F.No.21-64/2015-IA.III
Government of India
Ministry of Environment, Forest & Climate Change
(IA.III Section)

Indira Paryavaran Bhawan,
Jor Bagh Road,
New Delhi - 3

Dated: 29th December, 2015

To

The Director (F&S),
M/s Dr B L Kapoor Memorial Hospital,
Pusa Road,
New Delhi - 05

Sub: 'Expansion of Dr. B L Kapoor Memorial Hospital' at Pusa Road, New Delhi - Environmental Clearance - reg.

Sir,

This has reference to your application dated 18.03.2015 submitted the above-mentioned proposal to this Ministry for grant of Environmental Clearance (EC) in term of the provisions of the Environment Impact Assessment Notification (EIA), 2006 under the Environment (Protection), Act, 1986.

2. The proposal for **'Expansion of Dr. B L Kapoor Memorial Hospital' at Pusa Road, New Delhi by M/s Dr B L Kapoor Memorial Hospital,** was considered by the Expert Appraisal Committee (EAC) in the Ministry for Infrastructure Development, Coastal Regulation Zone, Building/ Construction and Miscellaneous projects, in its meetings held on 23rd – 24th April, 2015 & 24th – 26th June, 2015.

3. The details of the project, as per the documents submitted by the project proponents (PP), and also as informed during the above said EAC meetings, are reported to be as under:-

(i) Earlier the Environmental Clearance was granted to the project vide letter No. 21-1161/2007-IA-III dated 13.06.2008.
(ii) The present proposal is for 'Expansion of Dr. B L Kapoor Memorial Hospital' at Pusa Road, New Delhi by M/s Dr B L Kapoor Memorial Hospital. The project is located at 28°51'09"N latitude and 77°06'27"E longitude.
(iii) The salient features of the proposed project is as follows:

Parameters	As per earlier EC	Proposed Amendment (expansion)	EC Required
Plot Area --- 5 acres	20240	----	20240
Permissible FAR @375	2.0 (40480)	1.75(35420)	3.75(75900)
Proposed FAR	40334.40	-7824.74 (Demolish) + 42775 (Addition)	75284.05
Medical Staff Quarters	4448.23	-(1588.23)	2866.79

Permissible Ground Coverage for Hospital	30%	10%	40%
Total Built up Area including Basement & Services	56935	63776.54	120711.54
Provided Car Parking Required/Provided	810 ECS	733 ECS	1543 ECS
Domestic water required for beds, visitors & Staff	232 KLD	(550x450+2750x45+ 1000x45(OPD)+floating 1500x10+kitchen 1000x30) =462 KLD + add 20%=554.2 KLD	786 KLD
Water cooling Tower	125 KLD	288 KLD	413 KLD
Horticulture	21 KLD	0	21 KLD
Total water required	378 KLD	842 KLD	1220 KLD
Waste water Generation	263 KLD	(@80%) 443 KLD	(@80%) of 786 = 628 KLD
STP Capacity	300 KLD	(443+20%=531.6 KLD	(831.6) Proposed Capacity- 1000 KLD
ETP Capacity	No ETP	100 KLD	100 KLD
No. of Beds	400 Nos	550	950
Transformers	3 Nos.1250 kVA	2 nos 2000 kVA	3 nos.1250 kVA +2 nos2000 kVA
DG Sets	2 nos 1000 kVA & 1 no. 500 kVA	2 nos 1500 kVA each	1 nos. 1000 kVA + 1 no. 500 kVA + 3 nos. 1500 kVA
Solid Waste in including Hospital Waste	400 kg/day+ 100 kg/day	550+150 kg/day	950 kg/day + 250 kg/day
Total Power requirement	25090 kVA	4010 kVA	6510 kVA
Project Cost (in Rs.)	150 crores	250 crores	400 crores
RWH	4	1	5

(iv) The total plot area is 20240 sqm. FSI area is 75284 sqm and construction area will be 120711 sqm. Total 950 nos. of beds will be provided. The maximum height of the building will be 67m.

(v) During construction phase, total water requirement is expected to be 20 KLD which will be met by tanker. During the construction phase, soak pits and septic tanks will be provided for disposal of waste water.

(vi) During operational phase, total water demand of the project is expected to be 1220 KLD which will be met by the Delhi Jal Board and recycled water. Wastewater generation about 628 KLD which will be treated in 1000 KLD capacity STP. 828 KLD of treated wastewater will be recycled (565 KLD for cooling & gardening).

(vii) About 250 kg/day solid waste will be generated in the project. The biodegradable waste (150 kg/day) will be processed in MCD Sites and the non-biodegradable waste generated (100 kg/day) will be handed over to authorized local vendor.

(viii) The total power requirement during construction phase is 150 kVA and will be met from temporary connection as given by BSES, and total power requirement during operation phase is 6510 kVA and will be met from NDPL.

(ix) Rooftop rainwater of buildings will be collected in 5 nos. RWH tanks of total 24 KLD capacity for harvesting after filtration.

(x) Mobile Toilets will be provided for construction labour during the whole construction period.

(xi) Proper drainage facility will be provided to handle the waste water arising out of the site. The drainage will be planned in a way that there is no accumulation of water within the project area or vicinity to the site. Regular cleanup or the drainage system will be practice. Treated sewage water from STP will be used for cooling, flushing and horticulture.

(xii) Mitigation Measures for Air Pollution to minimize such impact measures shall be taken.

(xiii) All the loose material either stacked or transported shall be provided with suitable covering such as tarpaulin, etc. Water sprinkling shall be done at the location where dust generation is anticipated. To minimize the occupational health hazard, proper personal protective gears i.e. mask shall be provided to the workers who are engaged in dust generation activity.

(xiv) Peripheral green belt has been provided.

(xv) Regular sprinkling of water during construction phase.

(xvi) Use of wind breaking walls.

(xvii) Total Run Off to be recharged =Q1 + Q2 + Q3 = 482cum/hr.

(xviii) Total Run Off to be harvested for 15 Minutes, i.e. 94.000 cum.

(xix) Solar lighting will be provided for open spaces. Use of LEDs in common areas.

(xx) All the DG sets will be attached with stack of proper height as per CPCB norms. DG sets shall be PLC controlled to optimize their usage based on the actual load requirements.

(xxi) Roofs will be insulated to minimize heat gain with 50mm expanded polystyrene or Equivalent insulation.

(xxii) Fly ash made bricks and cement will be used in common area i.e. Building Envelope, pathway and paved area.

(xxiii) **Parking facility** provided for 1543 ECS against the requirement of 1467 ECS.

(xxiv) Proposed energy saving measures would save about 10 % of power.

(xxv) **Investment/Cost** of the project is Rs. 250 Crores.

(xxvi) **Wildlife issues:** It is not located within 10 km of any Eco-sensitive Zone.

(xxvii) There is no **court case** pending against the project.

(xxviii) **CSR activity:** The Hospital will reserve 2% of the project cost for social activities as given under.

(xxix) **Employment potential:** About 3000 people will be involved in the maintenance during operation phase and more than 100 labours and other technical and commercial staff will be involved during construction phase.

(xxx) **Benefits of the project:** (a) The institute will organize at least one free scanning camps in the nearby areas/Delhi. The institute will organize health and medical awareness camp in the schools, colleges & residential welfare association

in the Delhi NCR region; (b) the institute will prepare a documentary on safety, health & environment to educate the visitors; and (c) the institute will provide free training to the medical students specializing in medical treatment.

4. The EAC in its meeting held on 24 – 26 June, 2015 has recommended the project for grant of Environmental Clearance. As per recommendations of the EAC, the Ministry of Environment, Forest & Climate Change hereby accords Environmental Clearance to the above-mentioned project **'Expansion of Dr. B L Kapoor Memorial Hospital' at Pusa Road, New Delhi by M/s Dr B L Kapoor Memorial Hospital**, under the provisions of the EIA Notification, 2006 and amendments thereto and circulars issued thereon and subject to the compliance of the following specific and general conditions:-

PART A – SPECIFIC CONDITIONS

I. Construction Phase

(i) The Project Proponent shall ensure that the guidelines issued vide this Ministry's OM No. 19-2/2013-IA.III dated 09.06.2015, are followed for building and construction projects to ensure sustainable environmental management.

(ii) The Project Proponent shall obtain all necessary clearance/ permission from all relevant agencies including town planning authority before commencement of work.

(iii) 'Consent to Establish' shall be obtained from State Pollution Control Board/Committee under the Air (Prevention and Control of Pollution) Act, 1981 and the Water (Prevention and Control of Pollution) Act, 1974.

(iv) Authorization from State Pollution Control Board/Committee shall be obtained as applicable under Bio-Medical Waste (Management and Handling) Rules, 1998 as amended.

(v) The bio-Medical wastes shall be managed in accordance with the Bio-Medical Waste (Management and Handling) Rules, 1998 as amended.

(vi) The project proponent shall comply with the conditions of NOC/ Clearance obtained from Fire Department.

(vii) All the construction shall be in accordance with the local building byelaws. The Project Proponent shall obtain all necessary clearances.

(viii) The project proponent shall put in place a credible enforcement mechanism for compliance of energy conservation measures with its allottees, as projected, in perpetuity. This would be monitored by the designed Energy Conservation/ efficiency Authority in the State.

(ix) Temporary toilets will be provided for all construction labour.

(x) D.G set shall be at least 6 m away from the boundary.

(xi) Suitable toilet fixtures for water conservation shall be provided.

(xii) Proponent shall obtain permission for ground water withdrawal from State Ground Water Authority.

(xiii) The rainwater harvesting plan should be incorporated by the CGWA.

(xiv) 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.

(xv) A First Aid Room will be provided in the project both during construction and operation of the project.

(xvi) All the topsoil excavated during construction activities should be stored for use in horticulture/landscape development within the project site.

(xvii) Disposal of muck during construction phase should not create any adverse effect 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.

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

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

(xx) Any hazardous waste generated during construction phase, should be disposed off as per applicable rules and norms with necessary approvals of the State Pollution Control Board/Committee.

(xxi) The diesel generator sets to be used during construction phase should be low sulphur diesel type and should conform to Environment (Protection) Rules prescribed for air and noise emission standards.

(xxii) The diesel required for operating DG sets shall be stored in underground tanks and clearance from Chief Controller of Explosives shall be taken, as applicable.

(xxiii) 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 and should be operated only during non-peak hours.

(xxiv) Ambient noise levels should conform to residential standards both during day and night as per Noise Pollution (Control and Regulation) Rules, 2000. Incremental pollution loads on the ambient air and noise quality should be closely monitored during construction phase. Adequate measures should be made to reduce ambient air and noise level during construction phase, so as to conform to the stipulated standards by CPCB/DPCC.

(xxv) Fly ash should be used as building material in the construction as per the provisions of Fly Ash Notification of September, 1999 and amended as on 27th August, 2003.

(xxvi) Ready mixed concrete must be used in building construction.

(xxvii) Storm water control and its re-use as per CGWB and BIS standards for various applications.

(xxviii) Water demand during construction should be reduced by use of pre-mixed concrete, curing agents and other best practices referred.

(xxix) Permission to draw ground water shall be obtained from the competent Authority prior to construction/operation of the project.

(xxx) Separation of grey and black water should be done by the use of dual plumbing line for separation of grey and black water.

(xxxi) Fixtures for showers, toilet flushing and drinking should be of low flow either by use of aerators or pressure reducing devices or sensor based control.

(xxxii) Use of glass may be reduced by up-to 40% to reduce the electricity consumption and load on air-conditioning. If necessary, use high quality double glass with special reflective coating in windows.

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

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

II. Operation Phase

(i) 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.

(ii) The treated wastewater shall be recycled and reused for flushing of toilets, horticulture to reduce the demand of fresh water as committed.

(iii) Solid waste management shall be collected, treated disposed in accordance with the Municipal Solid Waste (Management & Handling) Rules, 2000. No municipal waste should be disposed off outside the premises.

(iv) The Operation and Maintenance of STP shall be made in the MoU with STP supplier. Project Proponent shall ensure regular operation and maintenance of the STP.

(v) Parking facility with 6 m clear driveway shall be provided as committed. Parking shall be designated separately for Ambulances, Staff and Visitors, Disabled and Senior Citizens with adequate space.

(vi) Parking facility for taxi and three wheelers to be provided within the premises taking care for movement of patients and elderly.

(vii) PP shall take measures to ensure 20% power/energy conservation in perpetuity with regular monitoring report to competent energy management authority in the State.

(viii) The Project Proponent shall explore the possibilities of reusing the treated wastewater from nearby projects.

(ix) The installation of the Sewage Treatment Plant (STP) should be certified by an independent expert and a report in this regard should be submitted to the Ministry before the project is commissioned for operation. Treated effluent emanating from STP shall be recycled/ reused to the maximum extent possible. Treatment of 100% grey water by decentralized treatment should be done. Discharge of unused treated affluent shall conform to the norms and standards of the State Pollution Control Board. Necessary measures should be made to mitigate the odour problem from STP.

(x) The solid waste generated should be properly collected and segregated. Wet garbage should be composted and dry/ inert solid waste should be disposed off to the approved sites for land filling after recovering recyclable material.

(xi) Diesel power generating sets proposed as source of back-up power for elevators and common area illumination during operation phase 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 low sulphur diesel. The location of the DG sets may be decided with in consultation with State Pollution Control Board/Committee.

(xii) Noise should be controlled to ensure that it does not exceed the prescribed standards. During night time the noise levels measured at the boundary of the building shall be restricted to the permissible levels to comply with the prevalent regulations.

(xiii) The green belt of the adequate width and density preferably with local species along the periphery of the plot shall be raised so as to provide protection against particulates and noise.

(xiv) Rain water harvesting for roof run- off and surface run- off, as plan submitted should be implemented. Before recharging the surface run off, pre-treatment must be done to remove suspended matter, oil and grease. The borewell for rainwater recharging should be kept at least 5 mts. above the highest ground water table.

(xv) Energy conservation measures like installation of CFLs/TFLs for the lighting the areas outside the building should be integral part of the project design and should be in place before project commissioning. Use 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. Use of solar panels may be done to the extent possible.

PART – B. GENERAL CONDITIONS

(i) A copy of the environmental clearance letter shall also be displayed on the website of the concerned State Pollution Control Board/ Committee. The EC letter shall also be displayed at the Regional Office, District Industries centre and Collector's Office/ Tehsildar's office for 30 days.

(ii) The funds earmarked for environmental protection measures shall be kept in separate account and shall not be diverted for other purpose. Year-wise expenditure shall be reported to this Ministry and its concerned Regional Office.

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

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

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

8. All other statutory clearances such as the approvals for storage of diesel from Chief Controller of Explosives, Fire Department, Civil Aviation Department, Forest Conservation Act, 1980 and Wildlife (Protection) Act, 1972 etc. shall be obtained, as applicable by project proponents from the respective competent authorities.

9. The above stipulations would be enforced among others under the provisions of Water (Prevention and Control of Pollution) Act, 1974, the Air (Prevention and control of Pollution) act 1981, the Environment (Protection) Act, 1986, the Public Liability (Insurance) Act, 1991 and EIA Notification, 2006.

10. The project proponent should advertise in at least two local Newspapers widely circulated in the region, one of which shall be in the vernacular language informing that the project has been accorded Environmental Clearance and copies of clearance letters are available with the State Pollution Control Board/ Committee and may also be seen on the website of the Ministry of Environment, Forests & Climate Change at http://www.envfor.nic.in. The advertisement should be made within Seven days from the date of receipt of the Clearance letter and a copy of the same should be forwarded to the Regional Office of this Ministry at Lucknow.

11. This Clearance is subject to final order of the Hon'ble Supreme Court of India in the matter of Goa Foundation Vs Union of India in Writ Petition (Civil) No.460 of 2004 as may be applicable to this project.

12. Any appeal against this clearance 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.

13. A copy of the clearance letter shall be sent by the proponent to concerned Panchayat, Zilla Parisad/Municipal Corporation, Urban Local Body and the Local NGO, if any, from whom suggestions/ representations, if any, were received while processing the proposal. The clearance letter shall also be put on the website of the company by the proponent.

14. The proponent shall upload the status of compliance of the stipulated EC conditions, including results of monitored data on their website and shall update the same periodically. It shall simultaneously be sent to the Regional Office of MoEF&CC, the respective Zonal Office of CPCB and the SPCB. The criteria pollutant levels namely; SPM, RSPM, SO_2, NOx (ambient levels as well as stack emissions) or critical sectoral parameters, indicated for the project shall be monitored and displayed at a convenient location near the main gate of the company in the public domain.

15. The environmental statement for each financial year ending 31st March in Form-V as is mandated to be submitted by the project proponent to the concerned State Pollution Control Board/ Committee 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 EC conditions and shall also be sent to the respective Regional Offices of MoEF&CC by e-mail.

29/12/2015

(S.K. Srivastava)
Scientist E

Copy to:

1) The Secretary, Department of Environment, Govt. of N.C.T. Delhi, Secretariat Building, I.P. Estate, New Delhi
2) The Chairman, Central Pollution Control Board, Parivesh Bhawan, CBD-cum-Office Complex, East Arjun Nagar, Delhi-32
3) Member Secretary, Delhi Pollution Control Committee, Department of Environment, Govt. of N.C.T. Delhi, 4th Floor, ISBT Building, Kashmere Gate, Delhi
4) Additional Principal Chief Conservator of Forests (C), Ministry of Environment, Forests and Climate Change, Regional Office (CZ), Kendriya Bhawan, 5th Floor, Sector 'H', Aliganj, Lucknow – 20
5) IA – Division, Monitoring Cell, MoEF, New Delhi – 3
6) Guard file

29/12/2015

(S.K. Srivastava)
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