

## FORM 1

### (I) Basic information

Name of the project : Construction of additional institutional buildings in Existing campus Mahatma Gandhi Medical College and Research Institute Puducherry by Sri Balaji Educational and Charitable Public Trust,Puducherry.

Location/ Site alternatives Mahatma Gandhi Medical College and Research Institute Pillayarkuppam Revenue Village, Manapet Village Bahour Commune Panchayet Pondichery – 607402

Size of the project : Not applicable

Expected cost of the Project : Rs. 76.0 Crores

Authorised Person : Thiru.N.Prabbakaran ,  
Administrative Executive,MGMC&RI  
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Screening Category : B-2

## 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	Agricultural vacant land is converted in to Medical college building. Project size comes under institutional block zone, copy of lay out plan approval letter from Puducherry Planning Authority is enclosed as ANNEXURE 1
1.2	Clearance of existing land, vegetation and building?	No	No
1.3	Creation of new land used?	Yes	The vacant land will be converted in to Medical college building
1.4	Pre-construction investigations e.g. bore houses, soil testing?	Yes	Geo technical investigations and bore well water yield are carried out and two copies of the report is enclosed as ANNEXURE -5
1.5	Construction works?	Yes	New Buildings as an expansion for the existing Medical college is proposed for construction.
1.6	Demolition work?	No	Being the vacant land and there is no old structures exists. Hence no demolition work envisaged
1.7	Temporary site used for construction works or housing of construction workers?	Yes	Labor sheds will be provided for the construction workers with adequate sanitation facilities as per the norms will be created.
1.8	Above ground buildings, structures or earthworks including linear structures, cut and fill or excavations	Yes	Hospital blocks, Dental college, college expansion buildings will be constructed with nominal quantities of earth works including linear structures, cut and fill soil
1.9	Underground works including mining or tunneling?	No	Not applicable
1.10	Reclamation works?	No	Not applicable
1.11	Dredging?	No	Not applicable
1.12	Offshore structures?	No	Not applicable
1.13	Production and manufacturing processes?	No	Not applicable
1.14	Facilities for storage of goods or materials?	Yes	Construction materials will be housed in separate yard inside the site. Cement bags will

			be stored separately under cover. Sand will be stacked under tar- Pauline cover. Bricks and steel will be laid in the open yard
1.15	Facilities for treatment or disposal of solid waste or liquid effluents?	Yes	Solid wastes generated from the buildings will be segregated in to bio and non bio degradable waste at source in separate bins. Non bio degradable wastes will be stored in centralized collection yard and disposed to the authorized agencies bio degradable wastes will be treated in organic waste convertor. Liquid effluents during construction phase will be treated in soak pit arrangements and during operation phase the waste water will be treated in sewage treatment plant. Treated waste water will be reused for gardening, sprinkling, car washing etc..
1.16	Facilities for long term housing of operational workers?	No	Only temporary facilities will be provided until the construction activities are completed
1.17	New road, rail or sea traffic during construction or operation?	No	Not Applicable
1.18	New road, rail, air water borne or other transport infrastructure including new or altered routes and stations, ports, airports etc?	No	Not Applicable
1.19	Closure or diversion of existing transport routes or infrastructure leading to changes in traffic movements?	No	Not Applicable
1.20	New or diverted transmission lines or pipelines?	No	Not Applicable
1.21	Impoundment, damming, culverting, realignment or other changes to the hydrology of watercourses or aquifers?	No	Not Applicable
1.22	Stream crossings?	No	Not Applicable
1.23	Abstraction or transfers of water form ground or surface water?	No	Not Applicable
1.24	Changes in water bodies or the land surface affecting drainage or run-off?	No	But the run off storm water will be let in to storm water drain for disposal into the nearest drain
1.25	Transport of personnel or materials for construction, operation or decommissioning?	Yes	Personnel and material will be transported by road by the contractors during construction phase

1.26	Long – term dismantling or decommissioning or restoration works?	No	Not Applicable
1.27	Ongoing activity during decommissioning which could have an impact on the environment?	No	Not Applicable
1.28	Influx of people to an area in either temporarily or permanently?	Yes	Temporary influx will occur during construction period. During operation phase about 100 persons will be engaged for maintenance and housekeeping jobs.
1.29	Introduction of alien species?	No	Not Applicable
1.30	Loss of native species or genetic diversity?	No	Not Applicable
1.31	Any other actions?	No	Not Applicable

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)	Yes	In agricultural land about 1,01719.67 sq.m are partially developed and about 52151.20 sq.m are to be developed as an expansion.
2.2	Water (expected source & competing users unit : KLD)	Yes	During peak construction activities about 20-30 KLD water will be required. But in the operation phase total water requirement for both existing and expansion projects will be about 625 KLD. This requirement will be met from the existing two bore wells. NOC NOC from state Ground Water Unit and Soil Conservation , Puducherry Annexure - 13
2.3	Minerals (MT)	No	Not Applicable
2.4	Construction material – stone, aggregates, and / soil (expected source - MT)	Yes	Appropriate quantities of construction materials like, sand, cement, steel, brick etc will be procured from local market.

2.5	Forests and timber (source - MT)	Yes	Appropriate quantity timber will be sourced from local market.
2.6	Energy including electricity and fuels (source, competing users) unit: fuel (MT), energy (MW)	Yes	Total power requirement about 1500 + 990KVA is sanctioned by and supply will be sourced from Puducherry Electricity Board grid which will be distributed through the transformer exists in our premises. Apart from this, power backup sources of three D.G sets of 750 KVA, 725 KVA and 650 KVA capacities are available
2.7	Any other natural resource (use appropriate standard units)	No	Not Applicable

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	This project does not require to store any hazards substances except diesel to be used for D.G. set. Necessary permission from the authority is available for storing diesel and suitable safety measures are implemented.
3.2	Changes in occurrence of disease or affect disease vectors (e.g. insect or water borne diseases)	No	Being a medical college proper control and sanitary actions will be implemented. Suitable drainage, waste water treatment will be adopted to prevent and control disease vectors.
3.3	Affect the welfare of people e.g. by changing living conditions?	No	Local lively hood socio economic conditions of nearby areas will be improved due to direct and indirect employment exists in the project.
3.4	Vulnerable group of people who could be affected by the project e.g. hospital patients, children, the elderly etc.,	No	NIL
3.5	Any other causes	No	NIL

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	The excavated soil will be reused for land filling and land scaping activity
4.2	Municipal waste (domestic and or commercial wastes)	Yes	Solid waste generated will comprise bio degradable such as food waste, horticultural waste and non biodegradable waste like plastics; paper etc will be collected in separate bins .Bio degradable waste will be treated in organic waste convertor. Non bio degradable waste will be disposed through the Municipal waste collection system.
4.3	Hazardous wastes (as per Hazardous waste Management Rules)	No	Only the spent oil will be collected in HDPE drums and stored in secure place. This will be disposed to the authorized recyclers for recycling or to be sold.
4.4	Other industrial process wastes	No	NIL
4.5	Surplus product	No	NIL
4.6	Sewage sludge or other sludge from effluent treatment	Yes	The STP sludge collected in settling tank will be dewatered and used as manure in horticulture unit
4.7	Construction or demolition wastes	Yes	The construction waste free from any hazardous content shall be reused for laying road and land filling purpose. There is no any demolition waste since the existing site is a vacant land
4.8	Redundant machinery or equipment	No	All equipments required for medical purpose will be installed and the obsolete items will be returned or disposed to the contractor. The items used in construction phase will be removed once the work is completed
4.9	Contaminated soils or other material	No	NIL
4.10	Agricultural wastes	No	NIL
4.11	Other solid wastes	No	NIL

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	D.G sets will emit pollutants such as particulate matter, SO <sub>2</sub> ,NOX, CO, CO <sub>2</sub> while in operation. By using low sulphur content diesel the SO <sub>2</sub> emission will be reduced. Also the stack height is raised to as per the CPCB norms the pollutant will get dispersed or diluted in the atmosphere.
5.2	Emissions from production processes	No	NIL
5.3	Emissions from materials handling including storage or transport	Yes	There may not major emission from the material storage and transport. However adequate control measures will be adopted to minimize the emission when it occurs.
5.4	Emissions from construction activities including plant and equipment	Yes	Emission from the construction activities will be reduced by using low sulphur content diesel. The dust particles due to vehicles will be suppressed by sprinkling water on road at regular intervals.
5.5	Dust or odours from handling of materials including construction materials, sewage and waste	Yes	Dust will be suppressed by sprinkling water on roads and covering the construction materials with tarpaulin. Besides this on site sanitation facilities will be provided
5.6	Emissions from incineration of waste	No	NIL
5.7	Emissions from burning of waste in open air (e.g. slash materials, construction debris)	No	NIL
5.8	Emissions from any other sources	No	NIL

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	Construction equipments like driller, cutter and mixer machine will develop noise within the limits. DG sets operated

			during power failure will be provided with acoustic enclosures to bring noise within the audible limits of CPCB norms
6.2	From industrial or similar processes	No	NIL
6.3	From construction or demolition	Yes	Construction activities will not be encouraged during night times and all the machineries will be provided with silencers and kept minimum by proper and regular maintenance.
6.4	From blasting or piling	No	Diesel winch piling creates noise but it is only for short time within the site
6.5	From construction or operational traffic	Yes	During construction activities the vehicles will be fitted with silencers and will not encourage idling the engine. During operation traffic will not contribute much towards noise
6.6	From lighting or cooling systems	Yes	Care will be taken at the time of selection of equipments with minimized noise or heat. Proper preventive maintenance will be adopted during the operation stage.
6.7	From any other sources	No	NIL

7. Risks of contamination of land or water from releases of pollutants into the ground or into sewers, surface water, 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	Yes	Only the spent oil from the DG sets is being stored in drums and disposed to the authorized recyclers. Handling of spent oil will be done on impervious concrete platform.
7.2	From discharge of sewage or other effluents to water or the land (expected mode and place of discharge)	No	No effluent will be discharged since the Medical college is implementing zero discharge concepts.
7.3	By deposition of pollutants emitted to air into the land or into water	No	Nil
7.4	From any other sources	No	Nil

7.5	Is there a risk of long term build up of pollutants in the environment from these sources?	No	Nil
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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	Nil
8.2	From any other causes	No	Nil
8.3	Could the project be affected by natural disasters causing environmental damage (e.g. floods, earthquakes, landslides, cloudburst etc)?	No	The area under the study falls in zone – II according to the Indian standard seismic zone map. Suitable seismic coefficient in horizontal and vertical directions are incorporated in designing the structures

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 facilities, ancillary development or development stimulated by the project which could had impact in the environment e.g.: <ul style="list-style-type: none"> <li>• Supporting infrastructure (roads, power supply, waste or waste water treatment, etc)</li> <li>• Housing development</li> <li>• Extractive industries</li> <li>• Supply industries</li> <li>• other</li> </ul>	Yes	This project will develop the infrastructure development such as roads housing facilities, commercial shops and further lead to other developments for the surrounding environment. The project will not develop any negative impact for the environment

9.2	Lead to after-use of the site, which could have an impact on the environment	Yes	Positive impacts like increase in moving population, vehicular movements, and associated activities.
9.3	Set a precedent for later developments	Yes	Employment opportunities will increase for the local people. infrastructure facilities like, road, water, transport, power, communication, education, health care by way of increasing in additional income for the surrounding people
9.4	Have cumulative effects due to proximity to other exiting or planned projects with similar effects	No	NIL

### 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	NO	NIL
2	Areas which are important or sensitive for ecological reasons – wetlands, watercourses or other water bodies, coastal zone, biospheres, mountains, forests	NO	NIL
3	Area used by protected, important or sensitive species of flora or fauna for breeding, nesting, foraging, resting, over wintering, migration	NO	NIL
4	Inland, coastal, marine or underground waters	NO	NIL
5	State, National boundaries	Yes	NH 45A
6	Routes or facilities used by the public for access to recreation or other tourist, pilgrim areas	No	NIL
7	Defence installations	No	NIL
8	Densely populated or built-up area	Yes	Above 50000

9	Areas occupied by sensitive man-made land uses( <i>hospitals, schools, places of worship, community facilities</i> )	Yes	Surrounding areas are occupied by schools ,arts college, hospital, Engineering college, polytechnic, Nursing college, dental college etc
10	Areas containing important, high quality or scarce resources ( <i>ground water resources, surface resources, forestry, agriculture, fisheries, tourism, minerals</i> )	No	NIL
11	Areas already subjected to pollution or environmental damage. ( <i>those where existing legal environmental standards are exceeded</i> )	No	NIL
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> )	No	NIL