

FORM – 1& 1A

PROPOSED MIXED USE DEVELOPMENT  
AT VILLAGE PANELIM,  
PANAJI, GOA.

By

M/s. NAIKNAVARE  
CONSTRUCTIONS PVT. LTD.

# **FORM – 1**

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**APPENDIX - I****(See paragraph - 6)****FORM 1****(I) Basic Information**

Sr.No.	Item	Details
1.	Name of the project/s	<b>Proposed Mixed Use Development</b> S. No. 13/1, 14/1, 15/1, At Village Panelim, Taluka Tiswadi, State: Goa.
2.	S. No. in the schedule	8 (a) B2
3.	Proposed capacity/area/length/tonnage to be handled/command area/lease area/number of wells to be drilled	Total plot area: 163325.00 m2
4.	New/Expansion/Modernization	Modernization
5.	Existing Capacity/ Area etc.	Total plot area: 163325.00 m2
6.	Category of project i.e. 'A' or 'B'	8 (B2)
7.	Does it attract the general condition? If yes, please specify.	Not Applicable
8.	Does it attract the specific condition? If yes, please specify.	Not Applicable
9.	Location	PANELIM
	Plot/Survey/Khasra No.	S. No. 13/1, 14/1, 15/1,
	Village	-
	Tehsil	Tiswadi
	District	--
	State	Goa
10.	Nearest railway station Nearest airport	Karamali Railway Station. Dabolim Vasco
11.	Nearest Town, city, District headquarters Along with distance in kms.	Panaji & Old Goa. Panaji (North Goa). 10 Km
12.	Village Panchayats, Zilla Parishad, Municipal Corporation, Local body (complete postal address with telephone nos. to be given)	Village Panchayat Se-Old-Goa. Old Goa, Tiswadi – North Goa - 403402 P.No:- 0832 2285734
13.	Name of the applicant	M/s Naiknavare Constructions Pvt. Ltd.
14.	Registered Address	Naiknavare Developers 1204/4, Ghole Road, Shivajinagar, Pune 411004
15.	Address for correspondence	Naiknavare Developers 1204/4, Ghole Road, Shivajinagar, Pune 411004
	Name	G. H. Naiknavare (Director)
	Designation (Owner/Partner/CEO)	Director
	Address	1204/4, Ghole Road, Shivajinagar, Pune
	Pin Code	411004
	E-mail	gauri@naiknavare.com
	Telephone No.	020-41471100 (5 lines), 25533700
	Fax No.	020-41471199
16.	Details of Alternative Sites examined, if any. Location of these sites should be shown on a topo-sheet.	No
17.	Interlinked Projects	No

Sr.No.	Item	Details
18.	Whether separate application of interlinked project has been submitted?	Not applicable
19.	If yes, date of submission	Not applicable
20.	If no, reason	Not applicable
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? (b) The Wildlife (Protection) Act, 1972? (c) The C.R.Z Notification, 1991?	No
22.	Whether there is any Government Order/Policy relevant/ relating to the site?	No
23.	Forest land involved (hectares)	No
24.	Whether there is any litigation pending against the project and/or land in which the project is propose to be set up? (a) Name of the Court (b) Case No. (c) Order /directions of the Court, if any and its relevance with the proposed project.	No

## (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.)

Sr. 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)	No	The plot is a vacant plot. And Will be developed as residential development along with commercial development. The land use is as per Development plan
1.2	Clearance of existing land, vegetation and building?	Yes	-----
1.3	Creation of new land uses?	No	-
1.4	Pre-construction investigation e.g. bore houses, soil testing?	Yes	Soil Investigation on the site is done.
1.5	Construction works?	Yes	Development of a Residential Development with amenities like Cultural Centre, service apartment and commercial development.
1.6	Demolition works?	No	---
1.7	Temporary sites used for construction works or housing of construction workers?	Yes	Labour Hutments.
1.8	Above ground building, structures or earthworks including linear structures, cut and fill or excavations	Yes	During construction Excavation Quantity generated shall be approximately 25000 m <sup>3</sup>  This material shall be used for back filling in to the plinth, filling of roads, for constructing boundary

Sr. No.	Information/Checklist confirmation	Yes / No	Details thereof (with approximate quantities /rates, wherever possible) with source of information data
			around property and it will be used to maintain final level of the plot it will not going out of the plot.
1.9	Underground works including mining or Tunneling?	No	-
1.10	Reclamation works?	No	-
1.11	Dredging?	No	-
1.12	Offshore structures?	No	-
1.13	Production and manufacturing processes?	No	-
1.14	Facilities for storage of goods or materials?	Yes	Temporary isolated area within the site to store the goods and materials required for construction.
1.15	Facilities for treatment or disposal of solid waste or liquid effluents?	Yes	1. Sewage shall be treated in STP. Treated sewage will be used for gardening, flushing and cooling tower make up within the premises. 2. Solid waste will be segregated in the premises and wet garbage will be treated in Closed composting Vessels.
1.16	Facilities for long term housing of operational workers?	Yes	Cabins for Watchmen / Gardener etc. will be provided during operational phase.
1.17	New road, rail, or sea traffic during construction or operation?	No	-
1.18	New road, rail, air waterborne or other transport infrastructure including new or altered routes and stations, ports, airports etc?	No	-
1.19	Closure or diversion of existing transport routes or infrastructure leading to changes in traffic Movements?	No	-
1.20	New or diverted transmission lines or pipelines?	No	-
1.21	Impoundment, damming, culverting, realignment or other change to the hydrology of watercourses or aquifers?	No	-
1.22	Stream crossings?	No	-
1.23	Abstraction or transfers of water from ground or surface waters?	Yes	Municipal Supply During Construction Phase - From Local Authority: 32 m <sup>3</sup> /day. From tankers: 10-20 m <sup>3</sup> / day. (depending on construction activity) During Operational Phase – Fresh Water : 143 m <sup>3</sup> /day
1.24	Changes in water bodies or the land surface affecting drainage or run-	Yes	There will be increase in the surface runoff of storm water.

Sr. No.	Information/Checklist confirmation	Yes / No	Details thereof (with approximate quantities /rates, wherever possible) with source of information data
	off?		
1.25	Transport of personnel or materials for construction, operation or decommissioning?	Yes	There will be transport of materials for construction work. Precautions will be taken to reduce the impact of the vehicular movement such as vehicular trips will not be at peak traffic hours.
1.26	Long-term dismantling or decommissioning or restoration works?	No	-
1.27	Ongoing activity during decommissioning which could have an impact on the environment?	No	-
1.28	Influx of people to an area in either temporarily or permanently?	Yes	Occupancy Load for this project will be = 1060 persons.
1.29	Introduction of alien species?	No	-
1.30	Loss of native species or genetic diversity?	No	-
1.31	Any other actions?	No	-

**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):**

Sr. 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	Undeveloped plot in residential zone
2.2	Water (expected source & competing users) unit : KLD	Yes	<p>During Construction Phase -</p> <ul style="list-style-type: none"> <li>From Local Authority: 32 m<sup>3</sup>/day.</li> <li>From tankers: 10-20 m<sup>3</sup>/ day. (Depending on construction activity).</li> </ul> <p>During Operational Phase -</p> <p>During Operational Phase -</p> <p>Fresh Water: 143 m<sup>3</sup>/day.</p>
2.3	Minerals (MT)	No	-
2.4	Construction material – stone, aggregates, and / soil (expected source – MT)	Yes	List of raw materials during the construction phase is enclosed herewith.
2.5	Forests and timber (source – MT)	Yes	Wood for Door Frames only.
2.6	Energy including electricity and fuels (source, competing users) Unit: fuel (MT), energy (MW)		<p>During Construction Phase -</p> <p>From Local Authority: 45KW</p> <p>D.G. Sets : 62.5 kVA</p> <p>During Operational Phase –</p> <p>From Local Authority:</p> <p>Connected Load : 1730 KW</p> <p>Maximum Demand : 1125 KW</p>

Sr. No.	Information/checklist confirmation	Yes / No	Details thereof (with approximate quantities /rates, wherever possible) with source of information data
			DG set capacities: 1 of 200 kVA DG will be operated only during power failures.
2.7	Any other natural resources (use appropriate standard units)	No	-

**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.**

Sr. 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)	Yes	1. Negligible quantities of oil spillage from construction machineries & vehicles.  2. Discarded containers of paints solvents etc.
3.2	Changes in occurrence of disease or affect disease vectors (e.g. insect or water borne diseases)	No	-
3.3	Affect the welfare of people e.g. by changing living conditions?	Yes	Socioeconomic condition of the area will enhance because of the development.
3.4	Vulnerable groups of people who could be affected by the project e.g. hospital patients, children, the elderly etc.,	No	-
3.5	Any other causes	No	-

**4. Production of solid wastes during construction or operation or decommissioning (MT/month):**

Sr. 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	-
4.2	Municipal waste (domestic and or commercial wastes)	Yes	Dry Garbage: 177 Kg /day. Wet Garbage: 289 Kg /day. Total Garbage: 466 Kg/day
4.3	Hazardous wastes (as per Hazardous waste Management Rules)	No	-
4.4	Other industrial process wastes	No	-
4.5	Surplus product	No	-

<b>Sr. No.</b>	<b>Information/Checklist confirmation</b>	<b>Yes / No</b>	<b>Details thereof (with approximate quantities / rates, wherever possible) with source of information data</b>
4.6	Sewage sludge or other sludge from effluent treatment.	Yes	Dried sludge from STP will be used as manure for the plants. (16.5 kg/day)
4.7	Construction or demolition wastes.	Yes	Construction wastes generated will be in the form of soil and rubble will be utilized within the site for leveling land.
4.8	Redundant machinery or equipment.	No	-
4.9	Contaminated soils or other materials.	No	-
4.10	Agriculture wastes.	No	-
4.11	Other solid wastes.	No	-

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

<b>Sr. No.</b>	<b>Information/Checklist confirmation</b>	<b>Yes / No</b>	<b>Details thereof (with approximate quantities/rates, wherever possible) with source of information data</b>
5.1	Emissions from combustion of fossil fuels from stationary or mobile sources	Yes	D.G. Sets will be provided only in case of power failures during operational phase. The Pollutants like SPM, SO <sub>2</sub> that may arise from emissions from D.G. Sets will be discharged through vents of proper height.
5.2	Emissions from production processes	No	-
5.3	Emissions from materials handling including storage or transport	Yes Marginal	DG set emissions within permissible limit during power failure
5.4	Emissions from construction activities including plant and equipment	Yes Marginal	The project will contribute in higher dust levels during construction phase. The concrete will be made from outside source of RMC and batching Plant. Ready mix concrete will also reduce dust and trips of truck. Water sprinkling on ground and new construction will be done at regular intervals to reduce spreading of dust particles.
5.5	Dust or odours from handling of materials including construction materials, sewage and waste	Yes	Dust levels will be higher during the construction phase than operational phase. Proper measures such as sprinkling of water on the ground and new construction will be done at regular intervals to reduce the spreading of the dust particles & All wet areas such as STP, Domestic waste segregation, composting shall be isolated with proper surrounding covers of shadow trees.
5.6	Emissions from incineration of waste	No	-
5.7	Emissions from burning of waste in open air (e.g. slash materials, construction debris)	No	-
5.8	Emissions from any other sources	No	-

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

<b>Sr. No.</b>	<b>Information/Checklist confirmation</b>	<b>Yes / No</b>	<b>Details thereof (with approximate quantities/rates, wherever possible) with source of information data</b>
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Sr. 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 but negligible	Noise generated from the equipments will be nominal and to control the same, the following measures shall be adopted: Properly maintained equipments with mufflers will be used. Use of equipment generating noise of not greater than 90 db (A) will be used. High noise generating construction activities would be carried out only during day time. Workers working near high noise construction machinery would be supplied with ear muffs/ear plugs.
6.2	From industrial or similar processes.	No	-
6.3	From construction or demolition.	Yes	<p><b>Construction Phase:</b></p> <p>During construction phase, sources of noise pollution will be due to operation of machinery like compressors, compactors, concrete plant, cranes etc. as well as transportation vehicles. This will cause nuisance to the occupants of the nearby area. The project proponents have agreed to take precautions to control noise pollution as mentioned under:</p> <ol style="list-style-type: none"> <li>1. Use of equipment generating noise of not greater than 90 dB (A).</li> <li>2. Use of Rotary drillers.</li> <li>3. High noise generating construction activities would be carried out only during day time.</li> <li>4. Installation, use and maintenance of mufflers on equipment.</li> <li>5. Workers working near high noise construction machinery would be supplied with ear muffs/ear plugs.</li> <li>6. Since there are no existing structures demolition is not required.</li> </ol>
6.4	From blasting or piling.	No	-
6.5	From construction or operational traffic.	Yes	<p><b>During Construction phase:</b></p> <p>There will be transport of materials for construction work. Precautions will be taken to reduce the impact of the vehicular movement such as vehicular trips will not be at peak traffic hours.</p> <p><b>Operation Phase :</b></p> <p>The proposed project being a residential, Educational, along with Amenities complex, the source of air and noise pollution is vehicular noise only. The vehicular parking will be restricted only in the adequate parking area provided, which would help in reducing noise and air pollution due to vehicular movement.</p> <p>The project proponent has proposed good tree plantation which will also help to reduce the noise level and enhance air quality.</p> <p>During power failure to mitigate the noise of D.G. sets</p>

Sr. No.	Information/Checklist confirmation	Yes / No	Details thereof (with approximate quantities/rates, wherever possible) with source of information data
			while in operation D.G. sets will be enclosed in acoustic enclosures.
6.6	From lighting or cooling systems.	No	-
6.7	From any other sources.	No	DG sets will be used only during power failure. D.G. sets will be enclosed in acoustic enclosures.

**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 :**

Sr. 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	Negligible quantity
7.2	From discharge of sewage or other effluents to water or the land (expected mode and place of discharge).	No	Total sewage generation from the complex will be 110 m <sup>3</sup> /day. This will be treated in full fledged STPs. Treated sewage will be reused for gardening, flushing and cooling tower make up within the premises.
7.3	By deposition of pollutants emitted to air into the land or into water.	Yes	-
7.4	From any other sources.	No	-
7.5	Is there a risk of long term build up of pollutants in the environment from these sources?	No	-

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

Sr. 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	--
8.2	From any other causes.	No	--
8.3	Could the project be affected by natural disasters causing environmental damage (e.g. floods, earthquakes, landslides, and cloudburst)?	Yes	Disaster Management Plan is enclosed. Plot of land is situated on the plateau hence no possibility of flooding/land slides.

**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:**

Sr. 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 have impact on the environment e.g.: •Supporting infrastructure (roads, power supply, waste or waste water treatment, etc.) • housing development • extractive industries • supply industries • other	Yes   Yes  No  No  No	Proposed project will have positive impact on development of supporting infrastructure.  During Construction Phase - From Local Authority: 45KW D.G. Sets : 62.5 kVA During Operational Phase – From Local Authority: Connected Load : 1730 KW Maximum Demand : 1125 KW DG set capacities: 1 of 200 kVA DG will be operated only during power failures.  DG set of different capacities as per the requirement will be utilized only for essential amenities.  Solid waste Generation : Dry Garbage: 177 Kg /day. Wet Garbage: 289 Kg /day. Total Garbage: 466 Kg/day Wet garbage will be treated by vessel composting. Project is a mix use development Paints, glasses, wood cement etc. House hold supplies, Horticulture etc.
9.2	Lead to after-use of the site, which could have an impact on the environment	No	--
9.3	Set a precedent for later developments	No	--
9.4	Have cumulative effects due to proximity to other existing or planned projects with similar effects	Yes	Minor impacts on water availability, sewage disposal, storm water discharge, availability of electricity etc as land is part of regional Development Plan. There will be minor impact on vehicular traffic as new roads are developed along with proposed development.

**(III) Environmental Sensitivity**

Sr. No.	Areas	Name/Identity	Aerial distance (within 15 km.) from Proposed project location boundary
1	Areas protected under international conventions, national or local legislation for their ecological, landscape, cultural or other related value	No	--

Sr. No.	Areas	Name/Identity	Aerial distance (within 15 km.) from Proposed project location boundary
2	Areas which are important or sensitive for ecological reasons - Wetlands, watercourses or other water bodies, coastal zone, biospheres, mountains, forests	No	--
3	Areas used by protected, important or sensitive species of flora or fauna for breeding, nesting, foraging, resting, over wintering, migration	No	--
4	Inland, coastal, marine or underground waters	No	--
5	State, National boundaries	No	--
6	Routes or facilities used by the public for access to recreation or other tourist, pilgrim areas	No	--
7	Defence installations	No	--
8	Densely populated or built-up area	Yes	Extension of Panaji City
9	Areas occupied by sensitive man-made land uses ( <i>hospitals, schools, places of worship, community facilities</i> )	No	--
10	Areas containing important, high quality or scarce resources ( <i>Ground water resources, surface resources, forestry, agriculture, fisheries, tourism, minerals</i> )	No	--
11	Areas already subjected to pollution or environmental damage. ( <i>those where existing legal environmental standards are exceeded</i> )	No	--
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	--