

॥ कार्यालय:- नगर निगम कण्वनगरी कोटद्वार (पौड़ी गढवाल) ॥

पत्रांक:- 3545 / TOR / 2021-22 / स्वा अनु.

दिनांक:- 8/2/22

To,
Member Secretary
Expert Appraisal Committee II
Infrastructure Development, Coastal Regulation Zone,
Building/Construction and Miscellaneous projects
Ministry of Environment, Forest and Climate Change
Indira Paryavaran Bhawan,
3rd Floor, Vayu Wing, JorBagh Road, Aliganj,
New Delhi-110003.

Sub:- Regarding Grant of Terms of Reference (TOR) Environmental Clearance for Common Solid Waste Management and Disposal Facility at Kotdwar, Dist.-Pauri-Garhwal, Uttarakhand by Nagar Nigam Kotdwar, Uttarakhand

Dear Sir,

With reference to the above-referred subject, we are planning to proposed setting up Common Solid Waste Management and Disposal Facility at Kotdwar, Dist.-PauriGarhwal, Uttarakhand.

We are hereby submitting application (form1 and PFR) and all requisite enclosures for grant of 'Terms of Reference ' as per the requirements of the EIA Notification no: S.O.1533 dated 14/09/2006 issued by Ministry of Environment Forests & Climate Change, Govt. of India. In absence of SEIAA, Uttarakhand, we are hereby uploading proposal to MoEF&CC.

We would request you to please consider our application for grant of 'Terms of Reference' to the project at the earliest.

Municipal Commissioner
Nagar Nigam Kotdwar

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FORM 1

(I) Basic Information

Sl. No.	Item	Details
1.	Name of the project/s	Solid Waste Management and Disposal Facility at Kot war, Dist.-Pauri Garhwal, Uttarakhand
2.	S.no. in the schedule	7(i) Common Municipal Solid Waste Management Facility
3.	Proposed capacity/area/length/ tonnage to be handled/command area/lease area/ number of wells to be drilled	
	Type of project	Solid Waste Management and Disposal Facility
	Plot area	0.998 Ha Waste processing & sanitary landfill
	Proposed capacity	Compost Plant – 43.2 ~ 43 TPD [Planned for a design period of 20 years] Landfill capacity – 11,800 MT [As per present availability of land, now planned for a design period of 5 years]. In future, additional land will be acquired to increase the landfill for additional design period of 15 years.
	Project Cost	INR -1521.6 lakh
4.	New/Modernization	New project
5.	Existing capacity/area etc.	Nil
6.	Category of Project i.e 'A' or 'B'	B, but due to applicability of general condition it will be appraised as category A
7.	Does it attract the general condition? If yes, please specify	Yes, Uttar Pradesh – Uttarakhand state border is located at a distance of 7m approx. from proposed waste processing & landfill site.
8.	Does it attract the specific condition? If yes, please specify	No
9.	Location	Kanchan Puri, Haldukhatta, Malankham, Kotdwar, Uttarakhand. Geographical Co-ordinates: A1 - 29°45'23.79"N / 78°26'14.14"E A2 -29°45'21.73"N / 78°26'17.05"E A3 - 29°45'24.25"N / 78°26'19.35"E A4 - 29°45'26.31"N / 78°26'16.47"E
	Plot/Survey/Khasra No.	Nil as it is a forest land
	Village	Kanchan Puri
	Tehsil	Kotdwar

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	District	Pauri Garhwal
	State	Uttarakhand
10.	Nearest railway station/airport along with distance in Kms	Kotdwar Railway station - 8 km on East Dehradun Airport – 53 km on NW
11.	Nearest Town, city, District Headquarters along with distance in Kms	Kotdwar – the proposed site is located on the outskirt of Kotdwar city on south.
12.	Village Panchayats, Zilla Parishad, Municipal Corporation, Local body (complete postal addresses with telephone nos. to be given)	Nagar Nigam Kotdwar Badrinath Marg, Kotdwar, Uttarakhand – 246 149 Ph # 01382 222028
13.	Name of the applicant	Municipal Commissioner, Nagar Nigam Kotdwar
14.	Registered Address	Nagar Nigam Kotdwar Badrinath Marg, Kotdwar, Uttarakhand - 246 149 Ph # 01382 222028
15.	Address for correspondence:	Do
	Name	Mr. Kisan Singh Negi
	Designation (Owner/Partner/CEO)	Municipal Commissioner
	Address	Nagar Nigam Kotdwar Badrinath Marg, Kotdwar, Uttarakhand
	Pin Code	246 149
	E-Mail	-
	Telephone No.	01382 222028
	Fax No.	-
16.	Details of Alternative Sites examined, if any Location of these sites should be shown on a topo sheet.	Two alternative sites examined. Alternate site analysis report is enclosed. The selected proposed site has been transferred from Forest Dept. and duly approved by the Govt. of Uttarakhand and MoEF&CC, Dehradun RO.
17.	Interlinked Projects	No
18.	Whether separate application of interlinked projects has been submitted?	No
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.	No
	(a) The Forest (Conservation) Act, 1980?	Yes. Approval already obtained. Copy is enclosed as Annexure.
	(b) The Wildlife (Protection) Act, 1972?	NA
	(c) The C.R.Z Notification, 1991?	NA

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22	Whether there is any Government Order/Policy relevant/relating to the site?	No
23	Forest land involved (hectares)	Yes - 0.998 Ha
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) Orders/directions of the Court, if any and its relevance with the proposed project.	None

(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)	No	<p>There will be change in land use due to development of the solid waste processing facility and landfill facility.</p> <table border="1"> <thead> <tr> <th>Details</th> <th>Area (Ha)</th> <th>Present Landuse</th> <th>Approval</th> </tr> </thead> <tbody> <tr> <td>Waste processing and sanitary landfill site</td> <td>0.998</td> <td>Forest</td> <td>Approval for diversion of forest land obtained.</td> </tr> </tbody> </table>	Details	Area (Ha)	Present Landuse	Approval	Waste processing and sanitary landfill site	0.998	Forest	Approval for diversion of forest land obtained.
Details	Area (Ha)	Present Landuse	Approval								
Waste processing and sanitary landfill site	0.998	Forest	Approval for diversion of forest land obtained.								
1.2	Clearance of existing land, vegetation and buildings?	No	At present, the land is devoid of any building/structure and covered with natural vegetation, bushes and shrubs. Existing vegetation needs to be cleared. Existing trees will be retained to the possible extent.								
1.3	Creation of new land uses?	Yes	At present both the site is vacant under ownership of Nagar Nigam Kotdwar. Approval for diversion of forest land for the waste processing site has been obtained. The site is allocated for waste processing and landfill facility.								
1.4	Pre-construction investigations e.g. bore houses, soil testing?	Yes	Detail geotechnical investigation will be carried out before the start of construction.								

1.5	Construction works?	Yes	Construction of adequate and appropriate infrastructures are waste receiving area, compost plant, weigh bridge, office block, canteen & rest room for workers, laboratory, RDF storage, compost storage, sanitary landfill facility, leachate treatment facility etc.
1.6	Demolition works?	No	No demolition work is required as the proposed site is devoid of any old structure or building.
1.7	Temporary sites used for construction works or housing of construction workers?	No	Local labours will be engaged for construction. Housing for construction workers not required.
1.8	Above ground buildings, structures or earthworks including linear structures, cut and fill or excavations	Yes	Administrative building and waste processing sheds will be installed above ground. Internal roads will be constructed. Earth cuttings will be done for making landfill cells, drains, water reservoir and civil foundations. Soil from excavation work will be used for plinth filling and land leveling. Estimated excavated earth will be approx. 10,000 m ³ .
1.9	Underground works including mining or tunneling?	No	No Mining and tunneling work involved.
1.10	Reclamation works?	No	Nil
1.11	Dredging?	No	Nil
1.12	Offshore structures?	No	Nil
1.13	Production and manufacturing processes?	Yes	Project involves – <ul style="list-style-type: none"> • processing of organic part of municipal solid waste and production of organic manure through Compost plant. • Landfill for inert wastes
1.14	Facilities for storage of goods or materials?	Yes	A temporary building shall be constructed for the storage of materials / equipment required during construction phase. Cement will be separately stored in a covered area with water-proof sheets. Sand will be stacked neatly under tarpaulin cover. Bricks and steel will be laid in open. The storage yard shall be located within the project site. During operation phase, there will be storage for finish product from compost plant.

1.15	Facilities for treatment or disposal of solid waste or liquid effluents?	Yes	<p>A Detailed Project Report has been prepared and as per DPR, Nagar Nigam Kotdwar will manage approx. 80 TPD wastes including recyclable wastes [for a design period of 20 years]. Nagar Nigam has also planned to set up decentralized segregation facilities.</p> <p>The proposed facility will have –</p> <ul style="list-style-type: none"> • compost plant of capacity 43 TPD for processing bio-degradable waste [design period 20 years]. • Sanitary landfill facility [11,800 MT capacity – as of now due to unavailability of land planned for a period of 5 years] for inert materials and rejects. • Liquid effluent i.e. leachate shall be treated in onsite leachate treatment unit.
1.16	Facilities for long term housing of operational workers?	No	Operational manpower requirement is estimated as 25. No Housing facilities or colony will be provided. The workers shall be employed from nearby areas.
1.17	New road, rail or sea traffic during construction or operation?	No	<p>The site is well connected via road network and existing road networks is adequate.</p> <p>It is located at the south flank of Kotdwara - Laldhang – Haridwar Road at Km 7th and approached through existing kuchha road [approx. 20 feet wide]. The existing kuchha road will be strengthened.</p>
1.18	New road, rail, air waterborne or other transport infrastructure including new or altered routes and stations, ports, airports etc.?	No	Not proposed, as the existing road network is adequate for handling of proposed transportation activities
1.19	Closure or diversion of existing transport routes or infrastructure leading to changes in traffic movements?	No	Not envisaged.
1.20	New or diverted transmission lines or pipelines?	No	There will be no shifting of electrical transmission lines.
1.21	Impoundment, damming, culverting, realignment or other changes to the hydrology of watercourses or aquifers?	No	Not envisaged.
1.22	Stream crossings?	No	No stream or nalla crosses through the proposed project sites. However, river Malan is situated about 480 m towards East.

1.23	Abstraction or transfers of water from ground or surface waters?	Yes	The fresh water requirement for the proposed project will be met through onsite bore well.
1.24	Changes in water bodies or the land surface affecting drainage or run-off?	Yes	Land is flat. Paved areas inside the proposed site will increase the runoff which will be diverted through internal storm water drainage network towards nearby stream/river.
1.25	Transport of personnel or materials for construction, operation or decommissioning?	No	Construction Phase: Construction workers will commute on their own or by arrangements made by contractor. Materials will be transported in covered trucks using the existing road. Operation Phase: Local workers will be hired in the operation phase and they will come on their own through bus, cycle or motor cycle. Waste materials for processing shall be transported through covered auto tipper, tractor.
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	During construction phase, local labours will be engaged. During operational phase, technical and semiskilled personnel will be employed from local as well as outside sources.
1.29	Introduction of alien species?	No	Not envisaged
1.30	Loss of native species or genetic diversity?	No	Not envisaged.
1.31	Any other actions?	Yes	Green belt will be provided all along the boundary of the site [approx. 1965 sqm].

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
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2.1	Land especially undeveloped or agricultural land (ha)	Yes	Proposed site is an undeveloped forest land [0.998 Ha] transferred to Nagar Nigam Kotdwar with the approval of the Govt. of Uttarakhand. Diversion of forest land is also obtained.																
2.2	Water (expected source & competing users) unit: KLD	Yes	Fresh water requirement [approx. 11 KLD] for the proposed project will be met through onsite borewell. Domestic consumption – 1 KLD [@45 lit/person]. Washing/water sprinkling/green area demand – 10 KLD.																
2.3	Minerals (MT)	No	Not required																
2.4	Construction material – stone, aggregates, sand / soil (expected source – MT)	Yes	Preferably, locally available building material will be utilized. Some equipment and machineries will be installed. The materials required for construction comprises of: <table border="1" data-bbox="826 862 1489 1167"> <thead> <tr> <th>S. No</th> <th>Raw Material for construction</th> </tr> </thead> <tbody> <tr> <td>1.</td> <td>Steel</td> </tr> <tr> <td>2.</td> <td>Cement (Bags)</td> </tr> <tr> <td>3.</td> <td>Stone Aggregate</td> </tr> <tr> <td>4.</td> <td>Sand</td> </tr> <tr> <td>5.</td> <td>Bricks</td> </tr> <tr> <td>6.</td> <td>Glass</td> </tr> <tr> <td>7.</td> <td>HDPE lining, Geo-membrane</td> </tr> </tbody> </table>	S. No	Raw Material for construction	1.	Steel	2.	Cement (Bags)	3.	Stone Aggregate	4.	Sand	5.	Bricks	6.	Glass	7.	HDPE lining, Geo-membrane
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2.5	Forests and timber (source – MT)	No	Not envisaged.																
2.6	Energy including electricity and fuels (source, competing users) Unit: fuel (MT), energy (MW)	Yes	Power demand for the project will be sourced from local electricity distribution authority. D.G. Set of 150 KVA will be provided at site as back up during power failure.																
2.7	Any other natural resources (use appropriate standard units)	No	Nil																

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	No	No substances or materials which are hazardous (as per MSIHC rules) to human health or the environment (flora, fauna and water bodies) will

	(flora, fauna, and water supplies)		be used in the project except a small quantity of HSD used for DG set.
3.2	Changes in occurrence of disease or affect disease vectors (e.g. insect or water borne diseases)	No	<p>As solid waste processing facilities is proposed to be developed under covered shed, i.e. no vector and rodents menace is expected. After unloading solid waste on the tipping floor/ pits, it will be immediately sprayed with herbal inoculum / effective microorganism through fogging nozzles to accelerate the rate of decomposition thereby reducing the odor.</p> <p>In order not to attract rodents, the liquid discharge produced by washings (and leachates, if any) will be taken out through proper waste traps and underground pipes rather than through open drains.</p> <p>Suitable storm water drainage network, proper capping and storage facilities for the recovered materials shall be developed. Waste management measures shall be adopted, which will restrict stagnation of water or accumulation of waste. This effectively restricts the reproduction and growth of disease vector.</p>
3.3	Affect the welfare of people e.g. by changing living conditions?	Yes	<p>Proper disposal and processing of solid wastes will create better hygienic conditions within city limits and adjacent areas. The project will:</p> <ul style="list-style-type: none"> • Improve environmental conditions of the area. • Improved public health, safety & hygiene in handling the waste. Improved health and productivity of sanitary workers. • Awareness among citizens and the community to follow Solid Waste Rules & guidelines. • Socio-economic improvement. • Commercial orientation in solid waste management.
3.4	Vulnerable groups of people who could be affected by the project e.g., hospital patients, children, the elderly etc.,	No	<p>Nearby habitation is located at a distance of 150 m on north east of proposed site.</p> <p>But, all precautions/ mitigation measures will be taken to control pollutants and therefore no adverse effect on vulnerable group is envisaged. However, it will be studied in detail during EIA study.</p>
3.5	Any other causes	No	No other risks envisaged.

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	Not applicable
4.2	Municipal waste (domestic and or commercial wastes)	Yes	The proposed project is for setting up of municipal solid waste processing and landfill facility.
4.3	Hazardous wastes (as per Hazardous Waste Management Rules)	No	No hazardous waste would be generated as the proposed project is an integrated solid waste management facility.
4.4	Other industrial process wastes	No	No industrial process waste will be generated or handled
4.5	Surplus product	No	Nil
4.6	Sewage sludge or other sludge from effluent treatment	No	Sewage is treated through septic tank and soak pit.
4.7	Construction or demolition wastes	No	Construction waste debris will be utilized for development of approach road/internal road.
4.8	Redundant machinery or equipment	No	Nil
4.9	Contaminated soils or other materials	No	Windrow composting will be done on concrete platform. Adequate precautions will be adopted to prevent any contamination. Adequate precautions will also be adopted in landfill facility to prevent any spillage or leakage.
4.10	Agricultural wastes	No	Not applicable
4.11	Other solid wastes	Yes	Organic waste will be processed in the compost plant and inert matter will be sent to the Sanitary landfill site.

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	Emission of SO ₂ & NO ₂ will be there due to use of diesel machinery & Vehicular movement but the emission shall be kept under control by proper maintenance. Stack of adequate height as per norms will be provided for DG sets and low Sulphur diesel shall be used as fuel. Hence the emissions will be complied with the standard limits.

5.2	Emissions from production processes	Yes	The source of air pollution from the facility will be from the following - Compost Plant - Microbial Culture will be sprayed to reduce odor problem and moisture will be maintained to control the dust. Green belt will also be developed along the boundary of the site Landfill Facility –Methane gas generation. The landfill gas from the collection facility shall be burnt (flared) and shall not be allowed to escape directly to the atmosphere or for illegal tapping.
5.3	Emissions from materials handling including storage or transport	Yes	Due to the transportation activity and vehicular movements, the fugitive emission will also be there. The dust particles give rise to increase in PM ₁₀ & PM _{2.5} . Vehicles carrying solid waste will be covered properly.
5.4	Emissions from construction activities including plant and equipment	No	Dust emission during construction phase is not much expected and can be suppressed by appropriate measures like water sprinkling, barricading etc.
5.5	Dust or odours from handling of materials including construction materials, sewage and waste	Yes	Appropriate measures will be taken to control dust emission during material handling and vehicular movement like water spraying & enclosures etc. Dust Control - The facility for receiving and processing of waste in an integrated manner having proper roads, cemented platform, well ventilated sheds and other control measures have been planned and executed at the proposed waste processing facility. Control of Odour - At the time of unloading of solid wastes, herbal inoculums/effective microorganism will be sprayed to minimize odour. Landfill facility – Covering with soil will be done on regular basis.
5.6	Emissions from incineration of waste	No	Nil as no incinerator will be installed.
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.	Information/Checklist confirmation	Yes/	Details thereof (with approximate
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No.		No	quantities/rates, wherever possible) with source of information data
6.1	From operation of equipment e.g., engines, ventilation plant, crushers	Yes	The source of noise pollution includes blowers, shredders, DG Set & processing plant. Wherever possible, necessary enclosures would be provided to ensure that noise level do not exceed the prescribed standards [85 dB (A) at 1 m distance from the equipment]. All precautions to keep noise under control will be taken. Equipment and machinery installed will be based on such technologies so as to meet specified norms of Noise and Vibration levels. DG set will be provided with inbuilt acoustic enclosure. Provision of ear muffs to the workers, regular maintenance of the equipment will help in reducing the noise levels. Therefore, no significant impact due to operation of machinery is anticipated.
6.2	From industrial or similar processes	No	Not applicable
6.3	From construction or demolition	No	The construction work involves more of the fabrication work, for which proper mitigation measures will be taken. Adequate precautions will be taken to reduce the noise generation. No demolition work is involved.
6.4	From blasting or piling	No	Not applicable
6.5	From construction or operational traffic	Yes	Both construction and operational phase in the project involves daily transportation of materials. A time plan will be framed for vehicles carrying solid wastes to the site. Proper parking facility is planned at the site for vehicles carrying or taking out the materials. During the construction and operational phase, the source of noise will be vehicular movement and running of construction equipment which will be controlled with proper maintenance schedule. Moreover, both the sites are away from the habitation. Thereby, no significant impact will be there due to the proposed activities.
6.6	From lighting or cooling systems	No	Nil
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 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	Yes	No substances or materials which are hazardous (as per MSIHC rules) to human health or the environment (flora, fauna and water bodies) will be used and stored in this project except limited quantity of diesel for the operation of DG set.
7.2	From discharge of sewage or other effluents to water or the land (expected mode and place of discharge)	Yes	Leachate generated from the project will be treated and will be recycled at site.
7.3	By deposition of pollutants emitted to air into the land or into water	Yes	The landfill gas from the collection facility shall be burnt (flared) and shall not be allowed to escape directly to the atmosphere or for illegal tapping. There will be no deposition of pollutants in to air and water.
7.4	From any other sources	No	Nil
7.5	Is there a risk of long-term buildup of pollutants in the environment from these sources?	No	All the activities will be carried out in environmentally sound manner complying with Solid Waste Management Rule 2016. Thus, no long-term pollution will occur.

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	Yes	No Hazardous substance will be used and stored at site. However, necessary fire protection measures will be adopted and approval will be obtained.
8.2	From any other causes	No	Not applicable

8.3	Could the project be affected by natural disasters causing environmental damage (e.g. floods, earthquakes, landslides, cloudburst etc)?	No	The structure will be earthquake resistant as per applicable norms. The location falls under Seismic Zone IV in Indian standard seismic Zoning map. The proposed site is located approx. 480 m away from the active stream of river Malan on East.
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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 have impact on the environment e.g.: <ul style="list-style-type: none"> Supporting infrastructure (roads, power supply, waste or waste water treatment, etc.) housing development extractive industries supply industries other 	No	The solid waste management facility is planned for offering better living conditions and disease free environment to the society. The project will enhance cleanliness and aesthetics of the area. It involves door to door collection of waste, transportation, processing, baling of dry wastes and disposal of inert wastes into the proposed separate landfill site. This project will not only provide better disposal of waste but also value addition products like bio-compost, RDF will be obtained. In addition to above, a thick green belt has been proposed to be developed all along the project boundary. This will not only attenuate the pollution and odour emissions from plant but also will add to beauty of the area and influence the microclimate of the area. The project will also have a positive impact in terms of health and socioeconomic development.
9.2	Lead to after-use of the site, which could have an impact on the environment	No	Not Applicable
9.3	Set a precedent for later developments	Yes	The project will not only eradicate the problem of accumulating solid wastes in the city but also provide value addition products like bio-compost and segregated recyclable wastes which can generate revenue. The project will have a positive impact in terms of health and socioeconomic development.

9.4	Have cumulative effects due to proximity to other existing or planned projects with similar effects	No	Not Applicable
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(II) Environmental Sensitivity

S. 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	Yes	Rajaji National Park is located at an approximate aerial distance of 12.3 km on NW.
2	Areas which are important or sensitive for ecological reasons- Wetlands, watercourses or other water bodies, coastal zone, biospheres, mountains, forests	Yes	Giwain RF -9.1 Km, NE Sukhrao RF - 7.9 Km, NE Sattikhal RF - 8.7 Km, NE Gwalgarh RF - 8.5 Km, NE Laldhang RF - 5.4 Km, NW Kotdwara RF -3.6 Km, N Kotawali RF - 20 m, SW Girdawa Sahanpur RF - 6.1 Km, SW Kauriya RF - 2.0 Km, SE Mohanwali RF - 8.6 Km, S North Kothari RF - 9.6 Km, SE South Kothari RF - 9.7 Km, SE Paniyal RF - 7.7 Km, NE Sukharao Kham RF - 5.2 Km, NE Malinkham RF - 1.6 Km, NE
3	Areas 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	Yes	Malin Nadi - 480 M, E Sukh Rao Nadi - 4.8 km, E Khoh Nadi - 9.8 Km, SE
5	State, National boundaries	Yes	UP - Uttrakhand state boundary - 20m, SW
6	Routes or facilities used by the public for access to recreation or other tourist, pilgrim areas	Yes	Haridwar Road – 160 m, N Kotdwara-Laldhang/NH-119/Meerut-Pauri Road (534) – 8.1 km SE
7	Defence installations	No	Not within 15 km of the project site

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8	Densely populated or built-up area	Yes	Kotdwar town – population approx. 175,232.as per Census 2011.
9	Areas occupied by sensitive man-made land uses (<i>hospitals, schools, places of worship, community facilities</i>)	Yes	There are some sensitive man-made hospitals, schools, college within study area however some nearby are as follows: <ul style="list-style-type: none"> • Government Hospital - 2.6 Km N • Dr. Arun Rawat Hospital, Devi Rd-1.9 Km NE • Hospital Jhandichaur -3.4 Km, NW • Government Polytechnic Kotdwar - 500 M, N • Navyug Public School - 2 Km, NE • Bal Bharti School - 1.7 Km, NE • Government Girls College - 3.2 Km, E • Kanwashram Temple - 4.5 Km, NE • Durga and shiv mandir -1 KM, N • Shri Siddhballi Dham, Kotdwar - 9.8 Km, NE • Garhwal Cinema - 7.8 Km, E
10.	Areas containing important, high quality or scarce resources (<i>Ground water resources, surface resources, forestry, agriculture, fisheries, tourism, minerals</i>)	Yes	Adjacent lands are forest lands.
11	Areas already subjected to pollution or environmental damage (<i>Those where existing legal environmental standards are exceeded</i>)	No	Nothing specific
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>)	Yes	The area falls in Zone IV, according to the Indian standard seismic Zoning map. The site is located beyond the HFL zone of Malan River.

(IV) **Proposed Terms of Reference (TOR) for EIA studies given below: -**

- A. Executive Summary:** Including idea of the objectives of the proposal, use of resources, justification, etc. In addition, it should provide a compilation of EIA report, EMP and the post project monitoring plan in brief.
- B. Introduction of Project:** The project background need and proposed management system on cluster approach basis through public private partnership.
- C. Project description:** Type of Project, Justification for Selection of site, Land requirement including its optimization, breakup & availability, Complete process flow diagram describing each of the unit process and operations, Source of water & its availability, Power requirement

and its source and manpower requirement. The project should be designed based on the population projections as by Master Plan

D. Description of the environment:

1. Land Environment

- ❖ 10 km. radius map (on survey of India toposheet) showing co-ordinates of project site, national highways, state highways, district roads/approach roads, river, canal, natural drainage; protected areas under Wild Life (Protection) Act, archaeological site, natural lake, flood area, human settlements (with population), industries, high tension electric line, prominent wind direction (summer and winter), effluent drain, if any and ponds etc. will be presented and impacts assessed on the same.
- ❖ Land use pattern.
- ❖ Details of geology will be submitted.
- ❖ Topography of the area indicating will be submitted.
- ❖ Soil analysis details of the surrounding area of the project site will be submitted.

2. Air Environment

- ❖ Status of ambient air quality for six locations within the project area and buffer zone will be submitted.
- ❖ Details of the odour control measures will be submitted.

3. Water Environment

- ❖ Water Quality (Ground & surface Water) of studied area shall be submitted at six locations.
- ❖ Details of storm water/ Leachate collection from the composted area will be submitted.
- ❖ Details of impact on water bodies/ rivers/ ponds and mitigative measures will be submitted.
- ❖ Details of impact on the drainage and nearby habitats/settlements (surroundings) will be submitted.
- ❖ Details of surface hydrology, water table of the area and water regime and impact on the same will be submitted.
- ❖ Break-up of Water requirement along with the water balance chart.

4. Noise Environment

- ❖ Noise quality in the study area will be reported.
- ❖ Possible mitigation measures will be submitted.

5. Baseline Environment

- ❖ One complete season AAQ data (except monsoon) for at six locations to be given along with the dates of monitoring as per the New Ambient Air Quality Standards. The location of the monitoring stations shall be decided taking into consideration the pre-dominant downwind direction. At least one monitoring station each in the upwind and in the pre dominant downwind direction will be installed at a location where maximum ground level concentration is likely to occur.

- ❖ Water quality of surface and ground sources in the study area shall be monitored. Water quality shall be monitored at six locations in and around the Project area. The water samples will comprise of both surface and ground water samples and will be collected and analysed for Physico-Chemical, bacteriological, biological characteristics.
- ❖ Noise level shall be measured at various locations in and around the project. Locations shall be suitably selected covering different zones such as industrial, residential, commercial and sensitive locations.
- ❖ Soil quality in the study area will be assessed through collection and analysis of soils at various locations.
- ❖ Details of flora and fauna will be obtained from secondary sources, like District Gazetteer/ District Statistical Handbooks.
- ❖ Compliance monitoring protocol will be submitted.
- ❖ Details of impact on environmental sensitive areas, in the vicinity of the project will be submitted.
- ❖ Environmental Management Plan and Environmental Monitoring Plan with costs and parameters will be submitted
- ❖ Details of population, socio-economic status within the study/ Impact area will be submitted.

E. Environmental Impact Assessment & mitigation:

Assessment of Ground level concentration and Impact prediction through Air modelling using CPCB approved model. Details of pollution control measures (Air, Water, Soil & Noise)

F. Analysis of Alternatives

G. Environmental Monitoring Plan

H. Additional Studies including Public Consultation, Risk Assessment and Social Impact assessment

I. Project benefits like:

- a. Integrated MSW management in line with Solid Waste Management Rule 2016
- b. Socio Economic development,
- c. Reclamation of land
- d. Use of waste.

J. Environmental Cost Benefit Analysis

K. Environmental Management Plan

L. Summary & Conclusion: This section will cover the findings of the study and proposed mitigation measures.

M. Disclosure of the EIA consultant engaged

"I hereby given undertaking that the data and information given in the application and enclosures and 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: 04/03/2022

Place: Kotdwar, Uttarakhand

Address: Nagar Nigam Kotdwar



Municipal Commissioner
Nagar Nigam Kotdwar

The image shows a rectangular stamp with the text "Municipal Commissioner" and "Nagar Nigam Kotdwar" printed on it. Overlaid on the stamp is a handwritten signature in blue ink, which appears to be "M. K. Singh", and the date "04/03/2022" written in blue ink.

Signature of the applicant

2022

Pre-Feasibility Report of
Solid Waste Management &
Disposal Facility
Nagar Nigam Kotdwar,
Uttarakhand

Ind Tech House Consult
New Delhi

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CHAPTER - I EXECUTIVE SUMMARY

1.1 Introduction

Swachh Bharat Mission Urban came into effect from October 2014 and all ULBs are mandated to make detailed project report to implement the same. In this regard Nagar Nigam Kotdwar under guidance of Urban Development Directorate, Uttarakhand has appointed EveryULB technology as consultant for preparation of the DPR as per the SBM guidelines to modernize the present SWM system, improve services and practices to achieve 100% coverage in the ULB complying with Swachh Bharat Mission 2014 and Uttarakhand state solid waste management guidelines.

Salient Features of the Project

1	Name of the Applicant	Nagar Nigam Kotdwar
2	Proposed Project	Solid Waste Management & Disposal Facility at Kotdwar, Dist.-Pauri Garhwal, Uttarakhand
3	Proposed Sector	7(i), Common Municipal Solid Waste Management Facility
4	Address for Correspondence/ Telephone number	Nagar Nigam Kotdwar Badrinath Marg, Kotdwar, Uttarakhand - 246 149 Ph # 01382 222028
5	Name	Mr. Kisan Singh Negi
	Designation (Owner/Partner/CEO)	Municipal Commissioner
	Proposed land area	0.998 Ha
	Project Site Co-ordinates	Geographical Co-ordinates: Geographical Co-ordinates: A1 - 29°45'23.79"N / 78°26'14.14"E A2 - 29°45'21.73"N / 78°26'17.05"E A3 - 29°45'24.25"N / 78°26'19.35"E A4 - 29°45'26.31"N / 78°26'16.47"E
	Proposed Capacity	Compost Plant – 43.2 ~ 43 TPD [Planned for a design period of 20 years] Landfill capacity – 11,800 MT [As per present availability of land, now planned for a design period of 5 years]. In future, additional land will be acquired to increase the landfill for additional

		design period of 15 years
	Components of the proposed facility	The project involves – <ul style="list-style-type: none"> • processing of organic part of municipal solid waste and production of organic manure through Compost plant. • Landfill for inert wastes
	Manpower requirement	Manpower requirement for the proposed processing and disposal facility is 25.
	Total Water Requirement/ Source	11 KLD Fresh water. Source: Onsite groundwater abstraction
	Cost of proposed Project	INR 1521.6 lakh

CHAPTER – 02

INTRODUCTION OF THE PROJECT/BACKGROUND INFORMATION

2.1 Identification of the Project and Project Proponent

Urban solid waste management has become one of the important facets of public health. With rapid urbanization and changing lifestyles, there is an increased generation of solid wastes quantity which makes the problem of solid wastes management increasingly acute. Most of the urban areas are overwhelmed by discriminating problems related to solid waste management. The collection and disposal of solid waste is one of the pressing problems in the urban areas.

Kotdwar is a city, a municipal corporation and a tehsil in the Pauri Garhwal district of Uttarakhand, India. It is just 101 km from Pauri town, the district headquarters. It is the eighth largest city in Uttarakhand.

Kotdwar ULB faces a number of challenges in upgrading solid waste management resulted from a number of factors such as its peculiar rural-urban continuum, pressure on land due to high density of population, and scarcity for landfill sites due to the spread of habitations. However, compared to peripheral areas of other urban centers in Uttarakhand, land holdings in the erstwhile Nigam areas of Kotdwar are comparatively higher.

Since growth is expected to be moderate, the future generation trends will be governed by population changes and will be mainly from domestic sources. The impact of tourist arrivals on generation will be much, as on an average the arrivals will be around 8000-10000 persons per day on peak days. However, considering the contribution to economy by the fast-growing tourism commercial, hygienic management of waste will be important for the promotion of the industry.

Cold and dry climate makes slower decomposition of waste necessitating daily removal and safe disposal. Heavy rainfall spread over six months may result in moderate moisture content in solid wastes and a resultant low calorific value. Composting, the most feasible option for treatment will require covered compost shed.

Presently there is no processing and treatment of waste facilities in Kotdwar municipal area. All the wastes collected are openly dumped near Paniyali Lakdi Padao which is located 4 km away from town.

Therefore, Kotdwar Nagar Nigam has planned to upgrade the present system to ensure safe collection of waste from sources to the extent possible, transportation of the same either directly or to the secondary storage and subsequent transportation from there for treatment and final disposal of rejects and inert wastes. The system is designed to manage 100 percent of the waste reaching the Municipal stream- daily removal of organic matter to treatment plant for processing and need based removal of inorganic and inert to landfill site and disposal by sanitary methods.

The management plan is designed for handling 80 tons of waste for design year 2039 generated in the Kotdwar ULB and considers that all waste is handled at the local level through centralized model.

A land of area 0.998 Ha has been selected for the SWM project at Kanchan Puri, Haldukhatta Malankham, Kotdwar.

2.2 Brief Description of the Project

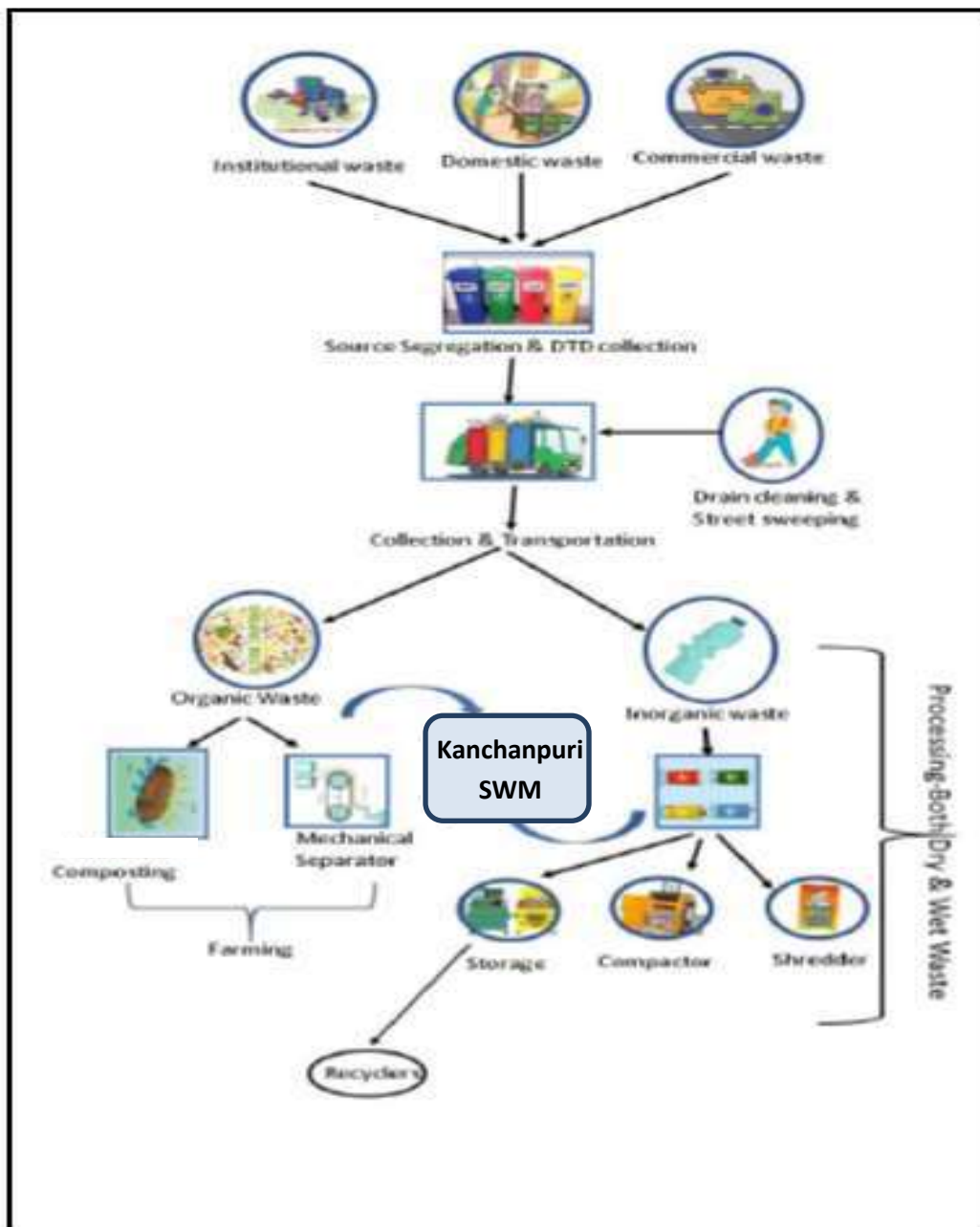
An integrated solid waste management (ISWM) facility will be established at Kotdwar with redesigning & improving the existing solid waste management system in an environmentally and economically sustainable manner. The project falls under Category 'B' of Schedule 7(i) Common Municipal Solid Waste Management Facility as per the EIA Notification, 2006 & its amendments thereof. But, due to applicability of general condition [Uttarakhand-UP state border is very near to the project site], it will be appraised as category A and will be appraised by the EAC, MoEF&CC Uttarakhand. The project consists of:

- Segregation and storage
- Primary Storage & Collection System
- Secondary Storage, Collection & Transportation System
- Integrated Solid Waste Management Facility at Kanchan Puri, Kotdwar.

The proposed infrastructure for primary waste collection will cover about 32,600 households under door-to-door collection system, over a five-year period. Simultaneously, door step/

kerbside collection to collect solid wastes everyday shall be introduced for non-domestic and other sources. All the generators through community awareness programme, will be sensitized and trained to segregate the wet and dry wastes in separate bins.

All wastes will be brought into tipping area and further segregated into various recycling streams which will be sold to local recyclers [kabadiwalas] weekly basis. Organic wastes will be turned into compost by using mechanically aerated compost pits. The design duration is taken as 30 days and aerator will ensure the same even if the conditions are in lower temperature during winter days. Stepwise landfill will be provided for inert wastes disposal. The blueprint of proposed solid waste management system is given below -



Proposed Waste Management Plan - Kotdwar

2.3 Need of the Project

Integrated Solid Waste Management [ISWM] is an organized process of storage, collection, transportation, processing of solid wastes and disposal of rejects in an engineered sanitary landfill. It is an integrated process comprising several collection methods, varied transportation equipment, storage, recovery mechanisms for recyclable material, reduction of waste volume and quantity by methods such as composting and scientific disposal of process rejects in an eco-friendly manner.

The Implementation of ISWM is an important component of the Government of India's "Swachh Bharat Mission" (SBM) - component IV. Considering the above, UUSDA proposes to strengthen the ISWM system in each ULB covering segregation, collection, transportation, recycling, processing and disposal. The project shall comply with the Solid Waste Management Rules, 2016 (SWM Rules, 2016), CPHEEO manuals (including cost recovery mechanism), Operation & Maintenance (O&M) practices and service level benchmark advisories released by MoUD from time to time. SWM Rules, 2016 stipulate that each ULB should treat and dispose of the MSW generated by them in a manner so as not to cause damage to human health and environment. Government of Uttarakhand has decided to implement Integrated Solid Waste Management projects in all ULBs including landfill site either exclusively for the ULB or by forming regional landfill facility.

The local government body of the town is Nagar Nigam (NG) which has an elected board apart from officials. This town saw a radical shift amongst the business groups, a majority of which shifted base from Duggada to Kotdwar. This was beginning of Kotdwara's phenomenon rise as a hub of trade and commerce, which is still continuing.

The Nagar Nigam has planned to establish a solid waste processing and disposal facility in accordance of the Solid Waste Management Rules, 2016 at the earliest. In this regard, Nagar Nigam Kotdwar under guidance of Urban development directorate, Uttarakhand has prepared a Detailed Project Report (DPR) for ISWM through EveryULB technology.

CHAPTER – 03

PROJECT DESCRIPTION

3.1 Type of the Project

The proposed solid waste management facility will upgrade the system to ensure safe wastes collection from sources to the extent possible, transportation of the same either directly or to the secondary storage and subsequent transportation for treatment and final disposal of rejects and inert wastes. The system is designed to manage 100 percent of the waste reaching the Municipal stream- daily removal of organic matter to treatment plant for processing and need based removal of inorganic and inert to landfill site and disposal by sanitary methods.

Municipal Solid waste management facility will be developed at Kanchanpuri, Haldukhata, Kotdwar. The land measuring 0.998 ha identified for setting up of the proposed facility has been transferred to Kotdwar Nagar Nigam by Lansdowne Forest Division. The civil infrastructure for waste processing will be made considering waste generation of next 20 years. As per present availability of land, landfill facility is now planned for a design period of 5 years. In future, additional land will be acquired to increase the landfill for additional design period of 15 years.

3.2 Location

Kotdwar is in the northern part of India, to the north-west of Uttarakhand. It is a town and district headquarters in the Uttarakhand located on the foothills of the Shivalik Range of Himalayan Mountains.

Kotdwar is located in the south-western part of the state and on the bank of river Khoh. It is one of the main entrance points in the state of Uttarakhand locked by hills from three sides & situated at a height of 395m above sea level. Kotdwar lies between 30.37°N latitude 78.43°E longitude. Haridwar Road and Kotdwara-Laldhang/NH-119 are the major roads that cross the town.

The proposed project site for setting up of solid waste processing and disposal facility is located at Kanchanpuri, Haldukhata on south of Haridwar Road near Umraonahgar, Kotdwar.

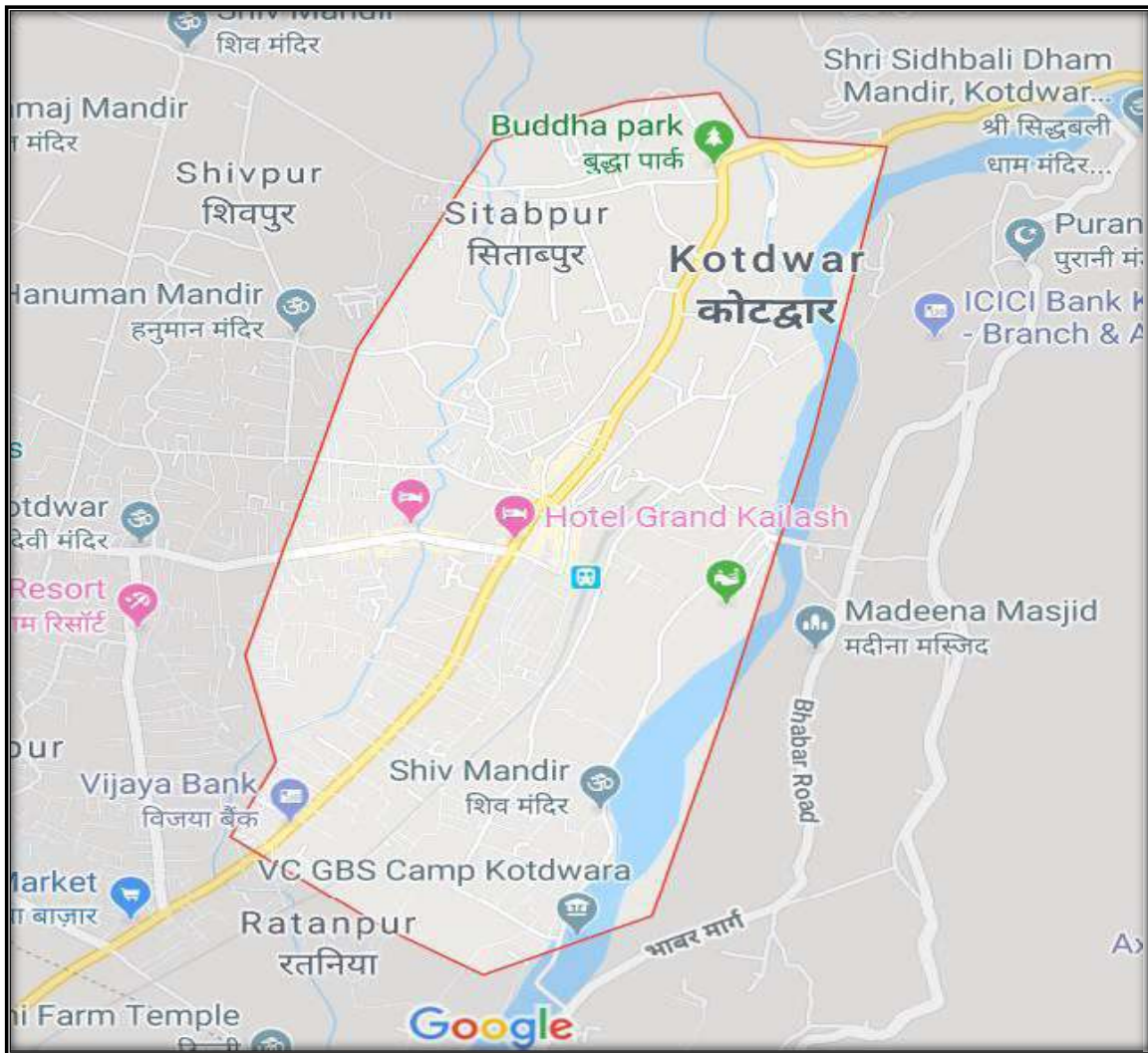


Figure 3.1: Boundary map of Nagar Nigam Kotdwar

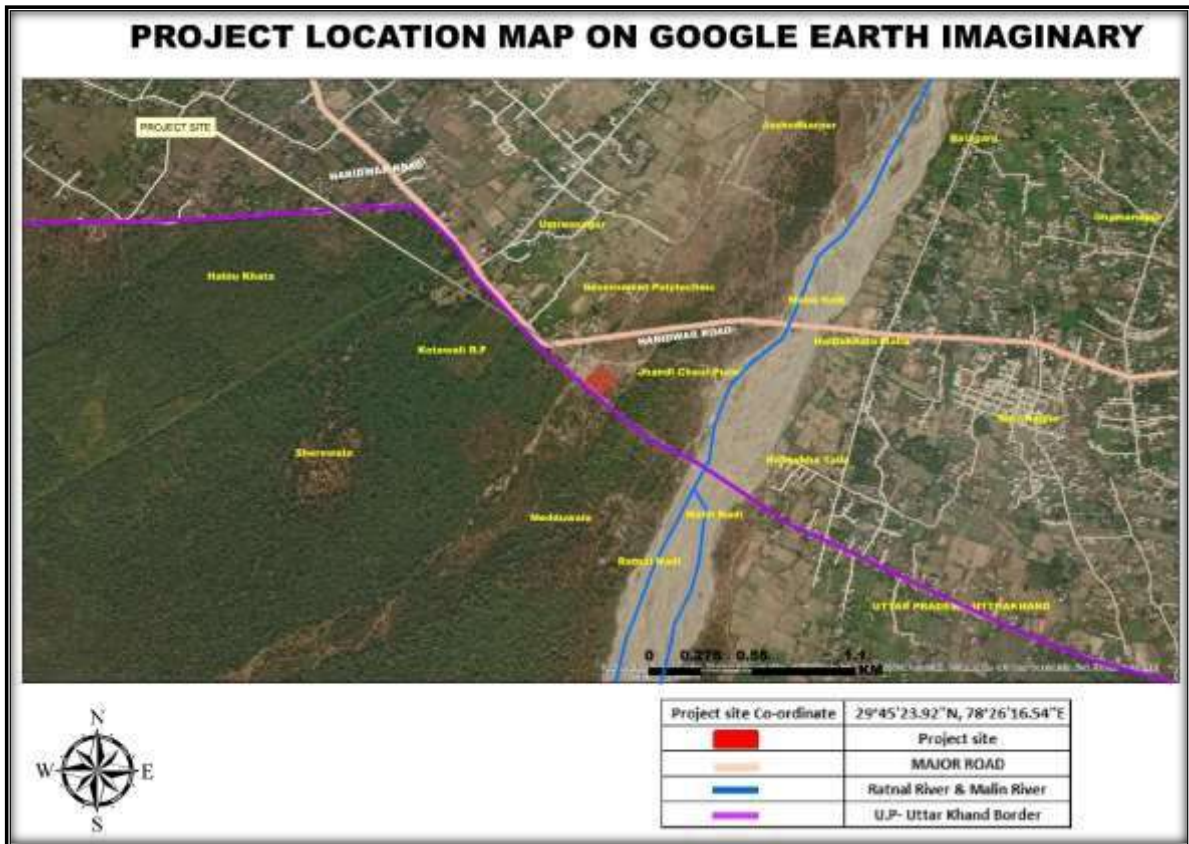


Figure 3.2 Location of Proposed Project Site

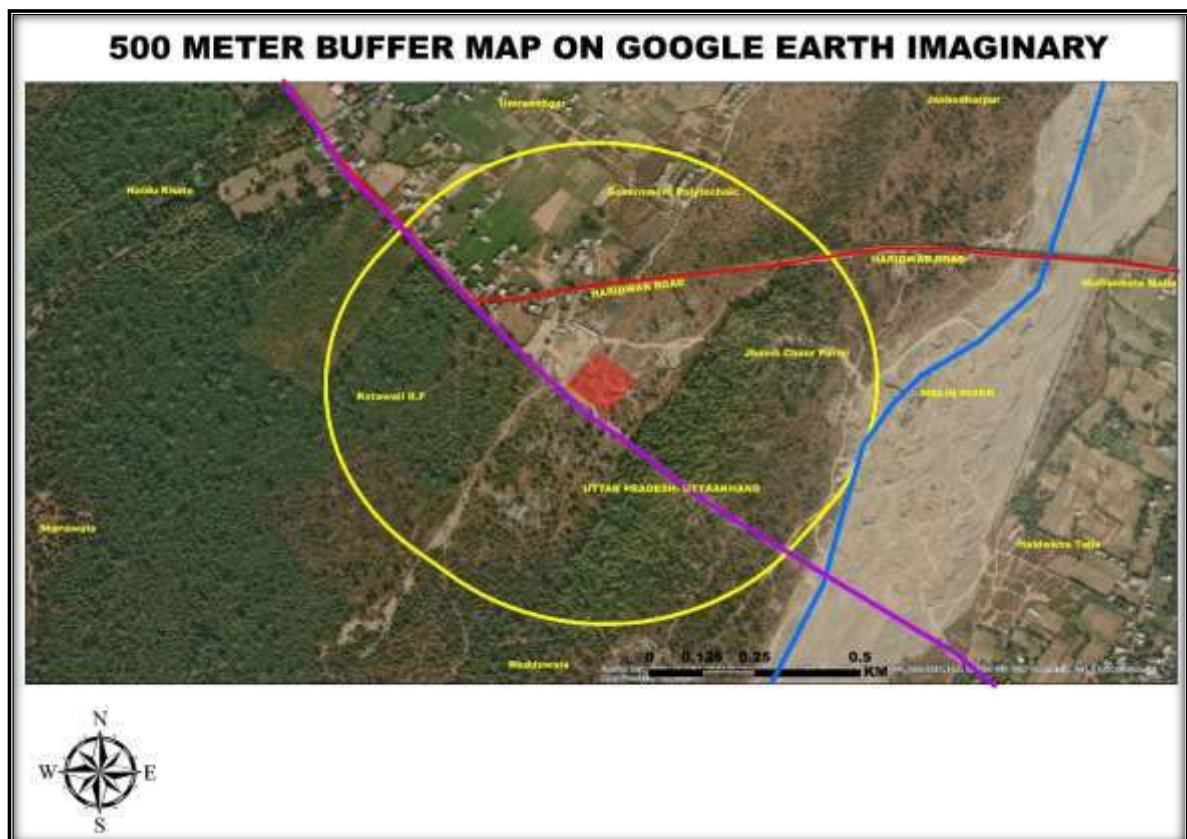


Figure 3.3: 500m Buffer Map of Proposed Site

3.3 Project Description

3.3.1 MSW Wastes Projection

The population of Kotdwar is around 175,232 [as per census 2011] and current waste generation is close to 50-60 TPD. The waste generation is function of population and lifestyle of people. Therefore, it is essential to project the population for 20-25 years for setting out the infrastructure for solid waste management facility.

Horizon Year	Arithmetic increase method	Difference in population 2011	Net Arithmetic Increase	Floating population	Per Capita, gm/day	Daily waste generation	Annual waste Generation
2011	33035	102565	135600	20340	300	41.3	15070.9
2018	38684	108214	146898	22035	308	46.0	16835.6
2019	39491	109021	148513	22277	313	47.2	17258.9
2023	42719	112249	154969	23245	331	52.0	19039.0
2027	45948	115478	161425	24214	350	57.3	20966.4
2031	49176	118706	167881	25182	370	63.0	23051.9
2035	52404	121934	174338	26151	391	69.1	25307.4
2039	55632	125162	180794	27119	413	75.8	27745.4
2040	56439	125969	182408	27361	419	77.6	28462.6
2041	57246	126776	184022	27603	425	79.3	29037.1

3.3.2 Existing Solid Waste Management System

The Nagar Nigam Kotdwar has currently 237 workers including 46 as permanent safai karamchari and remaining are Muhalla samiti excluding 16 drivers and rest are outsourced as per requirement.

Currently some extent of source segregation is done, ULB has distributed 2 colour coded dustbins to most households. Collection is also done from inaccessible wards and narrow streets in handcarts which ultimately transferred to secondary collection vehicle and secondary storage community bins on daily or alternate days. Street sweeping is done daily and drain cleaning is done twice a week. Secondary bin is cleaned at least once in daily or when its full whichever is earlier.

Present Disposal – Dry waste is processed in the compactor machine at old dumping site although some fraction of plastic bottles and recycles items are sold to the recyclers. Currently there is no transfer station in Nagar Nigam, the collected waste is directly transferred to Paniyali lakdi padao where it is openly dumped.

3.3.3 Proposed Solid Waste Management System

The proposed system is designed to manage 100 percent of the waste reaching the Municipal stream, daily removal of organic matter to treatment plant for processing and need based removal of inorganic and inert to landfill site and disposal by sanitary methods.

The management plan is designed for handling 80 tons of waste for design year 2039 generated in the Kotdwar ULB and considers that all waste is handled at the local level through centralized model.

The detailed Plan mainly focuses the following key components:

- i. Promoting segregation and storage of waste at source in two bins- for biodegradable waste and recyclable / other non-biodegradable, so as to facilitate an organized and hierarchical system of waste collection and disposal;
- ii. Organization of door to door / kerb-side collection with community participation on cost recovery basis and minimize the multiple handling of waste, improvement in the productivity of labor and equipment. NGP will motivate segregation, storage and door step primary collection through one time supply two bins to households willing to join door step collection;
- iii. Direct transportation of waste from large generators without an intermediate storage in covered tipper vehicles;
- iv. Daily transportation of organic waste /mixed waste to treatment site by Container transportation using simple hydraulic system mounted dumper placer vehicles;
- v. Need based transportation of inorganic and other dry wastes to landfill site by dumper placers;
- vi. Collection and transportation of garden waste on pre-fixed days in tipper trucks;
- vii. Awareness creation for segregation, storage at source, home level composting, waste reduction at source;
- viii. Institutional strengthening and capacity building; and
- ix. Monitoring system to increase productivity and for timely redressal of complaints.

The efficiency of the proposed Waste Management Plan will be driven by the separation of waste at the primary collection level. For this purpose, following approach needs to be adopted by the residents as well as the Municipality personnel –

- Create awareness for segregation and storage of waste in three bin system for wet, dry and household biomedical/ hazardous waste
- Organize awareness campaigns for waste segregation through local NGO's, school representatives
- Regular meeting and interaction with representatives of local residents' associations, community participants, NGO's etc.
- To direct waste generators not to throw waste in the neighborhoods on streets and other open areas.

However, it is not easy to implement source segregation practices immediately. A prolonged campaign will be required with adequate budgetary provisions to impress the citizens that source segregation will provide them a healthy environment and a better lifestyle.

3.3.4 Proposed Wastes Processing and Disposal Facility

- The segregated waste will be brought into tipping area and further segregated into various recycling streams (into 12 types) which will be in turn sold to nearest "Recyclers / local Kabadiwala" weekly.
- Organic waste will be turned into compost by nine no of compost pits. The design is of aerated compost method where mechanical aerator will provide oxidation to accelerate the process. Box type composting system will be adopted as it is comparatively more efficient than conventional windrow system of composting.
- Conveyor belt with trommel system will be given of capacity 80 TPD to cater to pre-compost conversion to take out the minor size inorganic items and for easy sorting into various recycling streams. 12 containers will be provided to store the segregated inorganic materials to be further sold to local recyclers. The selling can be done week wise in a designated day and ULB should register the Kabadiwalas/ rag pickers for including them in the disposal of these inorganic / recyclable items.
- Step wise landfill will be provided to inert waste and for the legacy waste dumped there for many years. The ULB will acquire additional land to cater the 20 year design period.



Figure 3.4: Proposed Site for SWM Facility at Kanchanpuri, Kotdwar

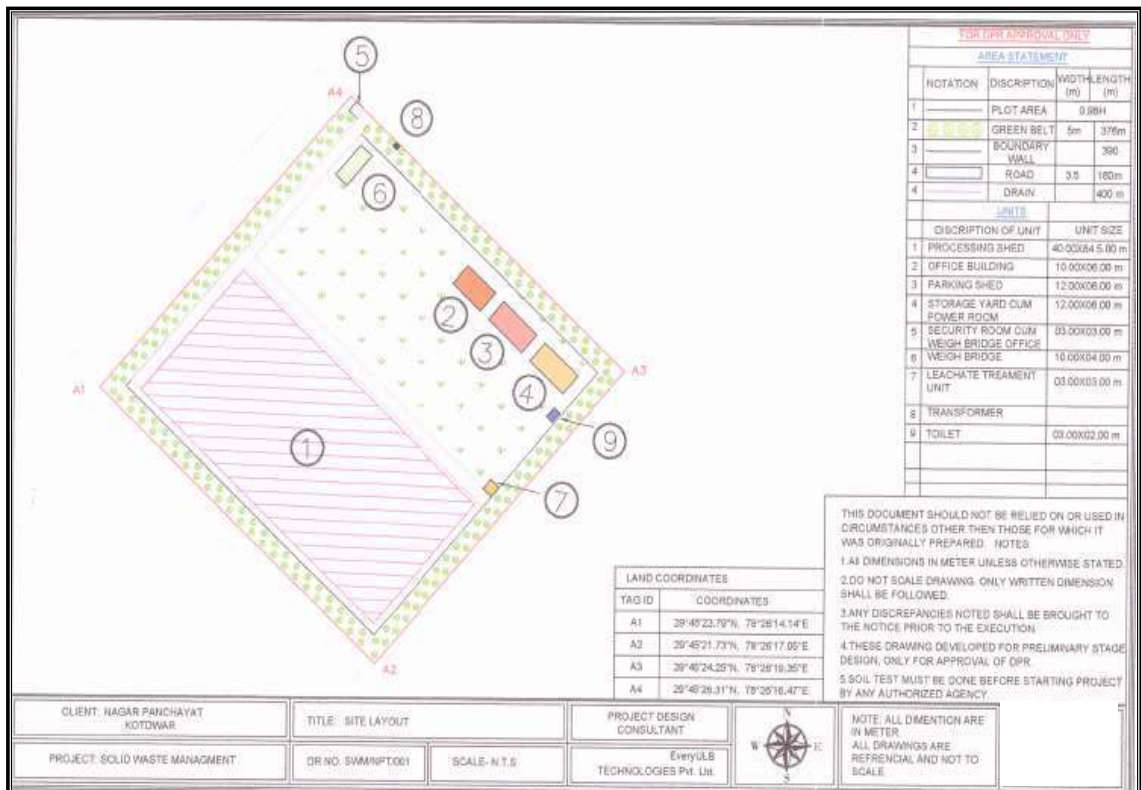


Figure 3.5: Proposed Project Layout Plan

CHAPTER-04

SITE ANALYSIS

4.1 Site Selection

Two alternative site were examined – one within the SIDCUL industrial area and other near the Khoh river. Considering the site suitability and availability of land under present situation, Govt. of Uttarakhand has approved the site at Kanchanpuri for setting up of proposed MSW processing and landfill facility. Comparative site suitability is given below -

Location Criteria	Site at Kanchanpuri, Haldukhatta Malankham, Kotdwar 29°45'23.79"N / 78°26'14.14"E	SIDCUL Site, Kotdwar 29°47'33.42"N / 78°24'11.81"E	Site near Khoh river 29°41'33.29"N / 78°31'20.43"E
Land Availability and accessibility	At present land area of 0.998 Ha is transferred by Forest Department. Site is flat and easily accessible from Haridwar Road through existing kuchha road [approx. 20 feet wide].	Approx. 2 Ha land is available. Site is undulating and not accessible at present by vehicular road.	Only 0.5 Ha land is available. Site is flat and accessible.
Lake or Pond: No landfill should be constructed within 200 m of any lake or pond. Because of concerns regarding runoff of waste water contact, a surface water monitoring program should be established if a landfill is sited less than 200 m from a lake or pond.	No lake or pond within 200 m radius of the site	No lake or pond within 200 m radius of the site	No lake or pond within 200 m radius of the site

<p>River: No landfill should be constructed within 100 m of a navigable river or stream. The distance may be reduced in some instances for non-meandering rivers but a minimum of 30 m should be maintained in all cases</p>	<p>No river within 100 m radius. Malin river flows at a distance of 480m on East.</p>	<p>No river within 100 m radius. A seasonal stream is located at a distance of 140m on North.</p>	<p>Khoh river is approx. 10m away from the site on west.</p>
<p>Flood Plain: No landfill should be constructed within a 100 year flood plain. A landfill may be built within the flood plains of secondary streams if an embankment is built along the stream side to avoid flooding of the area. However, landfills must not be built within the flood plains of major rivers unless properly designed protection embankments are constructed around the landfills</p>	<p>The project site is not located in any flood plain.</p>	<p>The project site is located near the bent of the stream.</p>	<p>The site is adjacent to Khoh river and in the flood plain.</p>
<p>Highway: No landfill should be constructed within 200 m of the right of way of any state or national highway. This restriction is mainly for aesthetic reasons. A landfill may be built within the restricted distance, but no closure than 50 m, if trees and berms are used to screen the landfill site</p>	<p>No national or state highway within 200 m of the site. NH-119 passes at a distance 8.1 km on SE</p>	<p>No national or state highway within 200 m of the site. NH-119 passes at a distance 11.5 km on SE</p>	<p>No national or state highway within 200 m of the site. NH-119 passes at a distance 4.6 km on NW</p>

<p>Habitation: A landfill site should be at least 500 m from a notified habitation area. A zone of 500 m around a landfill boundary should be declared a No-Development Buffer Zone after the landfill location is finalized.</p>	<p>Nearby habitation is located at a distance of 150 m on north east of proposed site.</p>	<p>The site is located in SIDCUL Industrial Area. Nearby residential habitation is located at a distance of approx. 350 m on South.</p>	<ul style="list-style-type: none"> • Forest Range Headquarter - at a distance of 150 m on north east • Kotdidhang Post Office - at a distance of 320m on north. • Lalit Rawat Business School – at a distance of 260m on NE
<p>Public Parks: No landfill should be constructed within 300 m of a public park. A landfill may be constructed within the restricted distance if some kind of screening is used with a fence around the landfill and a secured gate.</p>	<p>No public park within 300m.</p>	<p>No public park within 300m.</p>	<p>Saneh Park is at a distance of 50m on south</p>
<p>Critical Habitat Area: No landfill should be constructed within critical habitat areas. A critical habitat area is defined as the area in which one or more endangered species live. It is sometimes difficult to define a critical habitat area. If there is any doubt then the regulatory agency should be contacted</p>	<p>Not a critical habitat area.</p>	<p>Not a critical habitat area.</p>	<p>Not a critical habitat area.</p>

<p>Wetland: No landfill should be constructed within wetlands. It is often difficult to define a wetland area. Maps may be available for some wetlands, but in many cases such maps are absent or are incorrect. If there is any doubt, then the regulatory agency should be contacted</p>	<p>Not a wetland.</p>	<p>Not a wetland.</p>	<p>Not a wetland.</p>
<p>Ground Water Table: A landfill should not be constructed in areas where water table is less than 2 m below ground surface. Special design measures be adopted, if this cannot be adhered to.</p>	<p>Ground water table is approx. 5-10 m below ground level in post-monsoon period.</p>	<p>Ground water table is approx. 5-10 m below ground level in post-monsoon period.</p>	<p>Ground water table is approx. 3-5 m below ground level in post-monsoon period.</p>
<p>Airports: No landfill should be constructed within the limits prescribed by regulatory agencies (MoEF/CPCB/Aviation Authorities) from time to time</p>	<p>Jolly Grant International Airport, Dehradun is located at around 53 km on NW.</p>	<p>Jolly Grant International Airport, Dehradun is located at around 48 km on NW.</p>	<p>Jolly Grant International Airport, Dehradun is located at around 64 km on NW.</p>
<p>Water Supply Well: No landfill should be constructed within 500 m of any water supply well. It is strongly suggested that this locational restriction be abided by at least for down gradient wells. Permission from regulatory agency may be needed if a landfill is to be sited within the restricted area</p>	<p>No centralized water supply well exists around the project site.</p>	<p>No centralized water supply well exists around the project site.</p>	<p>No centralized water supply well exists around the project site.</p>

Coastal Regulation Zone: A landfill should not be sited in a coastal regulation zone.	Site not located in a coastal regulation zone	Site not located in a coastal regulation zone	Site not located in a coastal regulation zone
Unstable Zone: A landfill should not be located in potentially unstable zones such as landslide prone areas, fault zone etc.	The area is not a potentially unstable zone.	The area is not a potentially unstable zone.	The area is not a potentially unstable zone in terms of landslide.

4.2 Connectivity

Kotdwar is a gateway city to the Garhwal and is one of the main entrance points in the state of Uttarakhand. Jolly Grant International Airport, Dehradun is located at around 53 km [aerial distance] on NW. Kotdwar Railway Station is located at a distance of 8 km on East.

By road Kotdwar is 216 km North of Delhi, 120 km South of Dehradun, 208 km West of Nainital, 99 km East of Roorkee. Kotdwar is well connected with roads to major destination of Uttarakhand state. Buses to Kotdwar from Delhi are easily available. Kotdwar is well connected with National Highway 119.

4.3 Land Form, Land Use and Land Ownership.

Proposed project site at Kanchanpuri, Haldukhatta, Malankham, Kotdwar is a forest land [0.998 Ha] and already transferred by the Lansdowne Forest Division to Kotdwar Nagar Nigam. The land has been approved by the MOEF Regional Office Dehradun for the proposed project. Landuse conversion has been already obtained for the purpose of setting up of proposed SWM facility.

4.4 Topography (along with Map)

The proposed site falls in the survey of India toposheet No. 53K/5. The land is almost flat with little undulation. Average elevation of the site is 378 m above sea level. Due to proposed project, there will be topographical changes due to the excavations, construction activities pertaining to the project.

4.5 Existing Land Use Pattern (Agriculture, On-Agriculture, Forest, Water Bodies (including area under CRZ), Shortest distances from the Periphery of the Project to the Periphery of the Forests, National Park, Wild Life Sanctuary, Eco Sensitive Areas, Water Bodies (distance from the HFL of the River), CRZ, in case of Notified Industrial Area, a copy of the Gazette Notification should be given.

The land area of 0.998 Ha is already handed over to Kotdwar Nagar Nigam and landuse conversion has been already obtained. This is an unused forest land where no activity like agriculture, forestry is not being done.

List of the Reserve Forests present in Buffer Zone -

- Giwain RF -9.1 Km, NE
- Sukhrao RF - 7.9 Km, NE
- Sattikhal RF - 8.7 Km, NE
- Gwalgarh RF - 8.5 Km, NE
- Laldhang RF - 5.4 Km, NW
- Kotdwara RF -3.6 Km, N
- Kotawali RF - 20 m, SW
- Girdawa Sahanpur RF - 6.1 Km, SW
- Kauriya RF - 2.0 Km, SE
- Mohanwali RF - 8.6 Km, S
- North Kothari RF - 9.6 Km, SE
- South Kothari RF - 9.7 Km, SE
- Paniyal RF - 7.7 Km, NE
- Sukharao Kham RF - 5.2 Km, NE
- Malinkham RF - 1.6 Km, NE

List of the Protected Forests present in Buffer Zone - No such area is located within the 15 km radius of the proposed project area.

National Park/Wild life Sanctuary - Rajaji National Park is located at an approximate aerial distance of 12.3 km on NW.

List of the Water bodies/stream present in Buffer Zone -

- Malin Nadi - 480 M, E

- Sukh Rao Nadi - 4.8 km, E
- Khoh Nadi - 9.8 Km, SE

4.6 Existing Infrastructure

The site is approached from Haridwar Road through existing kuchha road [approx. 20 feet wide]. The kuchha road of approx. length 250m will be strengthened by the Nagar Nigam.

The proposed site does not have any existing infrastructure. All facilities will be developed by the Nagar Nigam.

4.7 Climatic Data from Secondary Sources

The climate of Kotdwar is generally temperate, although it varies from tropical; from hot in summers to severely cold, depending upon the season and the altitude of the specific location. The nearby hilly regions often get snowfall during winter but the temperature in Kotdwar is not known to fall below freezing. Summer temperatures can often reach 43°C whereas winter temperatures are usually between 4 and 20°C. During the monsoon season, there is often heavy and prolonged rainfall. The weather is considered to be good during winter in the hilly regions.

Kotdwar on an average receives 94 days of rainfall in a year. Generally, the months of July and August receives the highest amount of rainfall. These two months also records the maximum number of rainy days. As per the table below Kotdwar generally receives about 1459 mm of rainfall in a year.

4.8 Social Infrastructure Available

Kotdwar is gateway to hills of Pauri Garhwal region in Uttarakhand. The Kotdwar town is divided into 42 wards.

Kotdwar has two major industrial areas, SIDCUL and BEL. Among the industries, the most prominent ones are Simpex Pharma, Reliance Medi Pharma, Polestar polymers, Sidhballi steels, Del Monte, Indica Chemicals, etc.

Kotdwar has number of schools, educational institutes, colleges and university. Healthcare in the Kotdwar is provided by private and public facilities. Some near to the proposed site are as follows –

- Government Hospital - 2.6 Km N
- Dr. Arun Rawat Hospital, Devi Rd-1.9 Km NE
- Hospital Jhandichaur -3.4 Km, NW
- Government Polytechnic Kotdwar - 500 M, N
- Navyug Public School - 2 Km, NE
- Bal Bharti School - 1.7 Km, NE
- Government Girls College - 3.2 Km, E
- Kanwashram Temple - 4.5 Km, NE
- Durga and shiv mandir -1 KM, N
- Shri Siddhbali Dham, Kotdwar - 9.8 Km, NE
- Garhwal Cinema - 7.8 Km, E

CHAPTER – 05 PLANNING BRIEF

5.1 Planning Concept (Type of Industries, Facilities, Transportation etc.) Town and Country Planning/Development Authority Classification.

Kotdwar is a Nagar Nigam and as per Census 2011, the population of Kotdwar is around 175,232 with 32,600 households and approx. 3000 daily floating population. Kotdwar Nagar Nigam has 42 wards.

5.2 Population Projection and Solid Waste Generation

To analyze future projection of population and major concentration of population, ward wise data and decadal data were taken. The population projection carried out based on following methods -

- Arithmetic increase
- Incremental increase method
- Geometric increase

In case of Kotdwar, Arithmetic projection was preferred method due to its old town and saturated population and the same was adapted for the design purpose. The average state growth rate (19.17%) is adopted for the population projection and the design purpose. The population growth in Kotdwar MC has been 32.4 percent during the last decade (2001-2011), which is much more than the population growth of the district (-1.41 percent) and the State (18.81 percent). Due to the merger of low-density Panchayats, the population density of the city has been decreased.

Population Projection and Waste Generation in Kotdwar

Horizon Year	Arithmetic increase method	Difference in population 2011	Net Arithmetic Increase	Floating population	Per Capita, gm/day	Daily waste generation	Annual waste Generation
2011	33035	102565	135600	20340	300	41.3	15070.9
2012	33981	103511	137492	20624	300	41.9	15324.0
2013	34927	104457	139385	20908	300	42.4	15534.9
2014	35874	105404	141277	21192	300	43.0	15745.8
2015	36820	106350	143170	21475	300	43.6	15956.7
2016	37766	107296	145062	21759	300	44.2	16211.8
2017	38712	108242	146955	22043	304	45.4	16609.5
2018	39659	109189	148847	22327	308	46.6	17058.9

2019	40605	110135	150740	22611	313	47.9	17517.7
2020	41551	111081	152632	22895	317	49.1	18035.1
2021	42497	112027	154525	23179	322	50.4	18463.9
2022	43444	112974	156417	23463	326	51.8	18951.6
2023	44390	113920	158310	23746	331	53.1	19449.5
2024	45336	114866	160202	24030	335	54.5	20012.1
2025	46282	115812	162095	24314	340	55.9	20476.0
2026	47228	116759	163987	24598	345	57.4	21005.1
2027	48175	117705	165879	24882	350	58.9	21544.9
2028	49121	118651	167772	25166	355	60.4	22156.2
2029	50067	119597	169664	25450	359	61.9	22657.9
2030	51013	120543	171557	25734	364	63.5	23231.3
2031	51960	121490	173449	26017	370	65.1	23816.4
2032	52906	122436	175342	26301	375	66.7	24480.1
2033	53852	123382	177234	26585	380	68.4	25022.3
2034	54798	124328	179127	26869	385	70.1	25643.6
2035	55745	125275	181019	27153	391	71.8	26277.3
2036	56691	126221	182912	27437	396	73.6	26997.3
2037	57637	127167	184804	27721	402	75.4	27583.1
2038	58583	128113	186697	28004	407	77.2	28255.7
2039	59530	129060	188589	28288	413	79.1	28941.7
2040	60476	130006	190482	28572	419	81.0	29722.4
2041	61422	130952	192374	28856	425	82.9	30355.0

5.4 Land Use Planning

Total land transferred for the proposed waste management and disposal facility is 0.998 Ha. This land is sufficient for setting up of the proposed project with Compost Plant for a design period of 20 years and Landfill now planned for a design period of 5 years. In future, additional land will be acquired to increase the landfill for additional design period of 15 years.

5.5 Assessment of Infrastructure Demand (Physical & Social)

- Project site is an undeveloped vacant forest land transferred to Kotdwar Nagar Nigam by the Lansdowne Forest Division. The land has been approved by Govt. of Uttarakhand for the proposed project. Conversion of the landuse has been obtained.
- The approach stretch of approx. 250 m kuchha road joining Haridwar Road will be strengthened.
- Fresh water will be sourced through onsite abstraction of ground water using tube-well. Necessary permission if applicable, will be obtained from the concerned authority.

- Power will be sourced from Grid supply. DG set will be installed for emergency backup during power cut.

There is no other major infrastructural requirement for the project.

5.5 Amenities / Facilities

The necessary arrangement for proposed project for meeting water supply for drinking purposes, toilet facilities for workers, parking facilities will be provided. The leachate collection pit will be constructed. Sewage will be treated through septic tank and soak pit.

CHAPTER – 06 REHABILITATION AND RESETTLEMENT (R & R) PLAN

6.1 Policy to Be Adopted for R & R Plan With Respect To Project- Not Required

There is no displacement of any houses, habitation or livestock. Thus, the project does not require any R & R plan. Approval obtained from the DM office has been obtained in this regard.


(प्रपत्र सं०-23.3)

परियोजना का नाम- मा० मुख्यमंत्री घोषणा संख्या-586/2015 के अन्तर्गत जैविक व अजैविक कूड़े के निस्तारण हेतु ट्रेनिंग ग्राउण्ड(FP/UK/others/15440/2015) के सम्बन्ध में।

जिलाधिकारी द्वारा प्रदत्त प्रमाण-पत्र

जनपद- पीड़ी गढ़वाल के अन्तर्गत वन भूमि पर प्रस्तावित मा० मुख्यमंत्री घोषणा संख्या-586/2015 के अन्तर्गत जैविक व अजैविक कूड़े के निस्तारण हेतु ट्रेनिंग ग्राउण्ड (FP/UK/others/15440/2015) परियोजना के निर्माण हेतु 0.998 हे० वन भूमि प्रयोक्ता एजेन्सी को प्रत्यावर्तित किये जाने हेतु उपजिलाधिकारी/अध्यक्ष उपखण्ड स्तरीय वन अधिकार समिति कोटद्वार तथा सम्बन्धित ग्राम समाजों द्वारा प्रदत्त अनापत्ति प्रमाण-पत्र निर्गत किये गये हैं। वन अधिकार अधिनियम 2008 के तहत व संलग्न प्रमाण-पत्रों के अनुसार परियोजना के निर्माण में किसी अनुसूचित जनजाति व वनवासी की भूमि अधिग्रहित नहीं हो रही है व न ही किसी जनजाति/वनवासी के वनों पर अधिकार प्रभावित हो रहे हैं। परियोजना के निर्माण से प्रभावित होने वाली वन भूमि में कोई भी दावा लम्बित नहीं है।

ह० -
जिलाधिकारी


जिलाधिकारी
गढ़वाल

नोट-उक्त प्रपत्र उप जिलाधिकारी की अध्यक्षता में गठित समिति द्वारा प्राप्त कर प्रयोक्ता एजेन्सी को उपलब्ध कराया जायेगा।

सड़क निर्माण, नहर निर्माण, पारिषण लाईन, ओ०एफ०सी० केबिल, पाईपलाईन विद्युत आदि प्रयोजनों को भारत सरकार द्वारा वन अधिकार अधिनियम 2008 के प्राविधानों से मुक्त कर दिया गया है। उक्त प्रकरणों में प्रमाण-पत्र सं० 23, 23.1, 23.2 व 23.3 प्रस्ताव के साथ संलग्न नहीं किये जाने है। उक्त प्रयोजनों हेतु तैयार किये गये वन भूमि हस्तान्तरण प्रस्तावों के साथ जिलाधिकारी द्वारा प्रमाण-पत्र सं० 23.4 संलग्न किया जायेगा।

CHAPTER: 7 PROJECT SCHEDULE AND COST ESTIMATE

7.1 Likely Date of Start of Construction and Likely Date of Completion

The Nagar Nigam will take necessary approvals from the concerned authority and start the construction after obtaining Environmental Clearance. The Nagar Nigam has proposed to execute the project through Public private partnership (PPP) based on DBOOT approach.

7.1 Project Cost

The overall estimated project cost for collection, transportation, processing and disposal of wastes at Kotdwar is INR -1521.6 lakh

CHAPTER – 09 ANALYSIS OF PROPOSAL

The solid waste management facility is planned for offering better living conditions and disease free environment to the society. The project will enhance cleanliness and aesthetics

of the area. It involves door to door collection of waste, transportation, processing, baling of dry wastes and disposal of inert wastes into the sanitary landfill.

- With the proposed infrastructures, Kotdwar ULB will have a full-fledged solid waste processing and disposal site which will improve the solid waste management of Kotdwar ULB.
- ULBs shall increase the awareness on waste segregation and its implications if the segregation is not carried out. This will improve awareness and civic sense in people resulting in improvement in quality of life.
- This project will not only provide better disposal of waste but also value addition products like bio-compost, segregated recyclable wastes will be obtained.
- In addition to above, a thick green belt has been proposed to be developed all along the project boundary. This will not only attenuate the pollution and odour emissions from plant but also will add to beauty of the area and will influence the microclimate of the area.
- The project will also have a positive impact in terms of health and socioeconomic development.

Financial Benefits

As suggested by the DPR consultant, the ULB can arrange the operation and maintenance expenditure by levying user charges on households and commercial establishments as the system improves. Also, revenue will be generated from sale of compost, recyclable materials etc. In view of the above, the proposed project seems to be technically and financially viable.

SUMMARY

Swachh Bharat Mission Urban came into effect from October 2014 and all ULBs are mandated to make detailed project report to implement the same. In this regard Nagar Nigam Kotdwar under guidance of Urban Development Directorate, Uttarakhand has planned to improve the existing solid waste collection system and develop common solid waste management and disposal facility at Kotdwar.

Kotdwar is a city, a municipal corporation and a tehsil in the Pauri Garhwal district of Uttarakhand, India. It is just 101 km from Pauri town, the district headquarters. It is the eighth largest city in Uttarakhand.

Proposed Solid Waste Management System -

The project consists of:

- Segregation and storage
- Primary Storage & Collection System
- Secondary Storage, Collection & Transportation System
- Integrated Solid Waste Management Facility at Kanchan Puri, Kotdwar.

The present system will be upgraded to ensure safe collection of waste from sources to the extent possible, transportation of the same either directly or to the secondary storage and subsequent transportation from there for treatment and final disposal of rejects and inert wastes. The system is designed to manage 100 percent of the waste reaching the Municipal stream- daily removal of organic matter to treatment plant for processing and need based removal of inorganic and inert to landfill site and disposal by sanitary methods.

The management plan is designed for handling 80 tons of waste for design year 2039 generated in the Kotdwar ULB and considers that all waste is handled at the local level through centralized model.

A land of area 0.998 Ha has been selected for the SWM project at Kanchan Puri, Haldukhatta Malankham, Kotdwar. The land has been transferred to Kotdwar Nagar

Nigam by Lansdowne Forest Division. The common facility will have following components –

- Compost Plant – 43.2 ~ 43 TPD [Planned for a design period of 20 years]
- Landfill capacity – 11,800 MT. As per present availability of land, now planned for a design period of 5 years. In future, additional land will be acquired to increase the landfill for additional design period of 15 years.

Salient Features of the Project

1	Name of the Applicant	Nagar Nigam Kotdwar
2	Proposed Project	Solid Waste Management & Disposal Facility at Kotdwar, Dist.-Pauri Garhwal, Uttarakhand
3	Proposed Sector	7(i), Common Municipal Solid Waste Management Facility
4	Address for Correspondence/ Telephone number	Nagar Nigam Kotdwar Badrinath Marg, Kotdwar, Uttarakhand - 246 149 Ph # 01382 222028
5	Name	Mr. Kisan Singh Negi
	Designation (Owner/Partner/CEO)	Municipal Commissioner
	Proposed land area	0.998 Ha
	Project Site Co-ordinates	Geographical Co-ordinates: Geographical Co-ordinates: A1 - 29°45'23.79"N / 78°26'14.14"E A2 - 29°45'21.73"N / 78°26'17.05"E A3 - 29°45'24.25"N / 78°26'19.35"E A4 - 29°45'26.31"N / 78°26'16.47"E
	Proposed Capacity	Compost Plant – 43.2 ~ 43 TPD [Planned for a design period of 20 years] Landfill capacity – 11,800 MT [As per present availability of land, now planned for a design period of 5 years]. In future, additional land will be acquired to increase the landfill for additional design period of 15 years

Summary Report of Solid Waste Management & Disposal Facility, Nagar Nigam Kotdwar, District-Pauri Garhwal, Uttarakhand

Components of the proposed facility	The project involves – <ul style="list-style-type: none">• processing of organic part of municipal solid waste and production of organic manure through Compost plant.• Landfill for inert wastes
Manpower requirement	Manpower requirement for the proposed processing and disposal facility is 25.
Total Water Requirement/ Source	11 KLD Fresh water. Source: Onsite groundwater abstraction
Cost of proposed Project	INR 1521.6 lakh

Alternate Site Analysis Report – Kotdwar MSW Project, Uttarakhand

Introduction:

The selection of landfill site is carried out based upon various selection criteria; such as location from nearby water bodies, airports, geological conditions, tourist consideration, nearby habitation, connectivity with roads, public parks, location in steep slopes, historical and cultural values, critical habitats (e.g. national parks, wild life sanctuaries etc.).

One of the major constraints in identifying sanitary landfill site; is its availability in near vicinity of project city as otherwise proposing a site far away from the city would increase the operation and maintenance cost for the improved MSW management system. Considering this, Nagar Nigam Kotdwar has identified 3 alternative sites including the proposed site at Kanchanpuri. The selection of site has been made based upon the site selection criteria as given below:

Site Selection Criteria:

A landfill site is generally being selected considering the following factors (As per the MSW manual 2000, refer page no. 330):

- **Lake or Pond:** No landfill should be constructed within 200 m of any lake or pond. Because of concerns regarding runoff of waste water contact, a surface water monitoring program should be established if a landfill is sited less than 200m from a lake or pond.
- **River:** No landfill should be constructed within 100 m of a navigable river or stream. The distance may be reduced in some instances for nonmeandering rivers but a minimum of 30 m should be maintained in all cases.
- **Flood Plain:** No landfill should be constructed within a 100 year flood plain. A landfill may be built within the flood plains of secondary streams if an embankment is built along the stream side to avoid flooding of the area. However, landfills must not be built within the flood plains of major rivers unless properly designed protection embankments are constructed around the landfills.
- **Highway:** No landfill should be constructed within 200 m of the right of way of any state or national highway. This restriction is mainly for aesthetic reasons. A landfill may be built within the restricted distance, but no closer than 50 m, if trees and berms are used to screen the landfill site.
- **Habitation:** A landfill site should be at least 500 m from a notified habitated area. A zone of 500 m around a landfill boundary should be declared a No-Development Buffer Zone after the landfill location is finalised.
- **Public parks:** No landfill should be constructed within 300 m of a public park.
- **Critical Habitat Area:** No landfill should be constructed within critical habitat areas. A critical habitat area is defined as the area in which one or more endangered species live.
- **Wetlands:** No landfill should be constructed within wetlands.

- **Ground Water Table:** A landfill should not be constructed in areas where water table is less than 2m below ground surface. Special design measures be adopted, if this cannot be adhered to.
- **Airports:** No landfill should be constructed within the limits prescribed by regulatory agencies (MOEF/ CPCB/ Aviation Authorities) from time to time.
- **Water Supply Well:** No landfill should be constructed within 500 m of any water supply well. It is strongly suggested that this locational restriction be abided by at least for down gradient wells. Permission from the regulatory agency may be needed if a landfill is to be sited within the restricted area.
- **Coastal Regulation Zone:** A landfill should not be sited in a coastal regulation zone.
- **Unstable Zone:** A landfill should not be located in potentially unstable zones such as landslide prone areas, fault zone etc.
- **Buffer Zone:** A landfill should have a buffer zone around it, up to a distance prescribed by regulatory agencies.
- Other criteria may be decided by the planners.

Based upon the mentioned criteria an alternative analysis has been made for 3 sites as below -

Location Criteria	Site at Kanchanpuri, Haldukhatta Malankham, Kotdwar 29°45'23.79"N / 78°26'14.14"E	SIDCUL Site, Kotdwar 29°47'33.42"N / 78°24'11.81"E	Site near Khoh river 29°41'33.29"N / 78°31'20.43"E
Land Availability and accessibility	At present land area of 0.998 Ha is transferred by Forest Department. Site is flat and easily accessible from Haridwar Road through existing kuchha road [approx. 20 feet wide].	Approx. 2 Ha land is available. Site is undulating and not accessible at present by vehicular road.	Only 0.5 Ha land is available. Site is flat and accessible.
Lake or Pond: No landfill should be constructed within 200 m of any lake or pond. Because of concerns regarding runoff of waste water contact, a surface water monitoring program should be established if a landfill is sited less than 200 m from a lake or pond.	No lake or pond within 200 m radius of the site	No lake or pond within 200 m radius of the site	No lake or pond within 200 m radius of the site
River: No landfill should be constructed within 100 m of a navigable river or stream. The distance may be reduced in some instances for non-meandering rivers but a minimum of 30 m should be maintained in all cases	No river within 100 m radius. Malin river flows at a distance of 480m on East.	No river within 100 m radius. A seasonal stream is located at a distance of 140m on North.	Khoh river is approx. 10m away from the site on west.

<p>Flood Plain: No landfill should be constructed within a 100 year flood plain. A landfill may be built within the flood plains of secondary streams if an embankment is built along the stream side to avoid flooding of the area. However, landfills must not be built within the flood plains of major rivers unless properly designed protection embankments are constructed around the landfills</p>	<p>The project site is not located in any flood plain.</p>	<p>The project site is not located in any flood plain.</p>	<p>The site is adjacent to Khoh river.</p>
<p>Highway: No landfill should be constructed within 200 m of the right of way of any state or national highway. This restriction is mainly for aesthetic reasons. A landfill may be built within the restricted distance, but no closure than 50 m, if trees and berms are used to screen the landfill site</p>	<p>No national or state highway within 200 m of the site. NH-119 passes at a distance 8.1 km on SE</p>	<p>No national or state highway within 200 m of the site. NH-119 passes at a distance 11.5 km on SE</p>	<p>No national or state highway within 200 m of the site. NH-119 passes at a distance 4.6 km on NW</p>
<p>Habitation: A landfill site should be at least 500 m from a notified habitation area. A zone of 500 m around a landfill boundary should be declared a No-Development</p>	<p>Nearby habitation is located at a distance of 150 m on north east of proposed site.</p>	<p>The site is located in SIDCUL Industrial Area. Nearby residential habitation is located at a distance of approx. 350 m on</p>	<ul style="list-style-type: none"> • Forest Range Headquarter - at a distance of 150 m on north east • Kotdidhang Post Office - at a

<p>Buffer Zone after the landfill location is finalized.</p>		<p>South.</p>	<p>distance of 320m on north.</p> <ul style="list-style-type: none"> • Lalit Rawat Business School – at a distance of 260m on NE
<p>Public Parks: No landfill should be constructed within 300 m of a public park. A landfill may be constructed within the restricted distance if some kind of screening is used with a fence around the landfill and a secured gate.</p>	<p>No public park within 300m.</p>	<p>No public park within 300m.</p>	<p>SANEH Childrens’ Park is at a distance of 50m on south</p>
<p>Critical Habitat Area: No landfill should be constructed within critical habitat areas. A critical habitat area is defined as the area in which one or more endangered species live. It is sometimes difficult to define a critical habitat area. If there is any doubt then the regulatory agency should be contacted</p>	<p>Not a critical habitat area.</p>	<p>Not a critical habitat area.</p>	<p>Not a critical habitat area.</p>
<p>Wetland: No landfill should be constructed within wetlands. It is often difficult to define a wetland area. Maps may be available for some wetlands, but in many cases such maps</p>	<p>Not a wetland.</p>	<p>Not a wetland.</p>	<p>Not a wetland.</p>

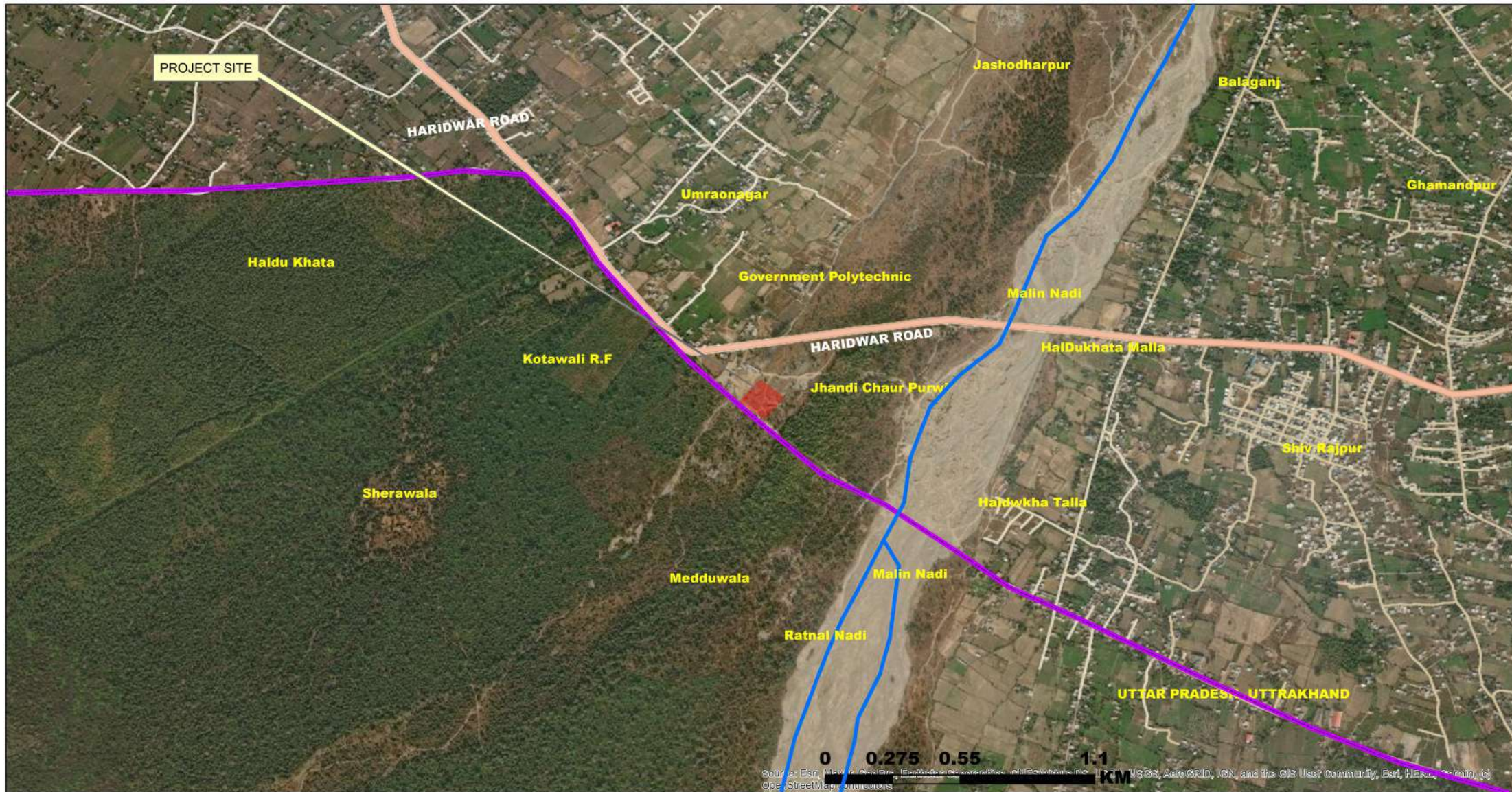
are absent or are incorrect. If there is any doubt, then the regulatory agency should be contacted			
Ground Water Table: A landfill should not be constructed in areas where water table is less than 2 m below ground surface. Special design measures be adopted, if this cannot be adhered to.	Ground water table is approx. 5-10 m below ground level in post-monsoon period.	Ground water table is approx. 5-10 m below ground level in post-monsoon period.	Ground water table is approx. 3-5 m below ground level in post-monsoon period.
Airports: No landfill should be constructed within the limits prescribed by regulatory agencies (MoEF/CPCB/Aviation Authorities) from time to time	Jolly Grant International Airport, Dehradun is located at around 53 km on NW.	Jolly Grant International Airport, Dehradun is located at around 48 km on NW.	Jolly Grant International Airport, Dehradun is located at around 64 km on NW.
Water Supply Well: No landfill should be constructed within 500 m of any water supply well. It is strongly suggested that this locational restriction be abided by at least for down gradient wells. Permission from regulatory agency may be needed if a landfill is to be sited within the restricted area	No centralized water supply well exists around the project site.	No centralized water supply well exists around the project site.	No centralized water supply well exists around the project site.
Coastal Regulation Zone: A landfill should not be sited in a coastal regulation zone.	Site not located in a coastal regulation zone	Site not located in a coastal regulation zone	Site not located in a coastal regulation zone





Unstable Zone: A landfill should not be located in potentially unstable zones such as landslide prone areas, fault zone etc.	The area is not a potentially unstable zone.	The area is not a potentially unstable zone.	The area is not a potentially unstable zone.
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The reason behind selecting the **Site at Kanchanpuri, Haldukhatta Malankham, Kotdwar** as against other alternative sites are given below:

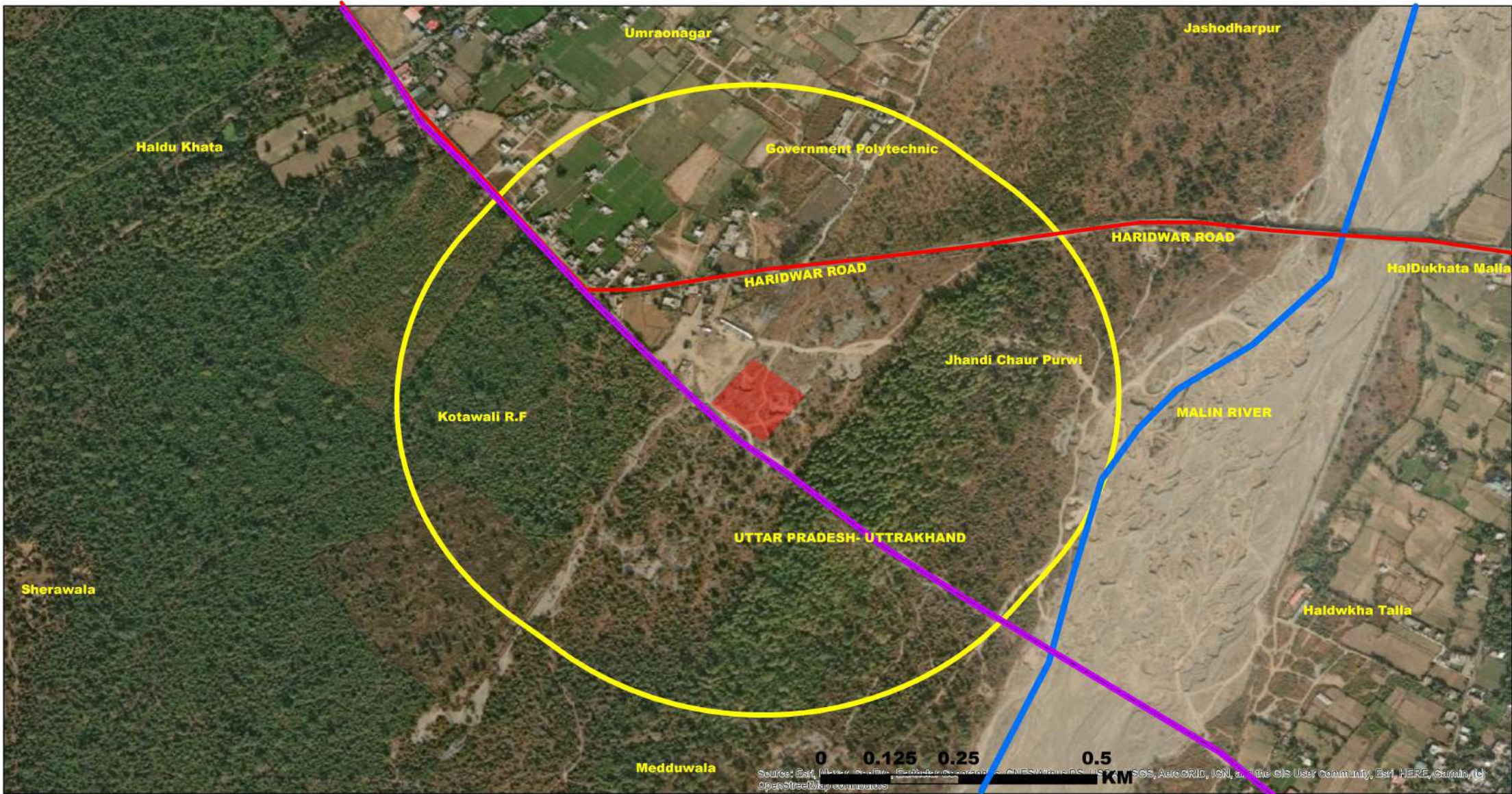
- River located at a safe distance of 480 m from the Kanchanpuri site;
- No public park is located nearby;
- Proximity and availability of access road from Haridwar road;
- No vehicular access road available at present for SIDCUL site;
- Site near Khoh River is located very near to the river and in the flood plain.
- Kanchanpuri site has been already transferred by the Forest Dept. to the Nagar Nigam and duly approved by the Govt. of Uttarakhand and MoEF&CC, Dehradun RO.

PROJECT LOCATION MAP ON GOOGLE EARTH IMAGINARY



Project site Co-ordinate	29°45'23.92"N, 78°26'16.54"E
	Project site
	MAJOR ROAD
	Ratnal River & Malin River
	U.P- Uttar Khand Border

500 METER BUFFER MAP ON GOOGLE EARTH IMAGINARY



10 KM BUFFER MAP OF PROJECT SITE ON GEOREFRENCED TOPOSHEET

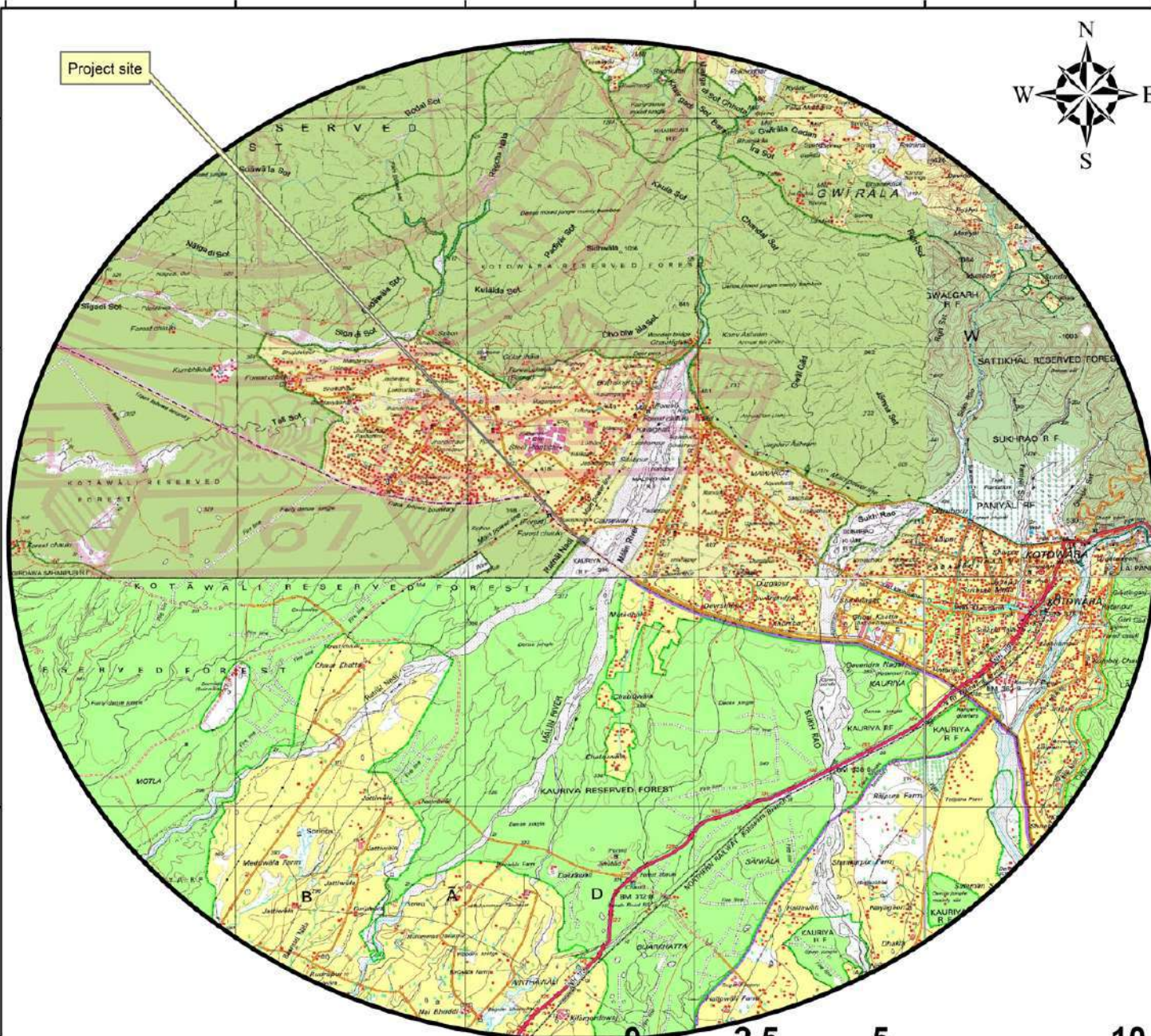
78°20'0"E 78°22'30"E 78°25'0"E 78°27'30"E 78°30'0"E 78°32'30"E

29°50'0"N

29°47'30"N

29°45'0"N

29°42'30"N



Coordinate System: GCS WGS 1984
Datum: WGS 1984 Units: Degree

78°20'0"E 78°22'30"E 78°25'0"E 78°27'30"E 78°30'0"E 78°32'30"E

LEGEND

Project site 10 KM

TOPOSHEET INDEX

53K/5	53K/9
53K/6	53K/10

भारतीय सर्वेक्षण विभाग

SURVEY OF INDIA

1st Edition 2009.

CONVENTIONAL SYMBOLS

- Express highway: with toll, with bridge, with distance stone
- Roads, metalled: according to importance
- Roads, double carriageway: according to importance
- Unmetalled road: Cart-track: Pack-track with pass: Foot-path
- Streams: with track in bed; undefined: Canal
- Dams: masonry or rock-filled: earthwork: Weir
- River: dry with water channel: with island & rocks: Tidal river
- Submerged rocks: Shoal: Swamp: Reeds
- Wells: lined: unlined: Tube-well: Spring: Tanks: perennial: dry
- Embankments: road or rail: Broken ground
- Railways: broad gauge: double: single with station: under constn
- Railways: other gauges: double: single with distance stone: do
- Mineral line or tramway: Kln: Cutting with tunnel
- Contours with sub-features: Rocky slopes: Cliffs
- Sand features: (1) flat: (2) sand-hills (permanent): (3) dunes (shifting)
- Towns or Villages: inhabited: deserted: Fort
- Mts: permanent: temporary: Tower: Antiquities
- Temple: Chattri: Church: Mosque: Idgah: Tarab: Graves
- Lighthouse: Lighthouse: Buoys: lighted: unlighted: Anchorage
- Mine: Vine on trellis: Grass: Scrub
- Palms: palmyra, other: Plantain: Conifer: Bamboo: Other trees
- Areas: cultivated: wooded: Surveyed tree
- Boundary, international
- state: demarcated: undemarcated
- district: subdivision: tahsil or taluk: forest
- Boundary pillars: surveyed: unlocated
- Heights: triangulated: station: point: approximate
- Bench-mark: geodetic: tertiary: canal
- Post office: Telegraph office: Overhead tank
- Rest house or inspection bungalow: Circuit house: Police station
- Camping ground: Forest: reserved: protected
- Spacod names: administrative: locality or tribal
- Hospital: Dispensary: Veterinary hospital
- Aerodrome: Heliport: Tourist site
- Power line: with pylons surveyed: with poles unsurveyed

भारत सरकार
पर्यावरण, वन एवं जलवायु परिवर्तन
मंत्रालय
एकीकृत क्षेत्रीय कार्यालय, देहरादून
25 सुभाष रोड, देहरादून-248001
दूरभाष: 0135-2650009
फैक्स-0135-2653010
ईमेल- moef.ddn@gov.in



GOVERNMENT OF INDIA
MINISTRY OF ENVIRONMENT, FOREST &
CLIMATE CHANGE
INTEGRATED REGIONAL OFFICE,
DEHRADUN
25 SUBASH ROAD, DEHRADUN-248001
PHONE- 0135-2650809
FAX- 0135-2653010
Email- moef.ddn@gov.in

पत्र सं० 8बी/यू0सी0पी0/09/100/2020/एफ.सी।/1116

दिनांक: 01/12/2021

सेवा में,

अपर मुख्य सचिव (वन),
उत्तराखण्ड शासन,
सुभाष रोड, देहरादून।

विषय : जनपद-पौड़ी गढ़वाल में मा० मुख्यमंत्री घोषणा संख्या-558/2015 कोटद्वार नगर क्षेत्र में कूड़ा निस्तारण हेतु 0.998 हे० वन भूमि का गैर वानिकी कार्यों हेतु नगर पालिका परिषद् कोटद्वार को प्रत्यावर्तन। (ऑनलाईन प्रस्ताव सं० FP/UK/Others/15440/2015)

संदर्भ: अपर प्रमुख वन संरक्षक एवं नोडल अधिकारी, उत्तराखण्ड शासन के पत्रांक 1311/FP/UK/others/15440/2020 दिनांक 27.11.2021

महोदय,

उपरोक्त विषय पर अपर सचिव, उत्तराखण्ड शासन के पत्र दिनांक 08.12.2020 का आशय ग्रहण करने का कष्ट करें, जिसके द्वारा विपयंकित प्रस्ताव पर केन्द्र सरकार से वन (संरक्षण) अधिनियम, 1980 की धारा-2 के तहत स्वीकृति मांगी थी।

प्रश्नगत प्रकरण में इस कार्यालय के समसंख्यक पत्र दिनांक-31.03.2021 द्वारा प्रस्ताव में सैद्धान्तिक स्वीकृति प्रदान की गयी थी जिसमें उल्लिखित शर्तों की अनुपालन आख्या अपर प्रमुख वन संरक्षक एवं नोडल अधिकारी, उत्तराखण्ड शासन के उपरोक्त संदर्भित पत्र द्वारा प्रस्तुत कर दी गयी है। राज्य सरकार के प्रस्ताव पर ध्यानपूर्वक विचार करने के उपरान्त केन्द्र सरकार जनपद-पौड़ी गढ़वाल में मा० मुख्यमंत्री घोषणा संख्या-558/2015 कोटद्वार नगर क्षेत्र में कूड़ा निस्तारण हेतु 0.998 हे० वन भूमि का गैर वानिकी कार्यों हेतु नगर पालिका परिषद् कोटद्वार को प्रत्यावर्तन हेतु विधिवत् स्वीकृति निम्नलिखित शर्तों पर प्रदान करती है:-

1. वन भूमि की विधिक परिस्थिति अपरिवर्तित रहेगी।
2. परियोजना के लिए आवश्यक गैर-वानिकी भूमि प्रयोक्ता अभिकरण को सौंपने के बाद ही वन भूमि सौंपी जाएगी।
3. **प्रतिपूरक वनीकरण**
क) प्रयोक्ता अभिकरण द्वारा 1996 पौधों का रोपण कार्य प्रस्ताव के अनुसार किया जाएगा। जहां तक संभव हो, स्थानीय देशी प्रजातियों को लगाया जाए तथा किसी भी प्रजाति की एकल प्लांटेशन से बचा जाये।
4. वन अधिकार अधिनियम, 2006 का पूर्ण अनुपालन संबंधित जिला कलेक्टर द्वारा जारी प्रमाण पत्र से सुनिश्चित किया जाएगा।
5. प्रयोक्ता अभिकरण प्रत्यावर्तित वन भूमि में प्रस्ताव के अनुसार किसी भी प्रकार के वृक्ष नहीं काटे जायेंगे।

6. पर्यावरण (संरक्षण) अधिनियम, 1986 के प्रावधानों के अनुसार, यदि आवश्यक हो तो प्रयोक्ता अभिकरण पर्यावरणीय स्वीकृति प्राप्त करेगा।
7. केंद्र सरकार की पूर्वानुमति के बिना प्रस्ताव का ले-आउट प्लान नहीं बदला जाएगा।
8. वन भूमि एवं आस-पास की भूमि पर कोई भी श्रमिक शिविर स्थापित नहीं किया जाएगा।
9. प्रयोक्ता अभिकरण द्वारा मजदूरों को राज्यीय वन विभाग अथवा वन विकास निगम अथवा वैकल्पिक ईंधन के किसी अन्य कानूनी स्रोत से पर्याप्त लकड़ी, विशेषतः वैकल्पिक ईंधन दिया जाएगा।
10. परियोजना कार्य के निष्पादन हेतु निर्माण सामग्री के परिवहन के लिए वन क्षेत्र के अंदर कोई अतिरिक्त या नया मार्ग नहीं बनाया जाएगा।
11. वन भूमि का उपयोग परियोजना के प्रस्ताव में विनिर्दिष्ट प्रयोजनों के अतिरिक्त अन्य किसी प्रयोजन हेतु नहीं किया जाएगा।
12. केंद्र सरकार की पूर्वानुमति के बिना प्रत्यावर्तन हेतु प्रस्तावित वन भूमि किसी भी परिस्थिति में किसी भी अन्य एजेंसियों, विभाग अथवा व्यक्ति को हस्तांतरित नहीं की जाएगी।
13. प्रयोक्ता अभिकरण पूर्वविर्दिष्ट स्थलों पर सही प्रकार से मलवे का निस्तारण करेगा।
14. यदि कोई अन्य सम्बन्धित अधिनियम/अनुच्छेद/नियम/न्यायालय आदेश/अनुदेश आदि इस प्रस्ताव पर लागू होते हैं तो उनके अधीन जरूरी अनुमति लेना राज्य सरकार/प्रयोक्त एजेंसी की जिम्मेवारी होगी।
15. पर्यावरण, वन एवं जलवायु परिवर्तन मंत्रालय द्वारा वन एवं वन्यजीवों के संरक्षण व विकास के हित में समय-समय पर निर्धारित शर्तें लागू होंगी।

भवदीय,

(टी० सी० नौटियाल)
उप महानिरीक्षक, वन (के०)

प्रतिलिपि सूचनार्थ एवं आवश्यक कार्यवाही हेतु प्रेषित:

1. अपर वन महानिदेशक (एफ०सी०), पर्यावरण, वन एवं जलवायु परिवर्तन मंत्रालय, इन्दिरा पर्यावरण भवन, जोरबाग रोड, अलीगंज, नई दिल्ली।
2. अपर प्रमुख वन संरक्षक एवं नोडल अधिकारी, वन संरक्षण, इन्दिरा नगर फारेस्ट कालोनी, देहरादून, उत्तराखण्ड।
3. आदेश पत्रावली।

(टी० सी० नौटियाल)
उप महानिरीक्षक, वन (के०)

प्रमाण-पत्र

प्रमाणित किया जाता है कि नगर निगम कोटद्वार क्षेत्रान्तर्गत ठोस अपशिष्ट के वैज्ञानिक विधि से प्रबंधन/निस्तारण हेतु गैर वानिकी भूमि उपलब्ध न होने के कारण कंचनपुरी हल्दूखाता कोटद्वार की 0.998 हे० वन भूमि उक्त प्रयोजन हेतु नगर निगम कोटद्वार के नाम पर हस्तानान्तरण हेतु प्रस्तावित की गयी है।

६९

जिलाधिकारी

शुद्धवाल



नगर आयुक्त,

नगर निगम कण्वनगरी,

कोटद्वार-गढ़वाल।

विषय:- जनपद पौड़ी गढ़वाल में मा0 मुख्यमंत्री घोषणा संख्या-558/2015 कोटद्वार नगर क्षेत्र में कूड़ा निस्तारण हेतु 0.998 हे0 वन भूमि का गैर वानिकी कार्यों हेतु नगर पालिका परिषद, कोटद्वार को प्रत्यावर्तन।

संदर्भ:- भारत सरकार का पत्रांक 8बी/यू0सी0पी0/09/160/2020/एफ.सी./2576 दिनांक 31.03.2021.

महोदय,

उपरोक्त विषयक संबन्धित पत्र के क्रम में अवगत कराना है कि मा0 मुख्यमंत्री घोषणा संख्या-558/2015 कोटद्वार नगर क्षेत्र में कूड़ा निस्तारण हेतु 0.998 हे0 वन भूमि का गैर वानिकी कार्यों हेतु नगर पालिका परिषद, कोटद्वार को प्रत्यावर्तन के सापेक्ष भारत सरकार पर्यावरण वन एवं जलवायु परिवर्तन मंत्रालय एकीकृत क्षेत्रीय कार्यालय देहरादून का पत्रांक सं0-8बी/यू0सी0पी0/09/160/2020/एफ0सी0/2576 दिनांक 31.03.2021 सैद्धान्तिक स्वीकृति प्राप्त है। प्रयोक्ता एंजेन्सी द्वारा उक्त सैद्धान्तिक स्वीकृति में अधारोपित निम्नलिखित शर्तों का अनुपालन किया जाना है।

(1) शर्त संख्या 3 के अनुसार प्रयोक्ता अभिकरण द्वारा क्षतिपूर्क वृक्षारोपण हेतु चयनित क्षेत्र (1.996हे0) में क्षतिपूर्क वृक्षारोपण हेतु 1996 पौध वित्तीय वर्ष 2020-21 के अनुसार निर्धारित दर 1100.00 रु0/पौध के अनुसार धनराशि 2195600.00 रु0 जमा की जायेगी।

(2) शर्त संख्या 4 के क्रम में प्रयोक्ता एंजेन्सी द्वारा भारत सरकार के पत्र सं0-5.3/2007-FC दिनांक 05.09.2009 के अनुसार रु0 (626000.00रु0/प्रति हे0) 626000.00x0.998 = 624748.00 की धनराशि जमा की जानी है।

(3) यदि शुद्ध वर्तमान मूल्य की दर में बढ़ोतरी होती है तो बढ़ी हुई दर के अनुसार अतिरिक्त धनराशि प्रयोक्ता अभिकरण द्वारा जमा की जायेगी। इस आशय का वचनबद्धता से सम्बन्धित प्रमाण-पत्र प्रेषित किया जाना है।

(4) उक्त समस्त धनराशि कैम्पा मद अन्तर्गत प्रतिपूर्ति पौधारोपण निधि प्रबन्धन तथा योजना का प्राधिकरण के तदर्थ निकाय के लेखा सं0-एस0बी0 25229 कॉरपोरेशन बैंक (भारत सरकार का उपक्रम) के ब्लॉक-11 भूतल सी0जी0 कॉम्प्लैक्स फेज-1 लोदी रोड़ नई दिल्ली-110003 में जमा करने के उपरान्त पावती की कलर प्रमाणित छायाप्रति, जमा की गई धनराशि का बैंक डॉक्यूमेंट की प्रमाणित छायाप्रति का विवरण देना होगा।

(5) निर्माण के पश्चात जहाँ सम्भव हो सड़क के दोनो किनारे तथा Celtral verge पर प्रयोक्ता अभिकरण द्वारा अपने व्यय पर वन विभाग की देखरेख में strip plantation किया जायेगा। इस आशय की वचन बद्धता प्रमाण-पत्र भी आपके द्वारा प्रेषित किया जायेगा।

(6) अपर प्रमुख वन संरक्षक, एवं नोडल अधिकारी, वन संरक्षकण, इन्दिरानगर फॉरेस्ट कॉलोनी, उत्तराखण्ड, देहरादून की पत्र सं0-2564/1जी0-5070 दिनांक 02.06.2020 द्वारा हस्तान्तरित सिविल क्षेत्र को आरिक्षत वन क्षेत्र घोषित करने हेतु आने वाले व्यय को भी आपको जमा करना होगा। कृपया इस आशय का प्रमाण-पत्र देने का कष्ट करें।

(7) शर्त सं0 11 के अनुसार क्षेत्रों में निश्चित दूरी पर सड़क के साथ गति विनियमन बोर्ड लगाने हेतु धनराशि 1.00 लाख का प्राकलन पृथक से प्रेषित किया जा रहा है उक्त धनराशि को आप द्वारा विभाग के पक्ष में जमा किया जाना है।

(8) शर्त सं0 16 के अनुसार प्रत्यावर्तित वन भूमि की सीमा को R.C पिलर्स द्वारा सीमांकन किये जाने हेतु 2.00 लाख का प्राकलन पृथक से प्रेषित किया जा रहा है उक्त धनराशि को आप द्वारा विभाग के पक्ष में जमा किया जाना है।

(9) उक्त के अतिरिक्त वन्यजीवों की सुरक्षा को मध्य नजर रखते हुए क्षेत्र के चारो ओर हाथी रोधी दीवार का निर्माण एवं बहरी क्षेत्र में 2 से 2.50 मी0 की चौ0 में लेमन ग्रस का रोपण हेतु धनराशि 50.00 लाख का प्रकलन तैयार कर पृथक से प्रेषित किया जा रहा है। उक्त धनराशि को आप द्वारा विभाग के पक्ष में जमा किया जाना है।

अतः उक्त के अतिरिक्त सैद्धान्तिक स्वीकृति में अध्यारोपित शर्तों से सम्बन्धित अनुपान आख्या भी कार्यालय को उपलब्ध कराने का कष्ट करें। यह भी अवगत कराना है, कि सैद्धान्तिक स्वीकृति में अध्यारोपित शर्तों के पूर्ण अनुपालन से पूर्व कोई भी निर्माण कार्य आरम्भ न किया जाये।

भवदीय

(दीपक सिंह)

प्रभागीय वनाधिकारी,
लैन्सडौन वन प्रभाग, कोटद्वार।

(प्रपत्र सं०-23.4)

परियोजना का नाम:- मा० मुख्यमंत्री घोषणा संख्या-586/2015 के अन्तर्गत जैविक व अजैविक कूड़े के निस्तारण हेतु ट्रेडिंग ग्राउण्ड(FP/UK/others/15440/2015) के सम्बन्ध में।

जिलाधिकारी द्वारा प्रदत्त प्रमाण-पत्र

जनपद- पौड़ी गढ़वाल के अन्तर्गत प्रस्तावित मा० मुख्यमंत्री घोषणा संख्या-586/2015 के अन्तर्गत जैविक व अजैविक कूड़े के निस्तारण हेतु ट्रेडिंग ग्राउण्ड (FP/UK/others/15440/2015) परियोजना के निर्माण हेतु 0.998 हे० वन भूमि (प्रयोक्ता एजेन्सी) को प्रत्यावर्तित किये जाने हेतु प्रस्ताव किया गया है। भारत सरकार, पर्यावरण एवं वन मंत्रालय, नई दिल्ली के पत्र सं० 11-9/98-एफ०सी० दिनांक 05.02.2013 के द्वारा रेखाकार (linear) प्रयोजनो यथा-सड़क, नहर, पारेषण लाईन ओ०एफ०सी० केबिल, पाईपलाईन बिछाने आदि प्रकरणों को वन अधिकार अधिनियम 2006 के प्राविधानों से मुक्त किया गया है। विषयगत परियोजना के निर्माण हेतु आवेदित वन कृषि भूमि पर आदिकालीन जनजाति समूह (Primitive Tribal Groups) व आदिकालीन कृषि समुदाय (Pre Agricultural Tribal Groups) प्रभावित नहीं हो रहे हैं।

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जिलाधिकारी

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दिनांक: 08.12.2020

अपर मुख्य सचिव (वन),
उत्तराखण्ड शासन,
सुभाष रोड, देहरादून।

विषय : जनपद-पौड़ी गढ़वाल में मा0 मुख्यमंत्री घोषणा संख्या-558/2015 कोटद्वार नगर क्षेत्र में कूड़ा निस्तारण हेतु 0.998 हे0 वन भूमि का गैर वानिकी कार्यों हेतु नगर पालिका परिषद, कोटद्वार को प्रत्यावर्तन।

सन्दर्भ:- अपर सचिव, उत्तराखण्ड शासन की पत्र संख्या-1811/x-3-20/2(52)/2020 दिनांक 08.12.2020 महोदय,

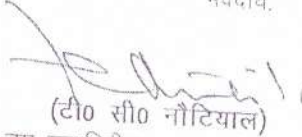
उपरोक्त विषय पर Online Proposal No FP/UK/Others/15440/2015 एवं अपर सचिव, उत्तराखण्ड शासन के सन्दर्भित पत्र का अवलोकन करने का कष्ट करें, जिसके द्वारा विषयांकित प्रस्ताव पर केंद्र सरकार से वन (संरक्षण) अधिनियम, 1980 की धारा-2 के तहत स्वीकृति मांगी थी।

प्रश्नगत प्रकरण में इस कार्यालय द्वारा समय-समय पर अतिरिक्त सूचनाये चाही गयी थी, जिसकी अन्तिम अनुपालना प्रमुख वन संरक्षक एवं नोडल अधिकारी (एफ.सी.ए.), उत्तराखण्ड के समसंख्यक पत्र दिनांक 15.03.2021 द्वारा प्रेषित कर दी है। प्रस्ताव पर ध्यानपूर्वक विचार करने के उपरांत केंद्र सरकार- जनपद-पौड़ी गढ़वाल में मा0 मुख्यमंत्री घोषणा संख्या-558/2015 कोटद्वार नगर क्षेत्र में कूड़ा निस्तारण हेतु 0.998 हे0 वन भूमि का गैर वानिकी कार्यों हेतु नगर पालिका परिषद, कोटद्वार को प्रत्यावर्तन किये जाने की सैद्धान्तिक स्वीकृति निम्नलिखित शर्तों पर प्रदान करती है:-

1. वन भूमि की विधिक परिस्थिति नहीं बदली जाएगी।
2. परियोजना के लिए आवश्यक गैर वन भूमि प्रयोक्ता अभिकरण को सौंपे जाने के बाद ही वन भूमि सौंपी जाएगी।
3. प्रतिपूरक वनीकरण:
क) प्रयोक्ता अभिकरण द्वारा प्रतिपूरक वनीकरण के लिए 1996 पौधों का रोपण कार्य किया जाएगा एवं दस वर्षों तक रखरखाव हेतु आवश्यक धनराशि (@ CA rate for 1.996 ha area (वर्तमान दरों को समाहित करते हुये यथासंशोधित) जमा की जायेगी। जहां तक व्यावहारिक हो, स्थानीय स्वदेशी प्रजातियों को लगाया जाए तथा प्रजातियों की एकल प्लांटेशन से बचा जायें।
ख) राज्य सरकार पौधारोपण योजना के साथ क्षेत्र का नाम एवं coordinates अंकित करते हुए डिजिटल मानचित्र एवं क्षेत्र का नाम इस कार्यालय में प्रस्तुत करेगी।
4. प्रतिपूरक वनीकरण की भूमि पर, यदि आवश्यक हो, तो प्रतिपूरक वनीकरण योजना के अनुसार प्रचलित मजदूरी दरों पर प्रतिपूरक वनीकरण की लागत एवं सर्वेक्षण, सीमांकन और स्तंभन की लागत परियोजना प्राधिकरण द्वारा अग्रिम रूप से वन विभाग के पास जमा की जाएगी। प्रतिपूरक वनीकरण 10 वर्षों तक अनुरक्षित किया जाएगा। इस योजना में भविष्य में निर्धारित कार्यों के लिए प्रत्याशित लागत वृद्धि हेतु उपयुक्त प्रावधान शामिल किए जा सकते हैं।
5. शुद्ध वर्तमान मूल्य
(क) इस संबंध में भारत के माननीय सर्वोच्च न्यायालय के WP (C) संख्या: 202/1995 में IA नंबर 556 दिनांक 30.10.2002, 01.08.2003, 28.03.2008, 24.04.2008 एवं 09.05.2008 तथा मंत्रालय द्वारा पत्रांक 5-1/1998-एफ.सी. (Pt. 2) दिनांक 18.09.2003, 5-2/2006-एफ.सी. दिनांक 03.10.2006 एवं 5-3/2007-एफ.सी. दिनांक 05.02.2009 में जारी दिशानिर्देशानुसार राज्य सरकार प्रयोक्ता अभिकरण से इस प्रस्ताव के तहत 0.998 हे0 वन क्षेत्र के प्रत्यावर्तन के लिए शुद्ध वर्तमान मूल्य वसूल करेगी।
(ख) विशेषज्ञ समिति से रिपोर्ट प्राप्त होने पर माननीय सर्वोच्च न्यायालय द्वारा प्रत्यावर्तित वन भूमि के शुद्ध वर्तमान मूल्य की अतिरिक्त राशि, यदि कोई हो, जो अंतिम रूप देने के बाद देय हो, को राज्य सरकार द्वारा प्रयोक्ता अभिकरण से वसूला जाएगा। प्रयोक्ता अभिकरण इसका एक शपथपत्र प्रस्तुत करेगा।
6. प्रयोक्ता अभिकरण प्रत्यावर्तित वन भूमि में प्रस्ताव के अनुसार किसी भी प्रकार के वृक्ष नहीं काटे जायेंगे।
7. परियोजना के तहत प्रयोक्ता अभिकरण से प्राप्त धन केवल ई-पोर्टल (<https://parivesh-nic-in/>) के माध्यम से क्षतिपूरक वनीकरण कोष प्रबंधन और योजना प्राधिकरण फंड में स्थानांतरित/ जमा किए जाएंगे।

8. गाईडलाइन्स में दिए गए दिशानिर्देशों के पैरा 11.2 के अनुसार राज्य सरकार विधिवत स्वीकृति से पूर्व वृक्षों के कटान अथवा कार्य प्रारंभ करने के लिए पारित किये गये आदेश की प्रति इस कार्यालय को प्रेषित करेगी। साथ ही राज्य सरकार इतनी कड़ाई से निगरानी करेगी और यह सुनिश्चित करेगी कि इस तरह की अनुमति जारी करने की दिनांक से एक वर्ष की समाप्ति तक आदेश में उल्लेखित कार्य के अलावा कोई और गतिविधि नहीं की जाएगी। आईआरए. 2006 का पूर्ण अनुपालन संबंधित जिला कलेक्टर से निर्धारित प्रमाण पत्र के माध्यम से सुनिश्चित किया जाएगा।
10. प्रयोक्ता अभिकरण आईआरसी मानदंडों के अनुसार सड़क के दोनों किनारों पर पौधों की संख्या बढ़ाएगा।
11. संरक्षित क्षेत्रों / वन क्षेत्रों में निश्चित दूरी पर सड़क के साथ गति विनियमन साइनेज लगाए जाएंगे।
12. पर्यावरण (संरक्षण) अधिनियम, 1986 के प्रावधानों के अनुसार, उपयोगकर्ता अभिकरण पर्यावरणीय स्वीकृति यदि लागू हो प्राप्त करेगा।
13. केंद्र सरकार की पूर्वानुमति के बिना प्रस्ताव का ले-आउट प्लान नहीं बदला जाएगा।
14. वन भूमि एवं आस-पास की भूमि पर कोई भी श्रमिक शिविर स्थापित नहीं किया जाएगा।
15. प्रयोक्ता अभिकरण द्वारा मजदूरों को राज्यीय वन विभाग अथवा वन विकास निगम अथवा वैकल्पिक ईंधन के किसी अन्य कानूनी स्रोत से पर्याप्त लकड़ी, विशेषतः वैकल्पिक ईंधन दिया जाएगा।
16. संबंधित प्रभागीय वनाधिकारी के निर्देशानुसार, प्रत्यावर्तित वन भूमि की सीमा का परियोजना लागत पर भूमि पर आर. सी.सी. पिलर्स द्वारा सीमांकन किया जाएगा।
17. परियोजना कार्य के निष्पादन के लिए निर्माण सामग्री के परिवहन के लिए वन क्षेत्र क अंदर कोई अतिरिक्त या नया मार्ग नहीं बनाया जाएगा।
18. वन भूमि का उपयोग परियोजना के प्रस्ताव में विनिर्दिष्ट प्रयोजनों के अतिरिक्त अन्य किसी प्रयोजन हेतु नहीं किया जाएगा।
19. केंद्र सरकार की पूर्वानुमति के बिना प्रत्यावर्तन हेतु प्रस्तावित वन भूमि किसी भी परिस्थिति में किसी भी अन्य एजेंसियों, विभाग अथवा व्यक्ति को हस्तांतरित नहीं की जाएगी। इनमें से किसी भी शर्त का उल्लंघन वन (संरक्षण) अधिनियम, 1980 का उल्लंघन होगा एवं पर्यावरण, वन एवं जलवायु परिवर्तन मंत्रालय के दिशानिर्देश फाइल संख्या 11-42/2017-FC दिनांक 29.01.2018 के अनुसार उस पर कार्रवाई होगी।
21. पर्यावरण, वन एवं जलवायु परिवर्तन मंत्रालय द्वारा वन एवं वन्यजीवों के संरक्षण व विकास के हित में समय-समय पर निर्धारित शर्तें लागू होंगी।
22. प्रयोक्ता अभिकरण पूर्वविर्दिष्ट स्थलों पर इस प्रकार मलबे का निस्तारण करेगा कि वह अनावश्यक रूप से तय सीमा से नीचे न गिरे। राज्य के वन विभाग के पर्यवेक्षण में तथा परियोजना की लागत पर, प्रयोक्ता अभिकरण द्वारा उपयुक्त प्रजातियों के पौधे लगाकर मलबा निस्तारण क्षेत्र को स्थिर एवं पुनर्जीवित करने का कार्य किया जाएगा। मलबे को यथा स्थान रखने हेतु दीवारें बनाई जाएंगी। निस्तारण स्थलों को राज्य के वन विभाग को सौंपने से पूर्व, इनका रिश्सीकरण एवं सुधार कार्य योजनानुसार समयबद्ध तरीके से पूरा किया जाएगा। मलबा निस्तारण क्षेत्र में वृक्षों की कटाई की अनुमति नहीं होगी।
23. यदि कोई अन्य सम्बन्धित अधिनियम/अनुच्छेद/नियम/न्यायालय आदेश/अनुदेश आदि इस प्रस्ताव पर लागू होते हैं तो उनके अधीन जरूरी अनुमति लेना राज्य सरकार/प्रयोक्त एजेंसी की जिम्मेवारी होगी।
24. अनुपालना रिपोर्ट ई-पोर्टल (<https://parivesh.nic.in/>) पर अपलोड की जाएगी।

भवदीय,


 (टी० सी० नौटियाल)
 उप महानिरीक्षक, वन (के०)

तिलिपि सूचनार्थ एवं आवश्यक कार्यवाही हेतु प्रेषित:

अपर वन महानिदेशक (एफ०सी०), पर्यावरण, वन एवं जलवायु परिवर्तन मंत्रालय, इन्दिरा पर्यावरण भवन, लोरकाय रोड, अलीगंज, नई दिल्ली।
 प्रमुख वन संरक्षक एवं नोडल अधिकारी, वन संरक्षण, इन्दिरा नगर फारेस्ट कालोनी, देहरादून, उत्तराखण्ड।
 प्रभागीय वनाधिकारी, लैन्डजीन वन प्रभाग, कोटद्वार।
 आदेश पत्रावली।

(टी० सी० नौटियाल)
 उप महानिरीक्षक, वन (के०)

(प्रपत्र सं०-23.3)

परियोजना का नाम:- मा० मुख्यमंत्री घोषणा संख्या-586/2015 के अन्तर्गत जैविक व अजैविक कूड़े के निस्तारण हेतु ट्रेचिंग ग्राउण्ड(FP/UK/others/15440/2015) के सम्बन्ध में।

जिलाधिकारी द्वारा प्रदत्त प्रमाण-पत्र

जनपद- पौड़ी गढ़वाल के अन्तर्गत वन भूमि पर प्रस्तावित मा० मुख्यमंत्री घोषणा संख्या-586/2015 के अन्तर्गत जैविक व अजैविक कूड़े के निस्तारण हेतु ट्रेचिंग ग्राउण्ड (FP/UK/others/15440/2015) परियोजना के निर्माण हेतु 0.998 हे० वन भूमि प्रयोक्ता एजेन्सी को प्रत्यावर्तित किये जाने हेतु उपजिलाधिकारी/अध्यक्ष उपखण्ड स्तरीय वन अधिकार समिति कोटद्वार तथा सम्बन्धित ग्राम सभाओं द्वारा प्रदत्त अनापत्ति प्रमाण-पत्र निर्गत किये गये हैं। वन अधिकार अधिनियम, 2006 के तहत व संलग्न प्रमाण-पत्रों के अनुसार परियोजना के निर्माण में किसी अनुसूचित जनजाति व वनवासी की भूमि अधिग्रहित नहीं हो रही है व न ही किसी जनजाति/वनवासी के वनों पर अधिकार प्रभावित हो रहे हैं। परियोजना के निर्माण से प्रभावित होने वाली वन भूमि में कोई भी दावा लम्बित नहीं है।

ह० -
जिलाधिकारी

५५
जिलाधिकारी
गढ़वाल

नोट:-उक्त प्रपत्र उप जिलाधिकारी की अध्यक्षता में गठित समिति द्वारा प्राप्त कर प्रयोक्ता एजेन्सी को उपलब्ध कराया जायेगा।

सड़क निर्माण, नहर निर्माण, पारेषण लाईन, ओ०एफ०सी० केबिल, पाईपलाईन बिछाने आदि प्रयोजनों को भारत सरकार द्वारा वन अधिकार अधिनियम 2006 के प्राविधानों से मुक्त कर दिया गया है। उक्त प्रकरणों में प्रमाण-पत्र सं० 23, 23.1, 23.2 व 23.3 प्रस्ताव के साथ संलग्न नहीं किये जाने हैं। उक्त प्रयोजनों हेतु तैयार किये गये वन भूमि हस्तान्तरण प्रस्तावों के साथ जिलाधिकारी द्वारा प्रमाण-पत्र सं० 23.4 संलग्न किया जायेगा।

कार्यालय

"उत्तराखण्ड वन सदैव आपके स"

मुख्य वन संरक्षक, अनुश्रवण, मूल्यांकन, आई0टी0 एवं आधुनिकीकरण
वन भवन, 85/87, राजपुर रोड़, उत्तराखण्ड, देहरादून।

पत्रांक- 754 / 32-1-2(जी.आई.एस.) दिनांक: देहरादून, 09 अक्टूबर, 2020

सेवा में,

नगर आयुक्त,
नगर निगम कोटद्वार।

विषय :- मा0 मुख्यमंत्री घोषणा संख्या-586/2015 के अन्तर्गत मालन खाम कंचनपुरी में ठोस अपशिष्ट प्रबंधन हेतु चयनित 0.998 हे0 आरक्षित वनभूमि का हवाई दूरी प्रमाण पत्र के सम्बन्ध में।

सन्दर्भ :- आपका पत्रांक मेमो/स्वा0अनु0/कूडा ह0मा0संशो/2020-21 दिनांक 30-09-2020।

महोदय,

उपरोक्त विषयक सन्दर्भित पत्र के क्रम में मा0 मुख्यमंत्री घोषणा संख्या-586/2015 के अन्तर्गत मालन खाम कंचनपुरी में ठोस अपशिष्ट प्रबंधन हेतु चयनित 0.998 हे0 हेतु प्रस्तावित स्थल की राजाजी टाइगर रिजर्व व कार्बेट टाइगर रिजर्व की निकटतम सीमा से हवाई दूरी क्रमशः 12.3 कि0मी0, 18.1 कि0मी0 GIS तकनीकी द्वारा आपके माध्यम से दी गई KML file से सन्निकट आंकलित की गई है।

भवदीय,

34- 09/10/2020
मुख्य वन संरक्षक,

अनुश्रवण, मूल्यांकन, आई0टी0 एवं आधुनिकीकरण
उत्तराखण्ड, देहरादून।

प्रपत्र-19

परियोजना का नाम- "मा0 मुख्यमंत्री घोषणा सं0 588/2015 कोटद्वार नगर क्षेत्र में कूड़ा निस्तारण हेतु नगर निगम को ट्रैचिंग ग्राउण्ड हेतु कंचनपुरी में भूमि उपलब्ध कराये जाने की स्वीकृति प्रदान की जायेगी" के संन्दर्भ में।

राष्ट्रीय पार्क/वन्य जीव अभ्यारण्य से दूरी का

प्रमाण - पत्र

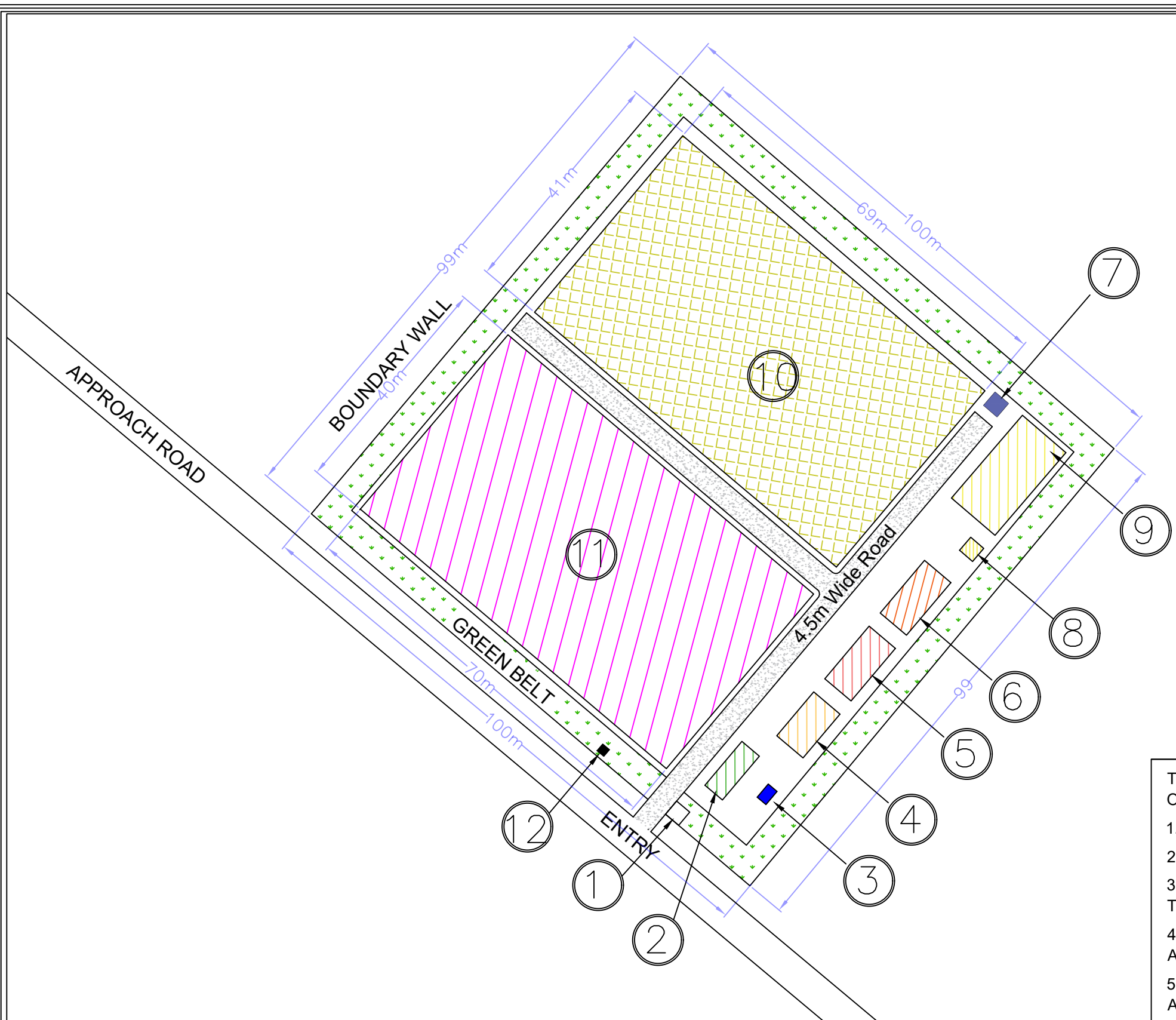
प्रमाणित किया जाता है कि प्रश्नगत परियोजना के निर्माण हेतु आवेदित वन क्षेत्र की समीपस्थ राष्ट्रीय पार्क/वन्य जीव अभ्यारण्य की सीमा से दूरी 12 कि०मी० है।

ह०/-

प्रभागीय वनाधिकारी
प्रभागीय वन प्रभाग
लैन्सडौन वन प्रभाग
कोटद्वार

वन क्षेत्राधिकारी
कोटद्वार राजि, कोटद्वार
लैन्सडौन वन प्रभाग, कोटद्वार

उप-प्रभागीय वनाधिकारी
(कोटद्वार)
लैन्सडौन वन प्रभाग
कोटद्वार (गढ़वा)



FOR DPR APPROVAL ONLY

AREA STATEMENT

NOTATION	DISCRIPTION	WIDTH (m)	LENGTH (m)
1	PLOT AREA	0.99H	
2	GREEN BELT	5m	393m
3	BOUNDARY WALL		393
4	ROAD	4.5	120
4	DRAIN		550

UNITS	
DISCRIPTION OF UNIT	UNIT SIZE
1 SECURITY ROOM CUM WEIGH BRIDGE OFFICE	03.00X03.00 m
2 WEIGH BRIDGE	10.00X04.00 m
3 TOILET	03.00X02.00 m
4 OFFICE BUILDING	10.00X06.00 m
5 PARKING SHED	12.00X06.00 m
6 STORAGE YARD CUM POWER ROOM	12.00X06.00 m
7 SUMP	2.0 X 2.0 X 7.5 m
8 LEACHATE TREATMENT UNIT	05.00X05.00 m
9 LEACHATE POND	19.00X10.00 m
10 SLF	69.00X41.00 m
11 PROCESSING SHED	70.00X40.00 m
12 TRANSFORMER	01 Nos

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1. All DIMENSIONS IN METER UNLESS OTHERWISE STATED.
2. DO NOT SCALE DRAWING. ONLY WRITTEN DIMENSION SHALL BE FOLLOWED.
3. ANY DISCREPANCIES NOTED SHALL BE BROUGHT TO THE NOTICE PRIOR TO THE EXECUTION.
4. THESE DRAWING DEVELOPED FOR PRELIMINARY STAGE DESIGN, ONLY FOR APPROVAL OF DPR.
5. SOIL TEST MUST BE DONE BEFORE STARTING PROJECT BY ANY AUTHORIZED AGENCY.

CLIENT: NAGAR PANCHAYAT KOTDWAR

PROJECT: SOLID WASTE MANAGMENT

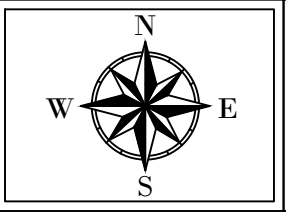
TITLE: SITE LAYOUT

DR.NO. SWM/NPT/001

SCALE- 1:20

PROJECT DESIGN CONSULTANT

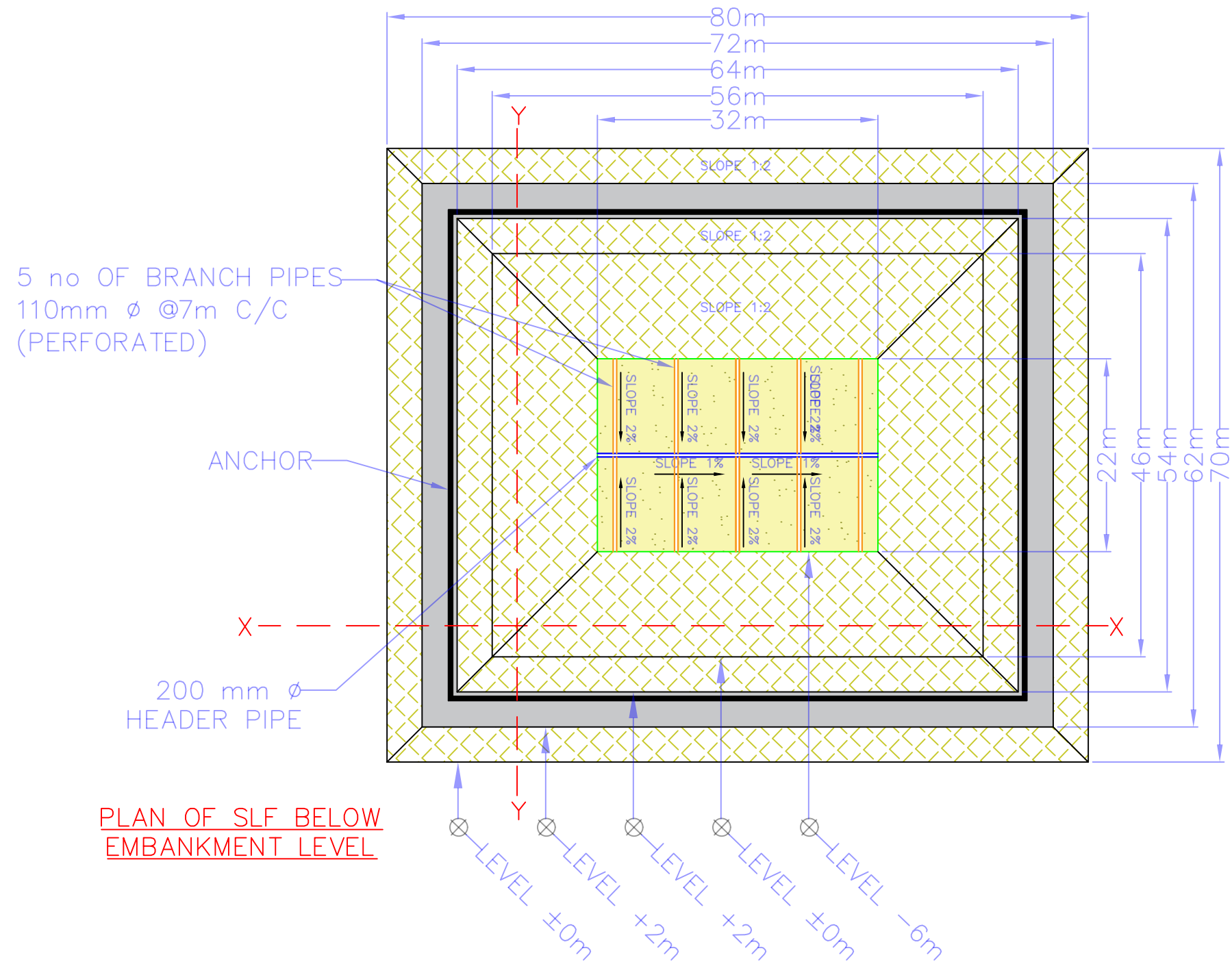
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NOTE: ALL DIMENSION ARE IN METER.

PLOT NO.3716/4831, Sasan Padia, Old Town, Bhubaneshwar, Odisa- 751002

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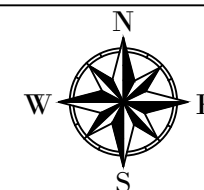
NOTES:

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CLIENT: NAGAR PANCHAYAT
KOTDWAR

TITLE: SLF PLAN

PROJECT DESIGN
CONSULTANT



NOTE: ALL DIMENSION ARE
IN METER.

PLOT
NO.3716/4831,
Sasan Padia, Old Town,
Bhubaneshwar,
Odisha- 751002

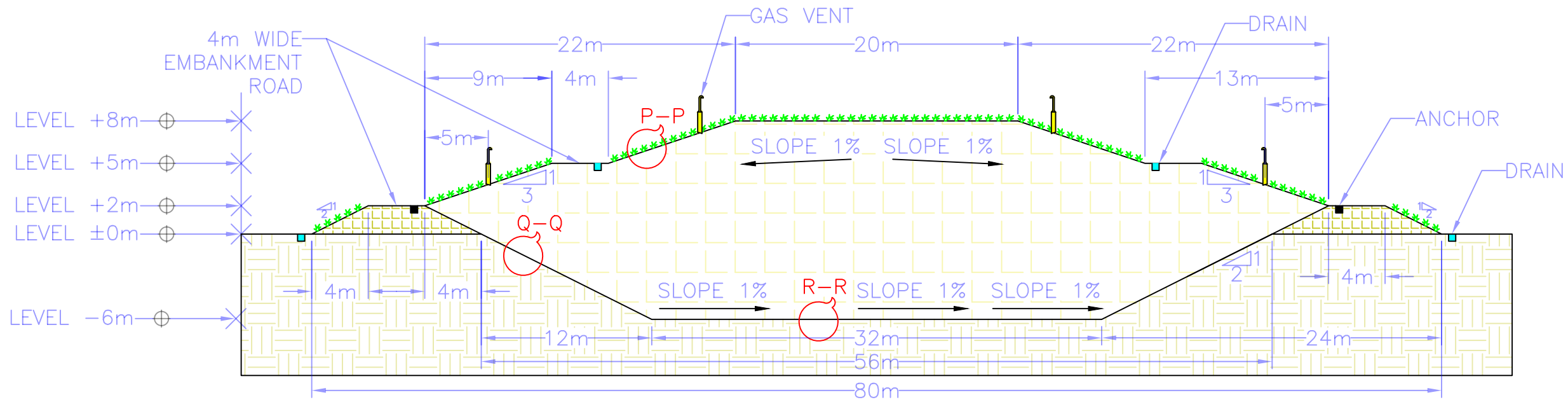
PROJECT: SOLID WASTE MANAGMENT

DR.NO. SWM/NPT/002

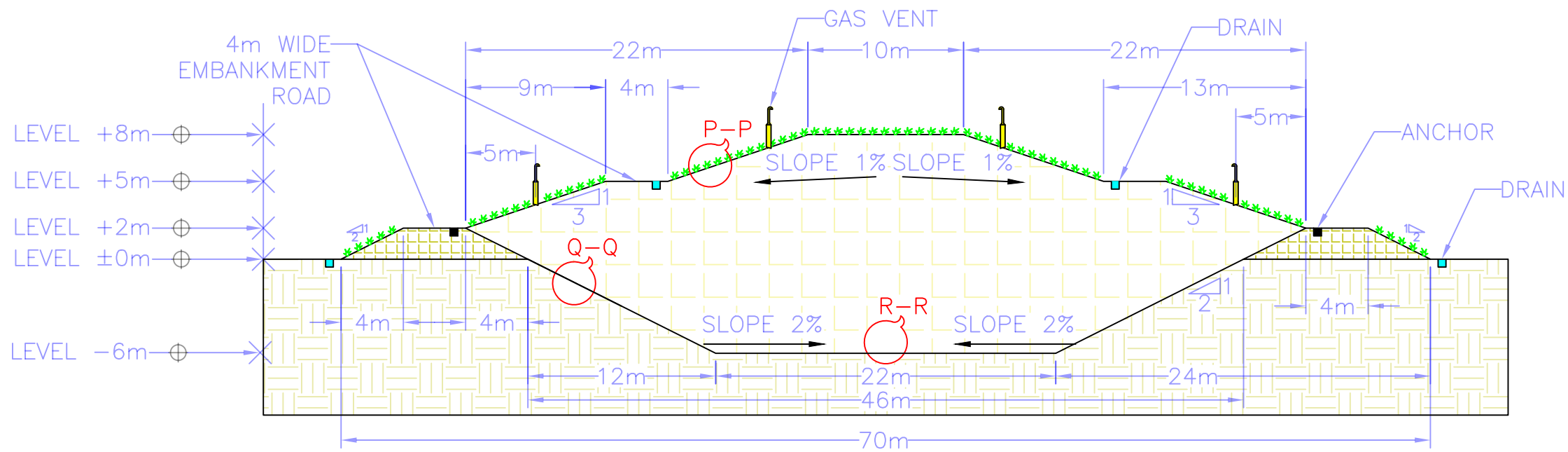
SCALE- 1:20

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SECTION X-X



SECTION Y-Y

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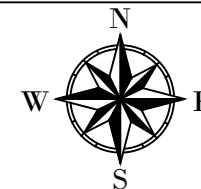
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CLIENT: NAGAR PANCHAYAT
KOTDWAR

TITLE: SLF SECTIONS

PROJECT DESIGN
CONSULTANT



NOTE: ALL DIMENSION ARE
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PLOT
NO.3716/4831,
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Bhubaneshwar,
Odisha- 751002

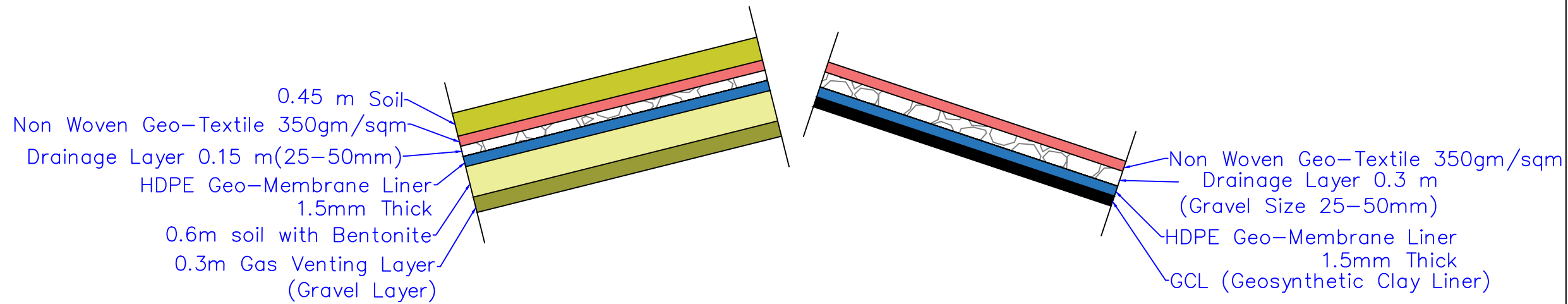
PROJECT: SOLID WASTE MANAGMENT

DR.NO. SWM/NPT/004

SCALE- 1:20

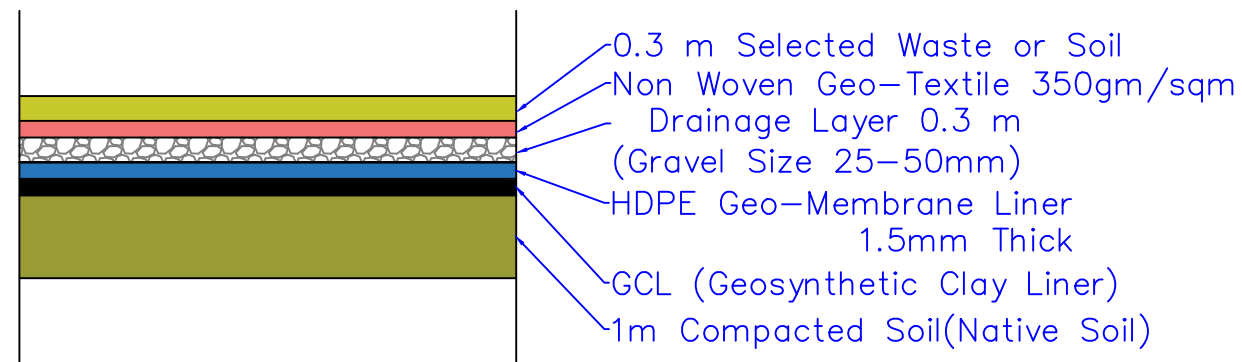
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DETAIL P-P

DETAIL Q-Q



DETAIL R-R

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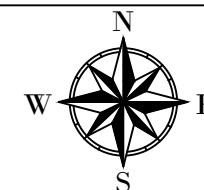
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CLIENT: NAGAR PANCHAYAT
KOTDWAR

TITLE: SLF LINER DETAILS

PROJECT DESIGN
CONSULTANT



NOTE: ALL DIMENSION ARE
IN METER.

PLOT
NO.3716/4831,
Sasan Padia, Old Town,
Bhubaneshwar,
Odisha- 751002

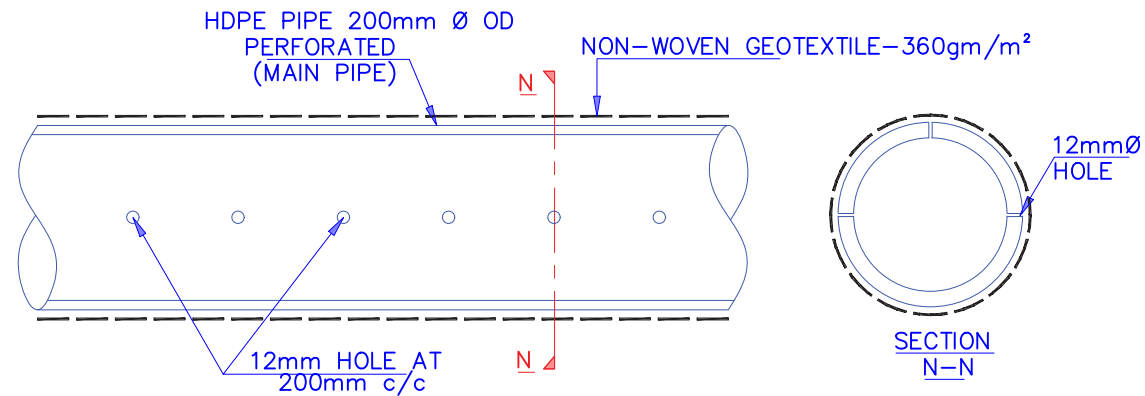
PROJECT: SOLID WASTE MANAGMENT

DR.NO. SWM/NPT/005

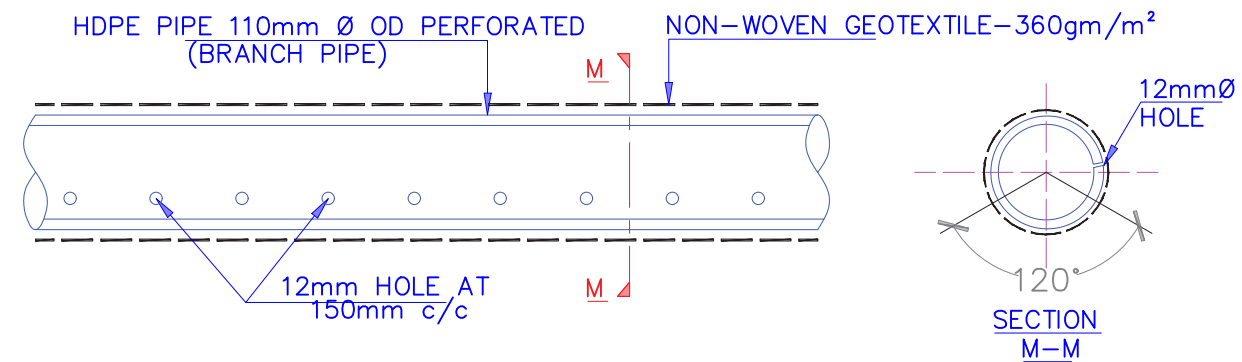
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TECHNOLOGIES Pvt. Ltd.

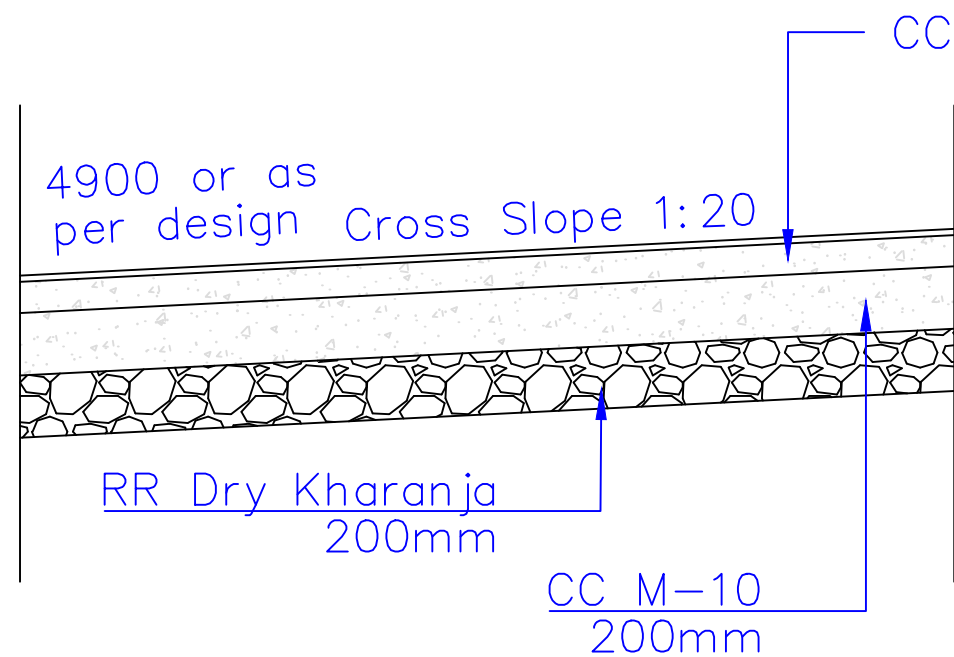
FOR DPR APPROVAL ONLY



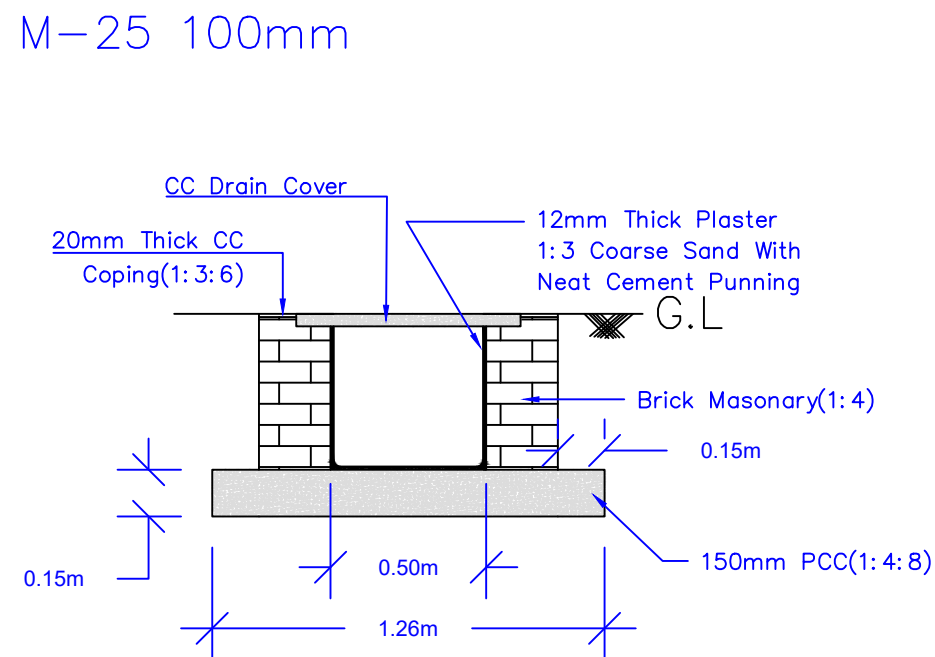
TYPICAL DETAILS OF LEACHATE COLLECTION MAIN PIPE (N.T.S.)



TYPICAL DETAILS OF LEACHATE COLLECTION BRANCH PIPE (N.T.S.)



CROSS SECTION OF CC ROAD



CROSS SECTION OF WATER DRAIN

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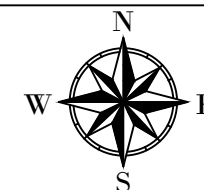
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CLIENT: NAGAR PANCHAYAT
KOTDWAR

TITLE: PIPES, ROAD AND DRAIN DETAILS

PROJECT DESIGN
CONSULTANT



NOTE: ALL DIMENSION ARE
IN METER.

PLOT
NO.3716/4831,
Sasan Padia, Old Town,
Bhubaneshwar,
Odisha- 751002

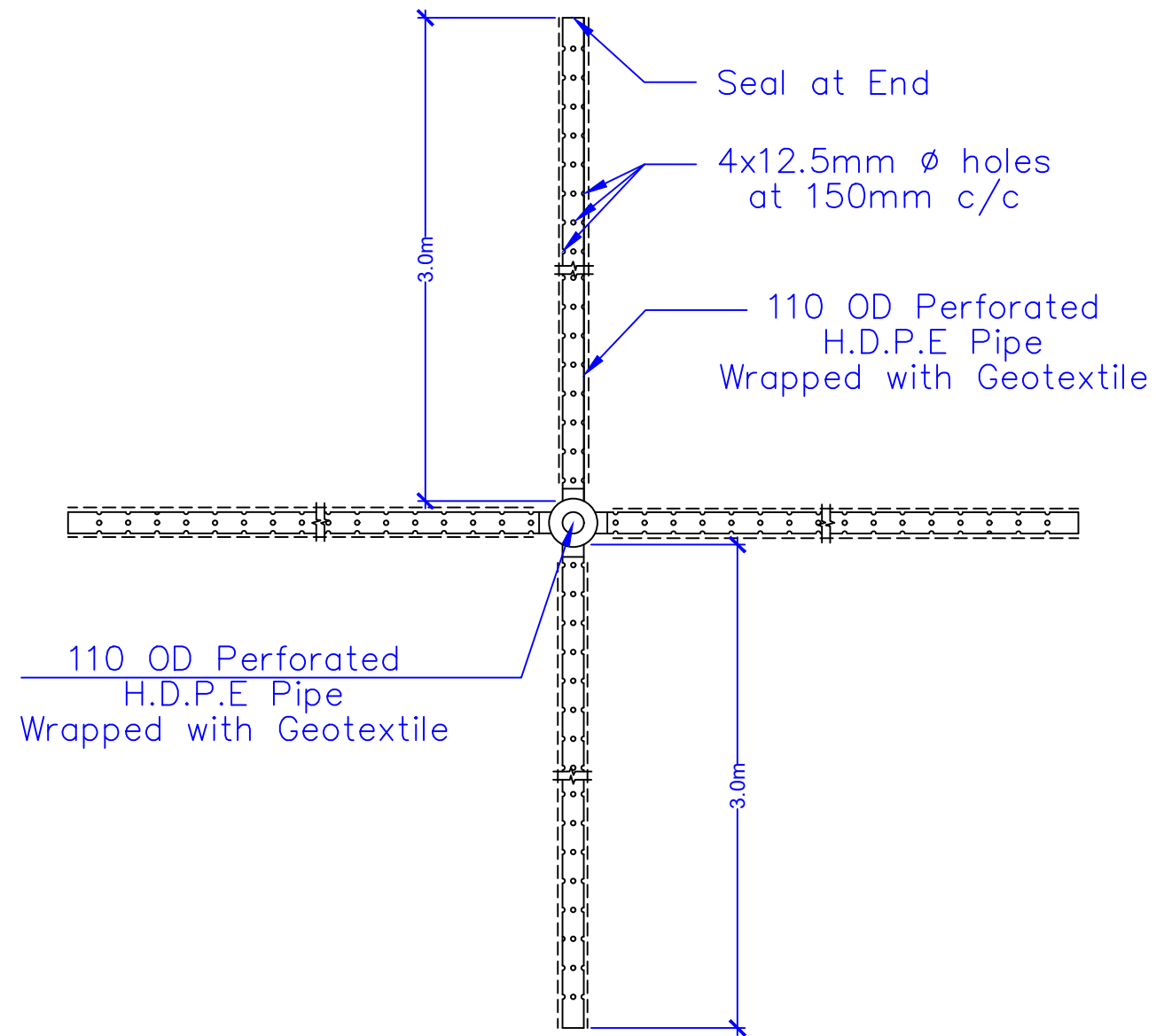
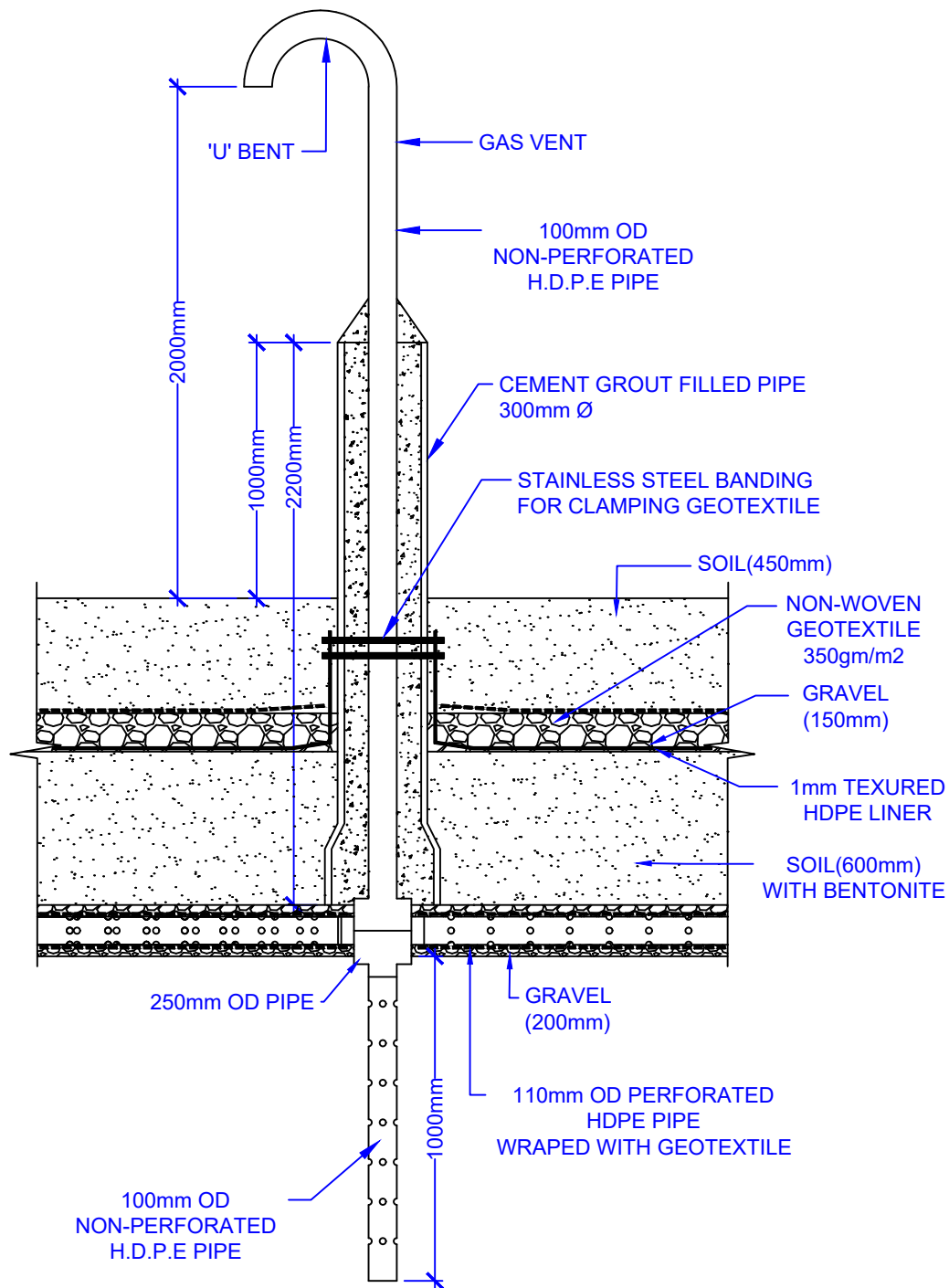
PROJECT: SOLID WASTE MANAGMENT

DR.NO. SWM/NPT/006

SCALE- 1:20

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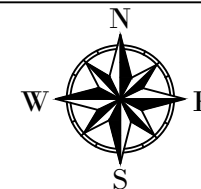
GAS VENT DETAILING

PLAN OF GAS VENT

CLIENT: NAGAR PANCHAYAT
KOTDWAR

TITLE: GAS VENT DETAILS

PROJECT DESIGN
CONSULTANT



NOTE: ALL DIMENSION ARE
IN METER.

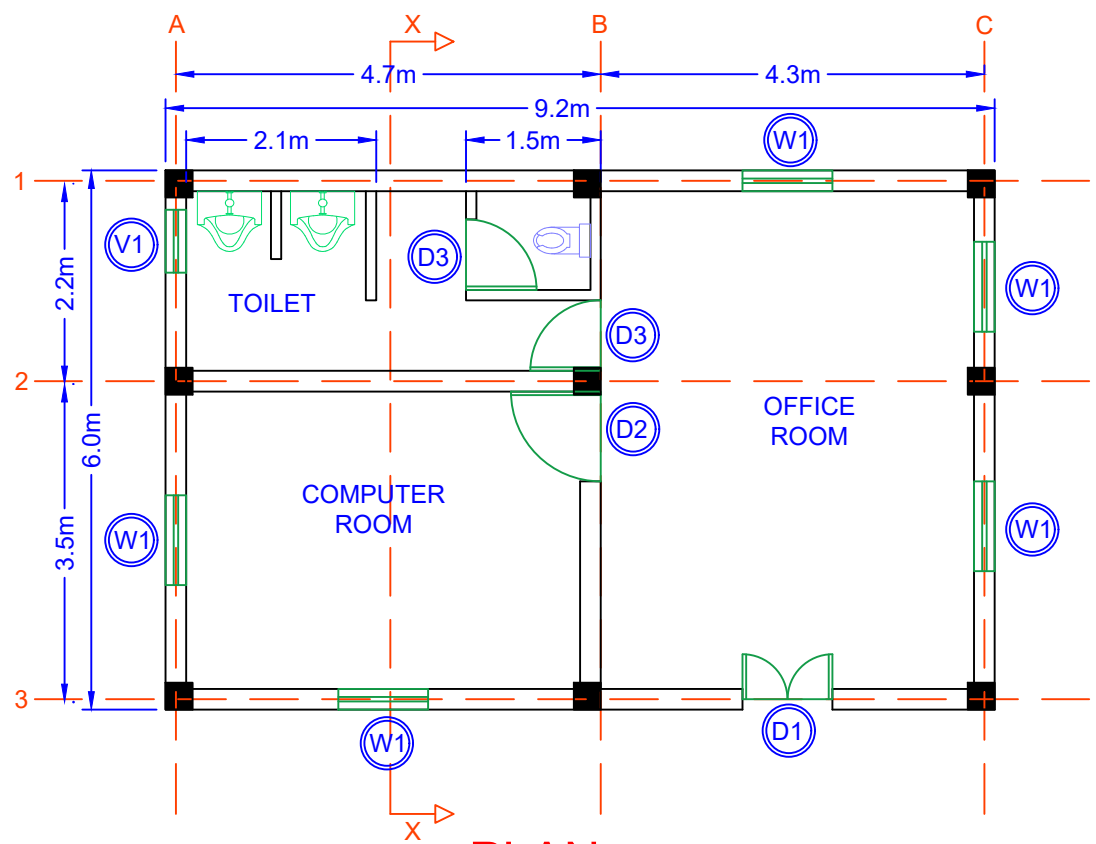
PLOT
NO.3716/4831,
Sasan Padia, Old Town,
Bhubaneshwar,
Odisha- 751002

PROJECT: SOLID WASTE MANAGMENT

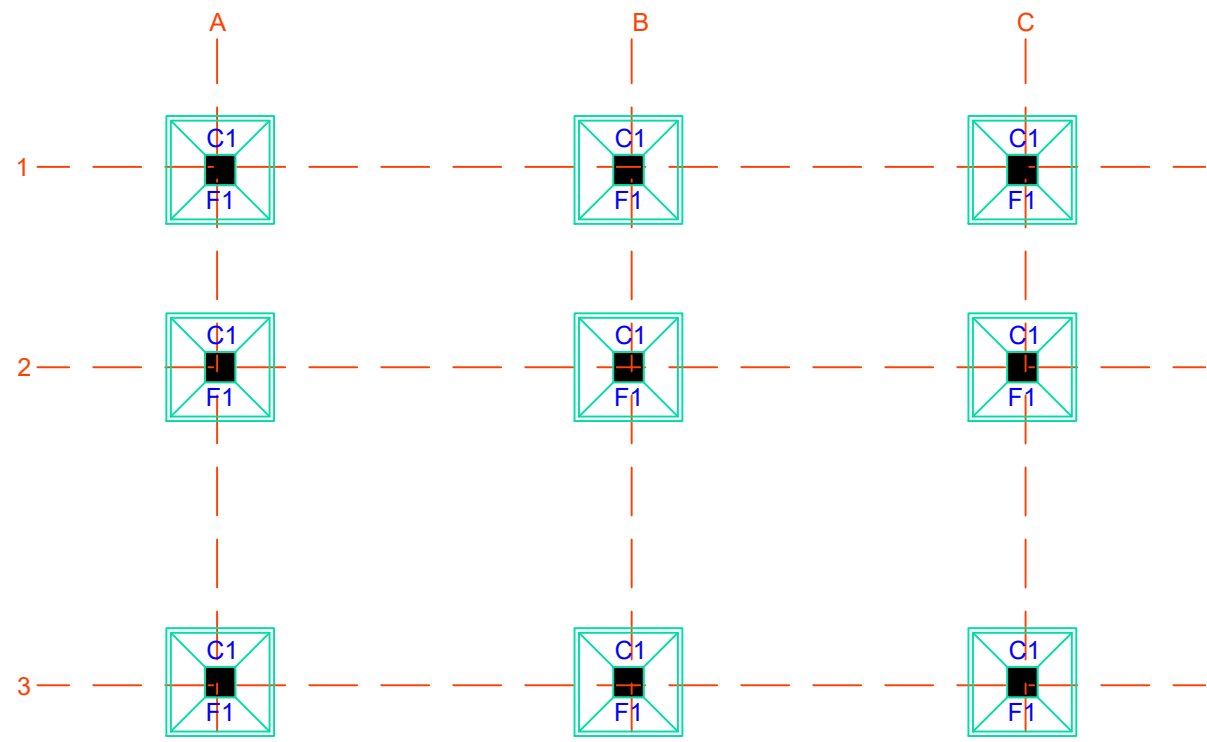
DR.NO. SWM/NPT/007

SCALE- 1:20

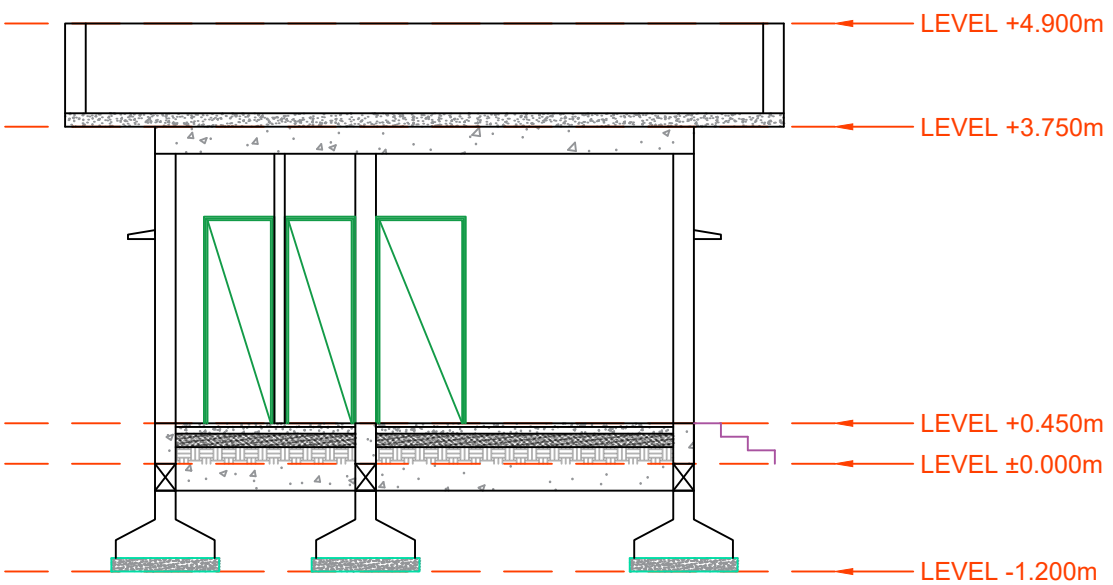
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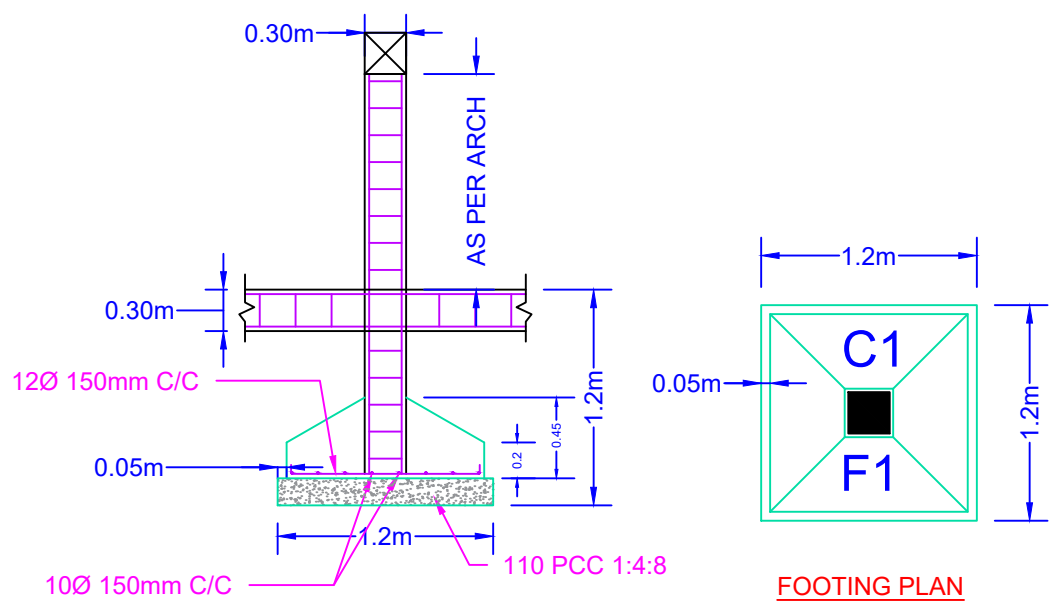
PLAN



FOOTING PLAN



SECTION X-X



C/S OF ISOLATED FOOTING PLAN

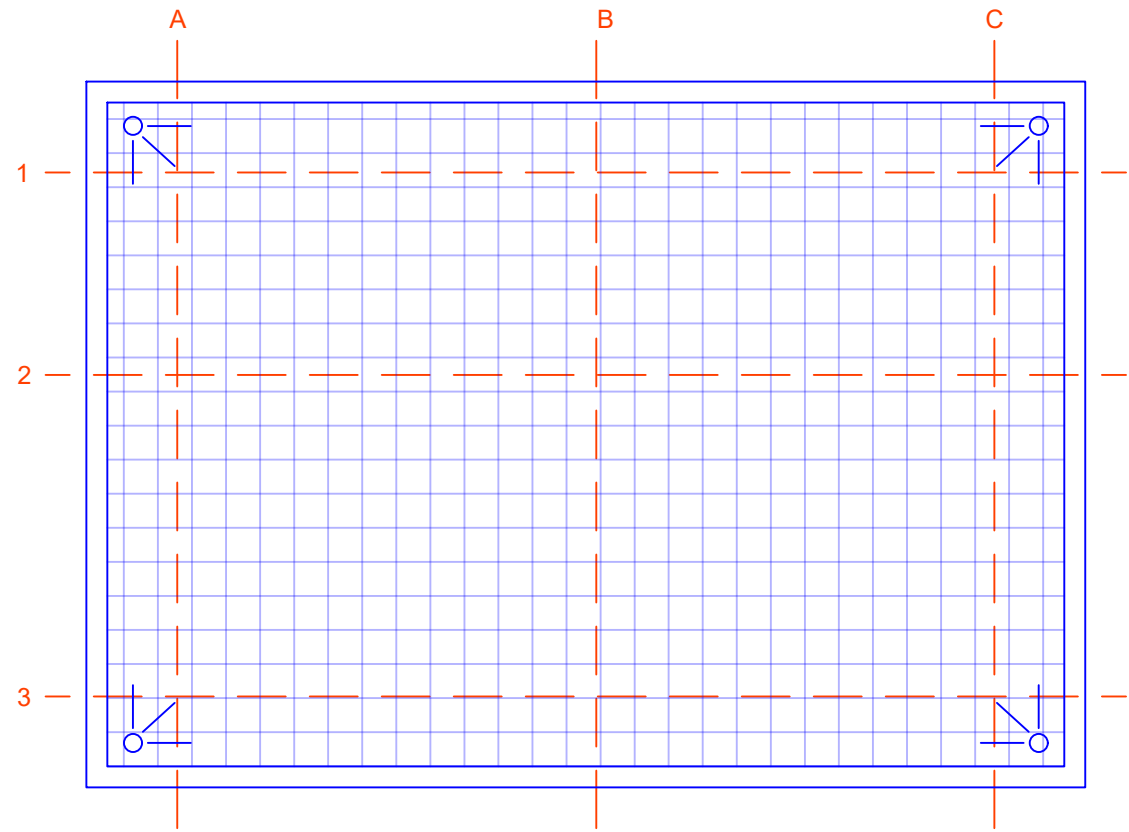
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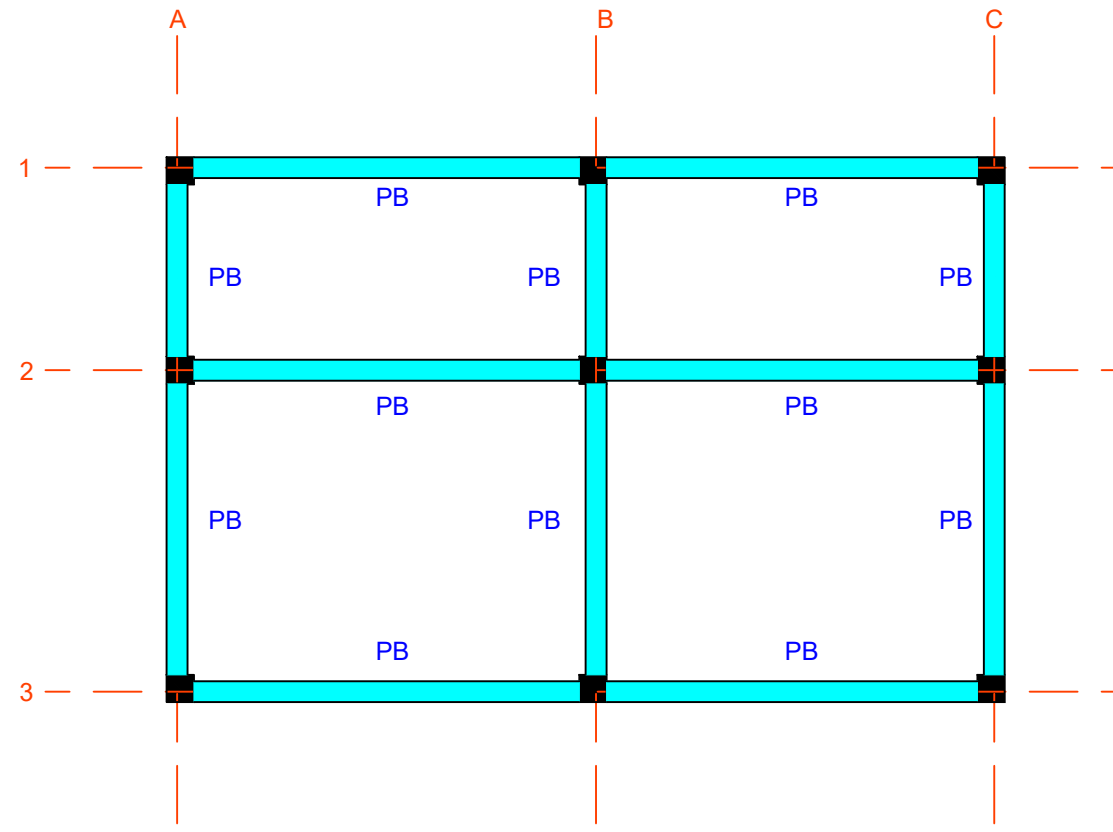
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CLIENT: NAGAR PANCHAYAT KOTDWAR	TITLE: OFFICE DETAILS	PROJECT DESIGN CONSULTANT		NOTE: ALL DIMENSION ARE IN METER.	PLOT NO.3716/4831, Sasan Padia, Old Town, Bhubaneshwar, Odisha- 751002
PROJECT: SOLID WASTE MANAGMENT	DR.NO. SWM/NPT/008	SCALE- 1:20			

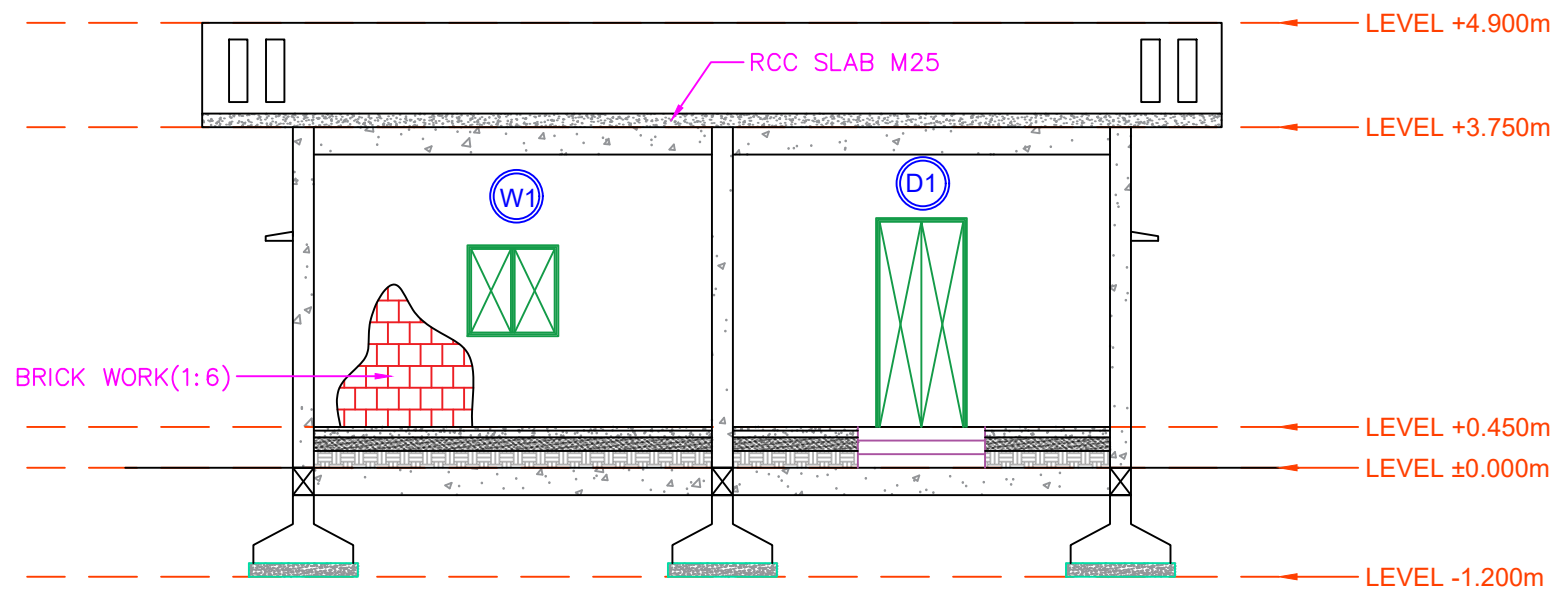
FOR DPR APPROVAL ONLY



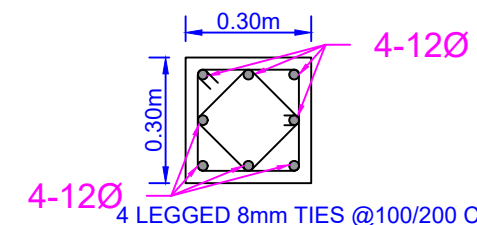
TERRACE PLAN



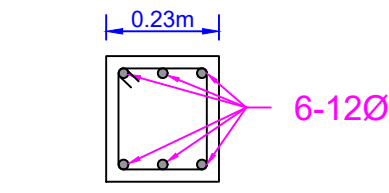
PLINTH PLAN



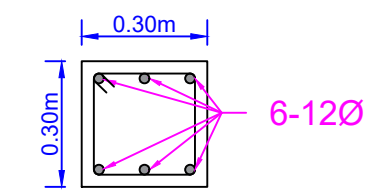
FRONT ELEVATION



CROSS SECTION OF COLUMN(C1)



CROSS SECTION OF PLINTH BEAM(PB)



CROSS SECTION OF TIE BEAM(TB)

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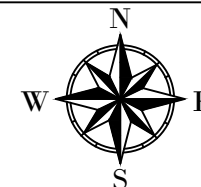
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CLIENT: NAGAR PANCHAYAT
KOTDWAR

TITLE: OFFICE DETAILS

PROJECT DESIGN
CONSULTANT



NOTE: ALL DIMENSION ARE
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PLOT
NO.3716/4831,
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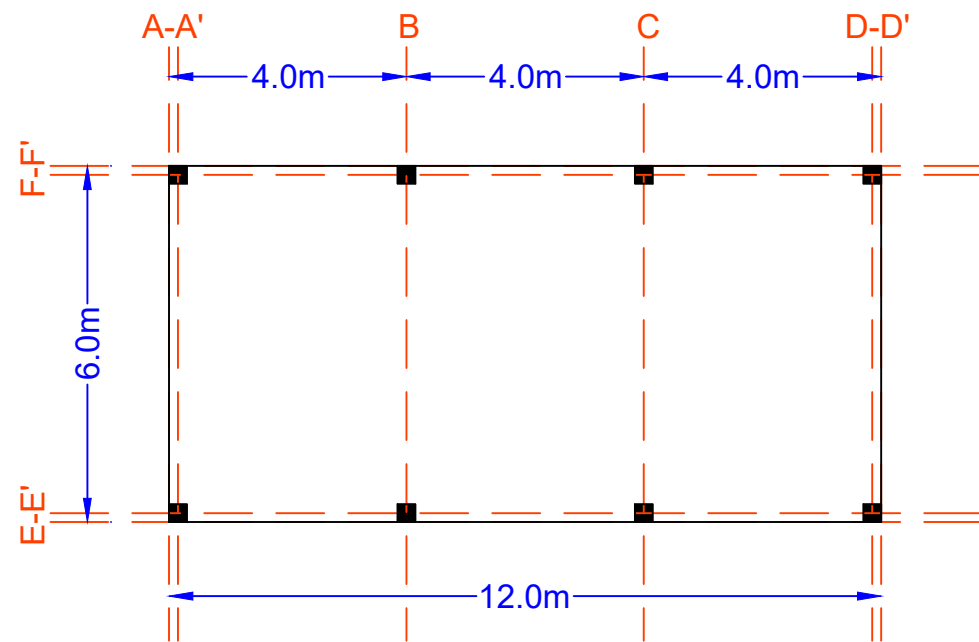
PROJECT: SOLID WASTE MANAGMENT

DR.NO. SWM/NPT/009

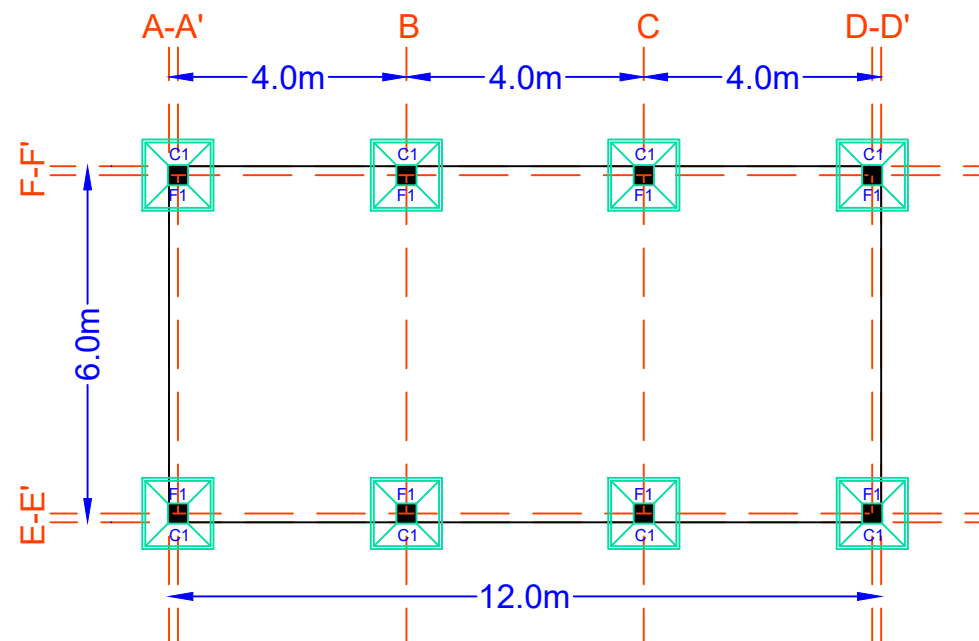
SCALE- 1:20

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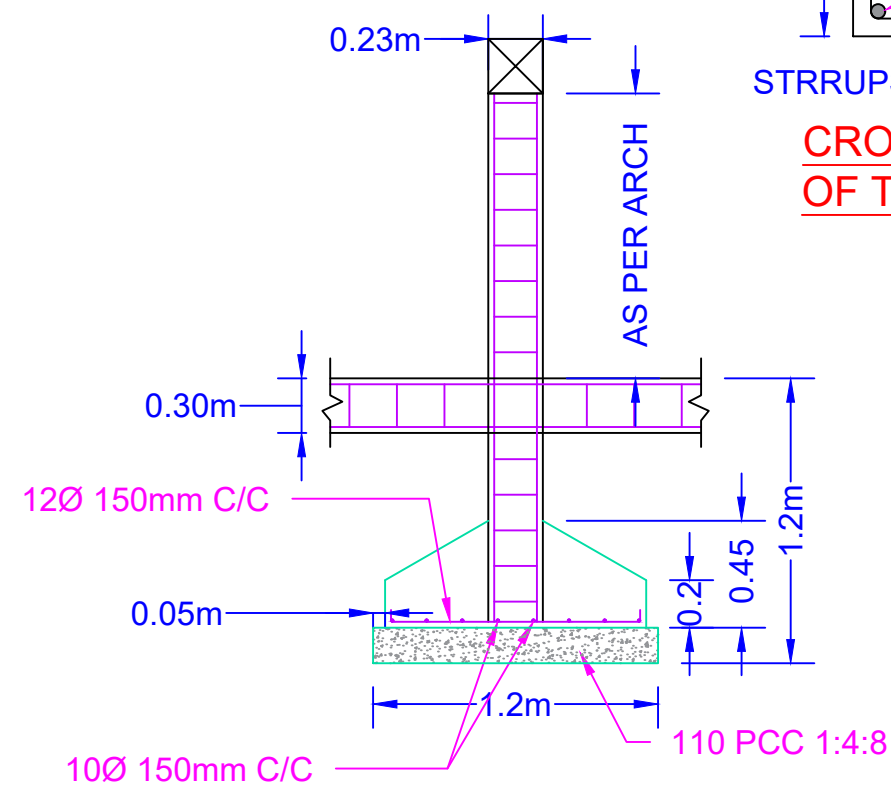
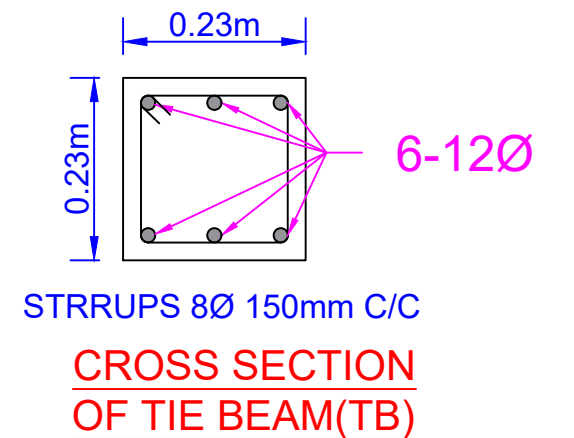
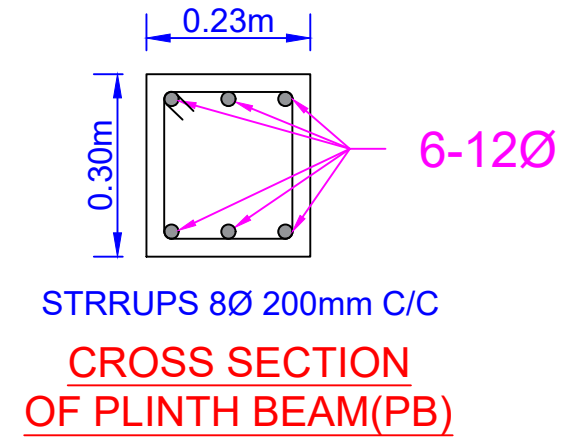
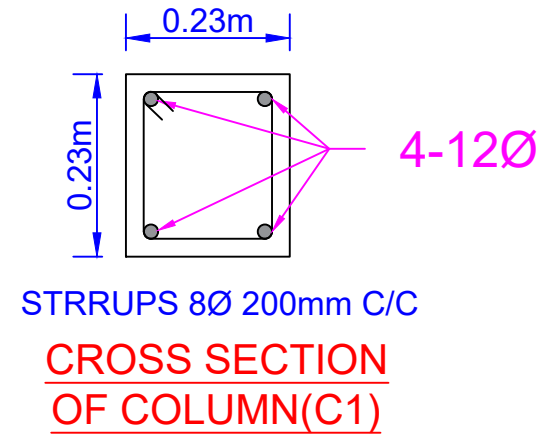
FOR DPR APPROVAL ONLY



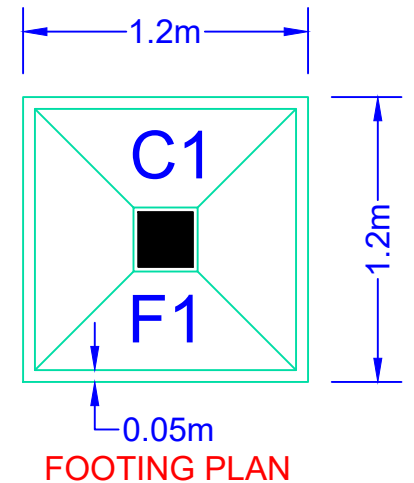
PLAN



FOOTING PLAN



C/S OF ISOLATED FOOTING PLAN



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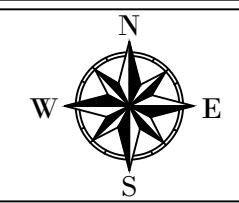
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CLIENT: NAGAR PANCHAYAT KOTDWAR

TITLE: PARKING SHED DETIALS

PROJECT DESIGN CONSULTANT



NOTE: ALL DIMENSION ARE IN METER.

PLOT NO.3716/4831, Sasan Padia, Old Town, Bhubaneshwar, Odisa- 751002

PROJECT: SOLID WASTE MANAGMENT

DR.NO. SWM/NPT/010

SCALE- 1:20

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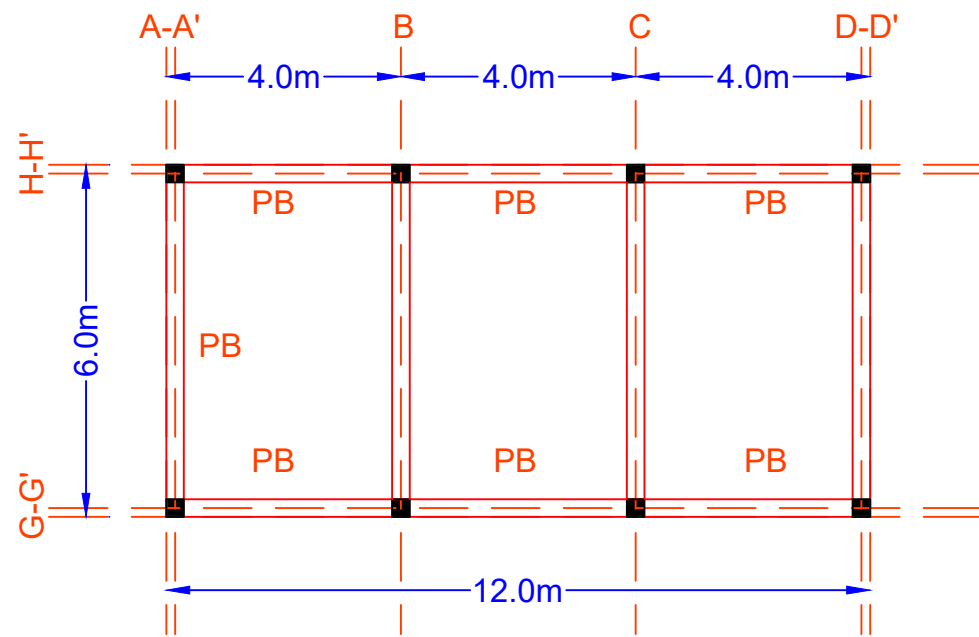
DETAIL OF TRUSS MEMBERS

MEMBER	DIA.	LENGTH
A0-A11	50mmØ	7.000 m
B0-A10	50mmØ	5.800 m
A1-B0	50mmØ	1.000 m
A3-B1	50mmØ	0.800 m
A5-B2	50mmØ	0.600 m
A7-B3	50mmØ	0.400 m
A9-B4	50mmØ	0.200 m
A2-B0	50mmØ	1.076 m
A2-B1	50mmØ	1.076 m
A4-B1	50mmØ	0.915 m
A4-B2	50mmØ	0.915 m
A6-B2	50mmØ	0.772 m
A6-B3	50mmØ	0.772 m
A8-B3	50mmØ	0.661 m
A8-B4	50mmØ	0.661 m

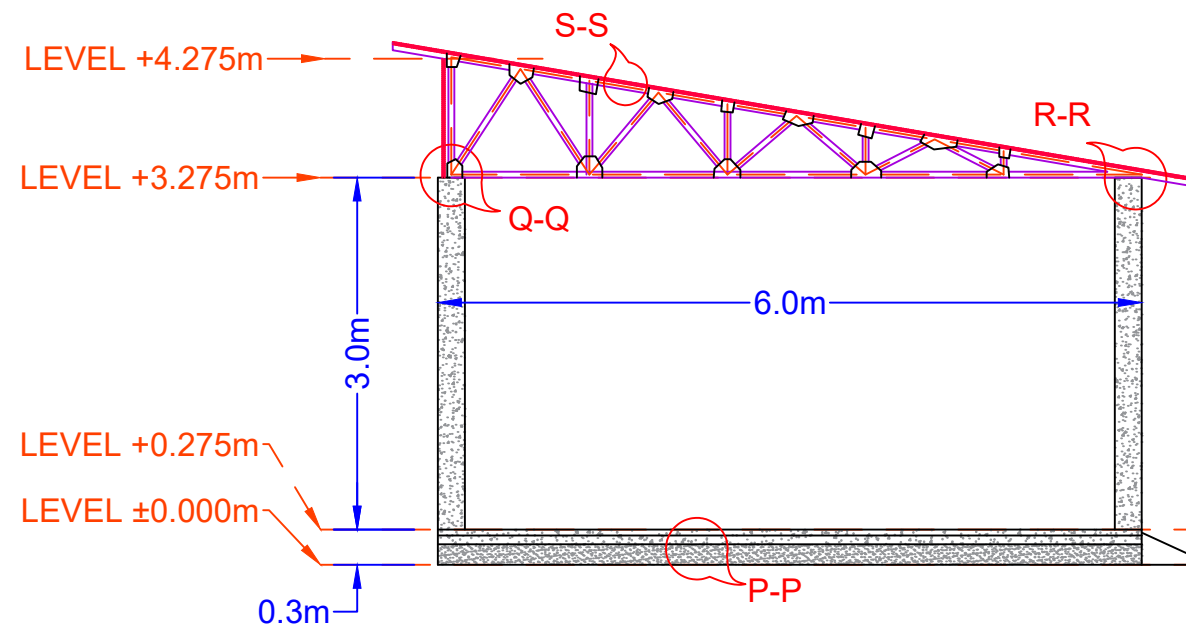
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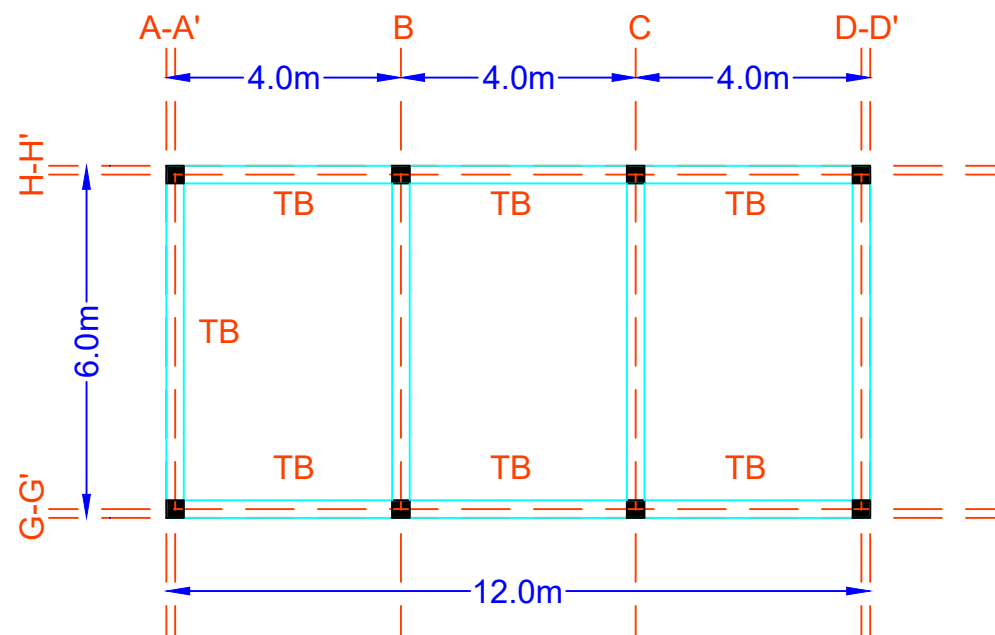
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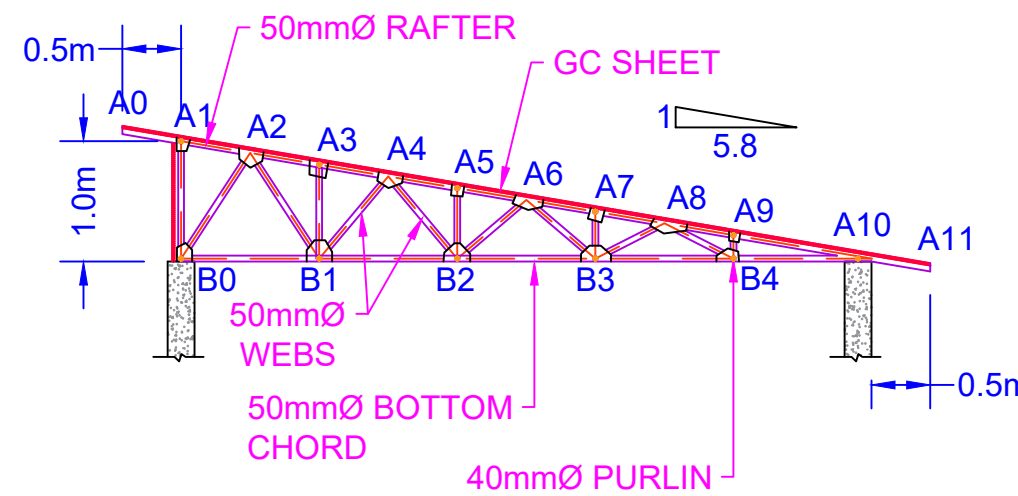
PLINTH BEAM PLAN



SIDE ELEVATION



TIE BEAM PLAN

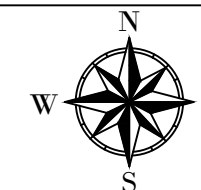


TRUSS DETAIL

CLIENT: NAGAR PANCHAYAT
KOTDWAR

TITLE: PARKING SHED DETIALS

PROJECT DESIGN
CONSULTANT



NOTE: ALL DIMENSION ARE
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PLOT
NO.3716/4831,
Sasan Padia, Old Town,
Bhubaneshwar,
Odisha- 751002

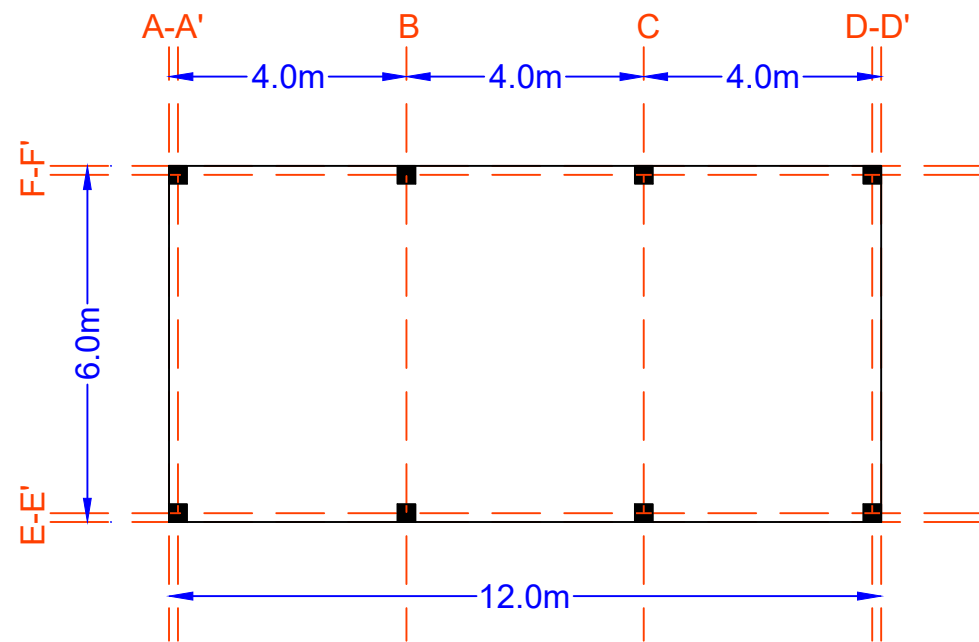
PROJECT: SOLID WASTE MANAGMENT

DR.NO. SWM/NPT/011

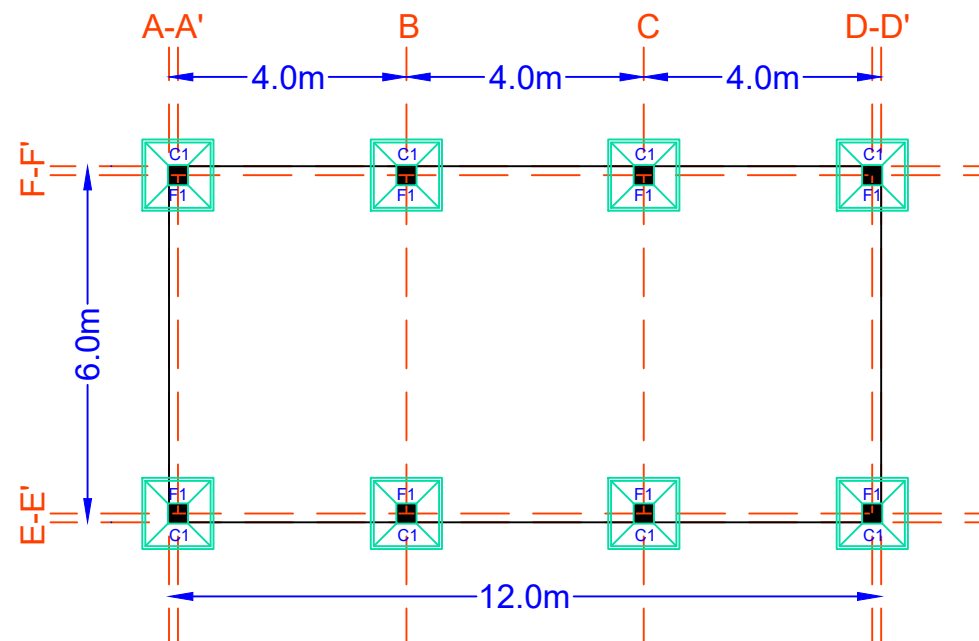
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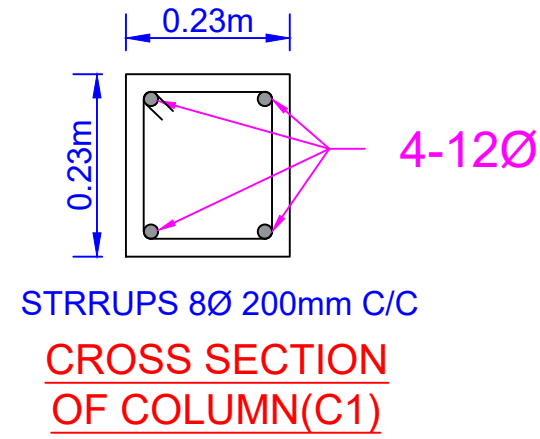
FOR DPR APPROVAL ONLY



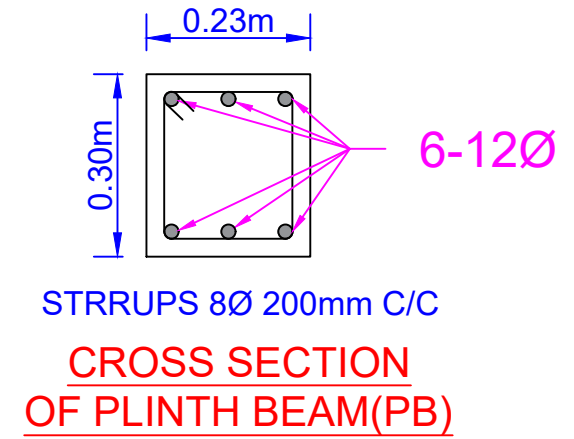
PLAN



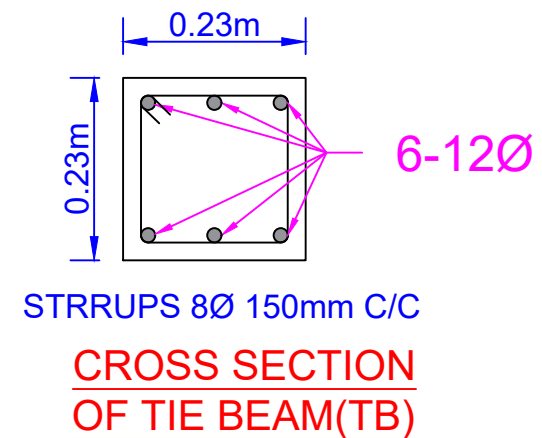
FOOTING PLAN



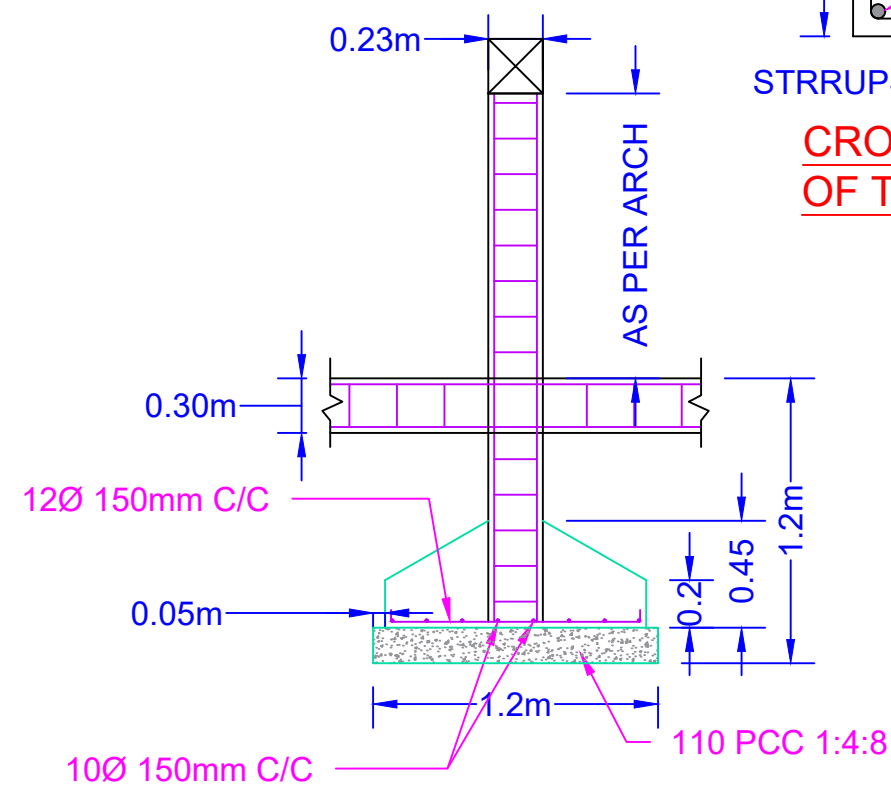
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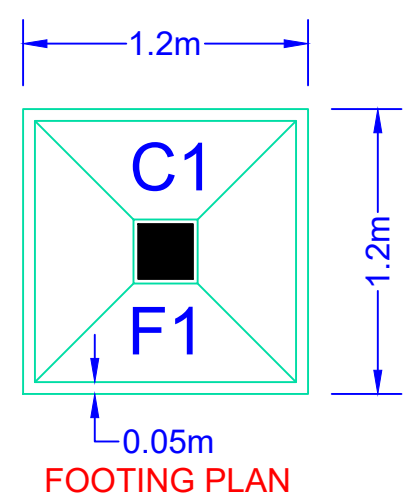
CROSS SECTION OF PLINTH BEAM (PB)



CROSS SECTION OF TIE BEAM (TB)



C/S OF ISOLATED FOOTING PLAN



FOOTING PLAN

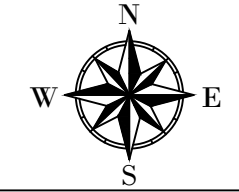
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CLIENT: NAGAR PANCHAYAT KOTDWAR

TITLE: STORAGE SHED DETAILS

PROJECT DESIGN CONSULTANT



NOTE: ALL DIMENSION ARE IN METER.

PLOT NO.3716/4831, Sasan Padia, Old Town, Bhubaneshwar, Odisa- 751002

PROJECT: SOLID WASTE MANAGMENT

DR.NO. SWM/NPT/012

SCALE- 1:20

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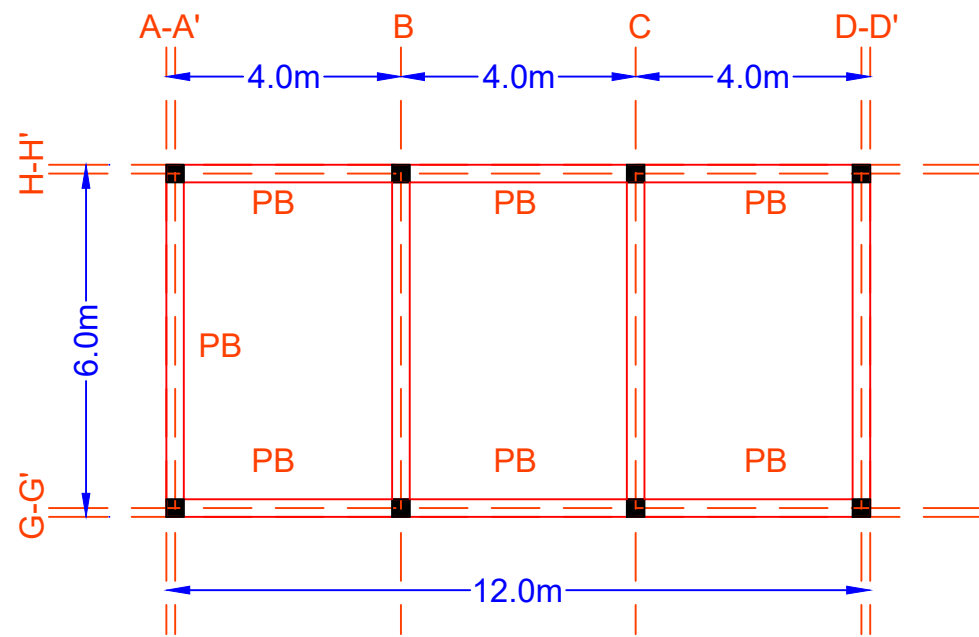
DETAIL OF TRUSS MEMBERS

MEMBER	DIA.	LENGTH
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B0-A10	50mmØ	5.800 m
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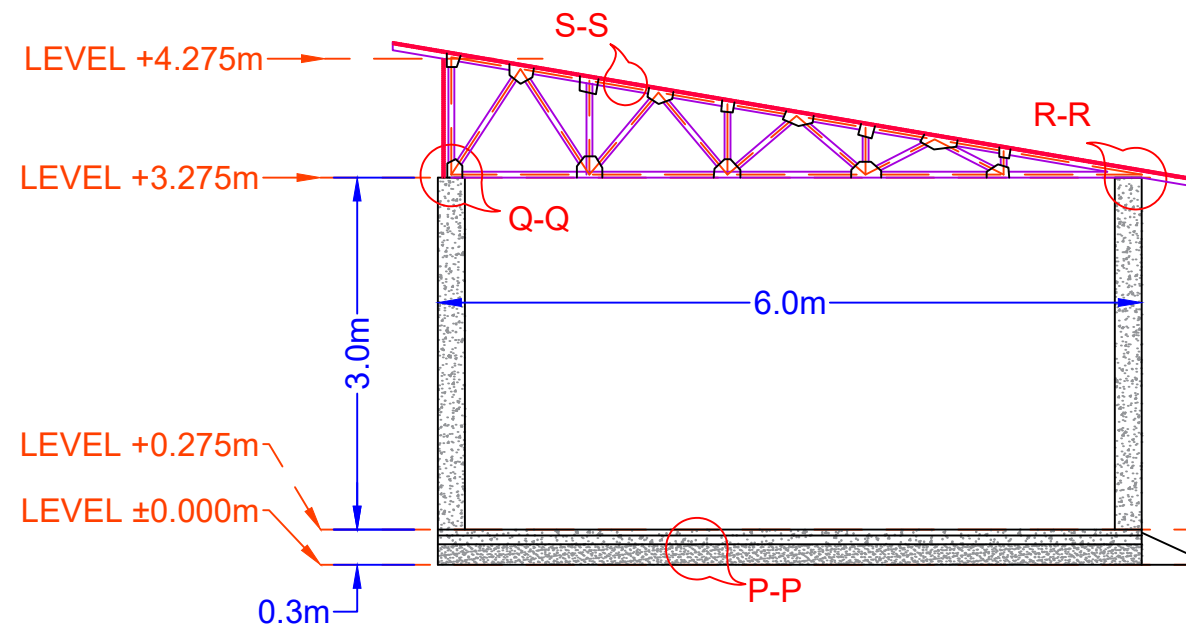
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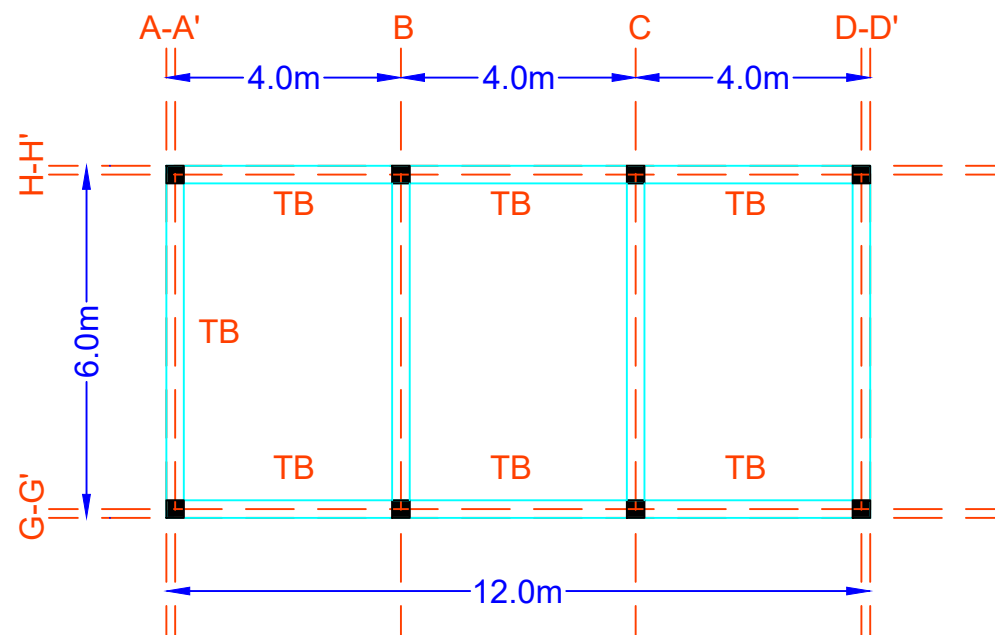
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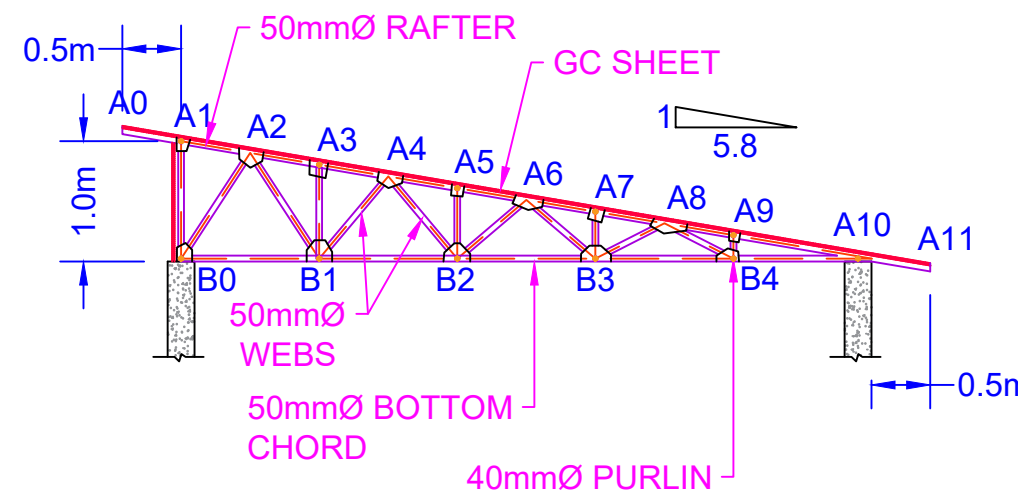
PLINTH BEAM PLAN



SIDE ELEVATION



TIE BEAM PLAN

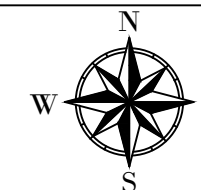


TRUSS DETAIL

CLIENT: NAGAR PANCHAYAT
KOTDWAR

TITLE: STORAGE SHED DETAILS

PROJECT DESIGN
CONSULTANT



NOTE: ALL DIMENSION ARE
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PLOT
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Bhubaneshwar,
Odisha- 751002

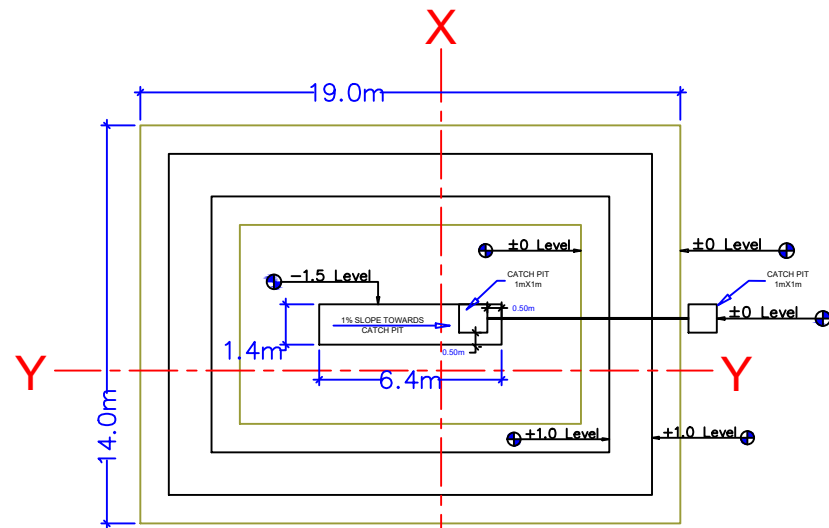
PROJECT: SOLID WASTE MANAGMENT

DR.NO. SWM/NPT/013

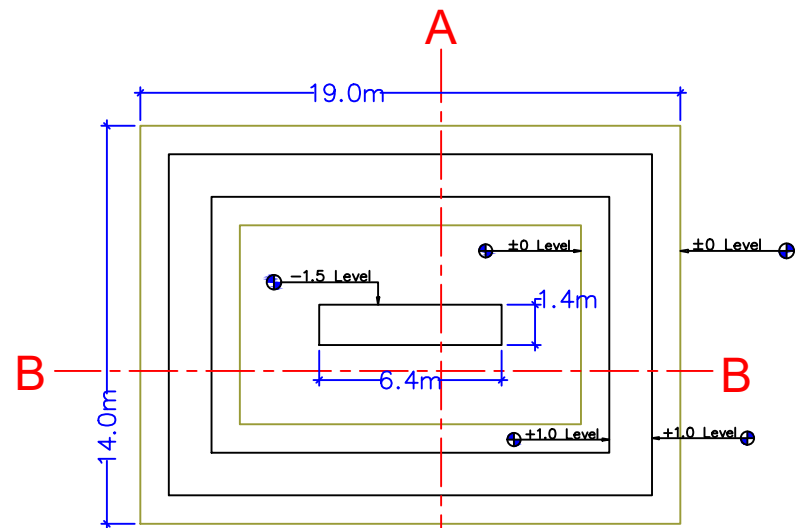
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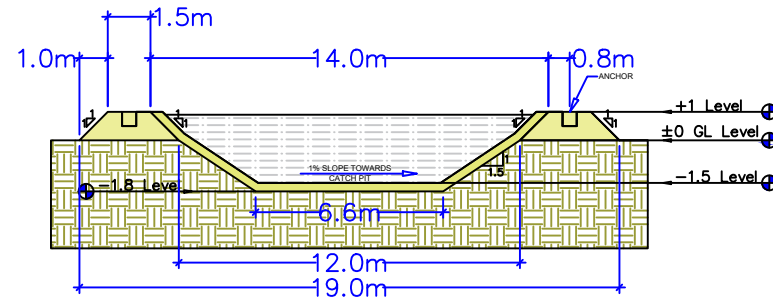
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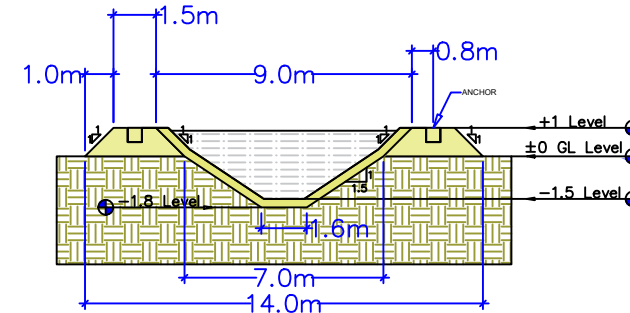
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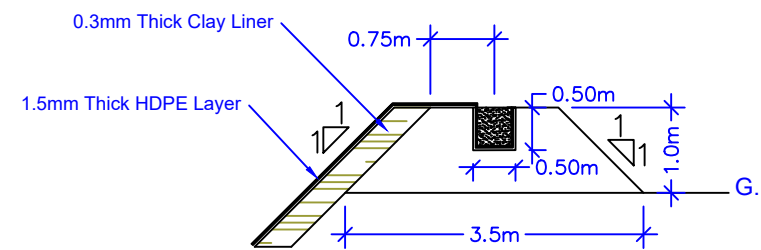
RAIN WATER COLLECTION POND



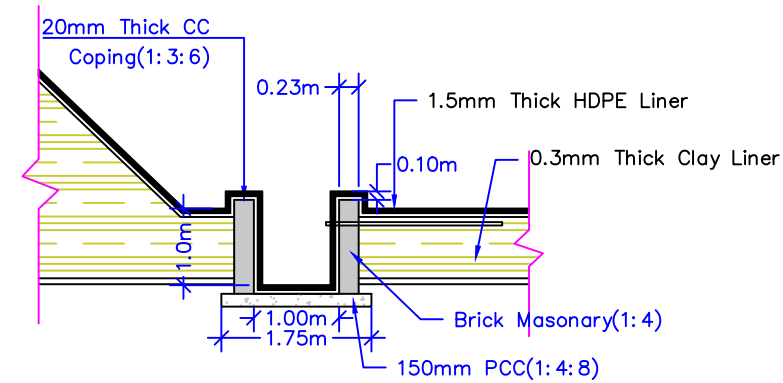
SECTION Y-Y



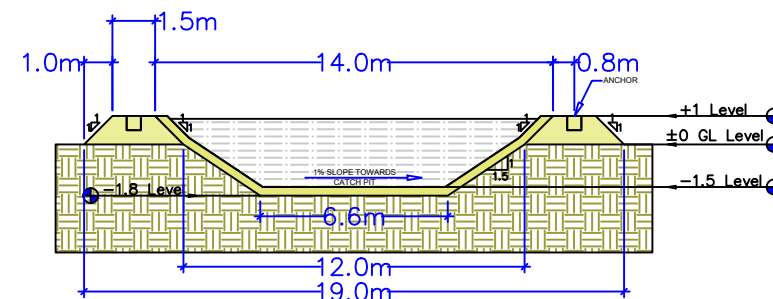
SECTION X-X



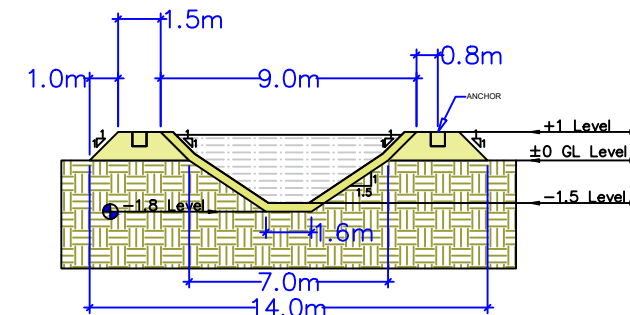
DETAIL-ANCHOR TRENCH



CATCH PIT CROSS SECTION



SECTION B-B



SECTION A-A

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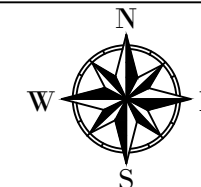
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CLIENT: NAGAR PANCHAYAT
KOTDWAR

TITLE: LEACHATE AND RAIN WATER POND DETAILS

PROJECT DESIGN
CONSULTANT



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PLOT
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Odisha- 751002

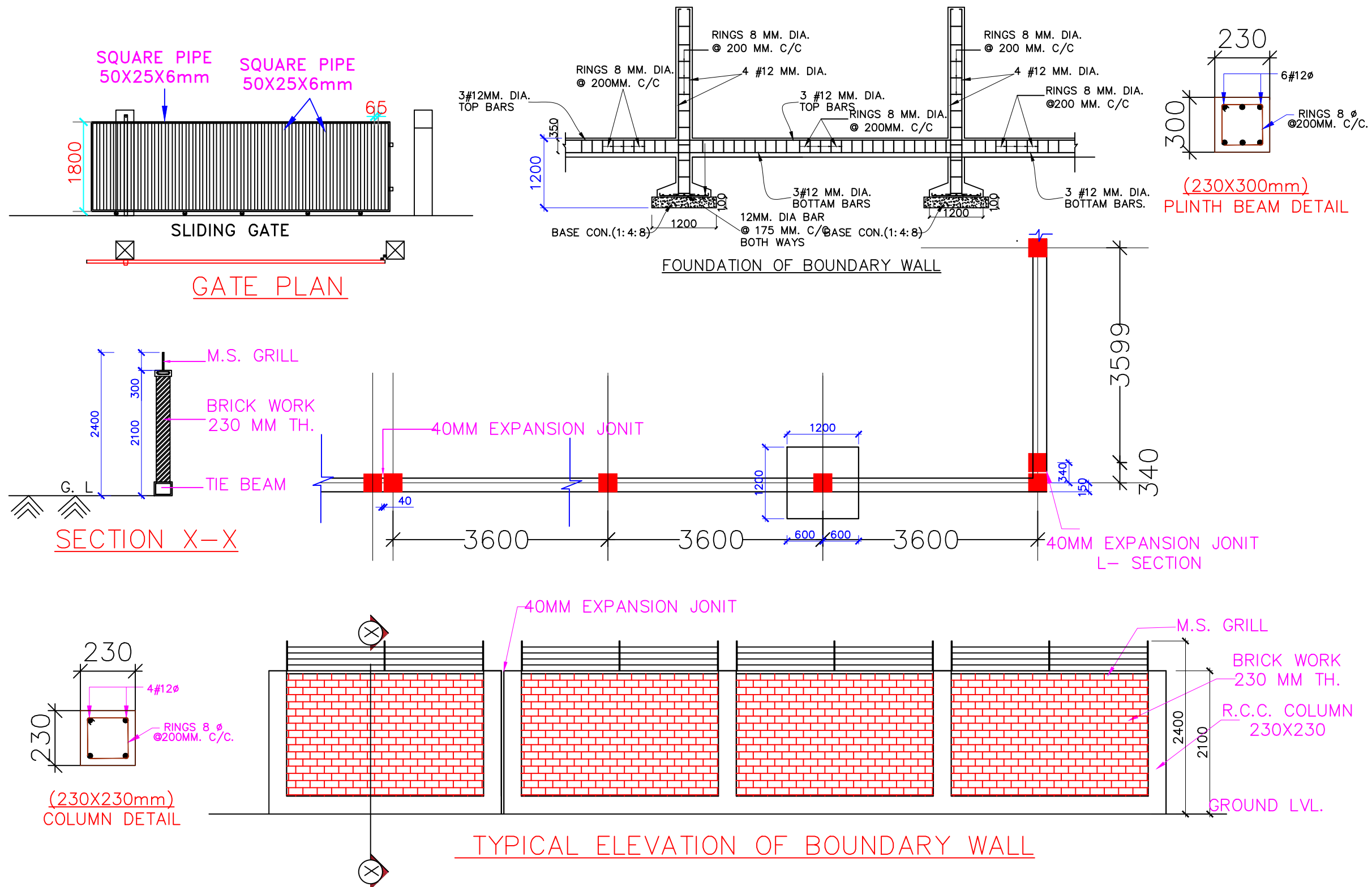
PROJECT: SOLID WASTE MANAGMENT

DR.NO. SWM/NPT/014

SCALE- 1:20

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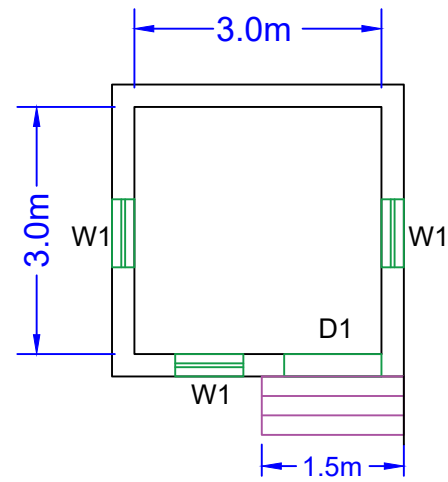
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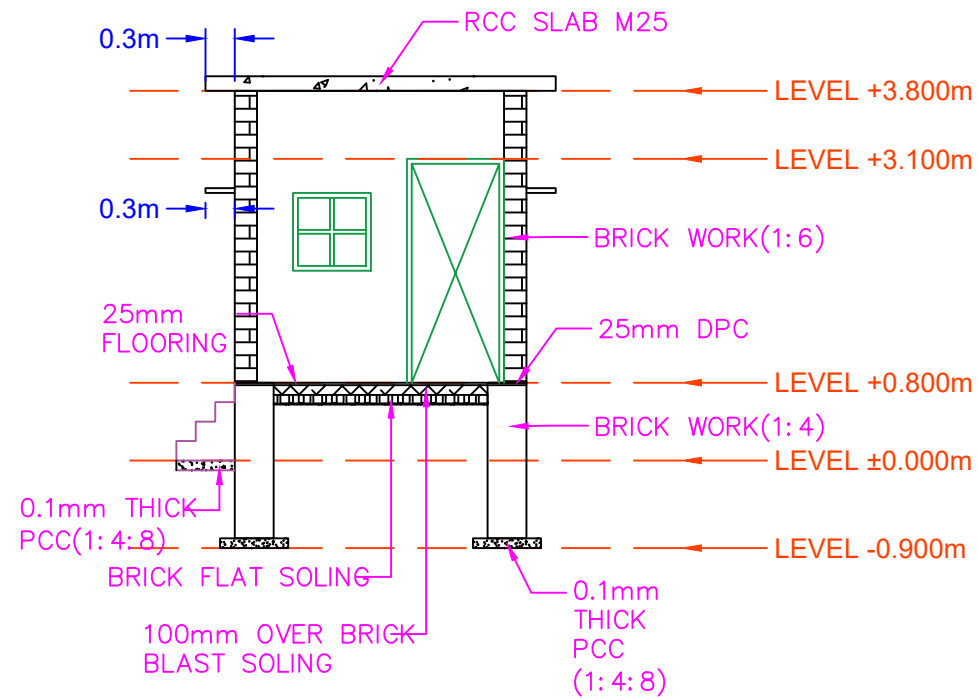
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4. THESE DRAWING DEVELOPED FOR PRELIMINARY STAGE DESIGN, ONLY FOR APPROVAL OF DPR.
5. SOIL TEST MUST BE DONE BEFORE STARTING PROJECT BY ANY AUTHORIZED AGENCY.

CLIENT: NAGAR PANCHAYAT KOTDWAR	TITLE: BOUNDARY WALL DETAILS	PROJECT DESIGN CONSULTANT		NOTE: ALL DIMENSION ARE IN METER.	PLOT NO.3716/4831, Sasan Padia, Old Town, Bhubaneshwar, Odisha- 751002
PROJECT: SOLID WASTE MANAGMENT	DR.NO. SWM/NPT/015	SCALE- 1:20			

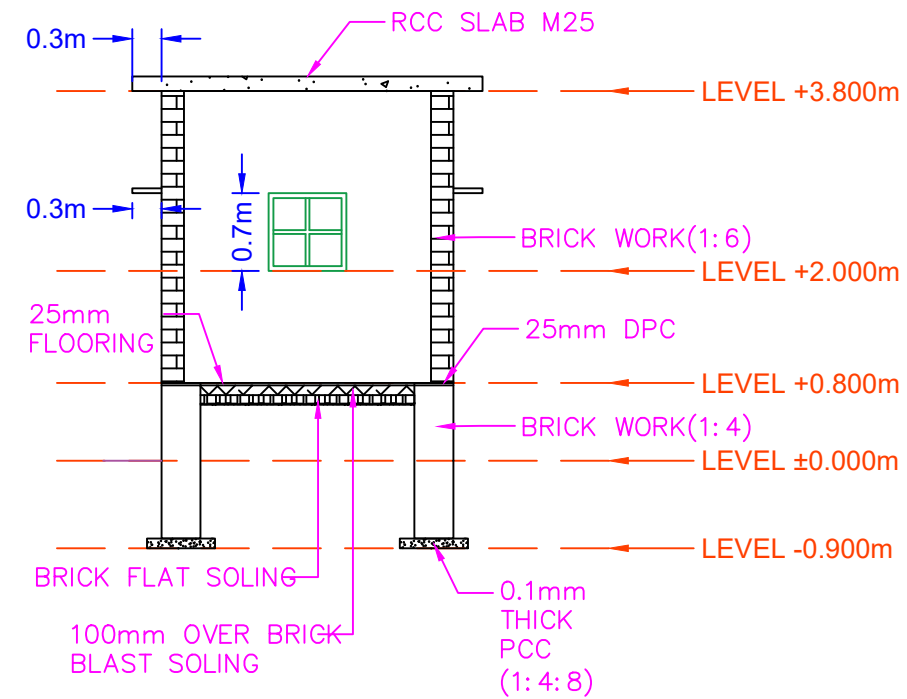
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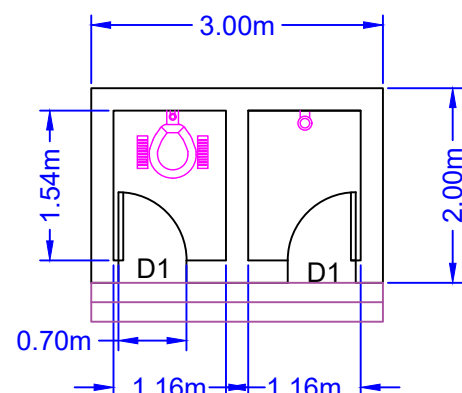
SECURITY ROOM PLAN



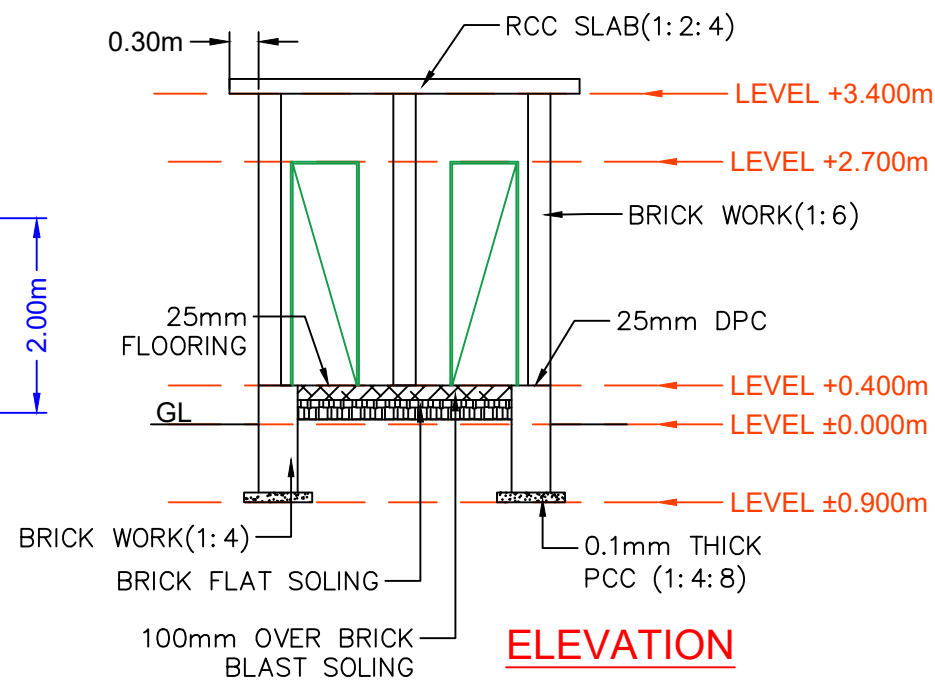
FRONT ELEVATION



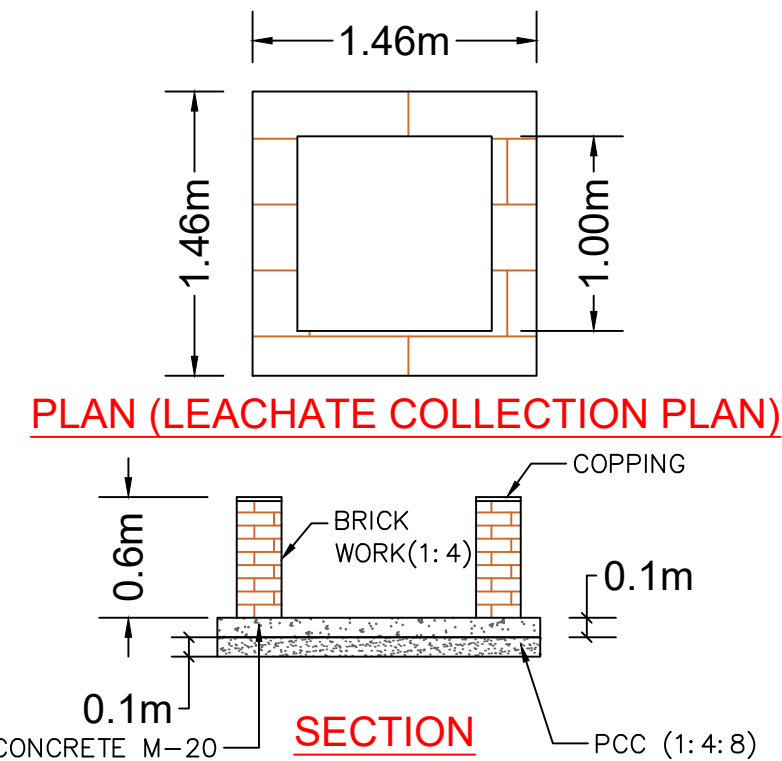
SIDE ELEVATION



TOILET PLAN



ELEVATION



PLAN (LEACHATE COLLECTION PLAN)

SECTION

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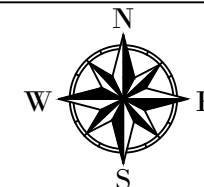
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CLIENT: NAGAR PANCHAYAT KOTDWAR

TITLE: SECURITY & TOILET ROOM DETAILS

PROJECT DESIGN CONSULTANT



NOTE: ALL DIMENSION ARE IN METER.

PLOT NO.3716/4831, Sasan Padia, Old Town, Bhubaneshwar, Odisa- 751002

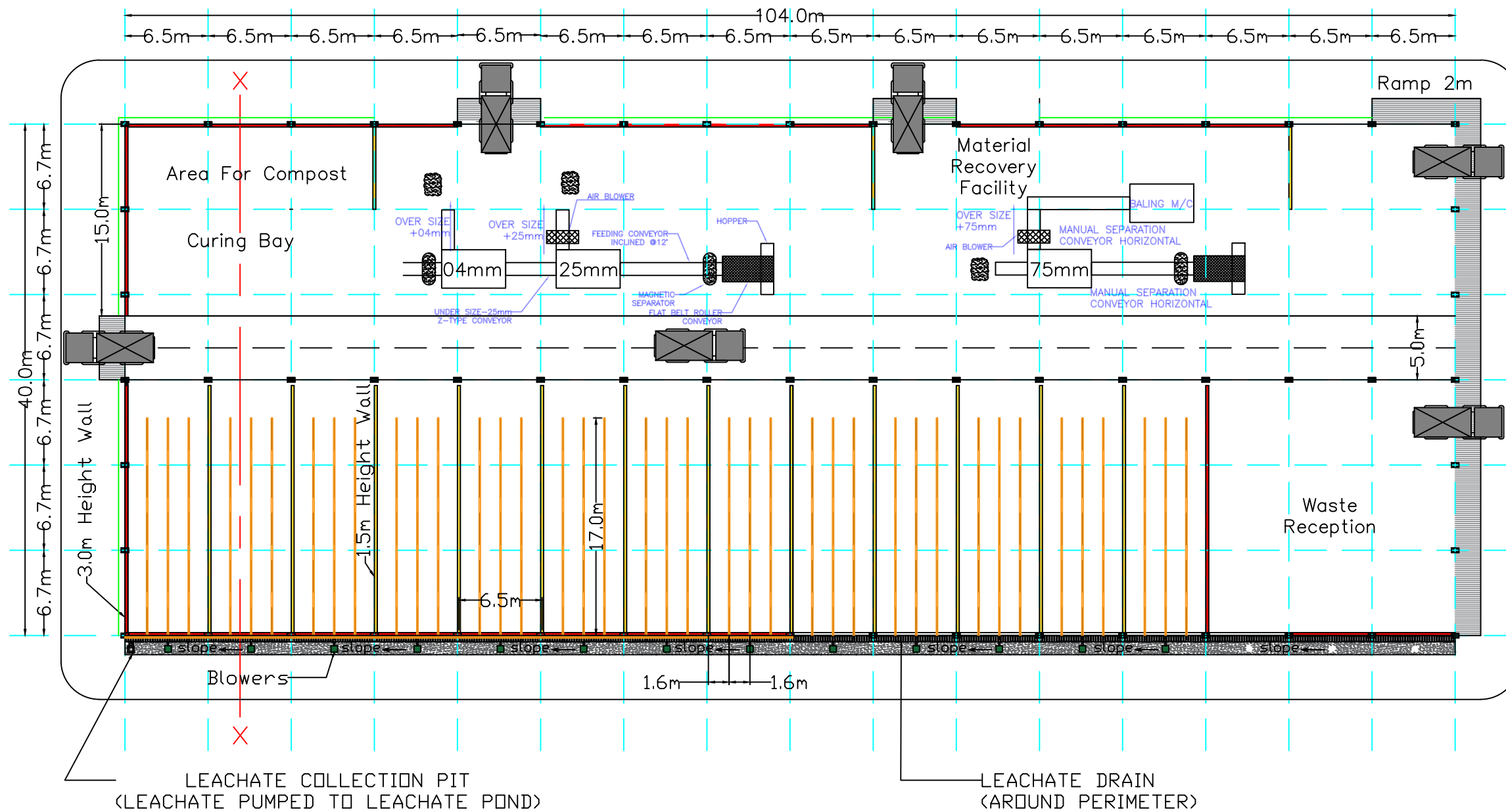
PROJECT: SOLID WASTE MANAGMENT

DR.NO. SWM/NPT/016

SCALE- 1:20

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PROCESSING SHED FLOOR PLAN

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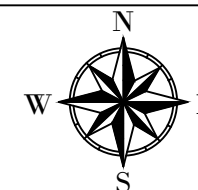
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CLIENT: NAGAR PANCHAYAT
KOTDWAR

TITLE: PROCESSING SHED PLAN

PROJECT DESIGN
CONSULTANT



NOTE: ALL DIMENSION ARE
IN METER.

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NO.3716/4831,
Sasan Padia, Old Town,
Bhubaneshwar,
Odisha- 751002

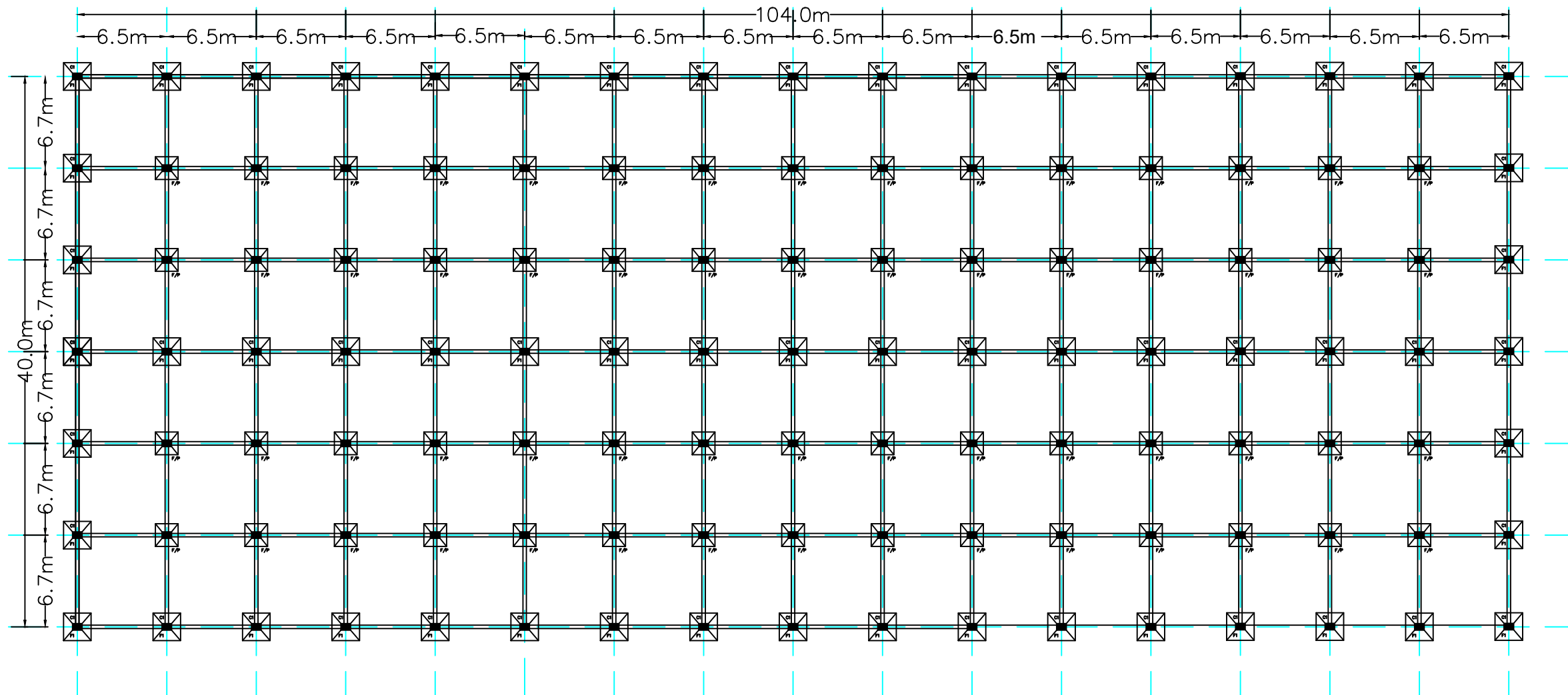
PROJECT: SOLID WASTE MANAGMENT

DR.NO. SWM/NPT/017

SCALE- 1:20

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PROCESSING SHED FOOTING PLAN

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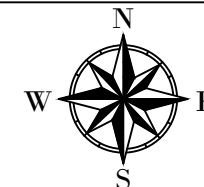
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CLIENT: NAGAR PANCHAYAT
KOTDWAR

TITLE: PROCESSING SHED FOOTING PLAN

PROJECT DESIGN
CONSULTANT



NOTE: ALL DIMENSION ARE
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PLOT
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Sasan Padia, Old Town,
Bhubaneshwar,
Odisha- 751002

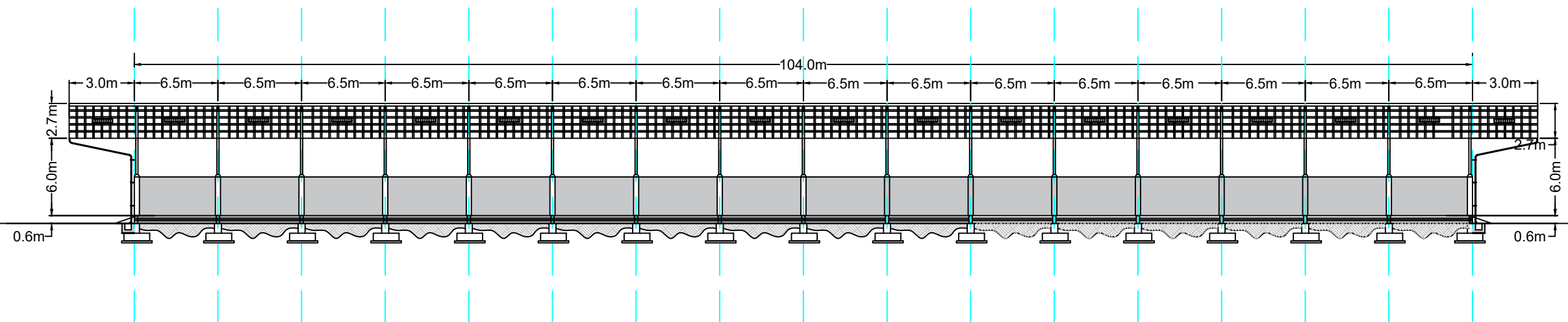
PROJECT: SOLID WASTE MANAGMENT

DR.NO. SWM/NPT/018

SCALE- 1:20

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SIDE ELEVATION

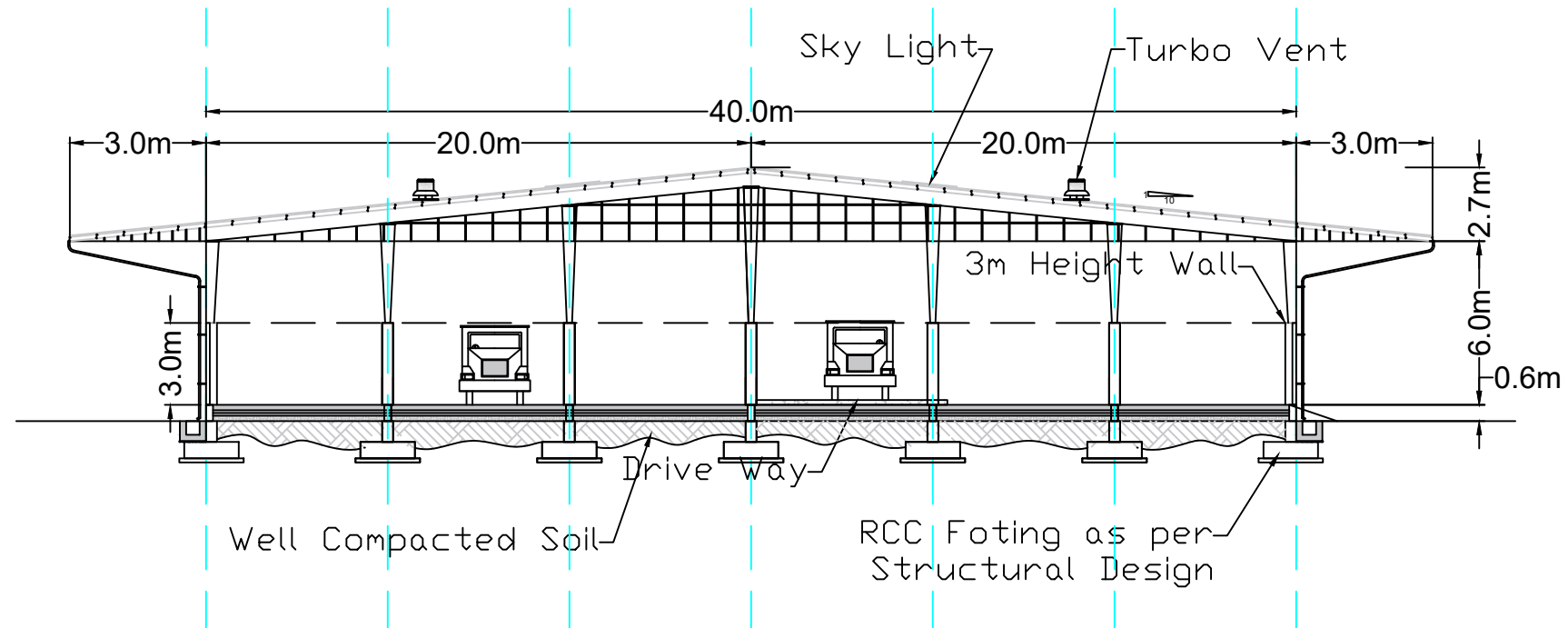
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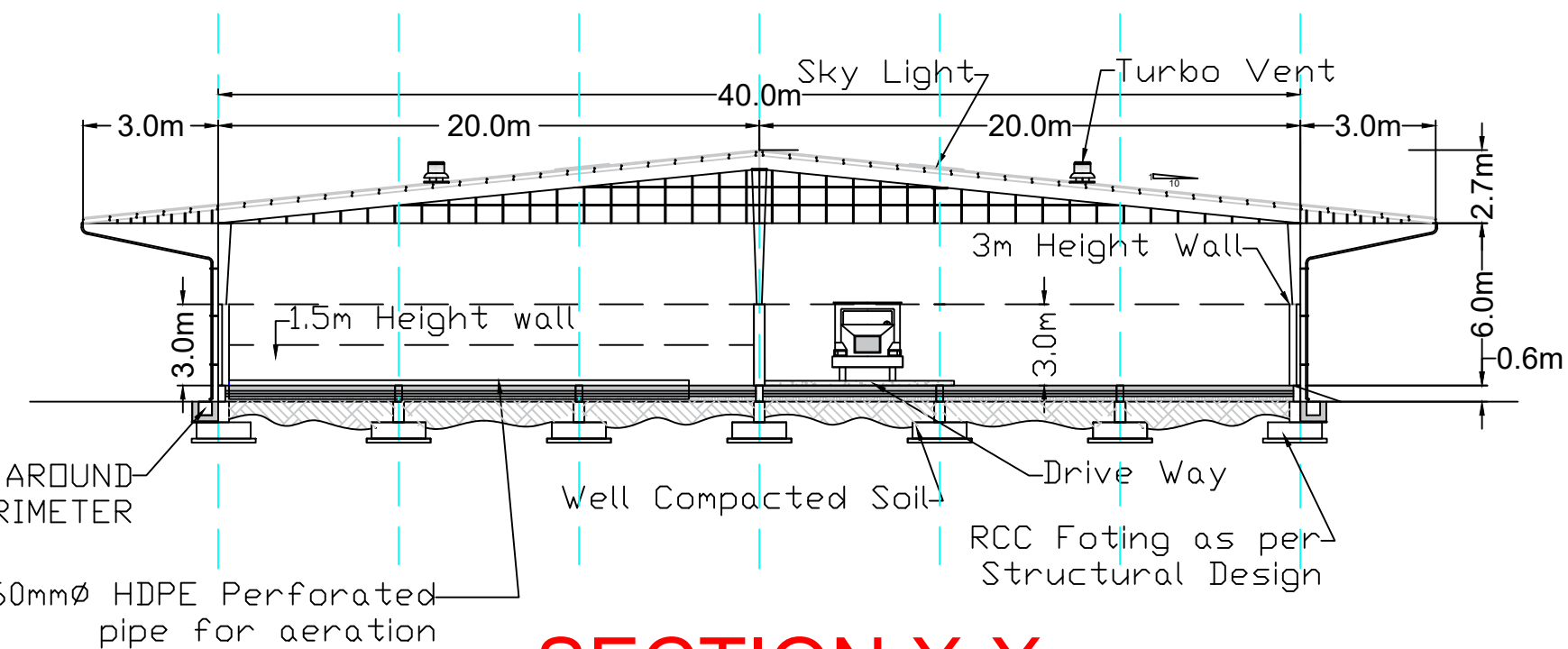
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CLIENT: NAGAR PANCHAYAT KOTDWAR	TITLE: PROCESSING SHED ELEVATION	PROJECT DESIGN CONSULTANT		NOTE: ALL DIMENSION ARE IN METER.	PLOT NO.3716/4831, Sasan Padia, Old Town, Bhubaneshwar, Odisha- 751002
PROJECT: SOLID WASTE MANAGMENT	DR.NO. SWM/NPT/019	SCALE- 1:20			

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FRONT ELEVATION



SECTION X-X

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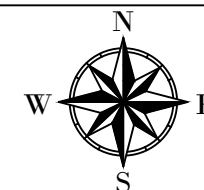
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CLIENT: NAGAR PANCHAYAT
KOTDWAR

TITLE: PROCESSING SHED ELEVATION

PROJECT DESIGN
CONSULTANT



NOTE: ALL DIMENSION ARE
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Bhubaneshwar,
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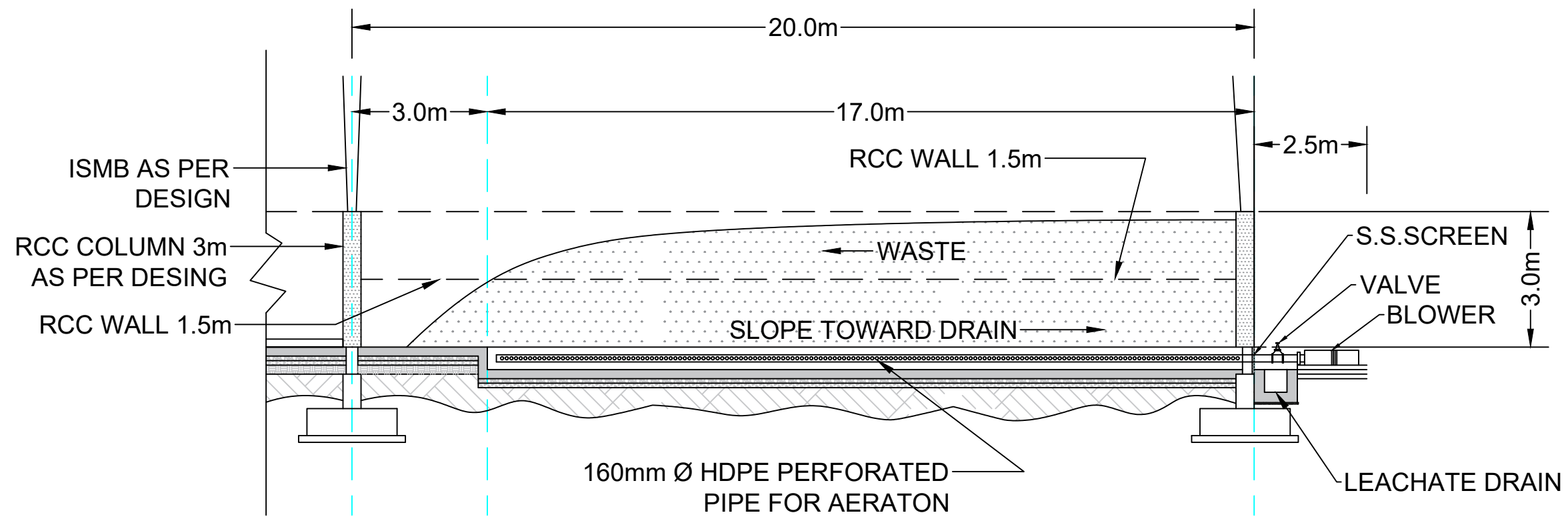
PROJECT: SOLID WASTE MANAGMENT

DR.NO. SWM/NPT/020

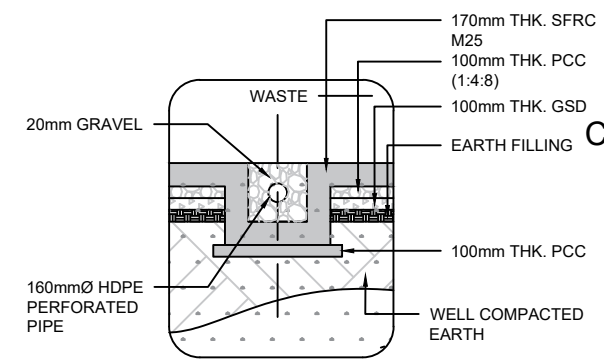
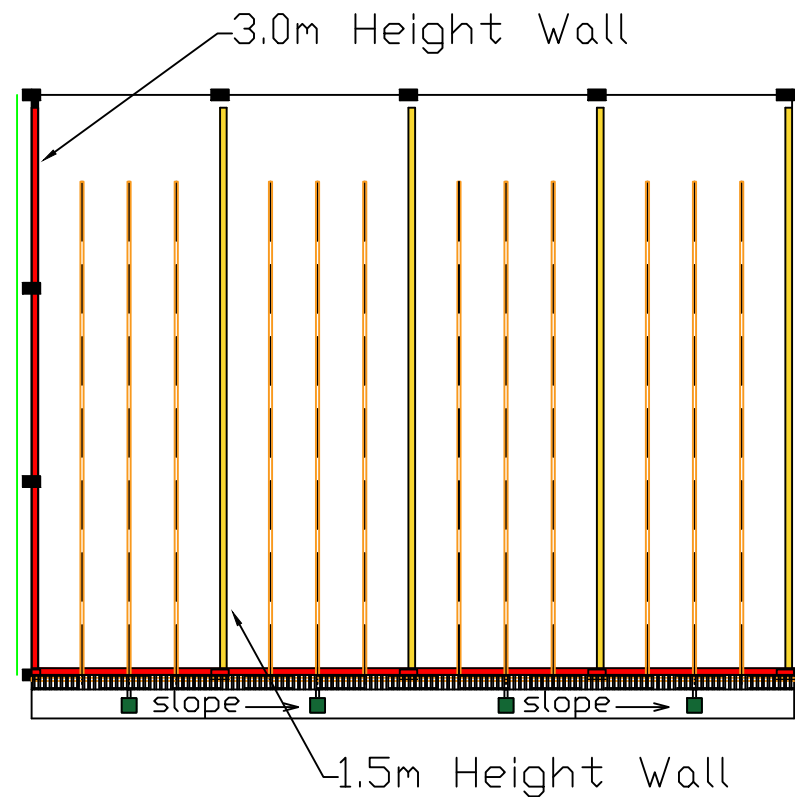
SCALE- 1:20

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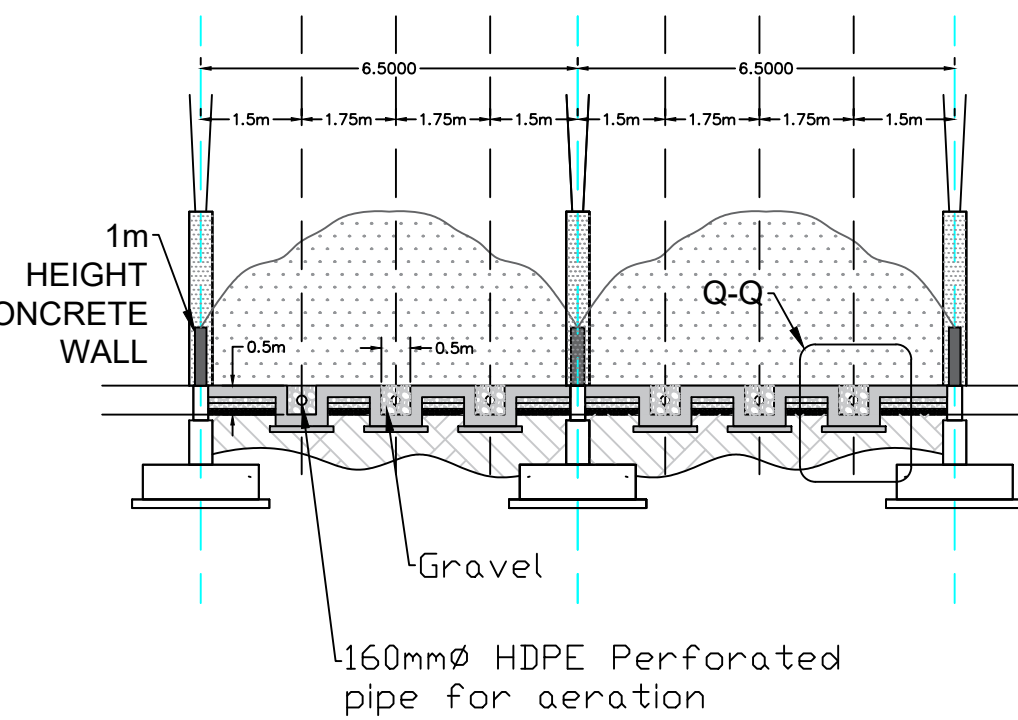
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SECTION Y



SECTION Q-Q



SECTION X

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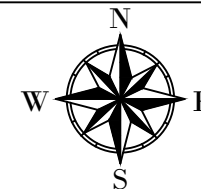
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CLIENT: NAGAR PANCHAYAT KOTDWAR

TITLE: COMPOSTING SECTION DETAIL

PROJECT DESIGN CONSULTANT



NOTE: ALL DIMENSION ARE IN METER.

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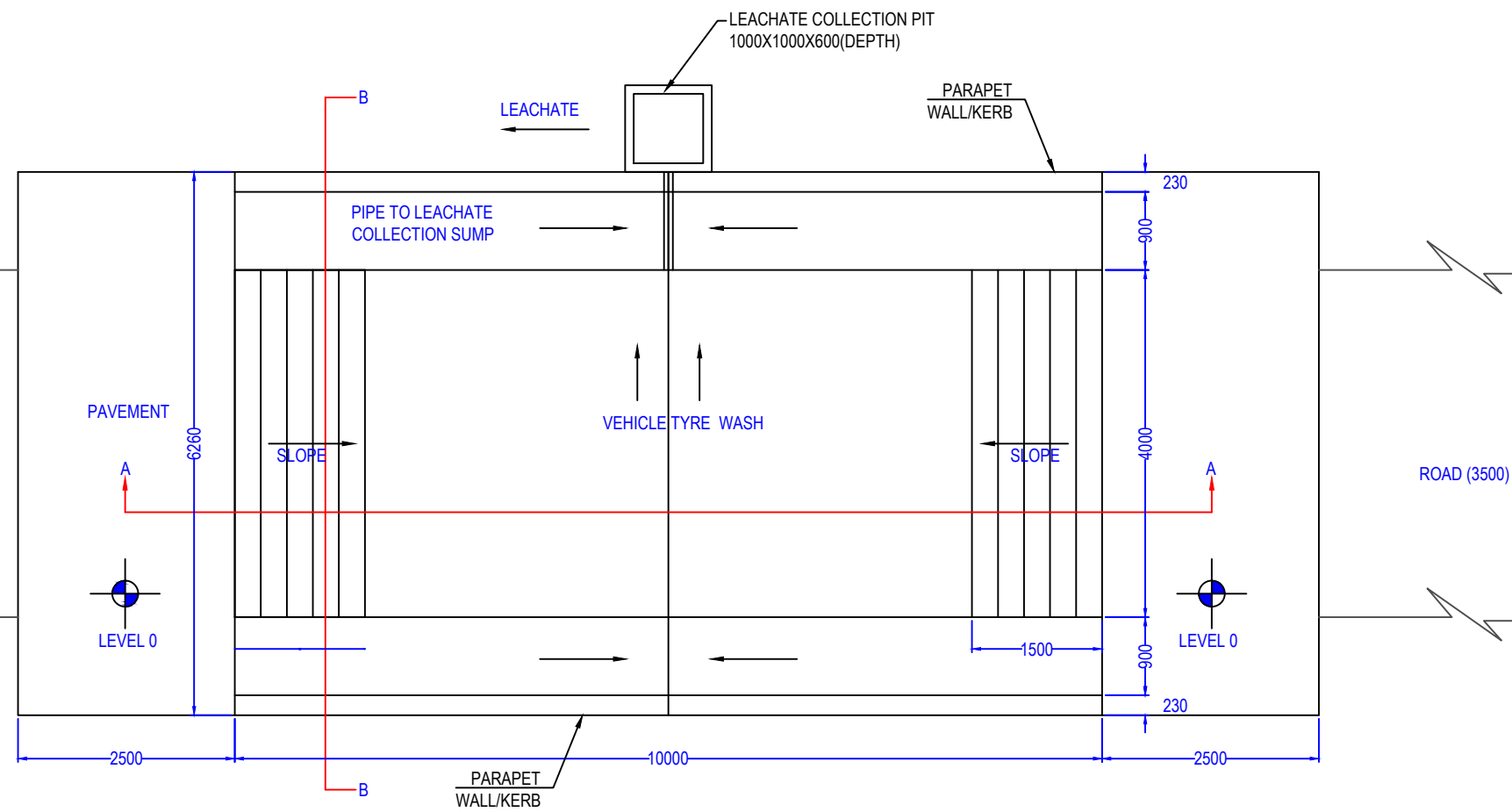
PROJECT: SOLID WASTE MANAGMENT

DR.NO. SWM/NPT/021

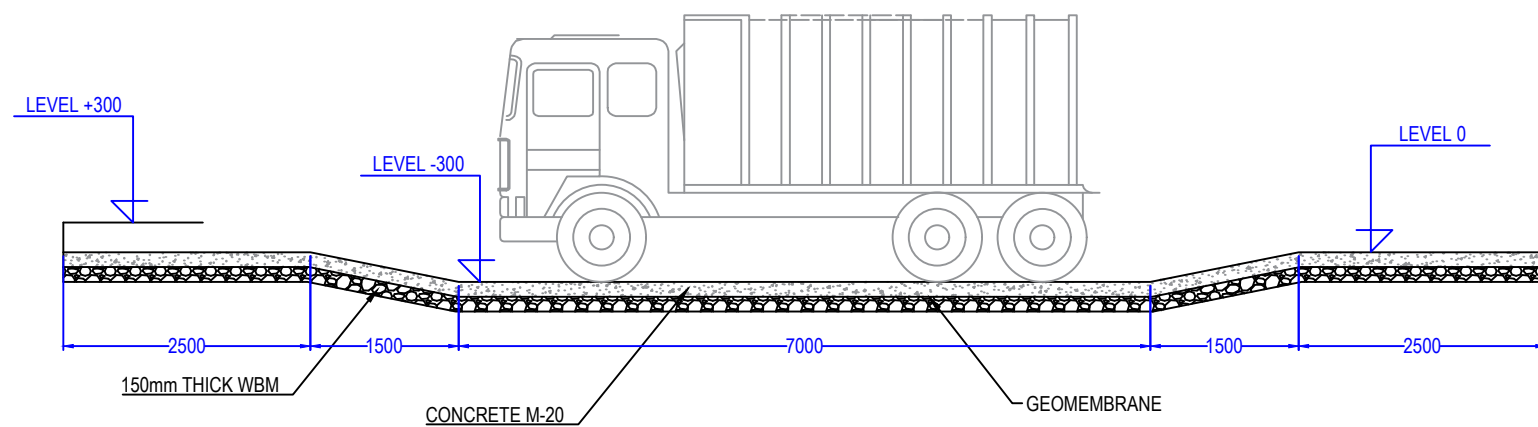
SCALE- 1:20

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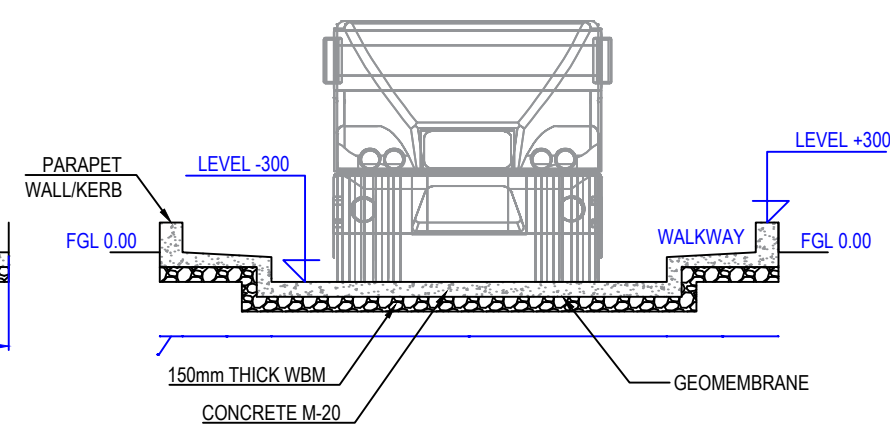
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PLAN



SECTION A-A



SECTION B-B

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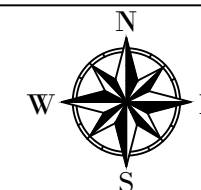
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CLIENT: NAGAR PANCHAYAT
KOTDWAR

TITLE: VEHICLE WASING FACILITY

PROJECT DESIGN
CONSULTANT



NOTE: ALL DIMENSION ARE
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PLOT
NO.3716/4831,
Sasan Padia, Old Town,
Bhubaneshwar,
Odisha- 751002

PROJECT: SOLID WASTE MANAGMENT

DR.NO. SWM/NPT/022

SCALE- 1:20

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