansion of Existing “ARTEMIS HOSPITAL” within existing project premises.

	(b) The Wildlife (Protection) Act, 1972 ? (c) The C.R.Z. Notification, 1991?	
22.	Whether there is any Government Order/ Policy relevant/ relating to the site?	Not any
23.	Forest land involved (hectares)	No Forest land involved in project
24.	Whether there is any litigation pending against the project and/or land in which the project is proposed to be set up? (a) Name of the Court (b) Case No. (c) Orders/directions of the Court, if any and its relevance with the proposed project	Not applicable, as no litigation is pending against the project and/or land in which the Expansion is proposed.

II. Activity

1. Construction, operation or decommissioning of the Project involving actions, which will cause physical changes in the locality (topography, land use, changes in water bodies, etc.)

S. No	Information / Checklist confirmation	Yes/ No	Details thereof (with approximate quantities/ rates, wherever possible) with source of information data
1.1	Permanent or temporary change in land use, land cover or topography including increase in intensity of land-use (with respect to local land-use plan)	Yes	The proposed Project involves construction of new building within existing project premises; hence no change in land-use is envisaged. Green area (Organized Green) after expansion will be 10076.67 sq. mt. (30 % of total plot area).
1.2	Details of Existing Building which requires clearance/demolish for Expansion?	Yes	Few small bushes need to be removed from site before starting of construction of new buildings. Site photographs showing the present condition of the site has been enclosed as Annexure-III
1.3	Creation of new land uses?	No	As, it is a Proposed Expansion of Existing “ARTEMIS HOSPITAL”. Hence no creation of new land use. Location Map of the project site along with Gurgaon Master Plan is being enclosed as Annexure -IV .
1.4	Pre-construction investigations e.g. bore houses, soil testing?	Yes	Soil investigation was carried out and the results were found satisfactory.
1.5	Construction works?	Yes	The project is a Proposed Expansion of Existing “ARTEMIS HOSPITAL”. The project proposal involves construction of new buildings covering an

			area of 3134.984 sq. mt. The construction activities will be confined within the project site; there will be no physical changes due to project development activities outside the project boundary.
1.6	Demolition works?	Yes	Site is having some existing structures and hence there will be requirement of demolition activities.
1.7	Temporary sites used for construction works or housing of construction workers?	No	Construction workers will be hired from nearby local area, so no temporary labour hutments are proposed to be constructed for proposed expansion. There will be provision of facilities such as rest shelter, drinking water, toilet etc. for workers at the project site & will be arranged by owner/contractor.
1.8	Above ground buildings, structures or earthworks including linear structures, cut and fill or excavations.	Yes	Excavation will be carried out for foundation and construction of basement. The total excavated earth material will be used for the purpose of back-filling & leveling of site.
1.9	Underground works including mining or tunneling?	No	No underground works including mining / tunneling is required, except excavation of earth for Basement.
1.10	Reclamation works?	No	No reclamation work required, as this is a Proposed Expansion of Existing “ ARTEMIS HOSPITAL ” within existing project premises.
1.11	Dredging?	No	No dredging required, as case of Proposed Expansion of Existing “ ARTEMIS HOSPITAL ” within existing project premises.
1.12	Offshore structures?	No	There are not any offshore structures, as case of Proposed Expansion of Existing “ ARTEMIS HOSPITAL ” within existing project premises.
1.13	Production and manufacturing processes?	No	Since, it is Proposed Expansion of Existing “ ARTEMIS HOSPITAL ”, hence, no production / manufacturing process is involved in this project.
1.14	Facilities for storage of goods or materials?	Yes	Separate raw material storage yard will be made during construction phase: <ul style="list-style-type: none"> • Cement will be separately stored under cover in bales. • Sand will be stacked neatly under tarpaulin cover.

			<ul style="list-style-type: none"> • Bricks and steel will be laid in open. • The raw material handling yard will be located within the project site and separated by enclosures
1.15	Facilities for treatment or disposal of solid waste or liquid effluents?	Yes	<p><u>Solid Waste</u></p> <p>Solid wastes which are likely to be generated in project will be domestic, construction and biomedical in nature.</p> <p><u>Domestic wastes:</u></p> <p>Approximately, 1278 kg/day solid waste estimated to be generated from the project activity; this will be collected from designated locations and segregated into inorganic and organic wastes. The domestic waste shall be handed over to authorized vendors for its safe disposal.</p> <p><u>Biomedical Waste:</u> Approx. 859 kg/day of biomedical waste generate during the operation phase of the project which will be outsourced to Synergy Waste Management Co. for its safe disposal, as per Biomedical wastes (handling & Management) rule 1998.</p> <p><u>Liquid Effluent:</u></p> <p>There will not be any liquid effluent during construction phase of new building blocks except, sewage generation from toilets, which will be treated in existing STP. During operation phase, 604 KLD of waste water will be generated from entire project and will be treated in the Sewage Treatment Plant (STP) having capacity of 750 KLD up to tertiary level.</p> <p>Dewatered/ dried sludge from STP will be used as manure in horticulture.</p> <p><u>Hazardous Waste:</u></p> <p>Only source of Hazardous waste generation from the hospital will be from D.G. Sets which will be 3.44 ltr/day and it will be stored in the project site and disposed to CPCB authorized recyclers (M/s Paswara Chemicals Limited-Meerut).</p> <p><u>E-Waste:</u></p> <p>E-waste generation will be 33.15 kg it will be collected separately and transported to CPCB</p>

			Authorized E-waste Recyclers namely M/s. TIC Group India Pvt. Ltd.
1.16	Facilities for long term housing of operational worker	Yes	The housing facility for permanent staff has been already provided in existing building. More flats/ Residential units will be constructed.
1.17	New road, rail or sea traffic during construction or operation?	No	The project site is well connected by wide service road, So no new road will be laid during construction or operation of the project activities except for internal roads.
1.18	New road, rail, air waterborne or other transport infrastructure including new or altered routes and stations, ports, airports etc?	No	The project site is located in a developed area. It is well connected by roads to the City, so there will be no alteration of routes or laying down of new routes done due to project activity. Internal roads & pathways will be constructed within the project site for smooth movement of traffic.
1.19	Closure or diversion of existing transport routes or infrastructure leading to changes in traffic movements?	No	There will not be any closure or diversion of existing transport routes, as the Proposed Expansion of Existing “ ARTEMIS HOSPITAL ”. Thus there will not be any change in traffic movement.
1.20	New or diverted transmission lines or pipelines?	No	There will not be any provision for new or diverted transmission lines or pipelines for this expansion project.
1.21	Impoundment, damming, culverting, realignment or other changes to the hydrology of watercourses or aquifers.	No	No river is present near the project or crossing the project site; hence no impoundment, damming, culverting, realignment, or other changes to the hydrology of surface watercourses are applicable here.
1.22	Stream crossings?	No	As such no river or big drain is passing by the project site.
1.23	Abstraction or transfers of water from ground or surface waters?	Yes	Total water requirement of entire project will be 694 KLD, which will include the fresh water requirement of 602 KLD and recycled treated water requirement of 92 KLD. Total waste water generation from the project will be 604 KLD, which will include 85% of sewage generation from domestic uses and 100 % of flushing uses. The capacities of STP for expansion will be 750 KLD. Treated water recovery from STP will be 543 KLD for flushing (92 KLD), Green area development/Road Washing (25 KLD) and 200 KLD for Cooling Tower rest 317 KLD will be

			drained to Municipal Sewer.
1.24	Changes in water bodies or the land surface affecting drainage or runoff?	No	There will be no effect on Surface Drainage / Runoff as the land area involved in the project is flat land. Apart from this for collecting storm water, storm water drainage network has been provided during the design as per the guidelines. Adequate measures will be taken to collect run off and suitable garlanding drain as per the contours of the plot will be developed. Thus Surface drainage will not be affected.
1.25	Transport of personnel or materials for construction, operation or decommissioning?	Yes	Transport of personnel / material during construction and operation phases is envisaged. During the construction phase adequate parking space within the project site for loading and unloading of material will be provided. Road network for smooth flow of traffic and adequate parking space will be provided for operational phase. During the operational phase sufficient parking space will be provided for the vehicles like scooters, and cars.
1.26	Long-term dismantling or decommissioning or restoration works?	No	No long term dismantling/ decommissioning is Proposed.
1.27	Ongoing activity during decommissioning which could have an impact on the environment?	No	No decommissioning activity is involved, Thus no impact on the environment by the proposed project.
1.28	Influx of people to an area in either temporarily or permanently?	Yes	All the workers employed / hired will be from nearby areas. Hence, there will be minor influx of people in the area. Temporarily local labours will visit the site during the construction phase and during operation phase approx 2500 Persons will be involved in the entire project after expansion.
1.29	Introduction of alien species?	No	All the plant / tree species grown in the project premises are indigenous to the area; same will be continued so introduction of alien species is not envisaged.
1.30	Loss of native species or genetic diversity?	No	No loss of native species or genetic diversity has been reported so far.
1.31	Any other actions?	None	No other action will be undertaken except the above mentioned for the expansion of existing

		hospital project.
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2. Use of Natural resources for construction or operation of the Project (such as land, water, materials or energy, especially any resources which are non-renewable or in short supply):

S. No.	Information / Checklist confirmation	Yes/ No	Details thereof (with approximate quantities/ rates, wherever possible) with source of information data
2.1	Land especially undeveloped or agricultural land (ha)	No	The Proposed Project is a Proposed Expansion of Existing "ARTEMIS HOSPITAL" Project on 33588.908 sq. mt. (8.30 Acre) Plot area.
2.2	Water (expected source & competing users) unit: KLD	Yes	Total water requirement of entire project will be 694 KLD, which will include the fresh water requirement of 602 KLD and recycled treated water requirement of 92 KLD. Total waste water generation from the project will be 604 KLD, which will include 85% of sewage generation from domestic uses and 100 % of flushing uses. The capacities of STP for expansion will be 750 KLD. Treated water recovery from STP will be 543 KLD for flushing (92 KLD), Green area development/Road Washing (25 KLD) and 200 KLD for Cooling Tower rest 317 KLD will be drained to Municipal Sewer.
2.3	Minerals (MT)	Yes	Sand and stone aggregates will be used as Construction material.
2.4	Construction material-stone, aggregates, sand/ soil (expected source-MT)	Yes	General Construction Material required for construction consists of Steel, Cement, Stone Aggregate, Sand, Bricks, Glass, Fly - ash based products, etc. Construction materials required as follows Source: Steel and cement will be procured from authorized vendors. Sand & aggregate will be procured from local material suppliers.
2.5	Forests and timber (source-MT)	No	Timber required will be taken from nearby markets.
2.6	Energy including electricity and fuels (source, competing users) Unit: fuel (MT), energy (MW)	Yes	Total Power requirement will be 4520 kW Source 11KV supply available from substation. 7 D.G. Sets of 6750 KVA Capacity (1 No. 1500 KVA, 1 No. 1000 KVA, 2 No. 750 KVA & 2 No. 1250 KVA, 1 No. 250 KVA) will be used for back-up Low sulphur diesel (LSD) will be used as fuel to run standby D.G.

			sets.
2.7	Any other natural resources (use appropriate standard units)	None	No other natural resource will be involved in the project except the mentioned above.

3. Use, storage, transport, handling or production of substances or materials, which could be harmful to human health or the environment or raise concerns about actual or perceived risks to human health.

S. No.	Information / Checklist confirmation	Yes/ No	Details thereof (with approximate quantities/rates, wherever possible) with source of information data
3.1	Use of substances or materials, which are hazardous (as per MSIHC rules) to human health or the environment (flora, fauna, and water supplies)	No	The Proposed project is a Proposed Expansion of Existing “ARTEMIS HOSPITAL” and hence, no storage of hazardous chemicals will be done as per MSIHC rules, except LSD required to run D.G. sets, for which the quantity stored will be below the threshold limit specified in the MSIHC rules. Necessary permission if required will be obtained from the Explosives Dept. Biomedical waste generated from hospital will be handed over to authorized processor.
3.2	Changes in occurrence of disease or affect disease vectors (e.g. insect or water borne diseases)	No	Suitable drainage and waste management measures will be adopted in both construction and operational phase, which will restrict the stagnation of water or accumulation of waste. This will effectively restrict the reproduction and growth of disease vectors.
3.3	Affect the welfare of people e.g. by changing living conditions?	Yes	No use, storage, transport, handling or production of any harmful product is envisaged from the project activities. Thus, no major adverse impacts on the human health / environment are envisaged. Moreover, the proposed project will have beneficial impacts. It will provide employment to local labours in the construction phase and workers during operation phase.
3.4	Vulnerable groups of people who could be affected by the project e.g. hospital patients, children, the elderly etc.,	No	No effect is envisaged due to this project.
3.5	Any other cause	None	No, other causes are involved except the mentioned above.

4. Production of solid wastes during construction or operation or decommissioning

(MT/month)

S. No.	Information / Checklist confirmation	Yes/ No	Details thereof (with approximate quantities/ rates, wherever possible) with source of information data
4.1	Spoil, overburden or mine wastes	No	No such spoil, overburden or mine wastes will be generated. There will be excavation activity for construction of center building structure. Excavation will be carried out for foundation and construction of building. The excavated quantity of earth material will be used at the site itself for the purpose of Backfilling activities and remaining excavated soil will disposed as per the instruction of MCD for land fill purpose.
4.2	Municipal waste (domestic and or commercial wastes)	Yes	<p>Solid wastes likely to be generated in project are of domestic and biomedical in nature.</p> <p><u>Domestic wastes:</u> Approximately, 1278 kg/day solid waste estimated to be generated from the project activity; this will be collected from designated locations and segregated into inorganic and organic wastes. The domestic waste shall be handed over to authorized vendors for its safe disposal.</p> <p><u>Biomedical Waste:</u> Approx. 859 kg/day of biomedical waste generate during the operation phase of the project which will be outsourced to Synergy Waste Management Co. for its safe disposal, as per Biomedical wastes (handling & Management) rule 1998.</p> <p><u>Mercury Waste Management:</u> There is a proper management plan for the management of mercury spillage from instruments and thermometers and waste containing mercury & X-ray & other radiation emitting rooms is meeting with the prescribed norms by BARC.</p>
4.3	Hazardous wastes (as per Hazardous Waste Management Rules)	No	Used Lub Oil from D.G. sets will be carefully stored in High Density Poly Ethylene (HDPE) drums in isolated covered facility. Used Lub Oil (Spent Oil) is classified as Hazardous Waste Category 5.1 as per Hazardous Wastes (Management, Handling & Transboundary) Rules 2008. This spent oil will be sold to vendors authorized by DPCC / MoEF for the treatment of same. Suitable care will be taken so that spills / leaks of used lub oil from storage will be avoided.

4.4	Other industrial process wastes	No	Not applicable, as this is a Proposed Expansion of Existing "ARTEMIS HOSPITAL".
4.5	Surplus product	No	Not applicable, as this is a Proposed Expansion of Existing "ARTEMIS HOSPITAL".
4.6	Sewage sludge or other sludge from effluent treatment	Yes	The mechanism of sludge drying will be by centrifuge and the dewatered/ dried sludge from STP will be converted to cakes and will be used as manures in horticulture and also disposed to designated municipal area.
4.7	Construction or demolition wastes	Yes	Construction and demolished waste generation will be limited to the construction phase only and will be limited to project site only. These will be reused for backfilling after manual segregation. Unusable and excess construction debris will be disposed at designated places in tune with the local norms. These wastes will be used for road development activities.
4.8	Redundant machinery or equipment	No	No Redundant machinery or equipment is involved.
4.9	Contaminated soils or other materials	No	No Contaminated soils or other materials are involved.
4.10	Agricultural wastes	No	No agricultural waste will be generated.
4.11	Other solid waste	No	Not applicable, as this is a Proposed Expansion of Existing "ARTEMIS HOSPITAL".

5. Release of pollutants or any hazardous, toxic or noxious substances to air (Kg/hr)

S. No.	Information / Checklist confirmation	Yes/ No	Details thereof (with approximate quantities/ rates, wherever possible) with source of information data
5.1	Emissions from combustion of fossil fuels from stationary or mobile sources	Yes	The operation of proposed project does not envisage any major air pollutant generating sources except D.G. sets and vehicular movement. The emissions from stationary sources (D.G. sets) have been predicted. The DG sets will be the only source of Air emission Used during the operation phase in case of power failure. Stacks of adequate height will be provided (as per the CPCB norms) to disperse the pollutants generated from D.G Sets.
5.2	Emissions from production processes	No	Not applicable, as this is a building construction project.

5.3	Emissions from materials handling including storage or transport	Yes	Dust emissions may arise due to the material handling during construction phase. These will be restricted to the construction phase and to the construction site only. Regular water sprinkling & tarpaulin covers will be provided to prevent dust emissions.
5.4	Emissions from construction activities including plant and equipment	Yes	This will be restricted to the construction phase and to the construction site only. Though, it will be negligible in amount as they will occur from the equipments movement involved in the construction, still suitable preventive measure will be taken.
5.5	Dust or odours from handling of materials including construction materials, sewage and waste	Yes	Dust is likely to be generated during construction. Water sprinkled and tarpaulin covers will be provided over stored raw material to reduce dust emission. On site temporary sanitation facilities will be provided for construction workers during construction phase. Hence, no odor generation is envisaged.
5.6	Emissions from incineration of wastes	No	Not applicable, as this is an Expansion project and there will be not any incineration waste involved in this project.
5.7	Emissions from burning of waste in open air (e.g. slash materials, construction debris)	No	Not applicable, as this is an Expansion project within the premises. So, Open burning of biomass / other material will be prohibited.
5.8	Emissions from any other sources	No	No other Emissions from any other sources, except mentioned above.

6. Generation of Noise and Vibration, and Emissions of Light and Heat:

S. No.	Information / Checklist confirmation	Yes/ No	Details thereof (with approximate quantities/rates, wherever possible) with source of information data
6.1	From operation of equipment e.g. engines, ventilation plant, crushers	Yes	The machinery which will be used for construction will be of high standard and will adhere to international standard. These standards itself take care of noise pollution control / vibration control and air emission control. Hence insignificant impacts due to construction machinery are envisaged. Apart from this, the construction activities will be restricted to daytime only. Sources of noise in the operational phase will be D.G. sets and from vehicular movements only. D.G. sets will be kept in acoustic enclosures/room. The D.G. sets will be used during power failure only and will generate

			noise level below 75 dB (A).
6.2	From industrial or similar processes	No	Not applicable, as this is a building construction project. No major noise and vibration generating activities are involved in the project, except due to running of various construction equipments/ machinery & D.G. Sets during the construction of the project. Proper maintenance of machineries will reduce the generation of noise and vibration. All the workers will be equipped with PPE's during construction phase and the D.G. Sets will be installed in acoustic enclosures with proper padding system to reduce vibration impact.
6.3	From construction or demolition	Yes	Due to the various construction activities, there will be short-term noise impacts in the immediate vicinity of the project site. The construction activities will include the following noise generating activities: <ul style="list-style-type: none"> • Excavation activities • Concreting and mixing • Construction activity • Heavy vehicle movement • Operation of D.G. sets.
6.4	From blasting or piling	No	No blasting or mechanized piling will be done in construction phase.
6.5	From construction or operational traffic	Yes	Some noise will be generated from vehicular movement in the construction and operational phase. Sufficient tree plantation existing at project site to reduce the impact of the air and Noise pollution.
6.6	From lighting or cooling systems	No	No significant noise impact will result from lightening or cooling system.
6.7	From any other sources	No	There will be no other sources for noise & vibration generation except the mentioned above

7. Risks of contamination of land or water from releases of pollutants into the ground or into sewers, surface waters, groundwater, coastal waters or the sea:

S. No.	Information/ Checklist confirmation	Yes/ No	Details thereof (with approximate quantities/rates, wherever possible) with source of information data
7.1	From handling, storage, use or spillage of hazardous materials	No	Used oil from D.G. sets will be handled with care; it will be stored in HDPE drums and handover to authorized vendor. Hence, no risk of contamination is envisaged. All precaution will be taken to avoid spillage from storage as per the Hazardous Wastes

			(Management, Handling & Trans boundary Movement) rules 2008.
7.2	From discharge of sewage or other effluents to water or the land(expected mode and place of discharge)	No	Total water requirement of entire project will be 694 KLD, which will be include the fresh water requirement of 602 KLD and recycled treated water requirement of 92 KLD. Total waste water generation from the project will be 604 KLD, which will be includes 85% of sewage generation from domestic uses and 100 % of flushing uses. The capacities of STP for expansion will be 750 KLD. Treated water recovery from STP will be 543 KLD for flushing (92 KLD), Green area development/Road Washing (25 KLD) and 200 KLD for Cooling Tower rest 317 KLD will be drained to Municipal Sewer.
7.3	By deposition of pollutants emitted to air into the land or into water	No	Minor Air emissions will be generated due to increased vehicular movement and occasional use of D.G. sets for which effective measures will be taken like adequate greenbelt development and use of low sulphur diesel in D.G. sets etc. So, there would not be any deposition of pollutants emitted to air, land or water.
7.4	From any other sources	No	No any other sources are involved except the mentioned above.
7.5	Is there a risk of long term build up of pollutants in the environment from these sources?	No	Likelihood of such an event is not foreseen till now in the area and suitable measures will be adopt to control and reduce emission, so that there will be no such risk in the coming future.

8. Risk of accidents during construction or operation of the Project, which could affect human health or the environment

S. No.	Information / Checklist confirmation	Yes/ No	Details thereof (with approximate quantities/rates, wherever possible) with source of information data
8.1	From explosions, spillages, fires etc from storage, handling, use or production of hazardous substances	No	This is an expansion of existing hospital project and does not involve major hazardous construction activity. Hence chances of explosions, spillages, fires etc. are minimal. During construction, suitable personal protective equipment will be provided to all construction workers as required under the health & safety norms. Awareness & Training about safety norms will be provided to all the supervisors and

			<p>construction workers involved in construction activities</p> <p>No major hazardous waste will be stored within project site. No industrial or process activity is involved in this project hence chances of chemical hazards and accidents are minimal. However, suitable fire fighting measures will be provided to reduce chances of fire-accidents.</p>
8.2	From any other causes	No	No any other causes are involved except the mentioned above.
8.3	Could the project be affected by natural disasters causing environmental damage (e.g. floods, earthquakes, landslides, cloudburst etc)?	No	<p>No cases are reported so far and chances are minimal. The site is selected carefully keeping in view all the factors to avoid any environmental damage due to natural disasters.</p> <p>The project area falls in Zone-IV of Seismic Zoning Map of India. The seismic factors have been appropriately incorporated in the civil designs for the proposed Construction Project.</p>

9. Factors which should be considered (such as consequential development) which could lead to environmental effects or the potential for cumulative impacts with other existing or planned activities in the locality

S. No.	Information / Checklist confirmation	Yes/ No	Details thereof (with approximate quantities/rates, wherever possible) with source of information data
9.1	Lead to development of supporting utilities, ancillary development or development stimulated by the project which could have impact on the environment e.g.	Yes	The proposed project is for Proposed Expansion of Existing "ARTEMIS HOSPITAL"; it may lead to development of supporting services and infrastructure in and around the area.
	•Supporting infrastructure (roads, power supply, waste or waste water treatment, etc.)	Yes	The project will have positive impact on the ancillary infrastructure like roads, markets, public health, amenities, conveyance facilities etc. in the area.
	• housing development	Yes	The proposed project is a Proposed Expansion of Existing "ARTEMIS HOSPITAL". Residential facility for surgeons already exists on site.
	• extractive industries	No	Not applicable, as this is an Expansion project.
	• supply industries	No	Not applicable, as this is an Expansion project.
	• other	No	Not applicable, not other action will be required

			except mentioned above
9.2	Lead to after-use of the site, which could have an impact on the environment	No	Negligible impact is envisaged on air, noise and aesthetic parameters due to the proposed project.
9.3	Set a precedent for later developments	No	Not applicable
9.4	Have cumulative effects due to proximity to other existing or planned projects with similar effects	No	The proposed project is Expansion project. A better-planned and executed project has to yield better result individually.

III. Environmental Sensitivity

S. No.	Areas	Name/ Identity	Aerial distance (within 15 km.) Proposed project location boundary
1	Areas protected under international conventions, national or local legislation for their ecological, landscape, cultural or other related value	None	Not located within 15 km of the proposed project location.
2	Areas which are important or sensitive for ecological reasons - Wetlands, watercourses or other water bodies, coastal zone, biospheres, mountains, forests	None	Not located within 15 km of the proposed project location.
3	Areas used by protected, important or sensitive species of flora or fauna for breeding, nesting, foraging, resting, over wintering, migration	None	Not located within 15 km of the proposed project location.
4	Inland, coastal, marine or underground waters	None	Not located within 15 km of the proposed project location.
5	State, National boundaries	None	Not located within 15 km of the proposed project location.
6	Routes or facilities used by the public for access to recreation or other tourist, pilgrim areas	NH-8 (Delhi-Gurgaon Expressway)	Delhi-Gurgaon Expressway approx 4.0 km in NW direction

7	Defense installations	None	Not located within 15 km of the proposed project location.
8	Densely populated or built-up area	Gurgaon	Project located in municipal premises of Gurgaon.
9	Areas occupied by sensitive manmade land uses (<i>hospitals, schools, places of worship, community facilities</i>)	Yes	There are number of major hospitals, schools etc. There are numerous places of worship and community within the project influenced area.
10	Areas containing important, high quality or scarce resources (<i>ground water resources, surface resources, forestry, agriculture, fisheries, tourism, minerals</i>)	Yes	Ground-water resources in the study area are depleting at very fast rate and are declared as scarce resource.
11	Areas already subjected to pollution or environmental damage. (<i>those where existing legal environmental standards are exceeded</i>)	No	No environmental damage reported from the area so far. All parameters of Air, Water, and Noise etc. will be maintained within permissible limits specified by SPCB / CPCB with proper mitigation measures.
12	Areas susceptible to natural hazard which could cause the project to present environmental problems (<i>earthquakes, subsidence, landslides erosion, flooding or extreme or adverse climatic conditions</i>)	None	The area under study falls in Zone-IV, according to the Indian Standard Seismic Zoning Map. Suitable seismic coefficients in horizontal and vertical directions respectively, will be adopted while designing the structures to mitigate the seismic impacts. There are no possibilities of the proposed project site getting flooded as per records available.

IV. Proposed Terms of Reference: Not Applicable

"I hereby given undertaking that the data and information given in the application and enclosures are true to the best of my knowledge and belief and I am aware that if any part of the data and information submitted is found to be false or misleading at any stage, the project will be rejected and clearance give, if any to the project will be revoked at our risk and cost."

Date: 01.02.2017

Place: Gurgaon

Signature of Applicant

Mr. Navneet Goel

(Authorized Signatory)

M/s. Artemis Medicare Services Ltd.,

414/1, 4TH Floor,

DDA Commercial Complex

District Centre, Janakpuri, New Delhi-

110058

NOTE:

1. The projects involving clearance under Coastal Regulation Zone Notification, 1991 shall submit with the application a C.R.Z map duly demarcated by one of the authorized agencies, showing the project activities, w.r.t. C.R.Z (at the stage of TOR) and the recommendations of the State Coastal Zone Management Authority (at the stage of EC). Simultaneous action shall also be taken to obtain the requisite clearance under the provisions of the C.R.Z Notification, 1991 for the activities to be located in the CRZ.
2. The projects to be located within 10 km of the National Parks, Sanctuaries, Biosphere Reserves, Migratory Corridors of Wild Animals, the project proponent shall submit the map duly authenticated by Chief Wildlife Warden showing these features vis-a-vis the project location and the recommendations or comments of the Chief Wildlife Warden "thereon (at the stage of EC)."
3. All correspondence with the Ministry of Environment & Forests including submission "of application for TOR/Environmental Clearance, subsequent clarifications, as may be required from time to time, participation in the EAC Meeting on behalf of the project proponent shall be made by the authorized signatory only. The authorized signatory should also submit a document in support of his claim of being an authorized signatory for the specific project".

