Initial Environmental Examination

Document stage: Draft Project number: 49329-006

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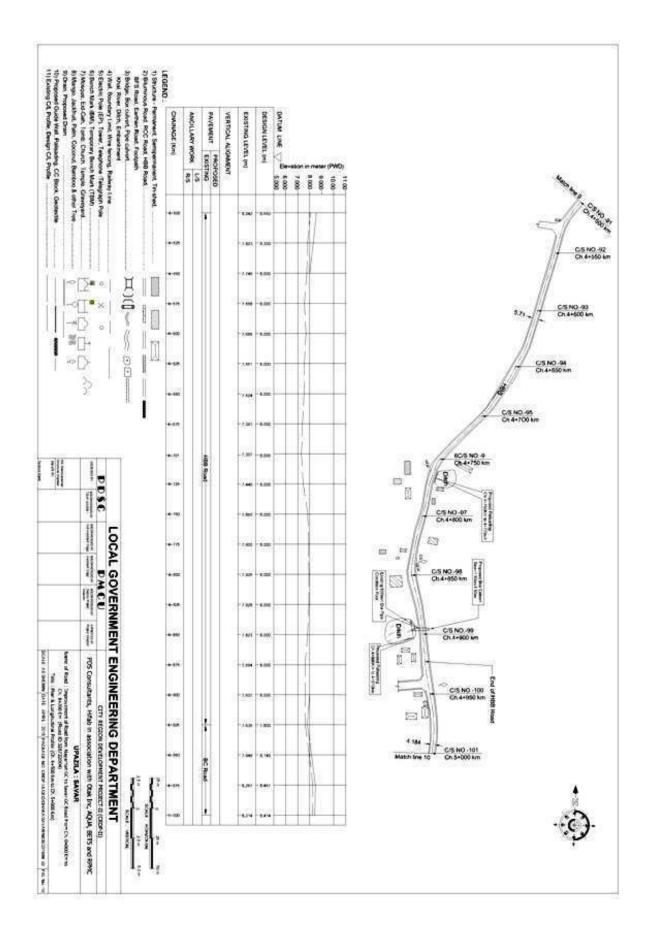
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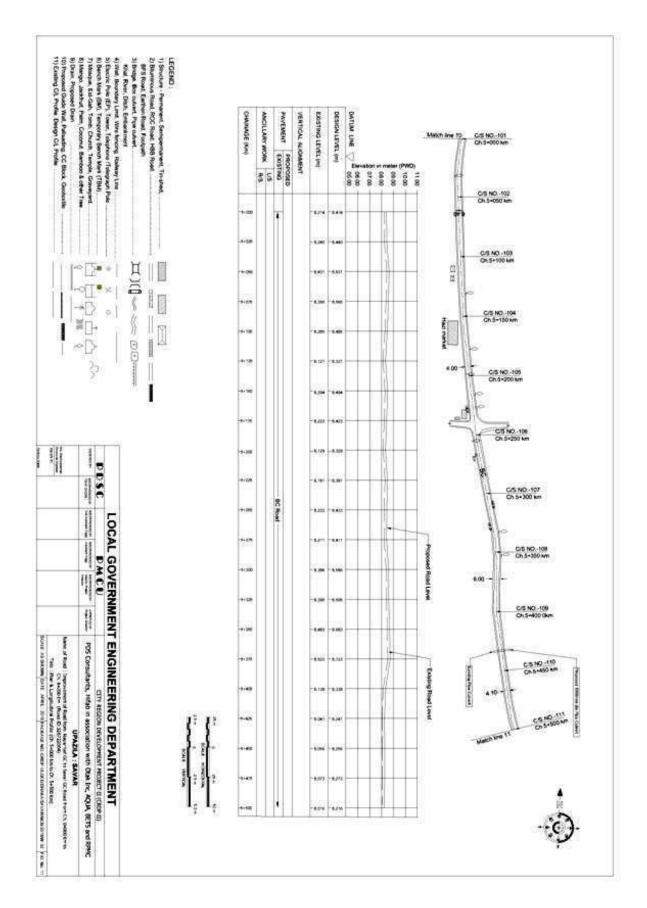
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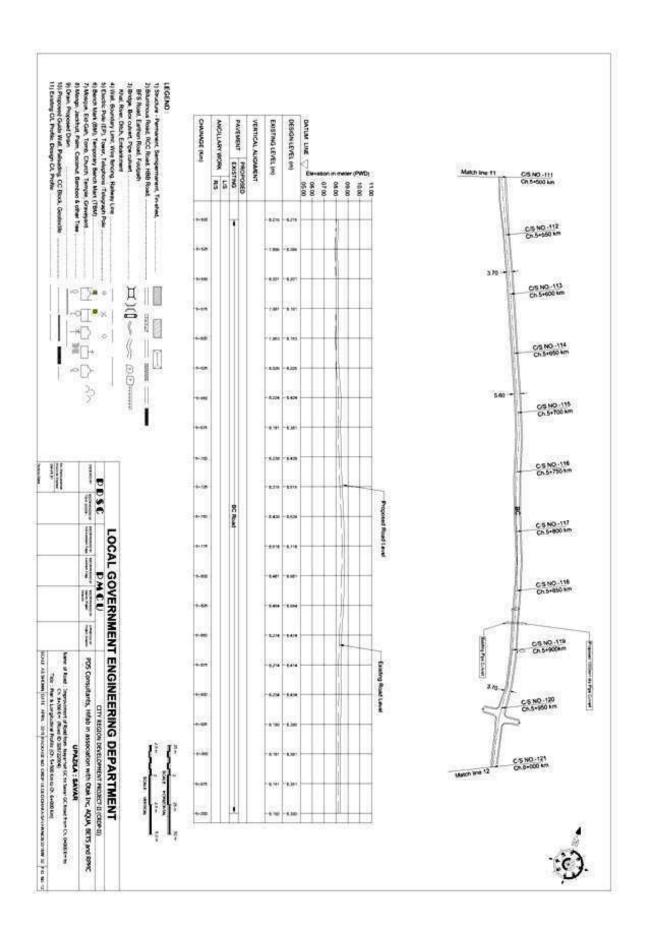
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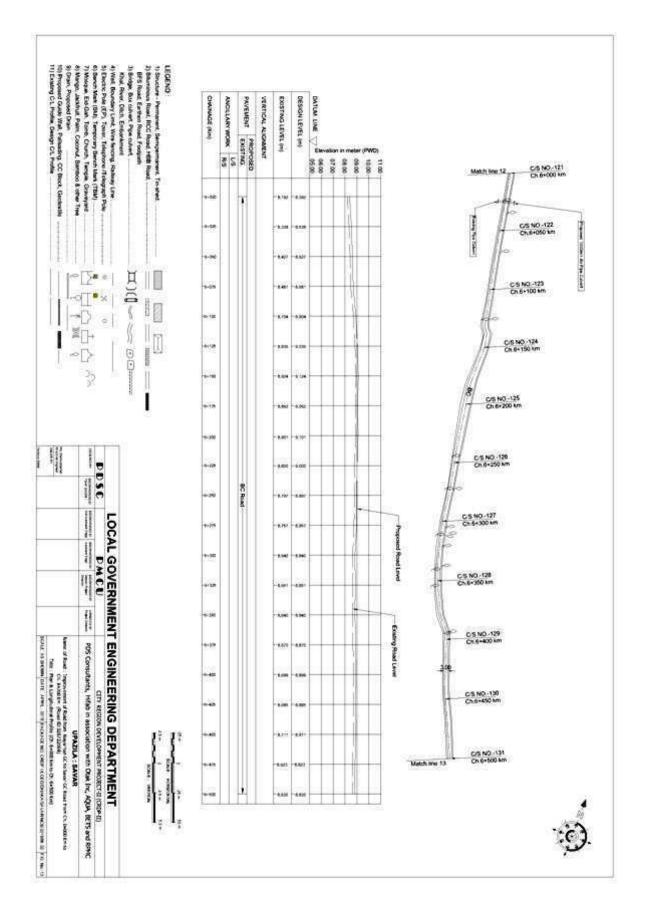
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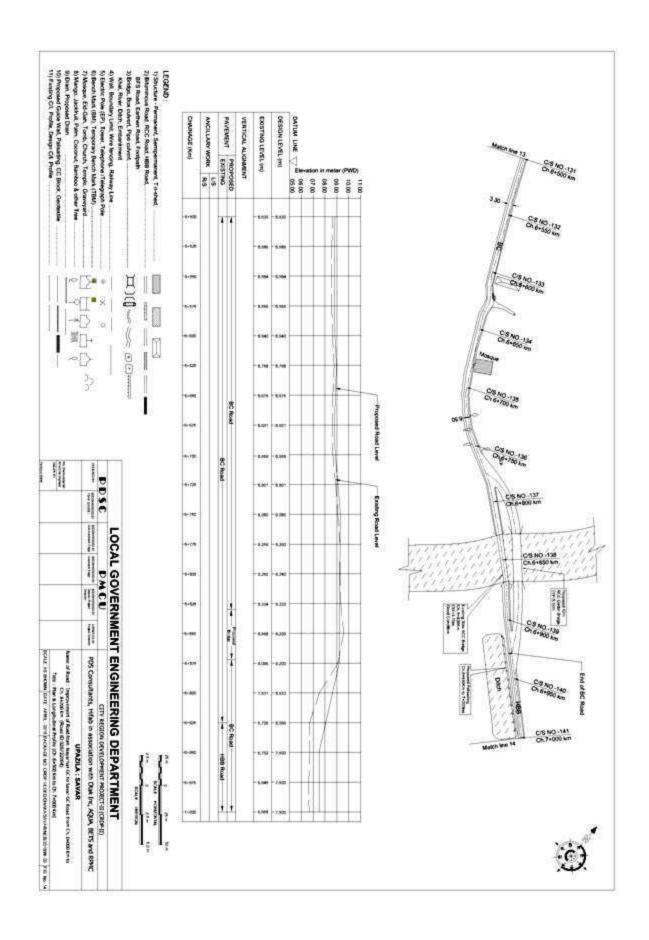
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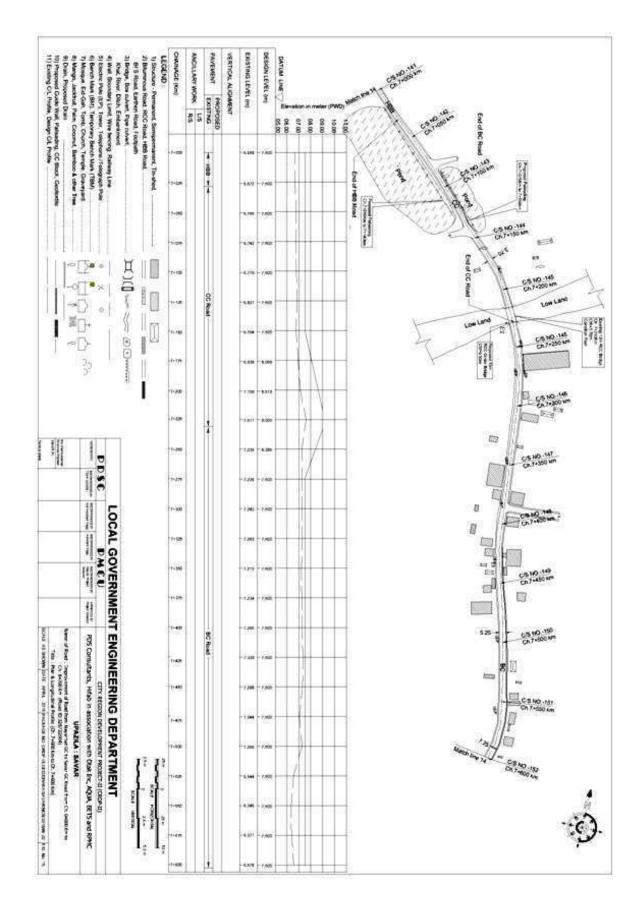


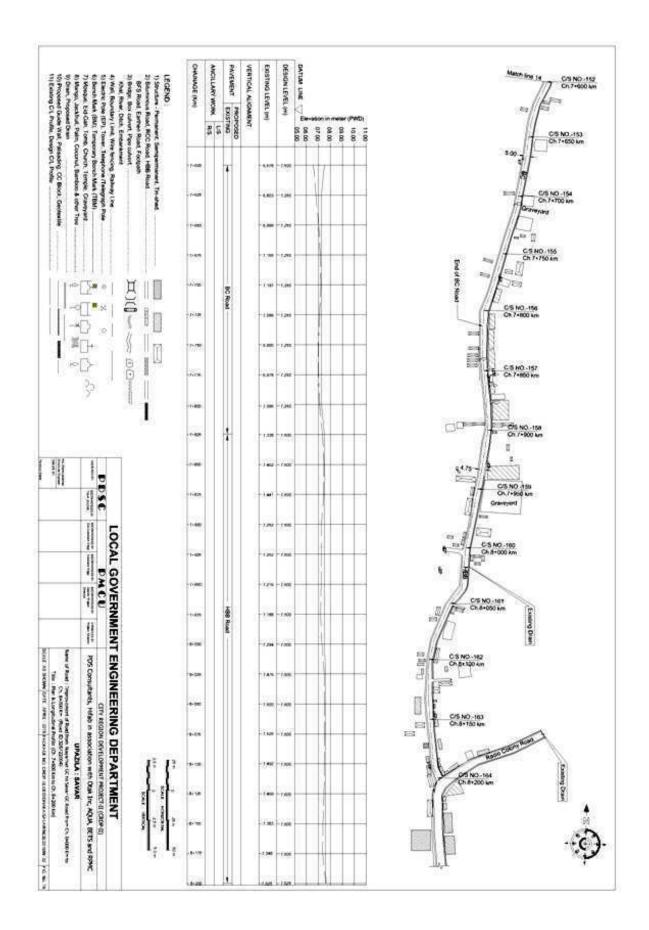


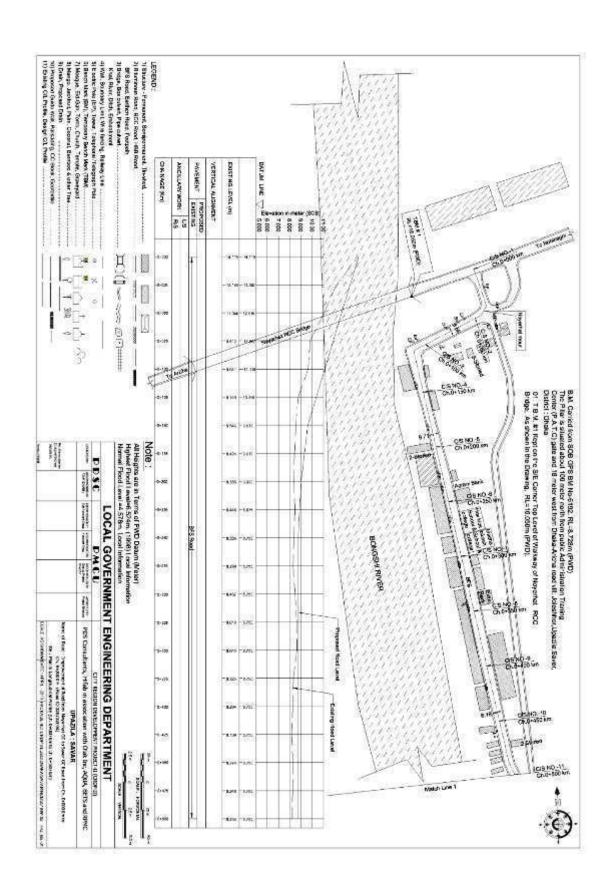


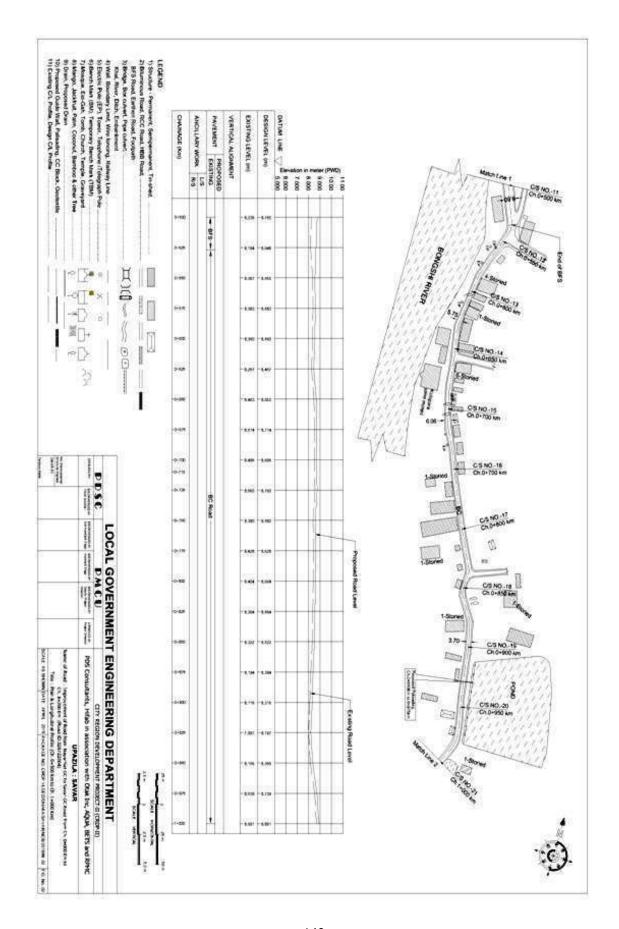


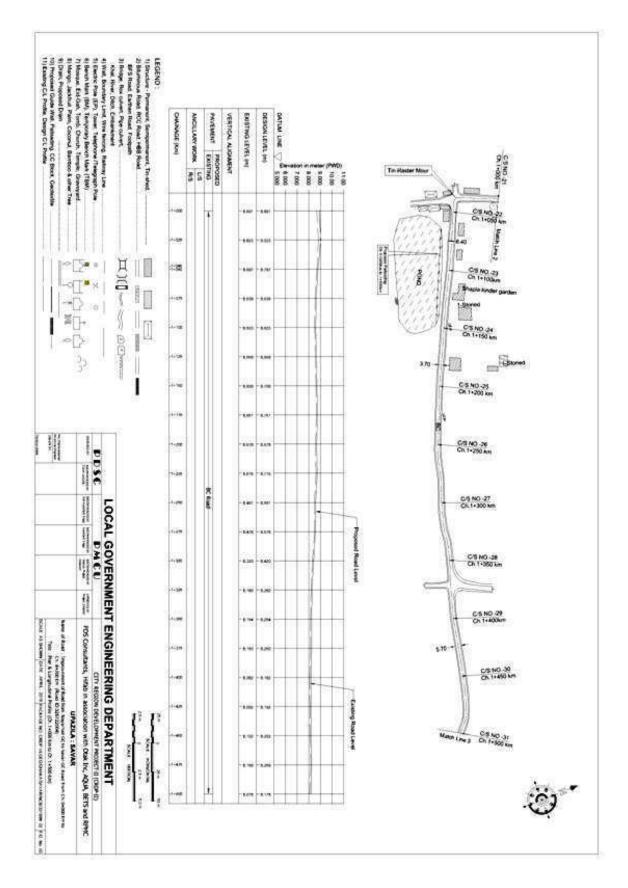


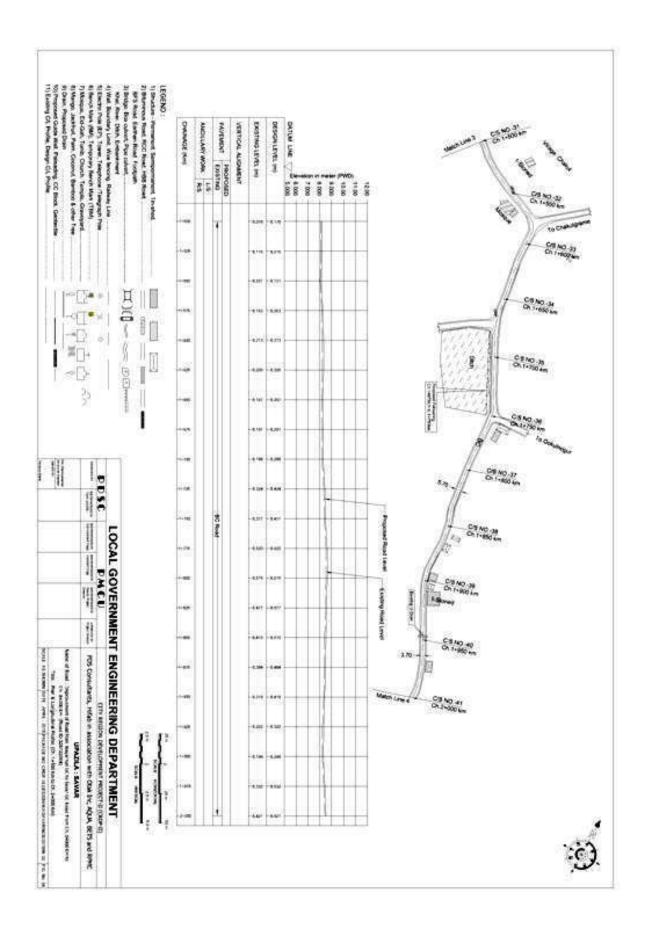


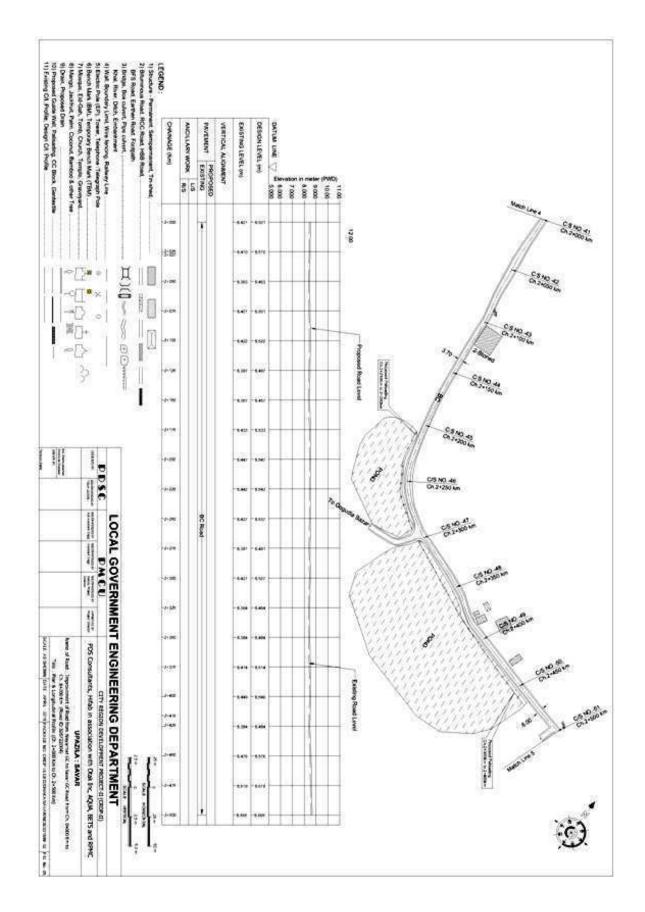


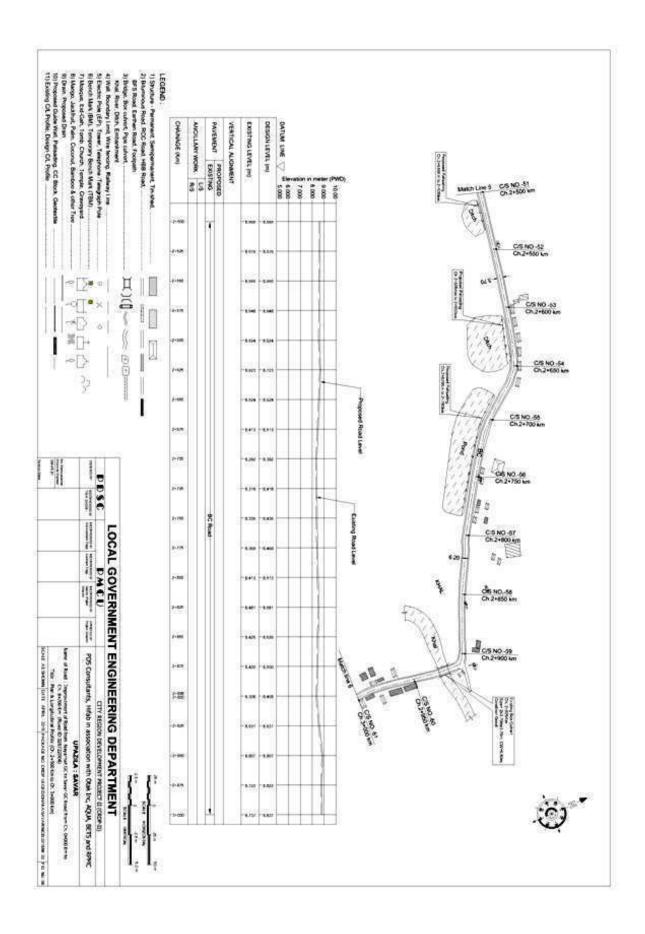


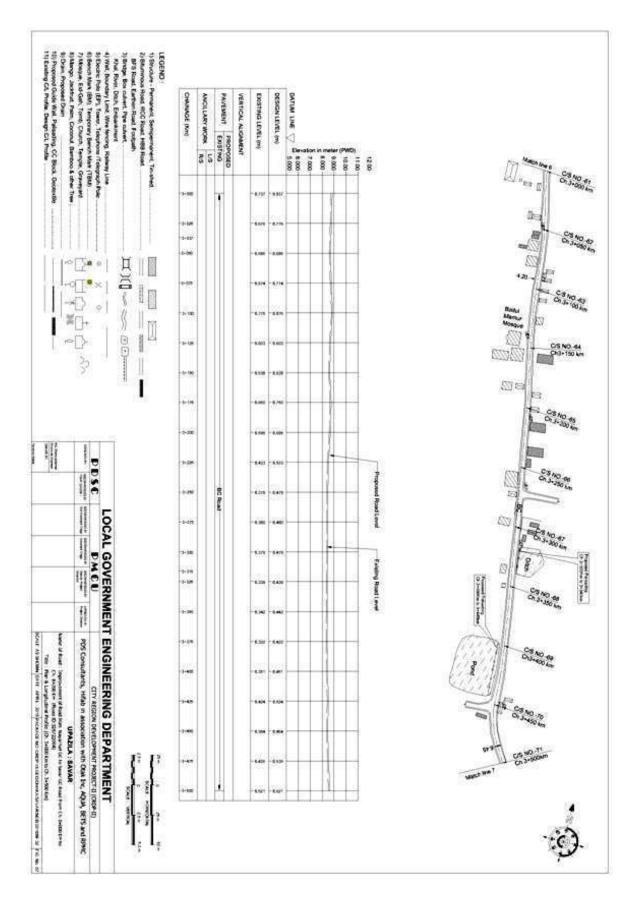


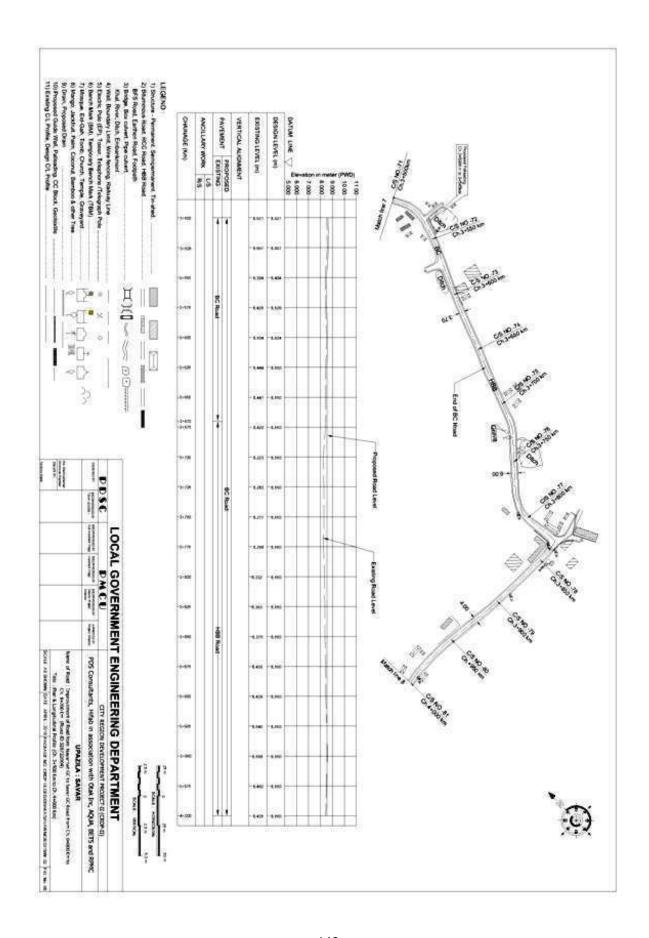


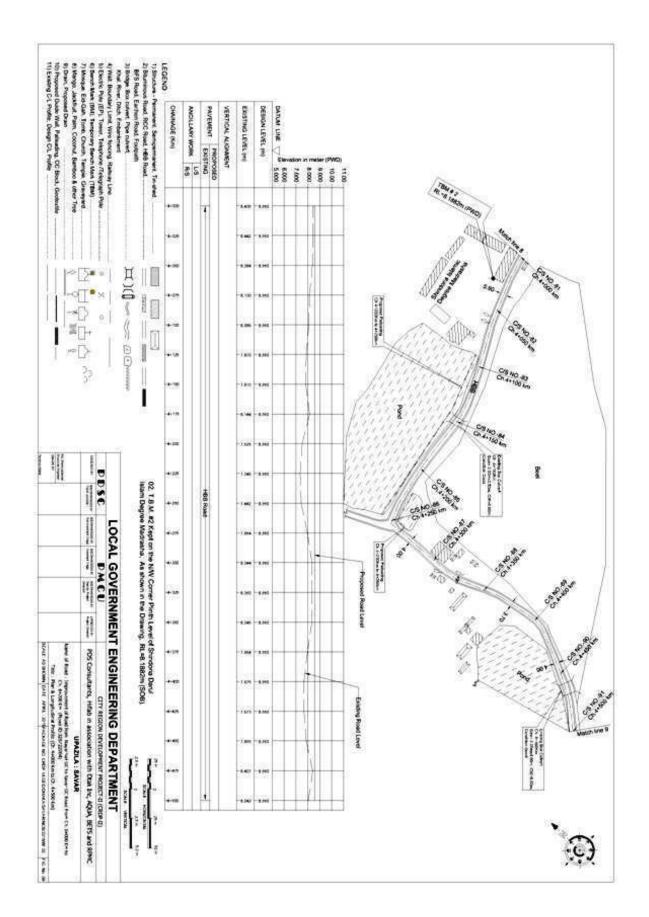


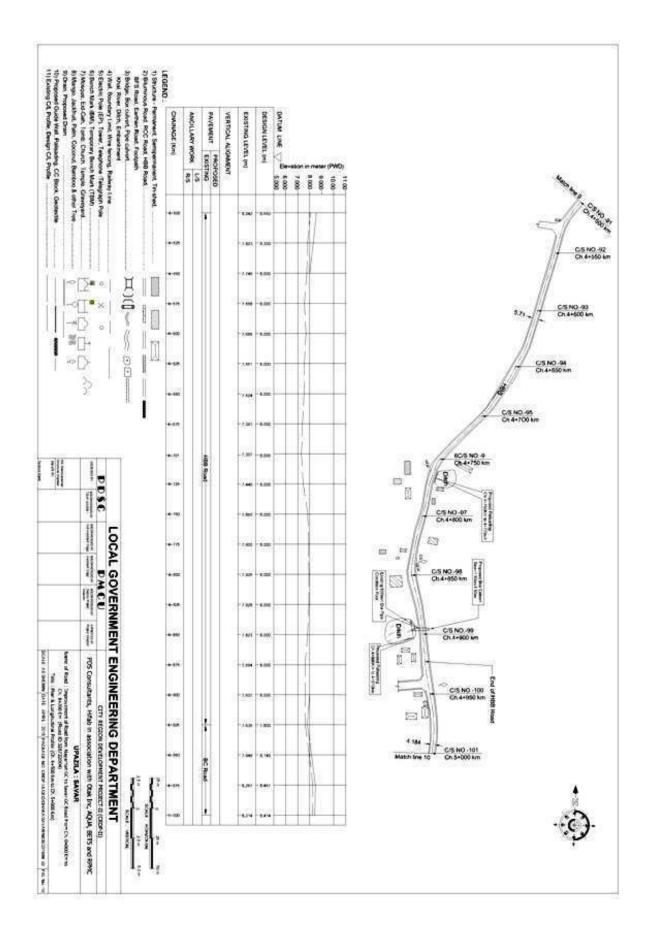


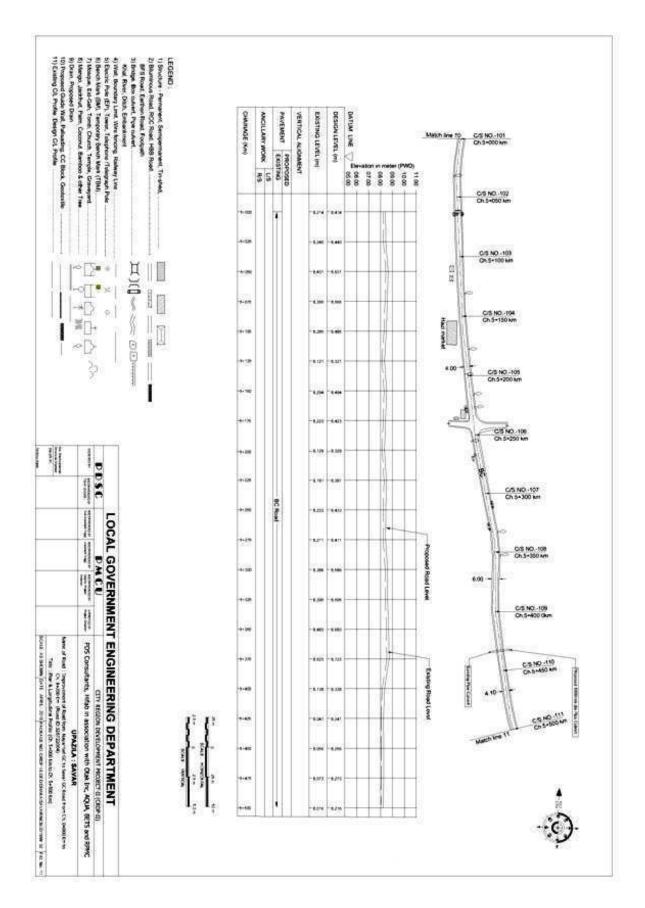


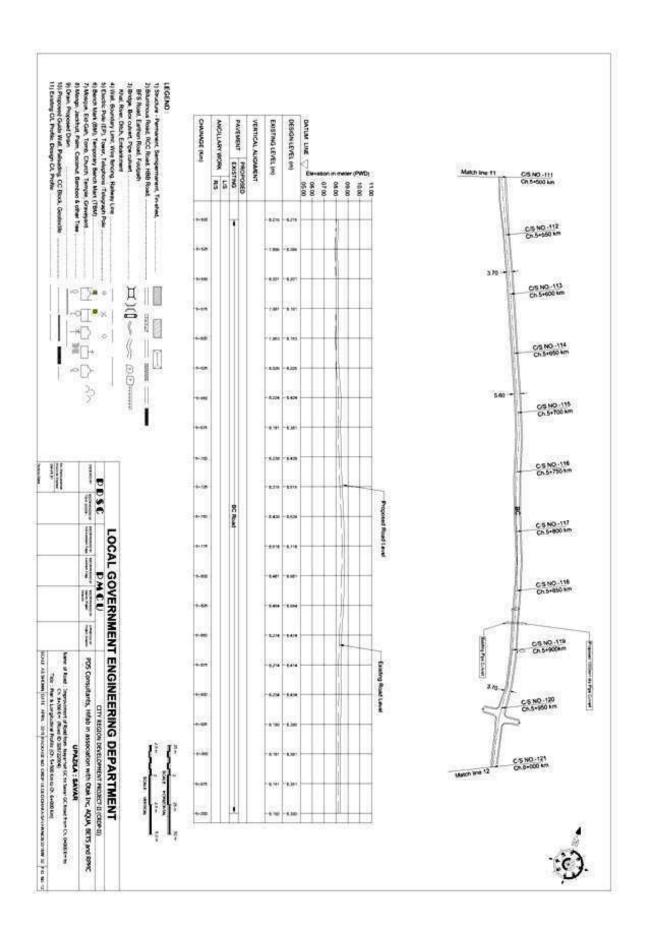


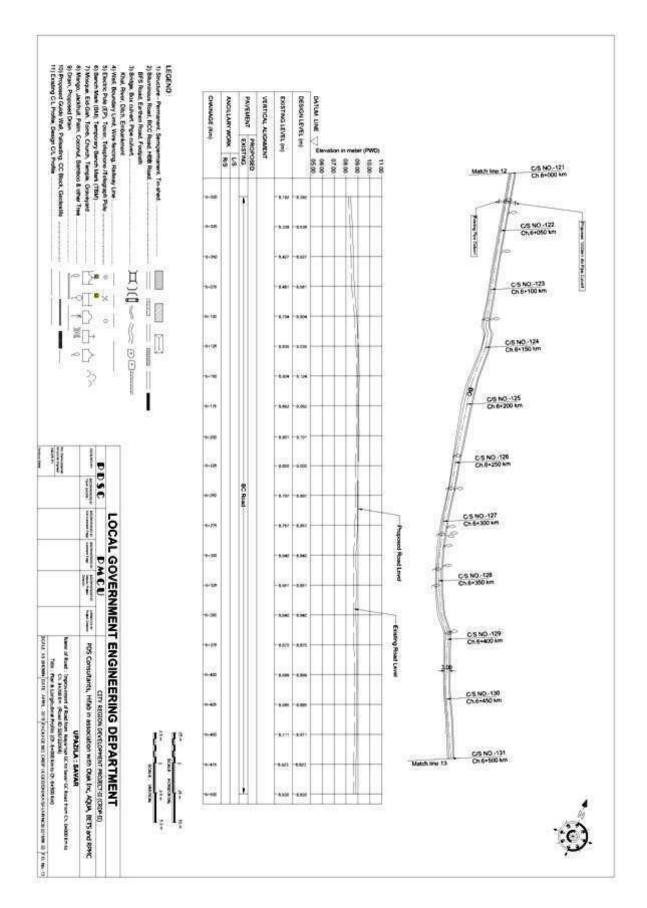


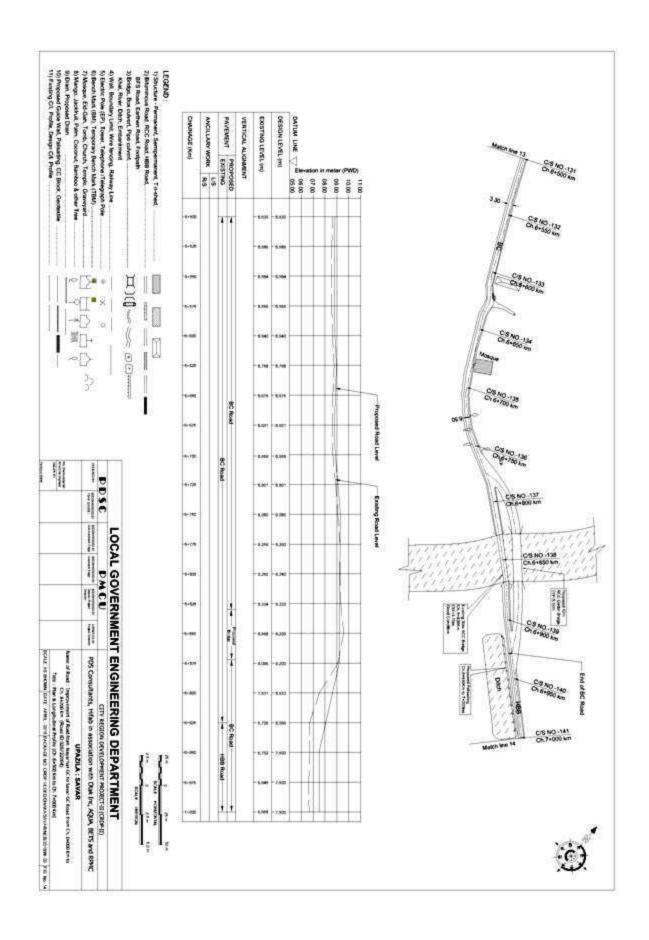


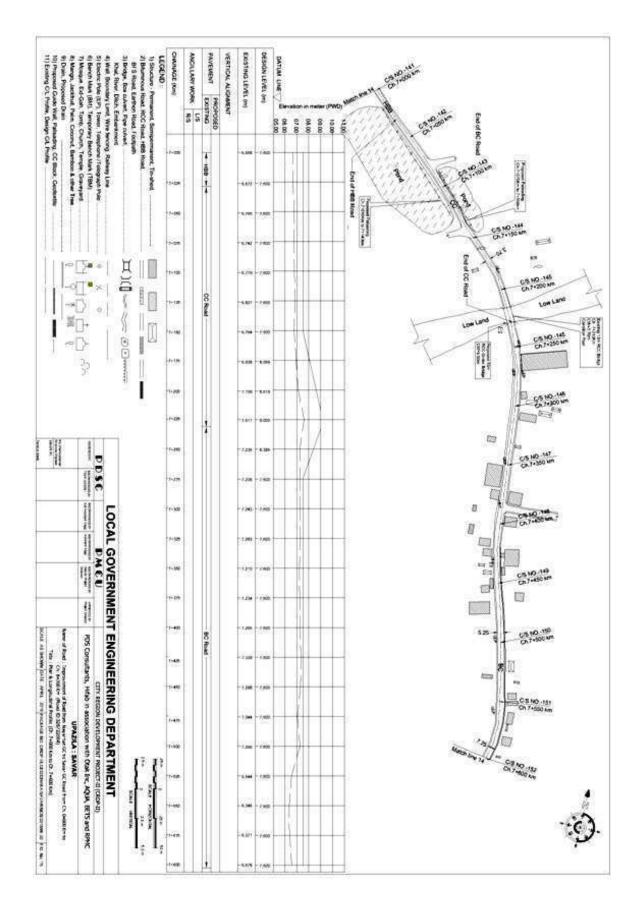


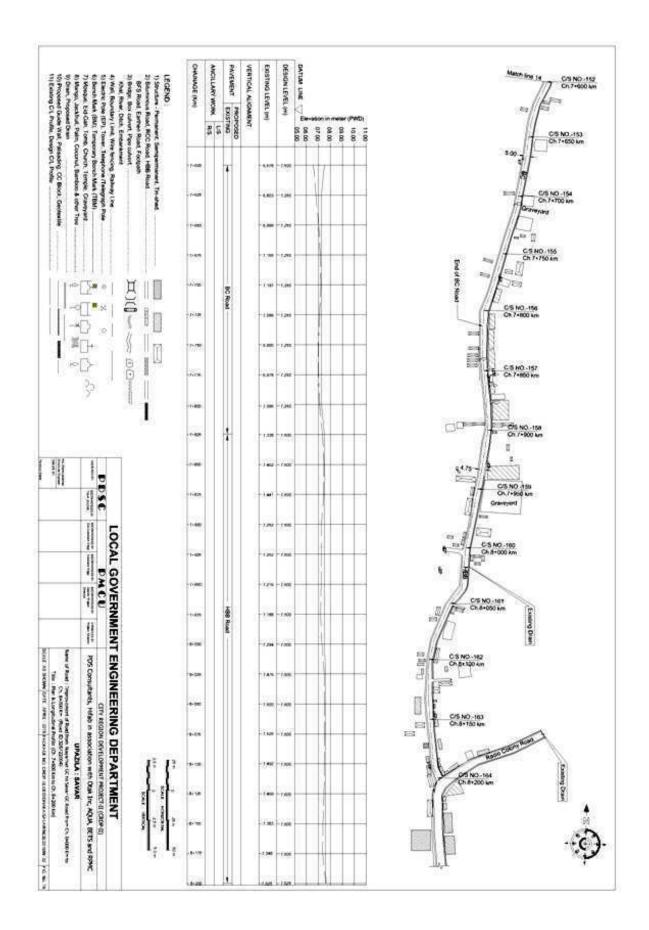




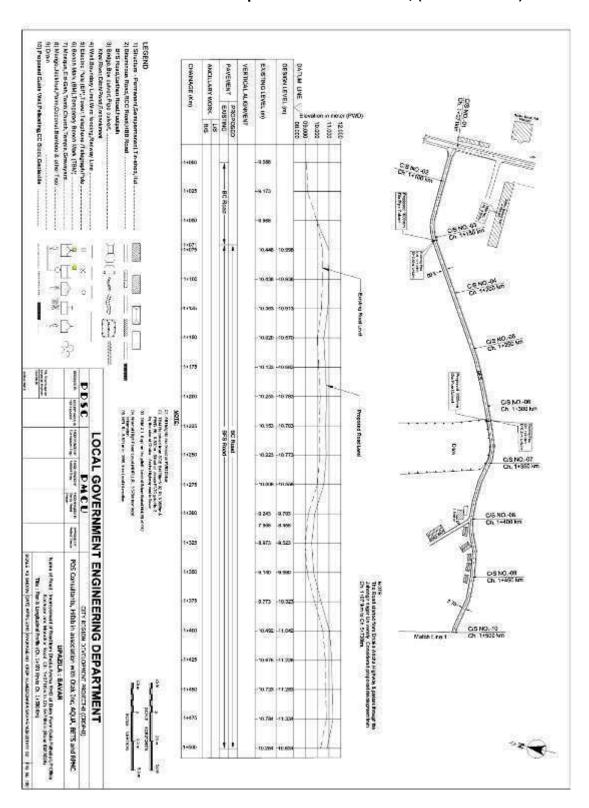


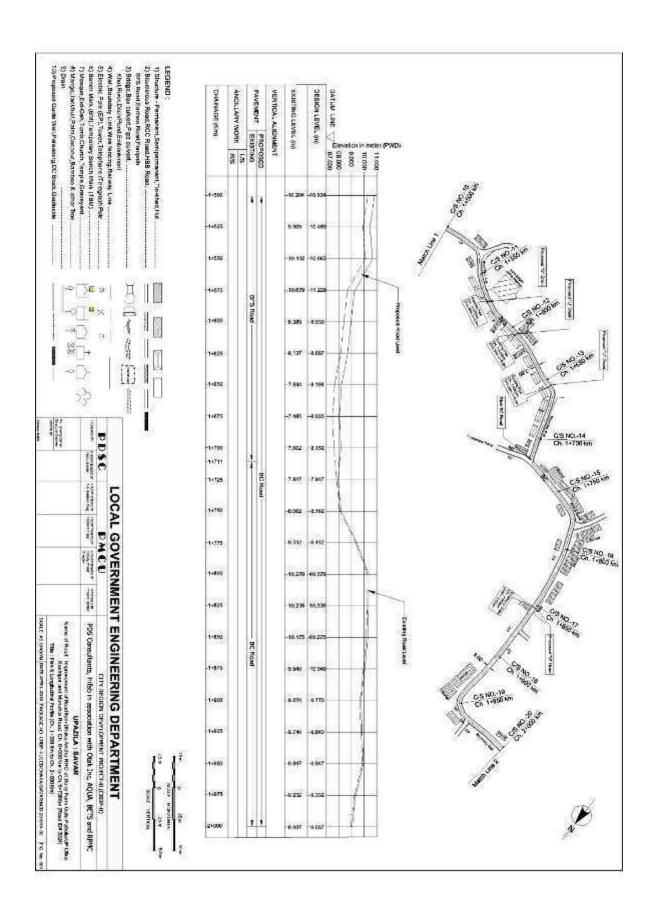


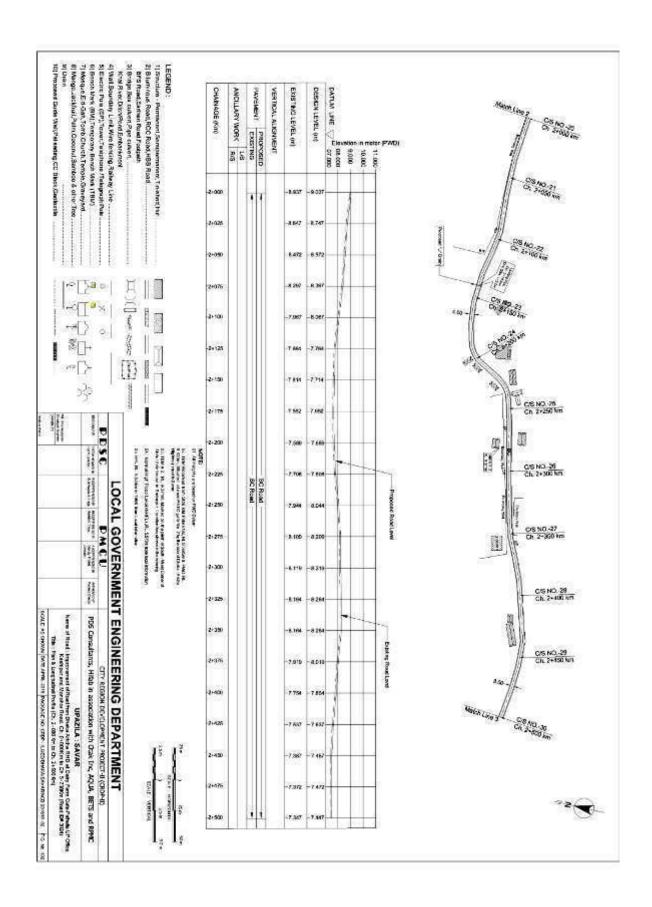


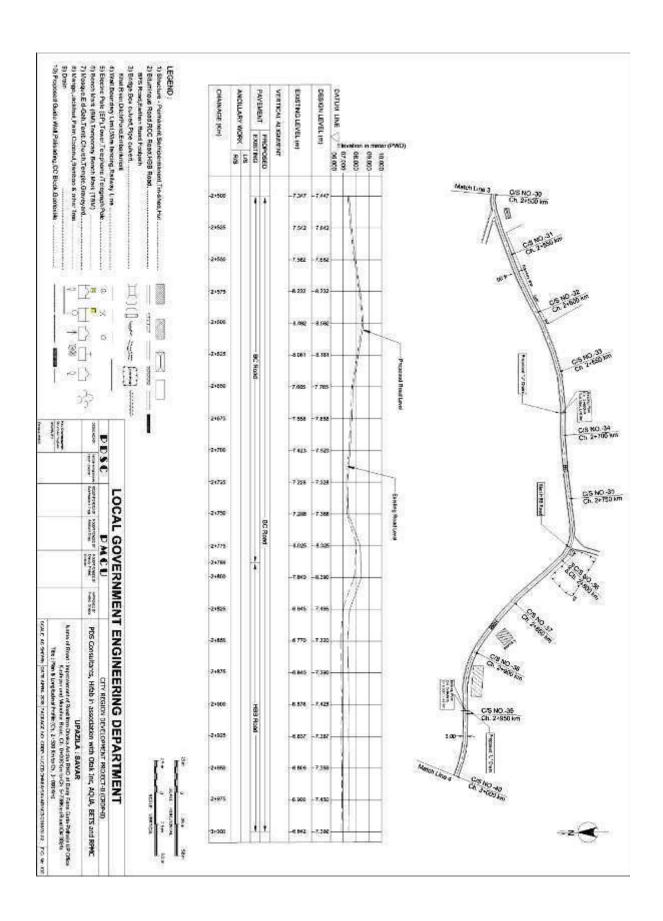


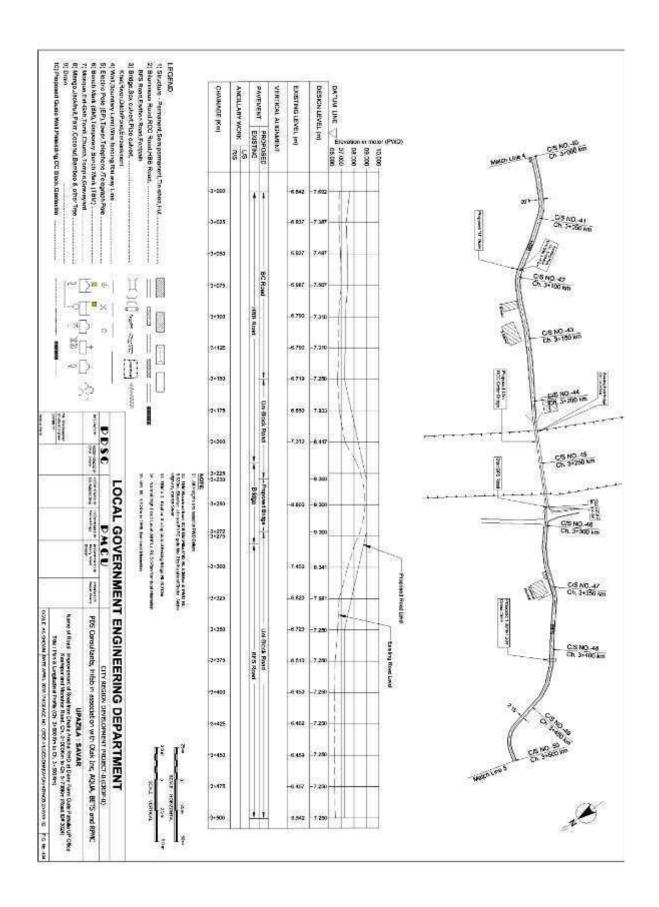
Appendix 4: Strip Maps of Subproject Alignment - Dhaka - Aricha RHD at Dairy Farm Gate - Pathalia UP Office Kashipur and Monohor Road, (Road ID: 3024)

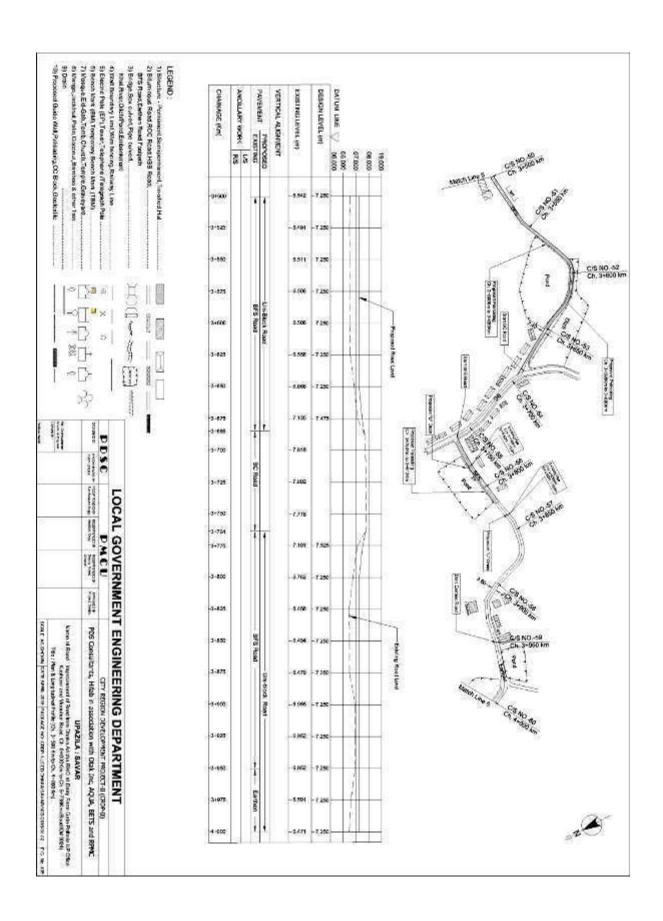


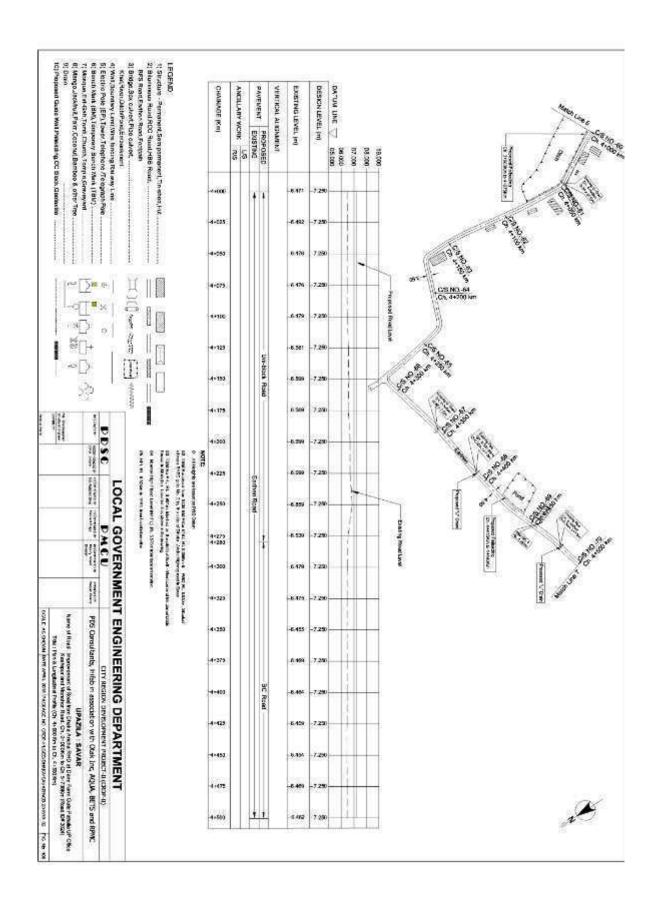


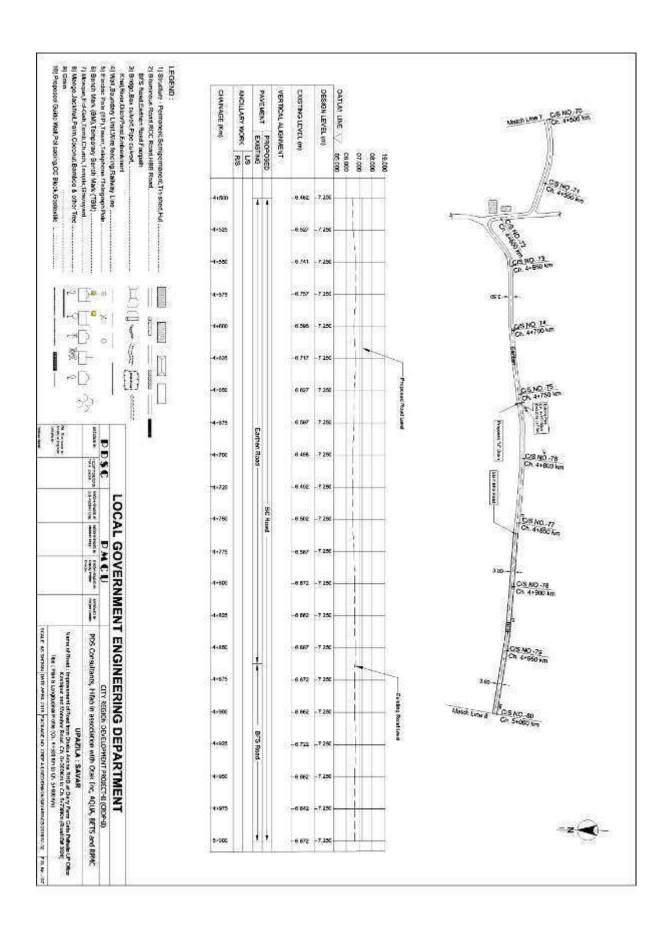


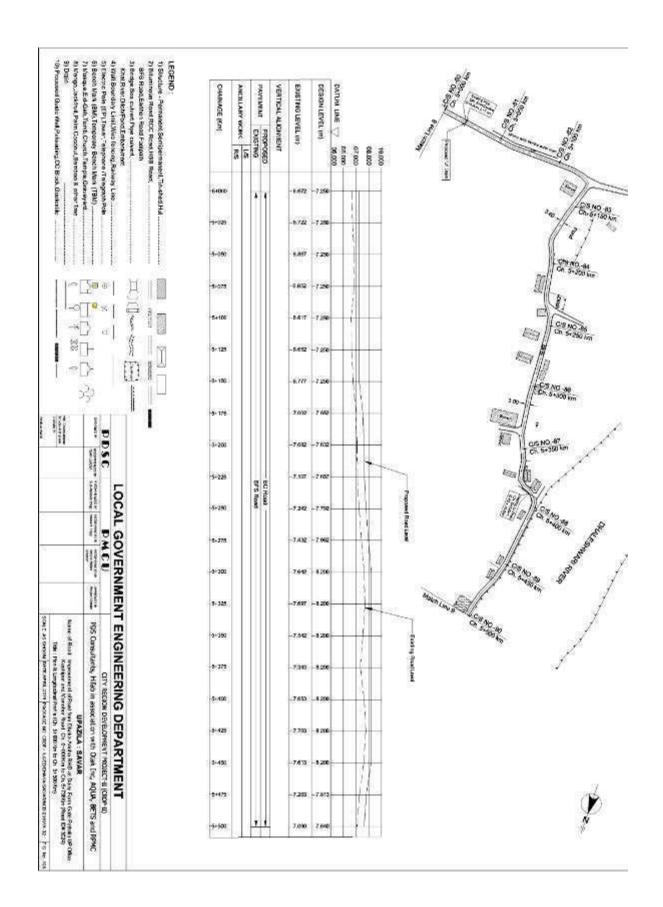


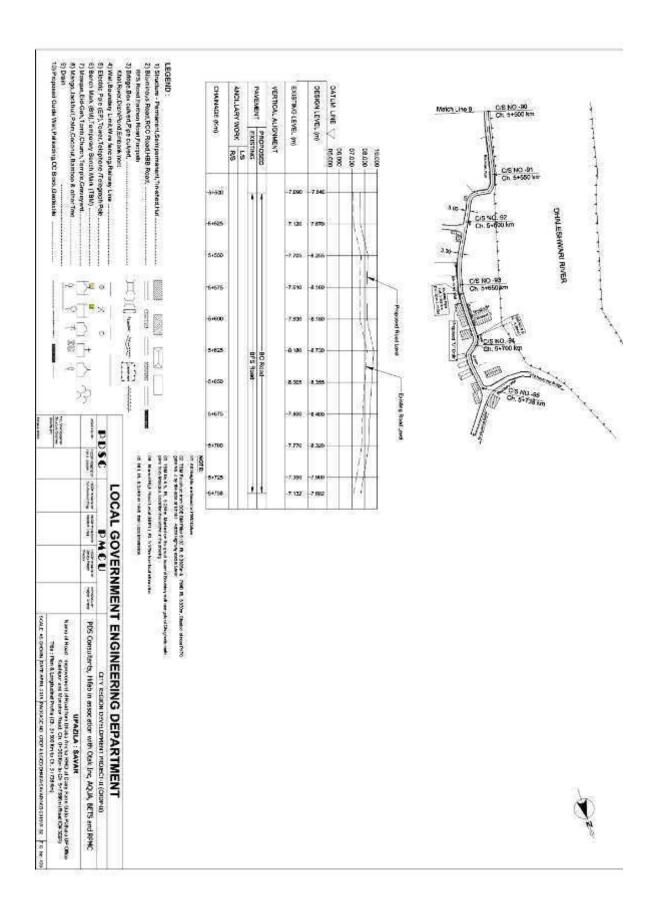


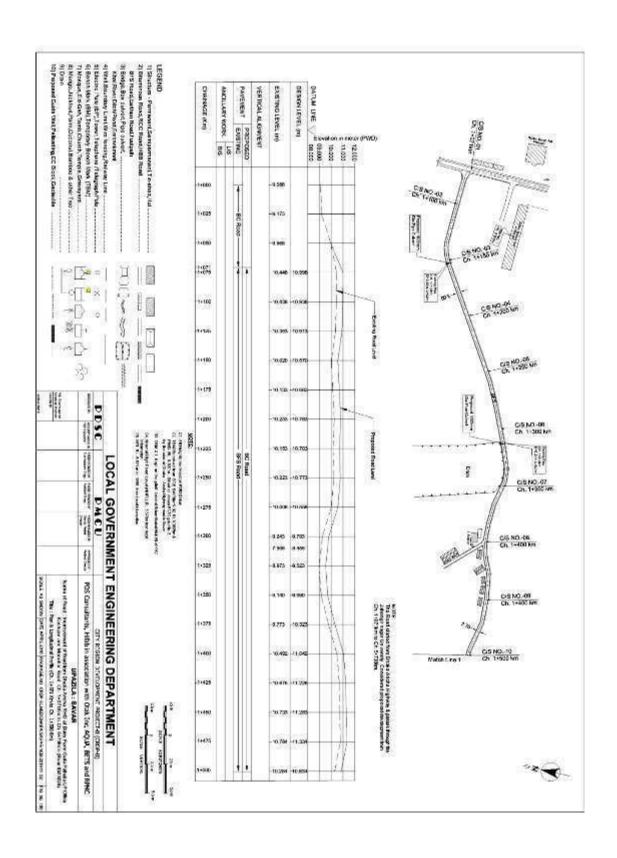


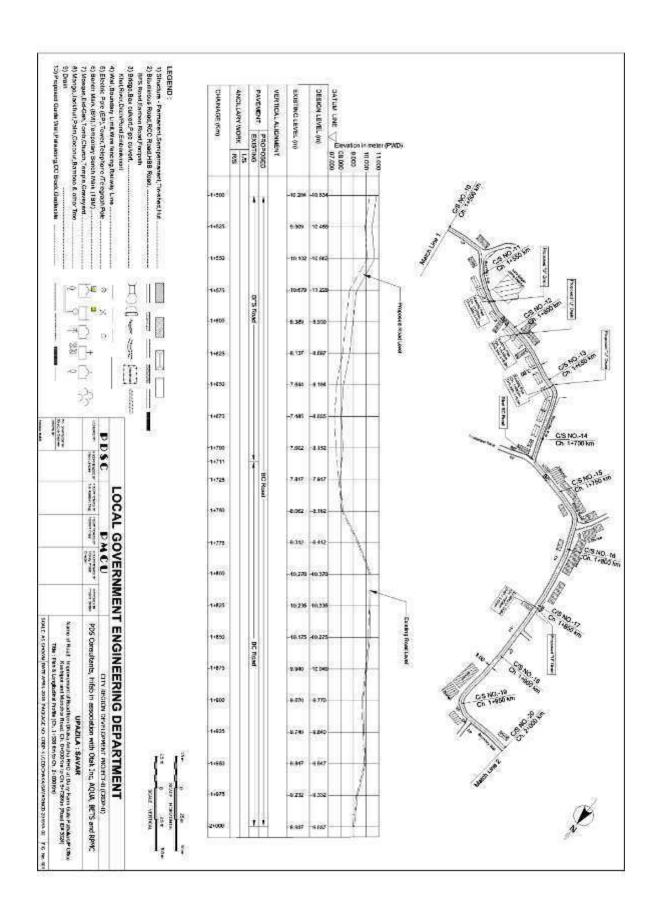


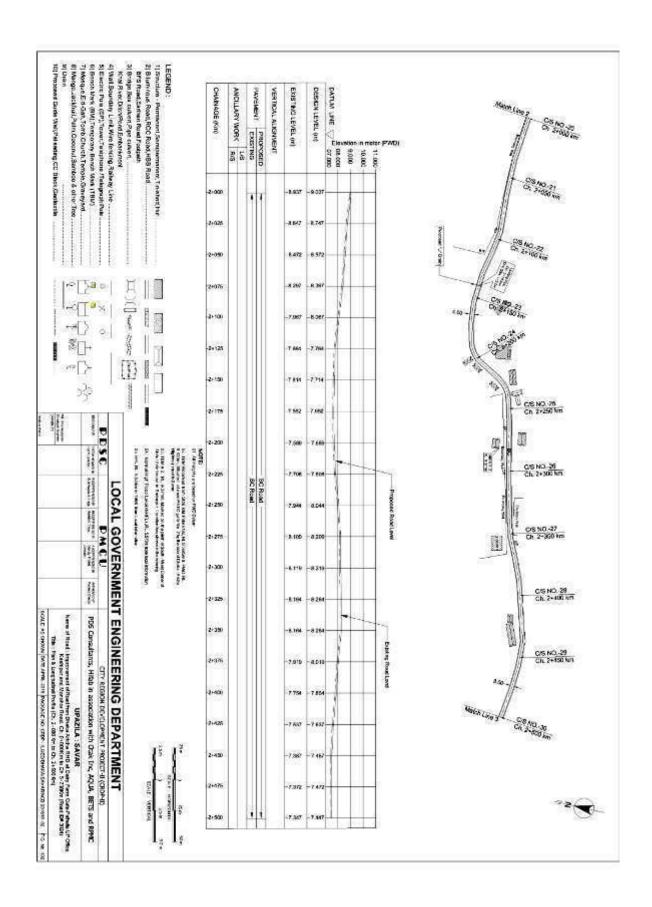


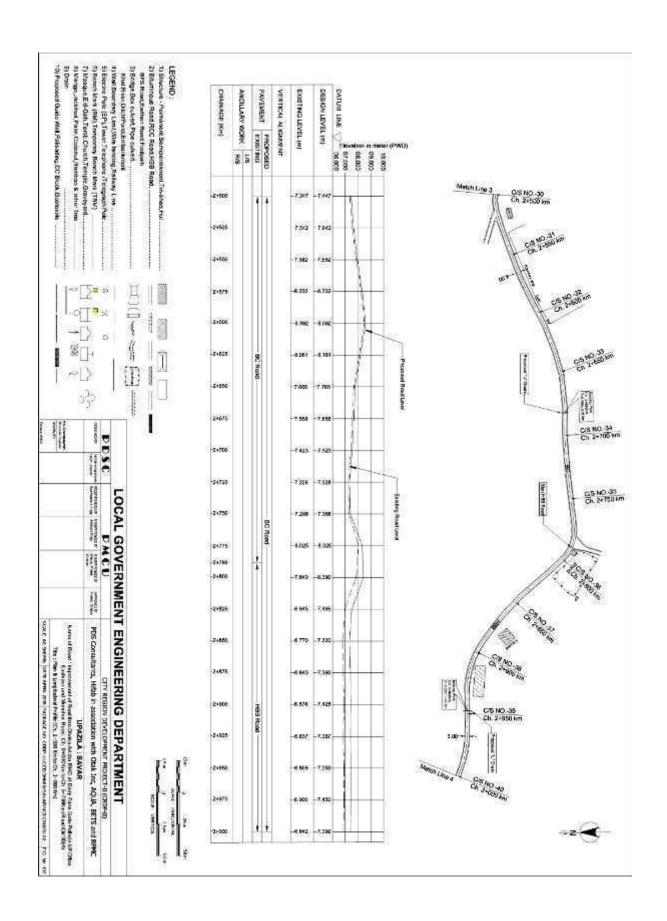


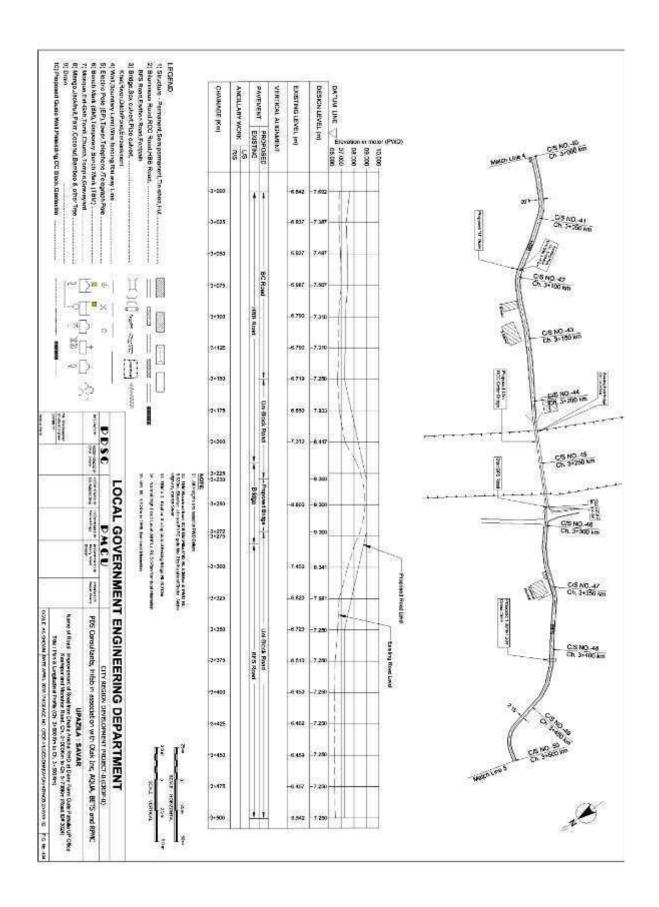


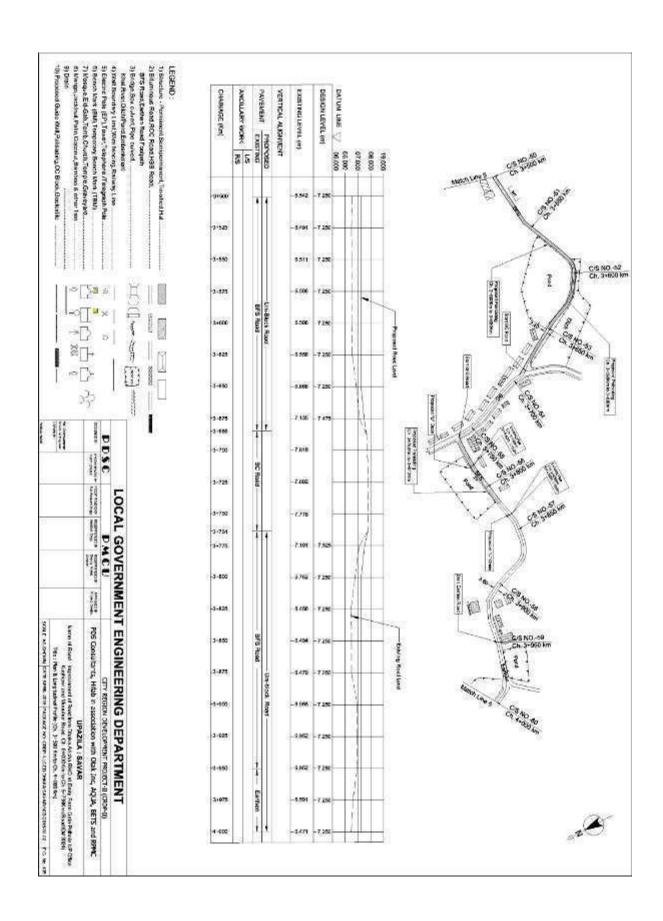


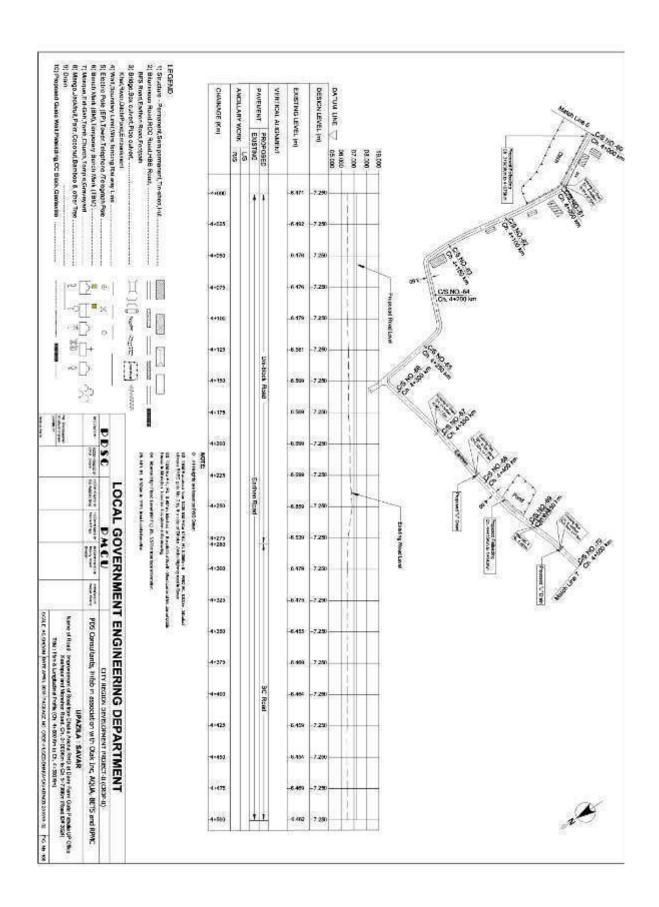


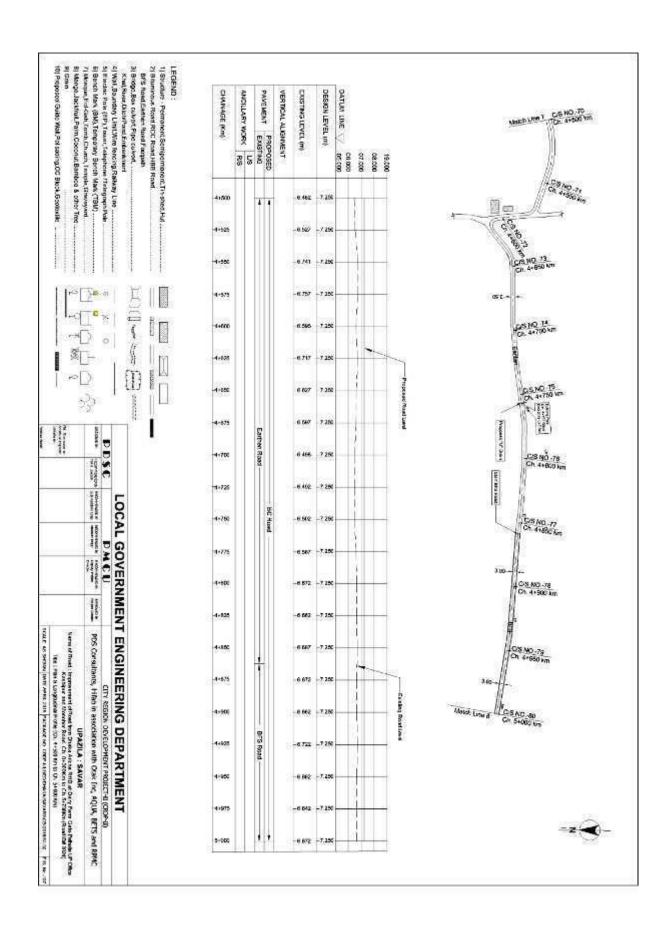


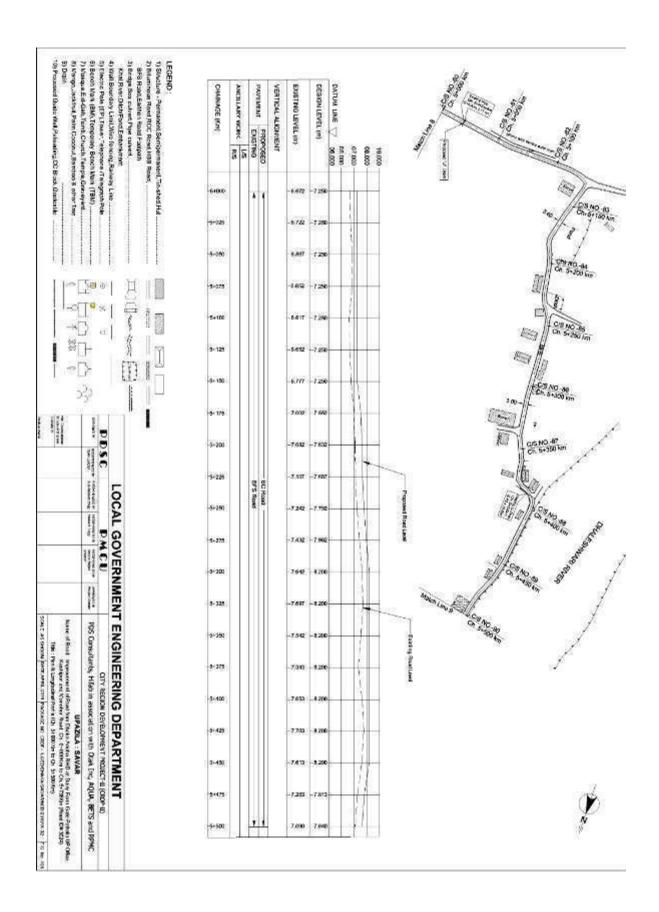


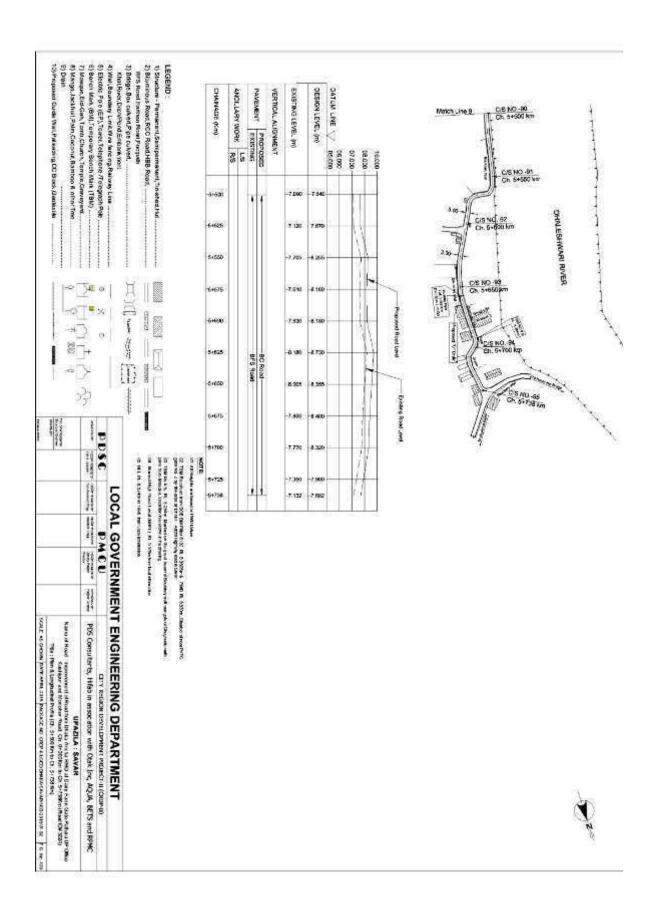




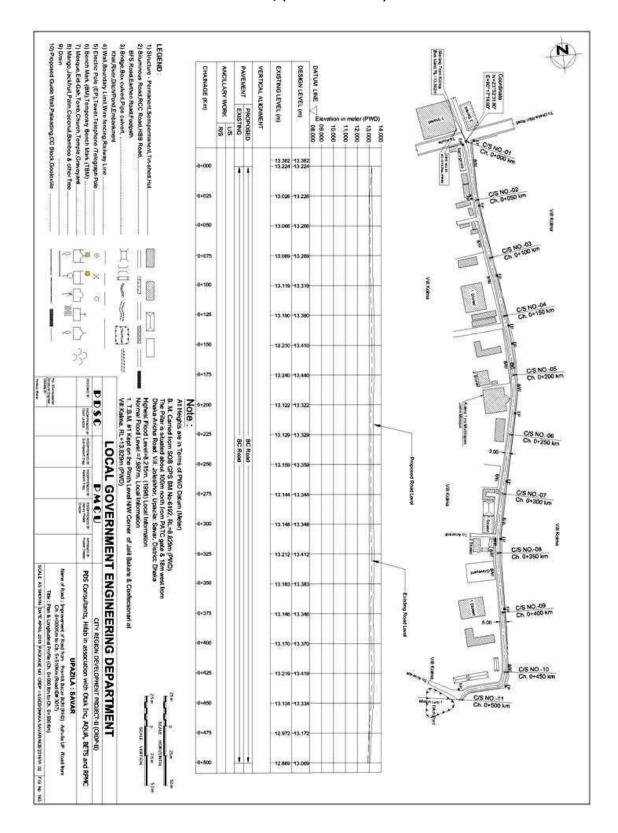


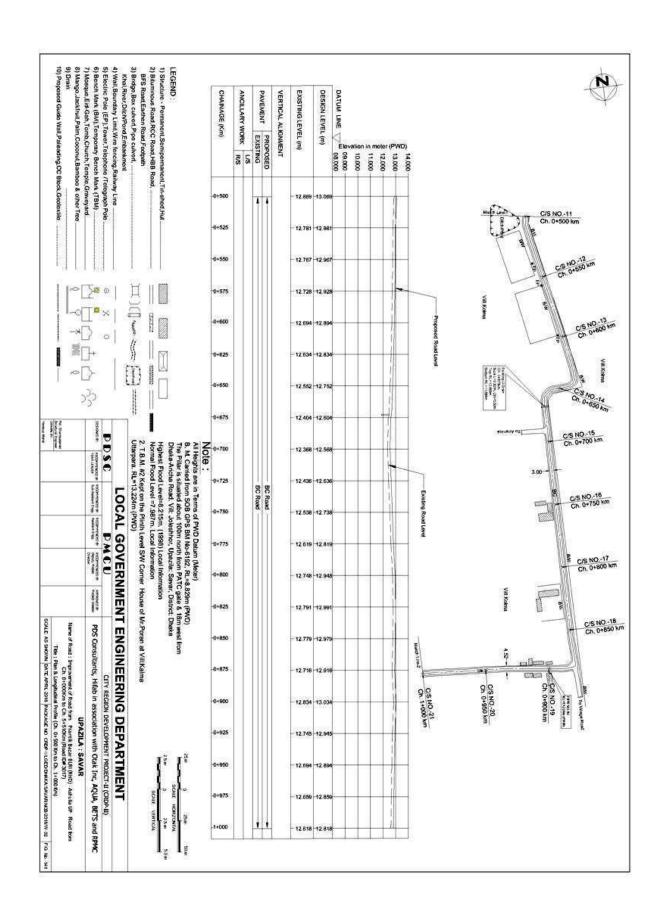


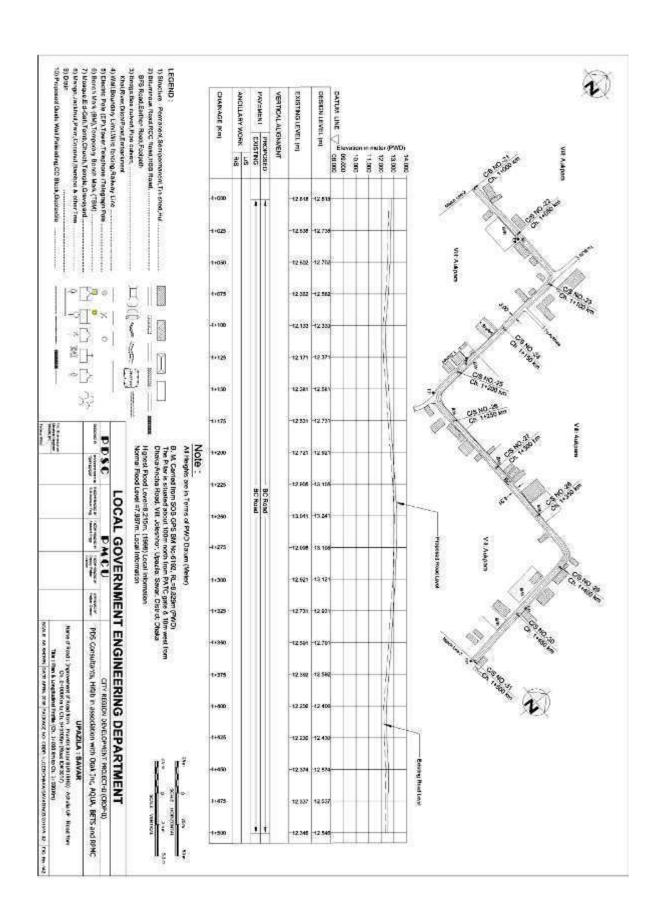


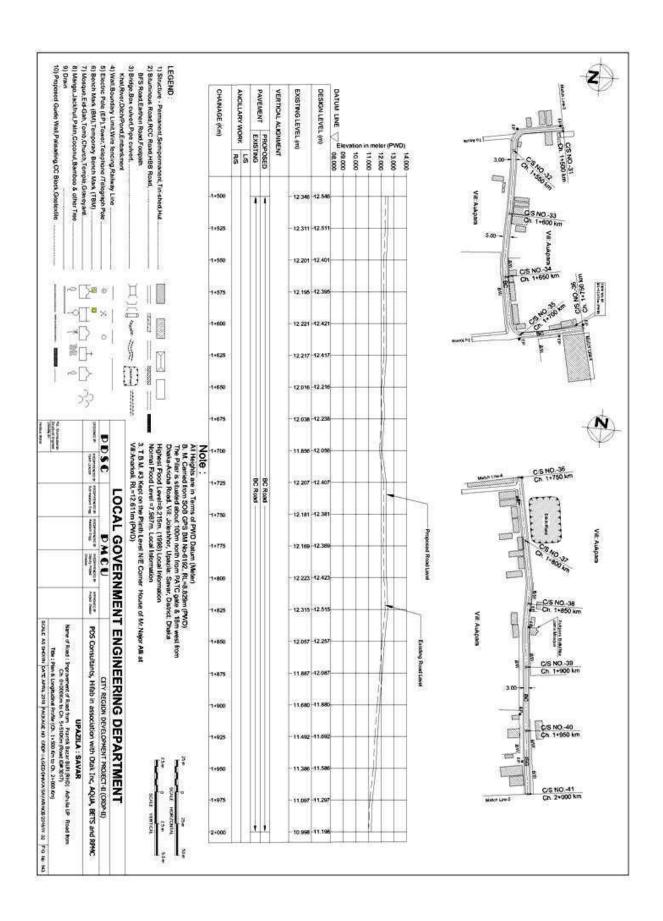


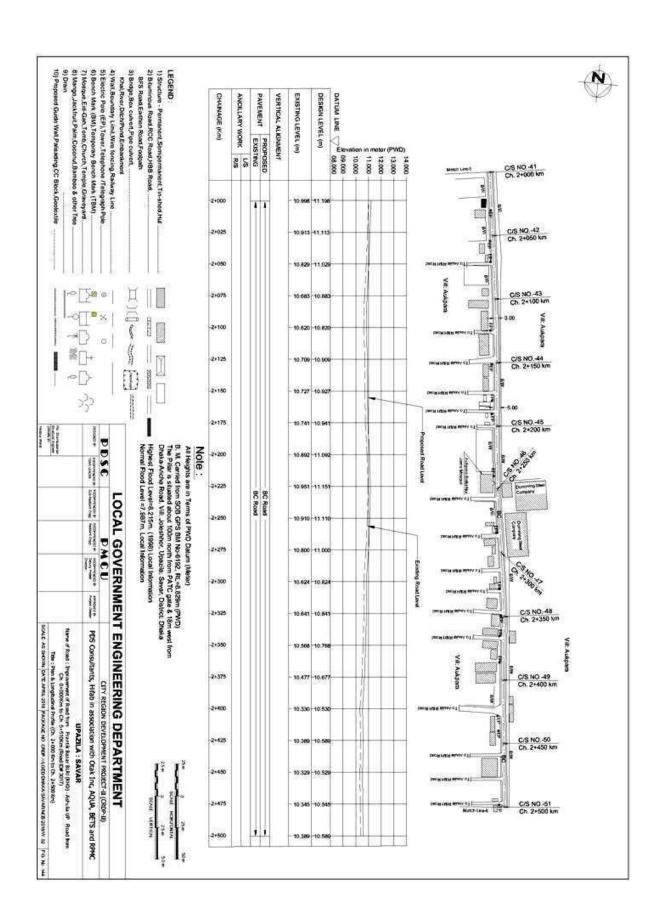
Appendix 5: Strip Maps of Subproject Alignment - Prantik bazar BLRI (RHD) - Ashulia UP Road, (Road ID: 3017)

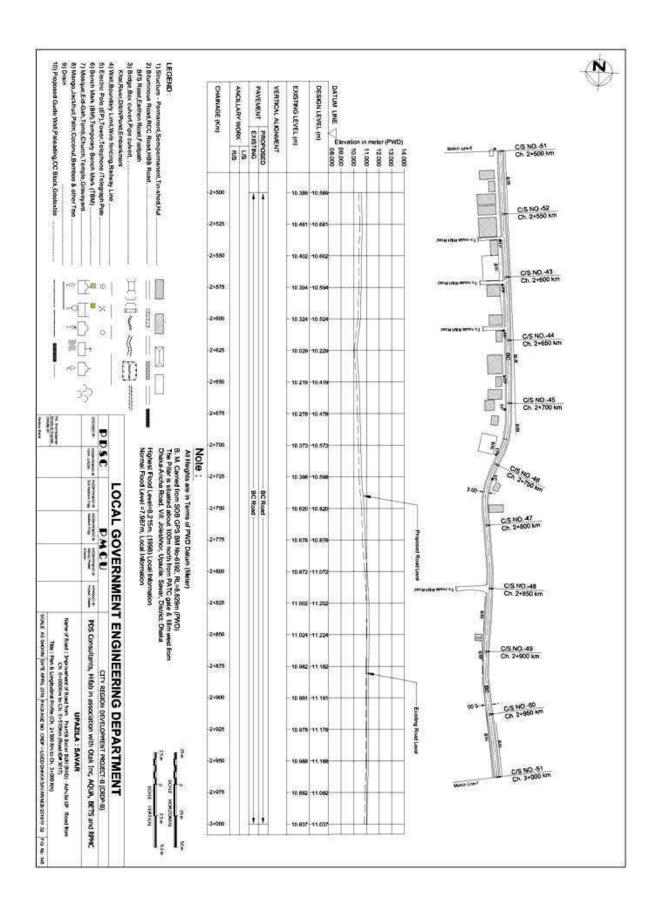


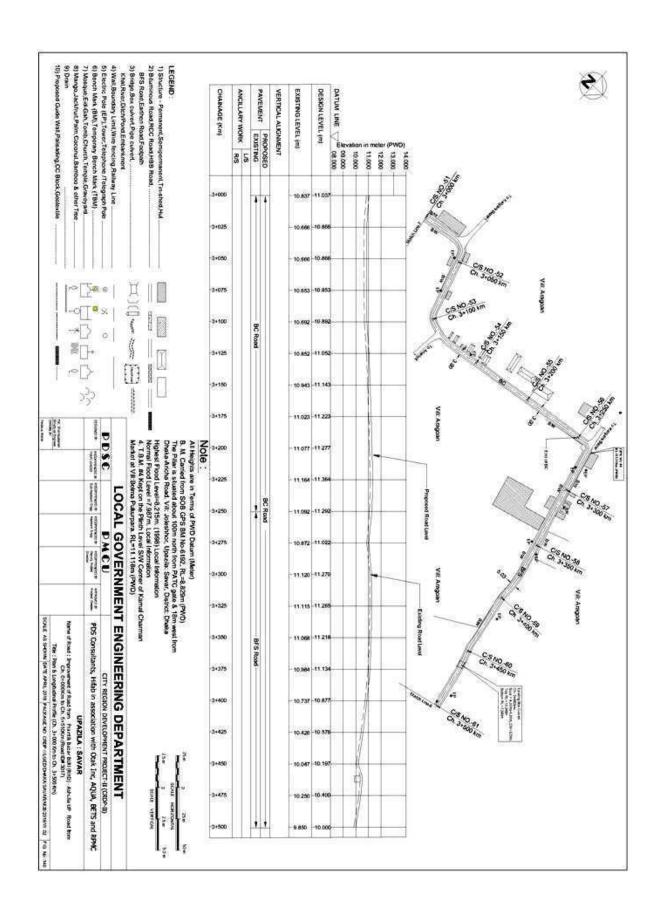


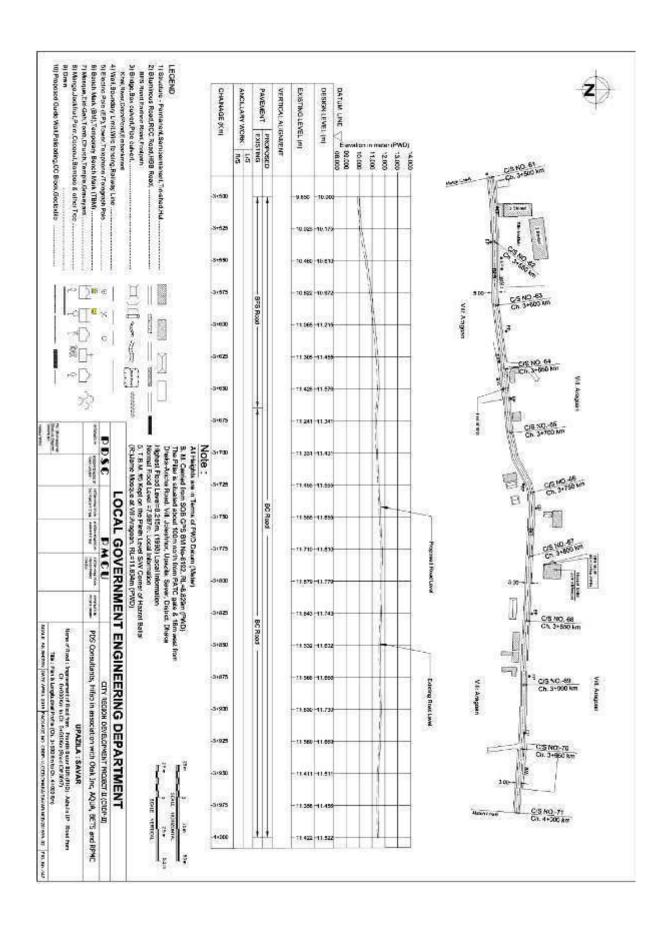


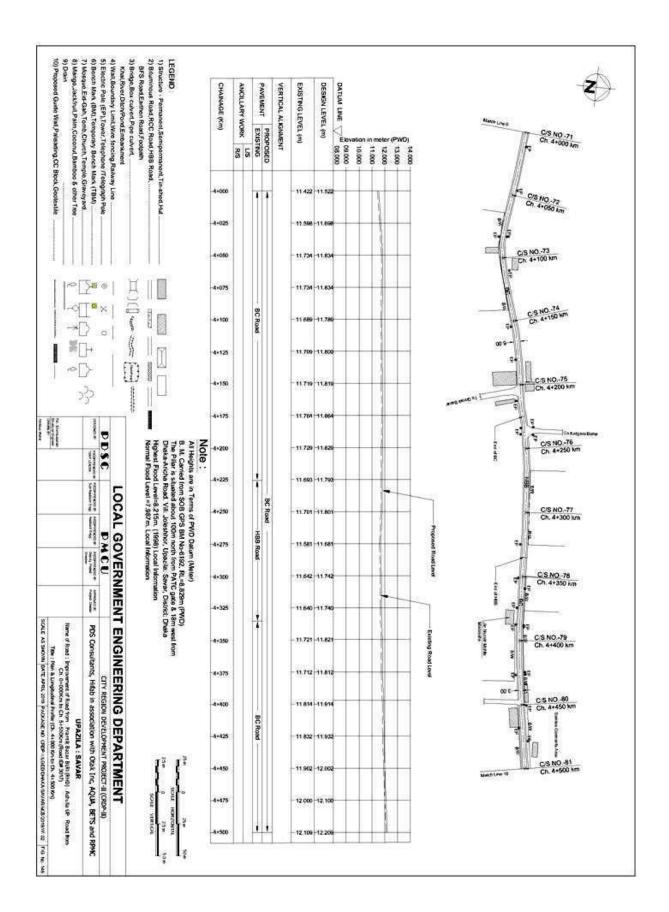


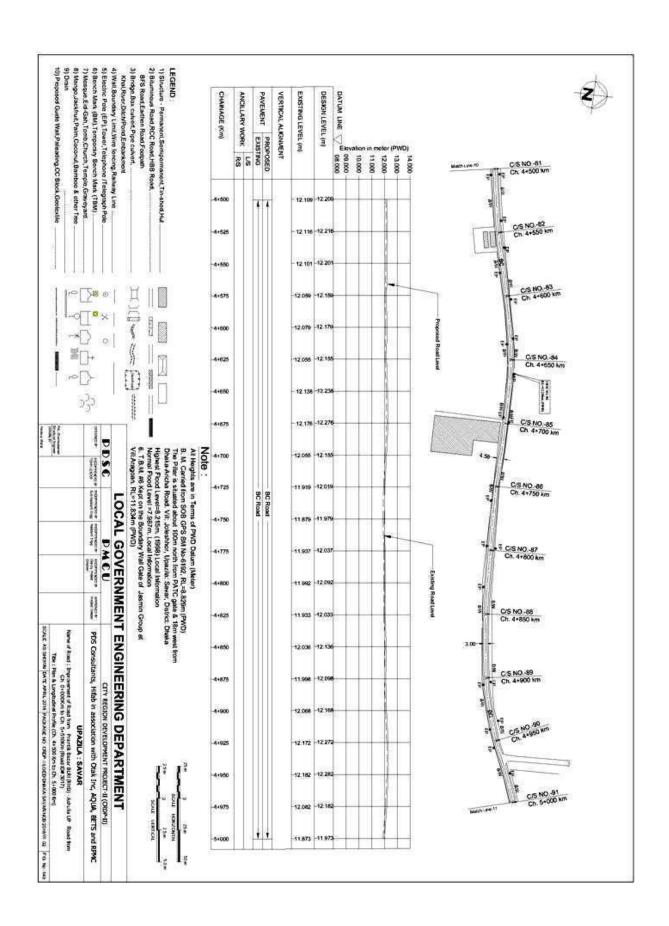


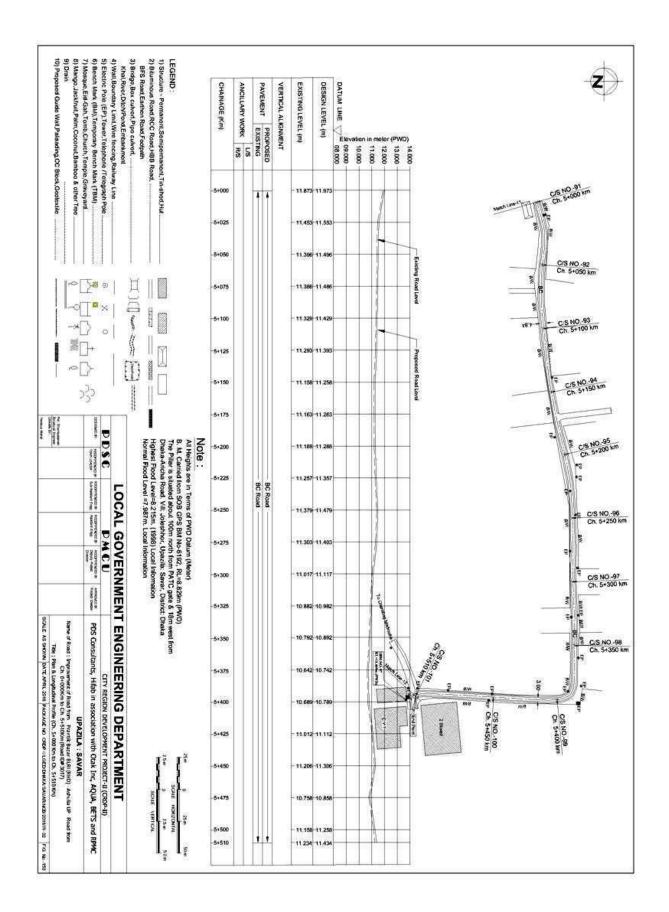


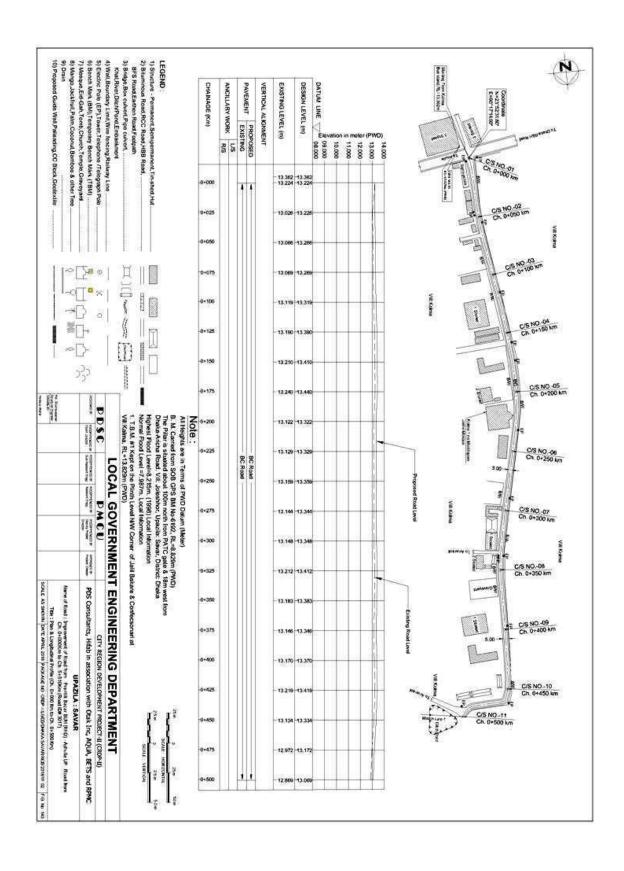


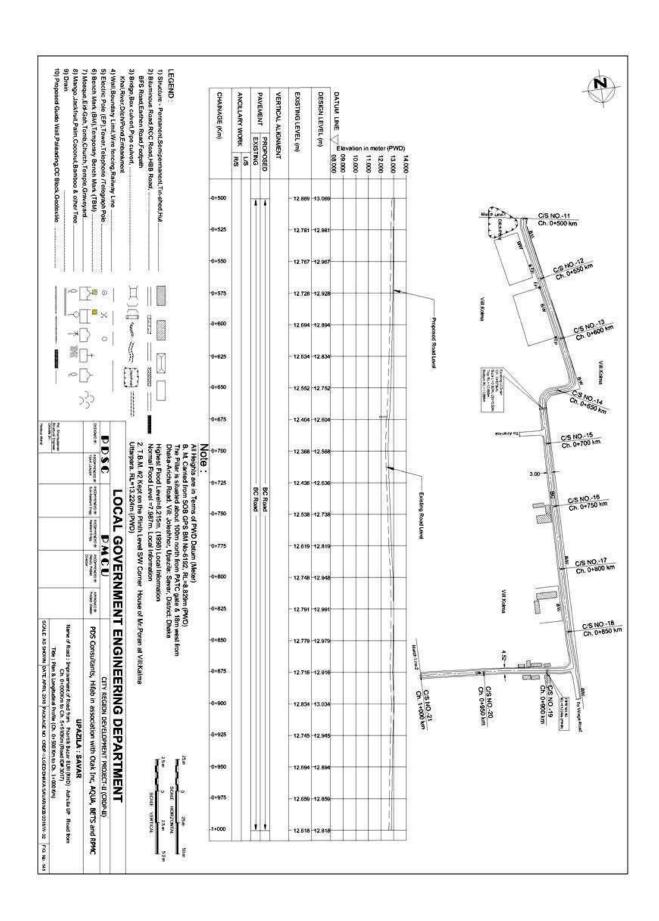


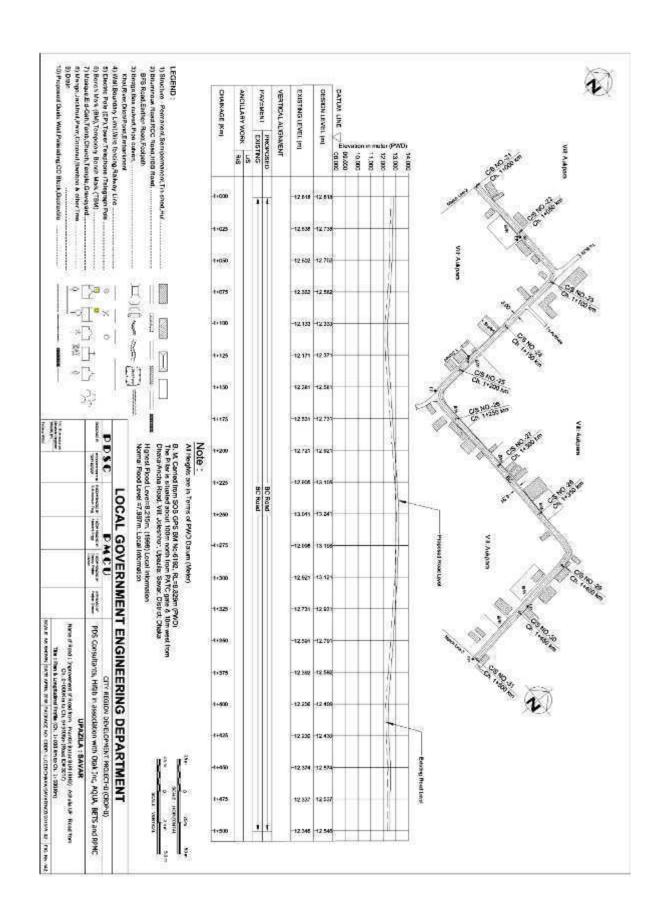


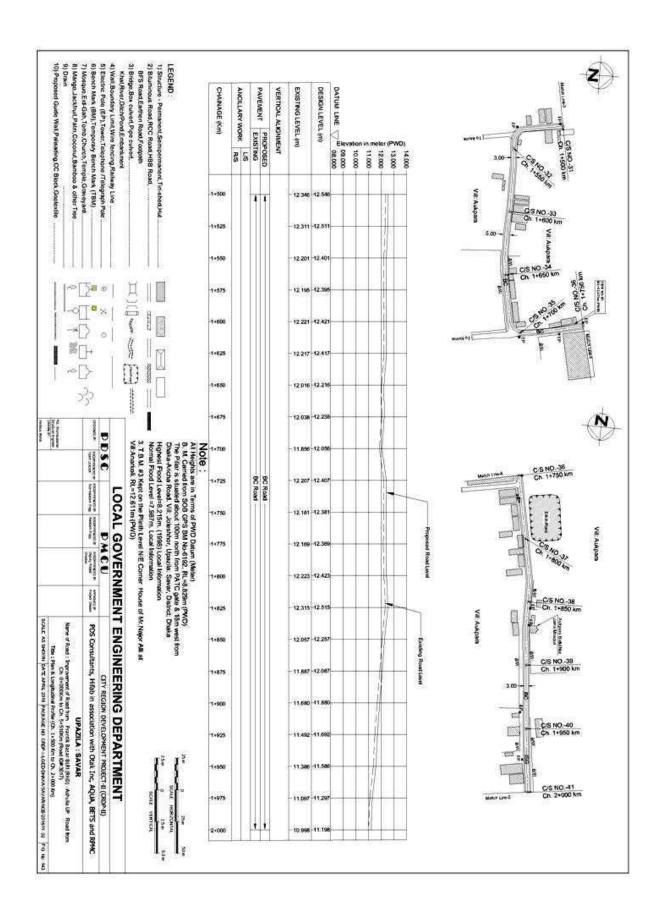


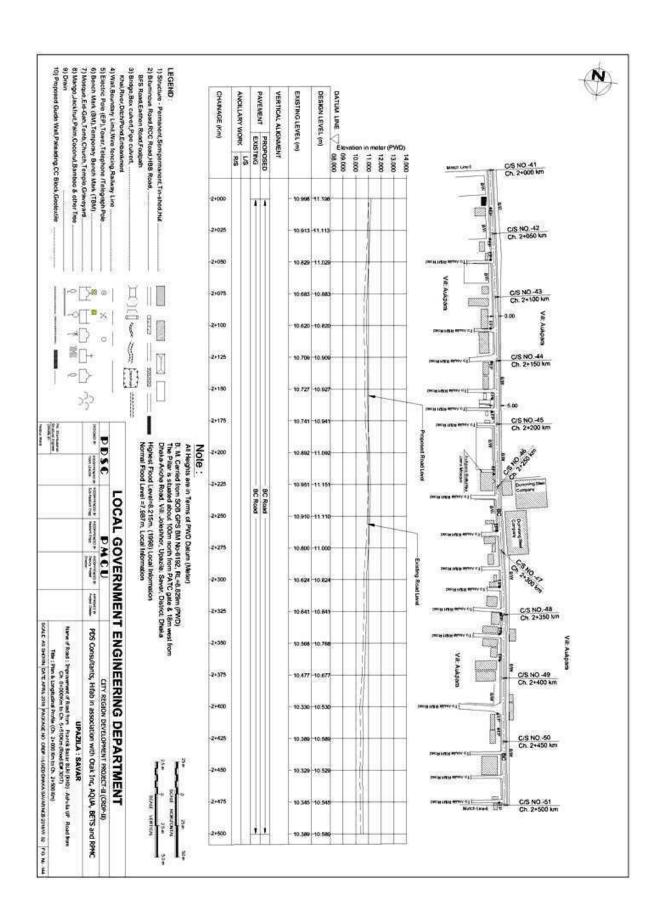


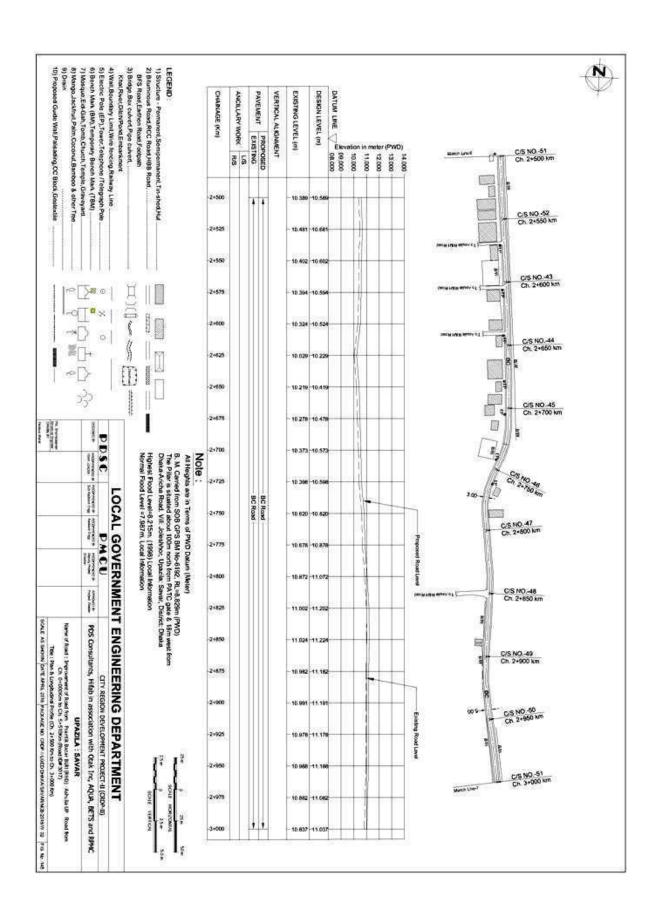


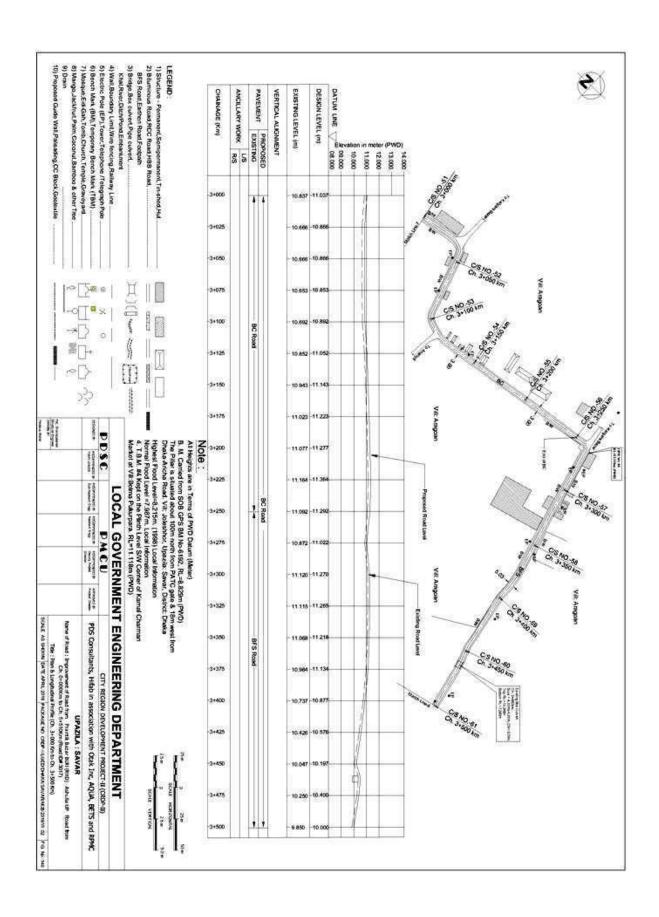


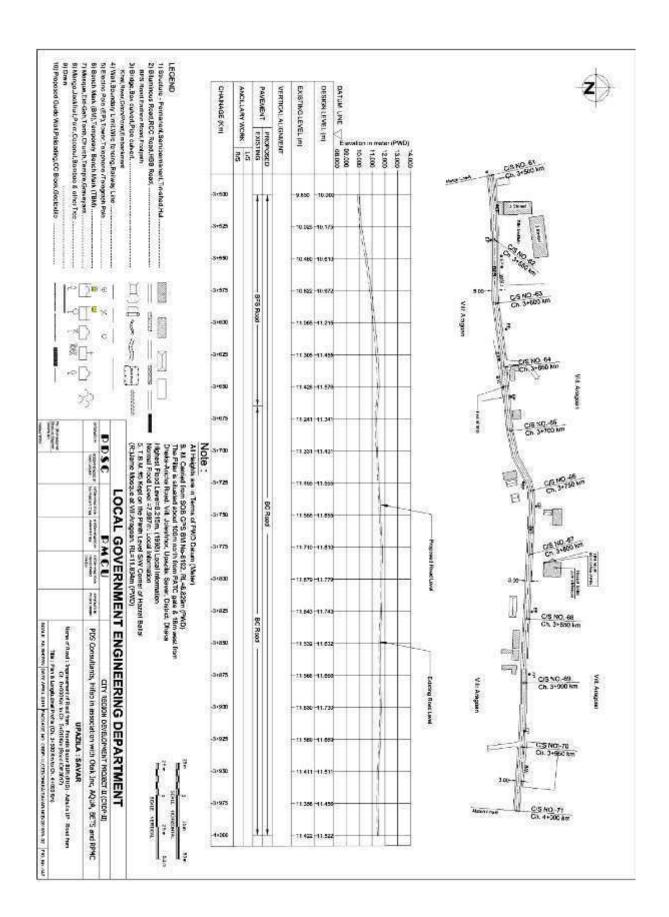


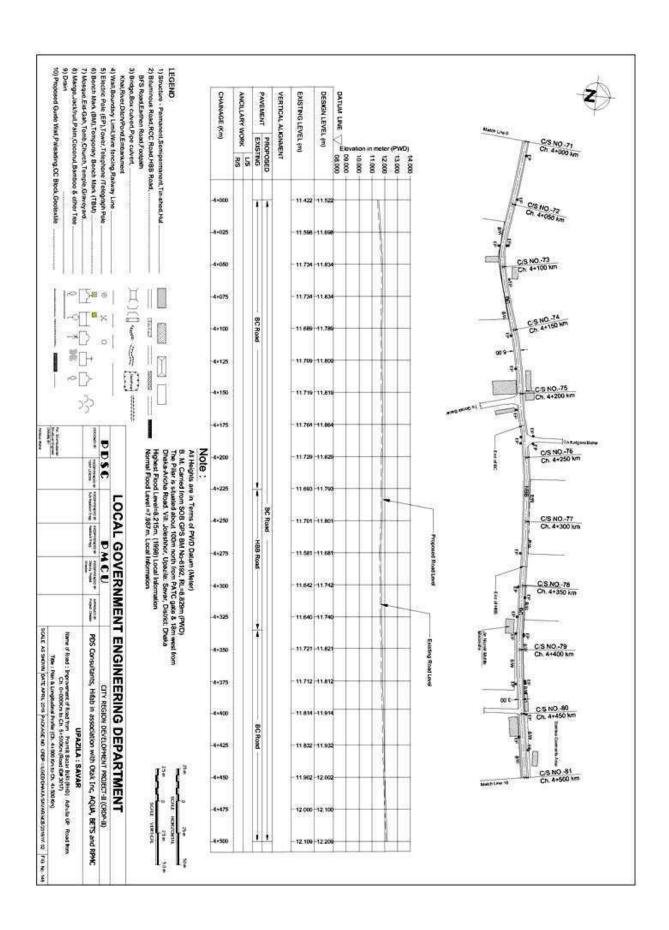


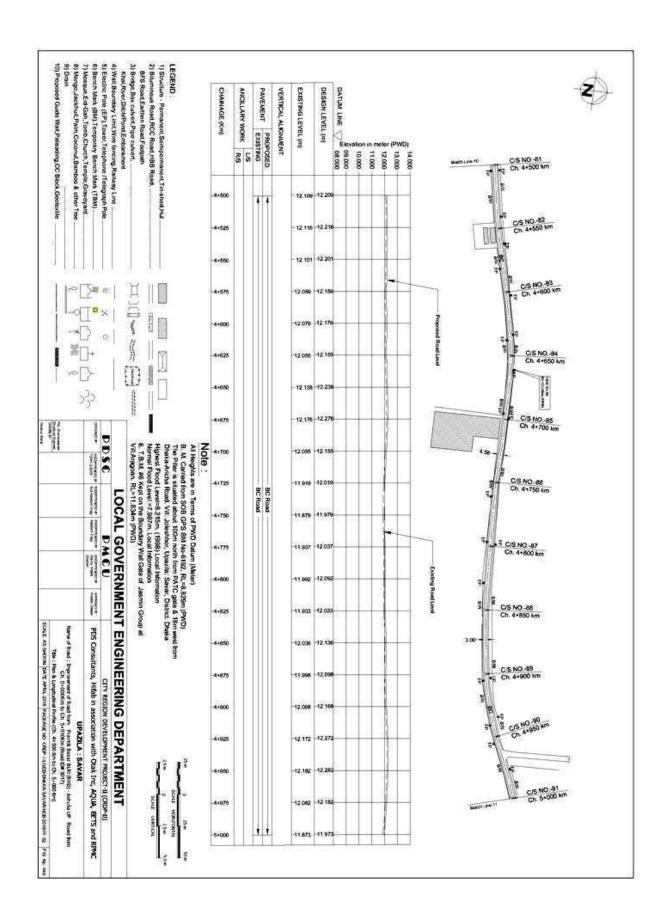


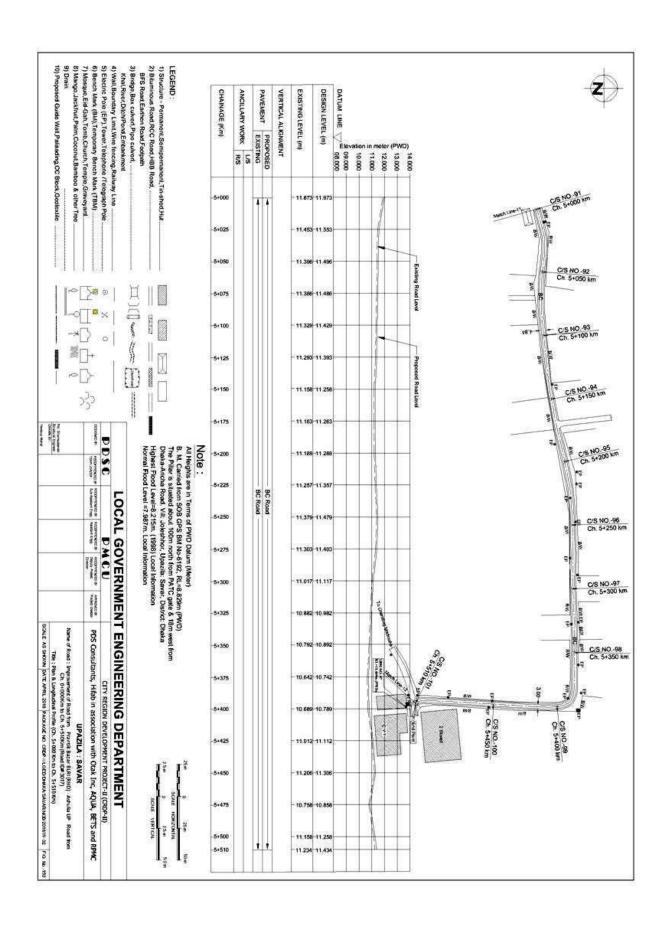




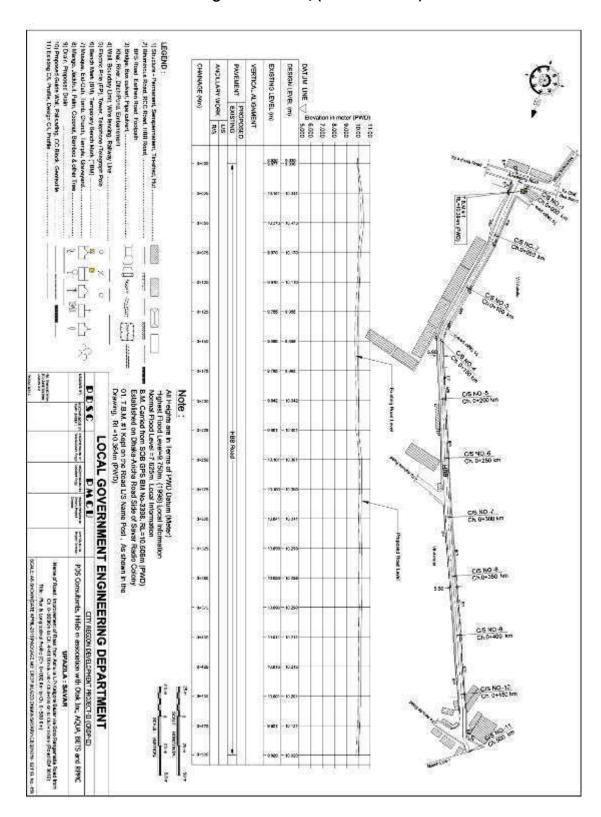


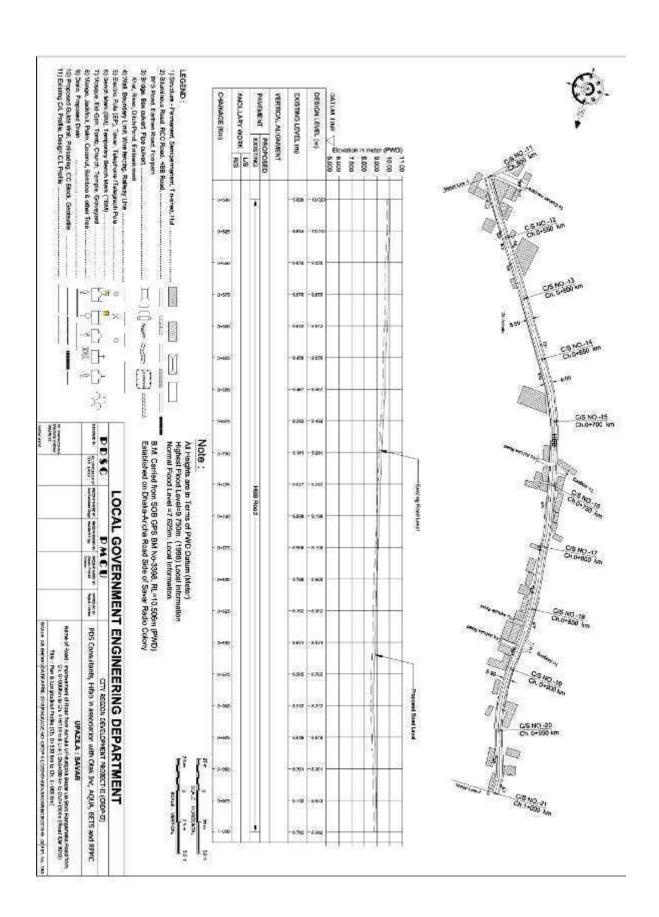


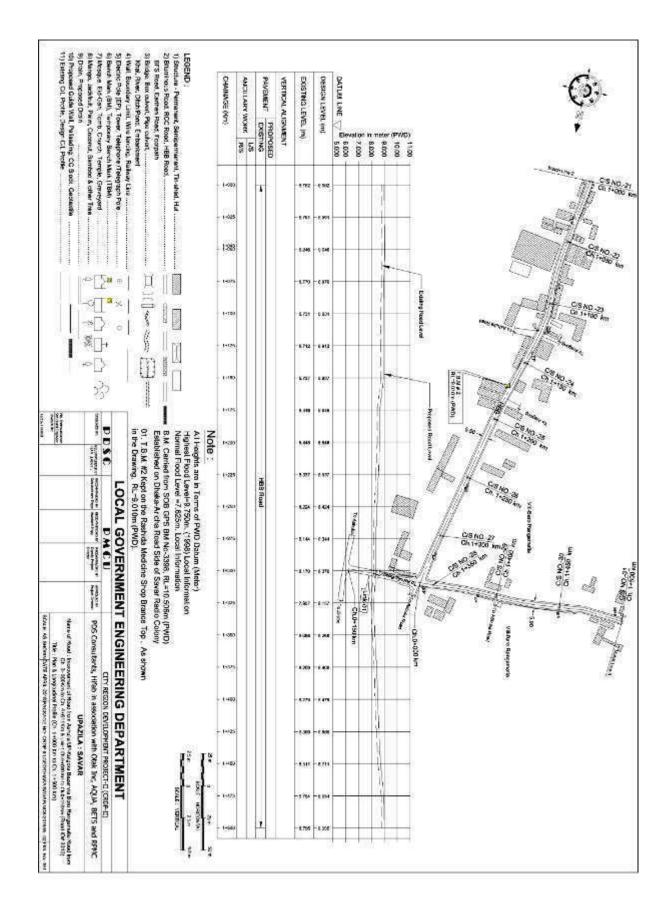


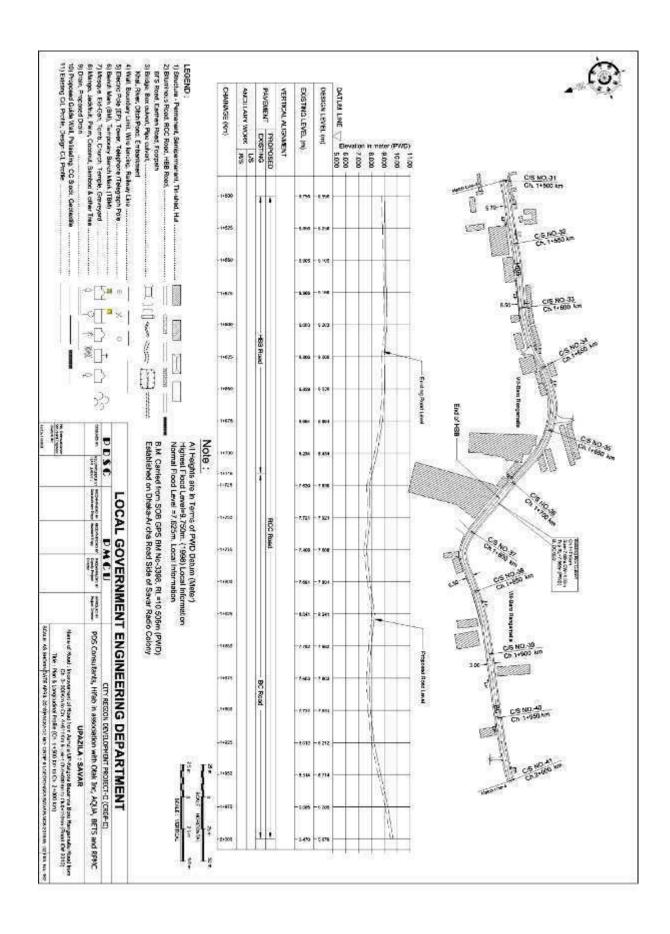


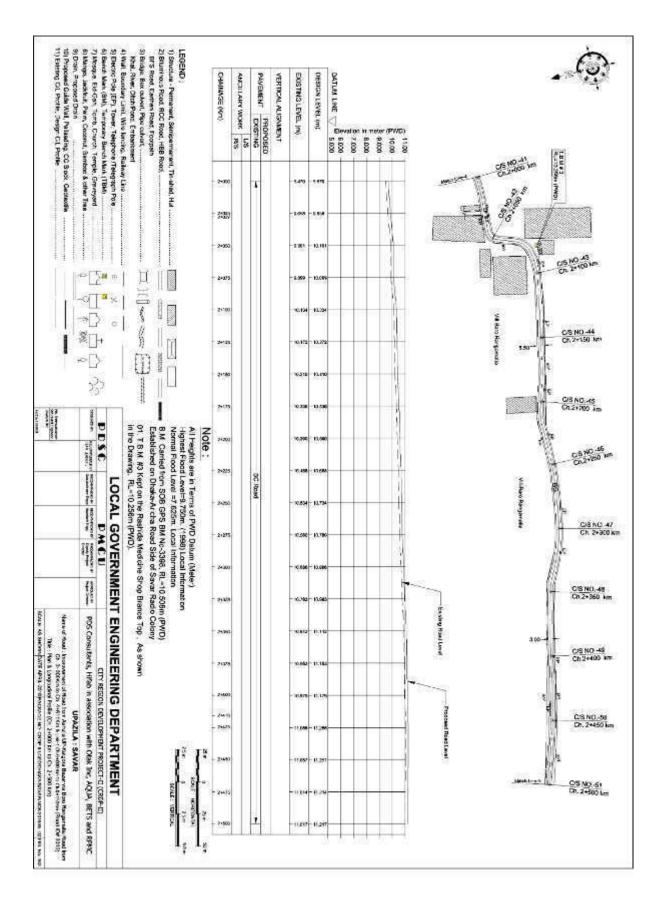
Appendix 6: Strip Maps of Subproject Alignment - Ashulia UP-Katgora Bazar via Boro Rangamatia Road, (Road ID: 3010)

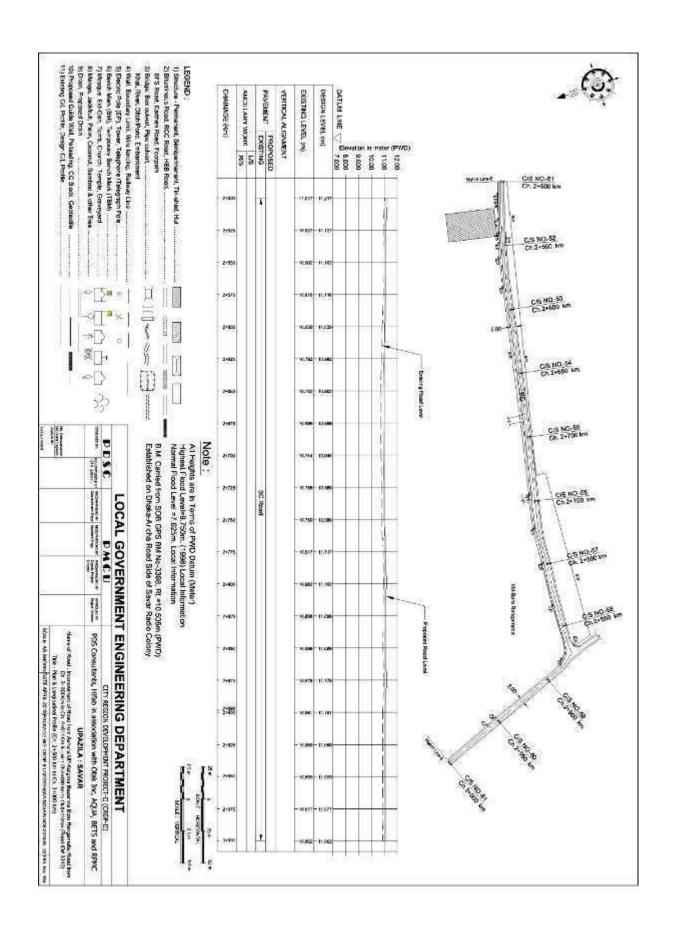


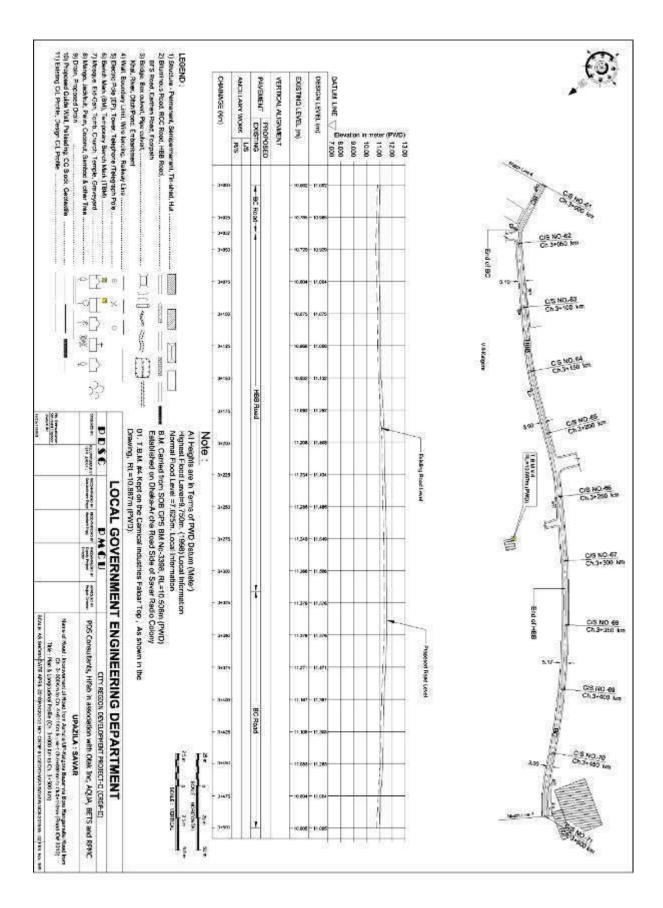


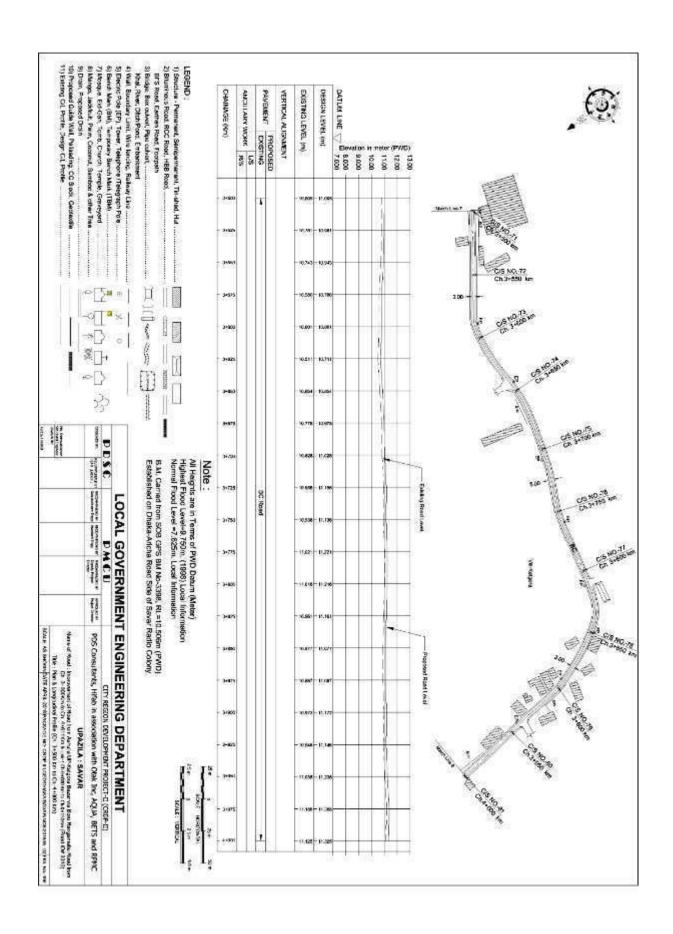


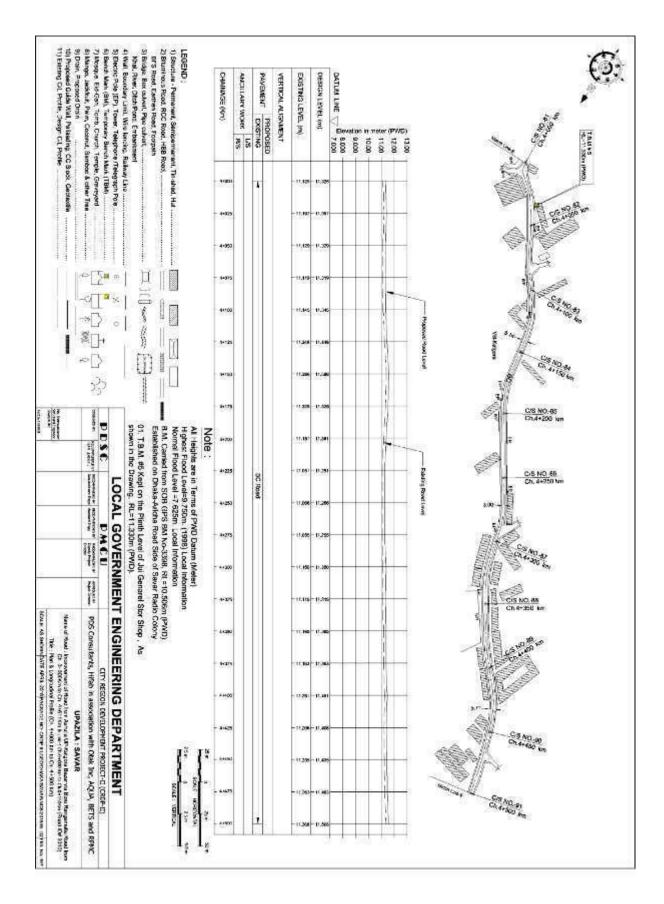


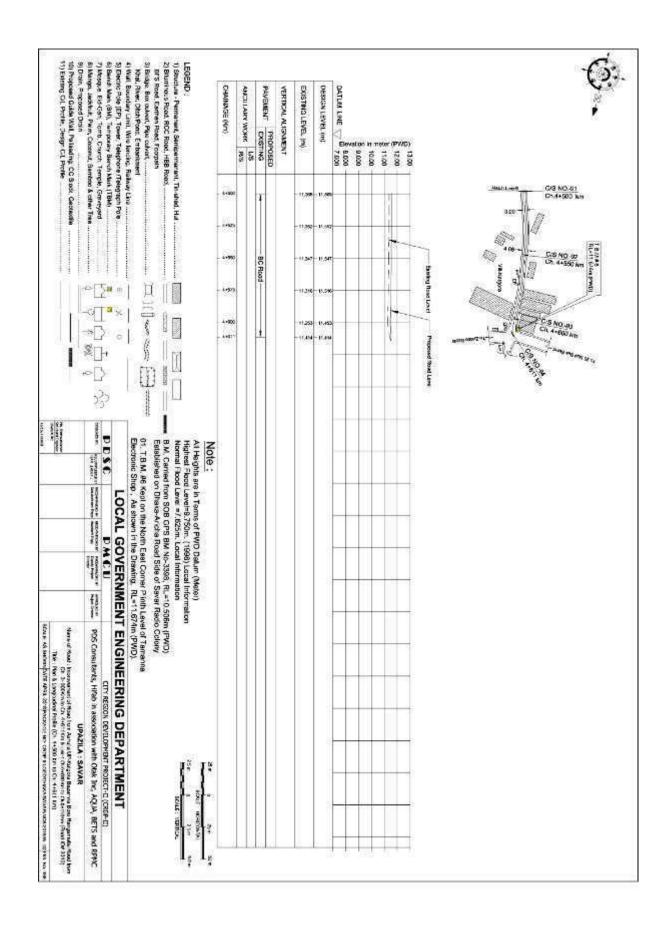


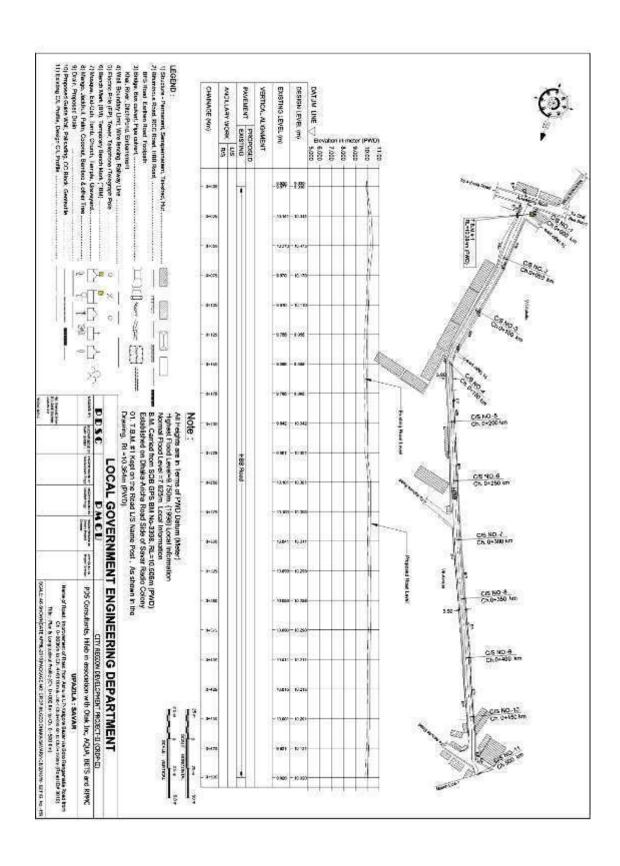


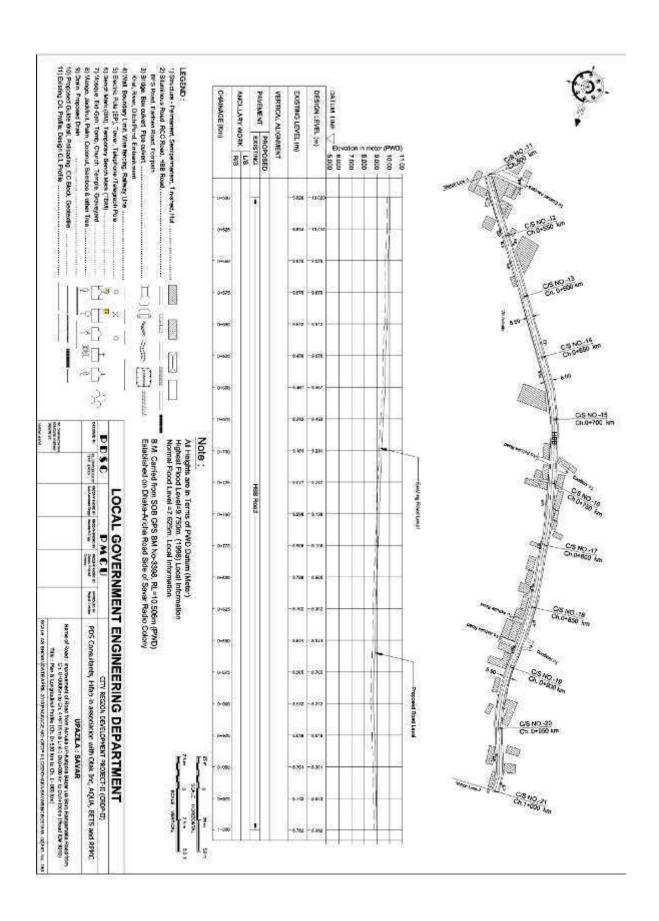


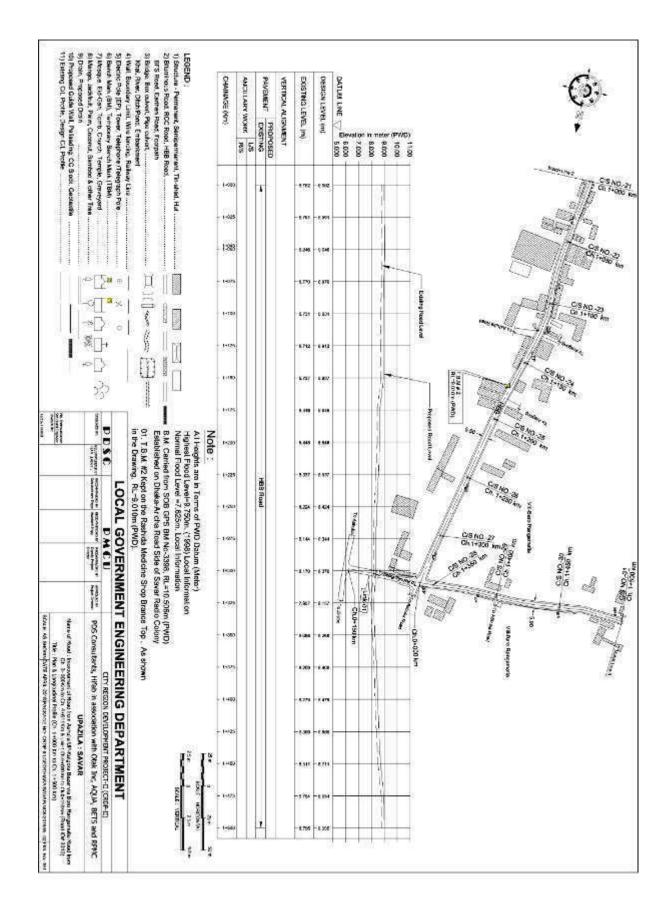


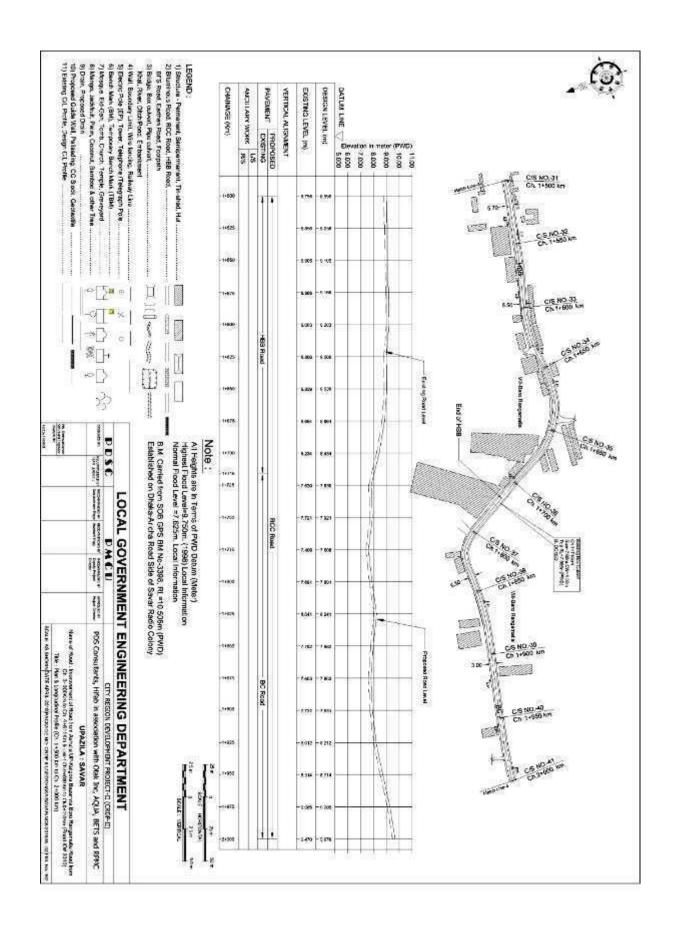


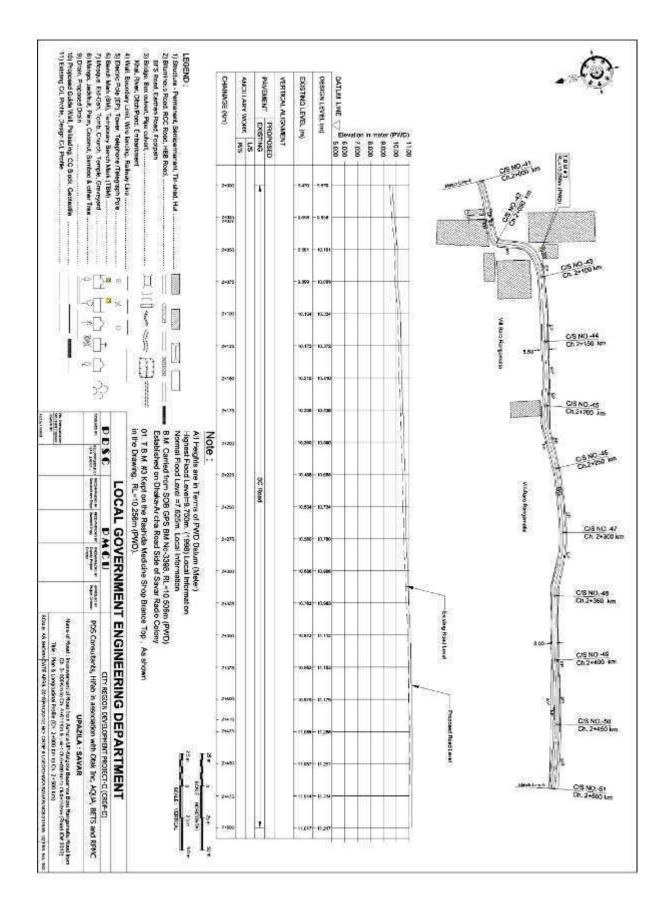


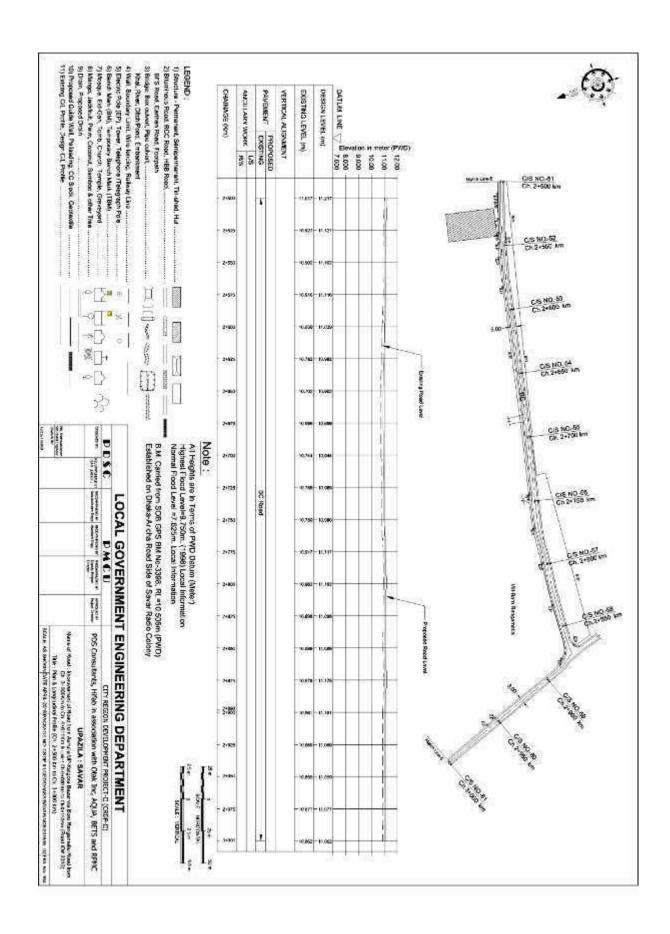


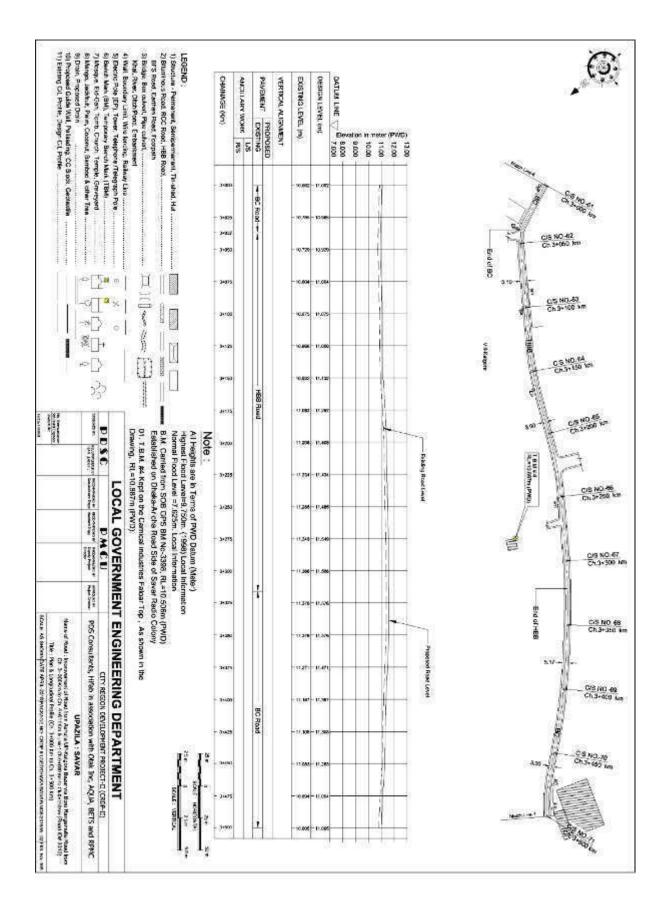


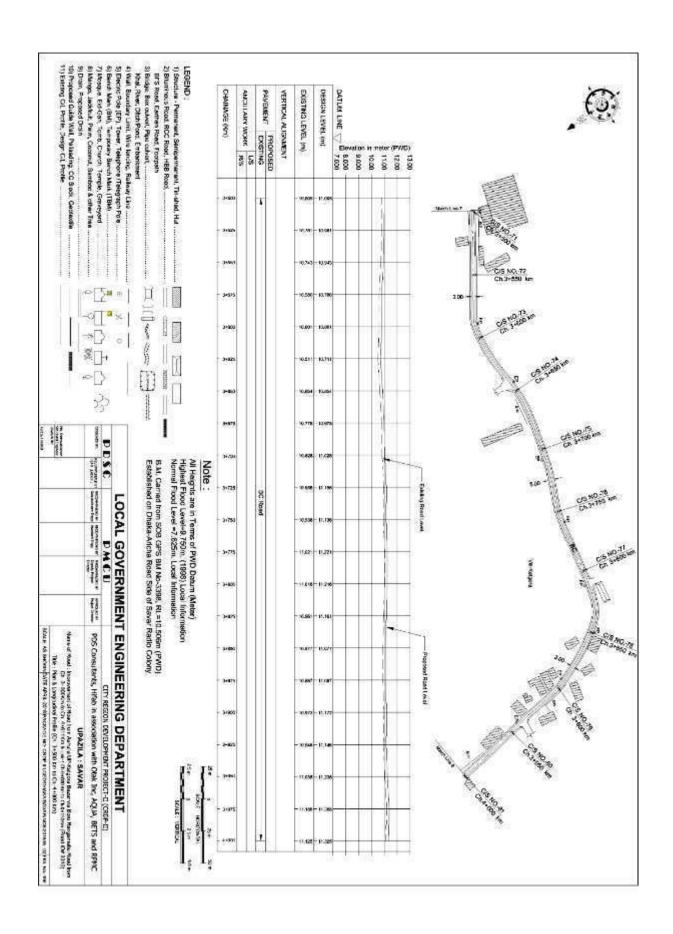


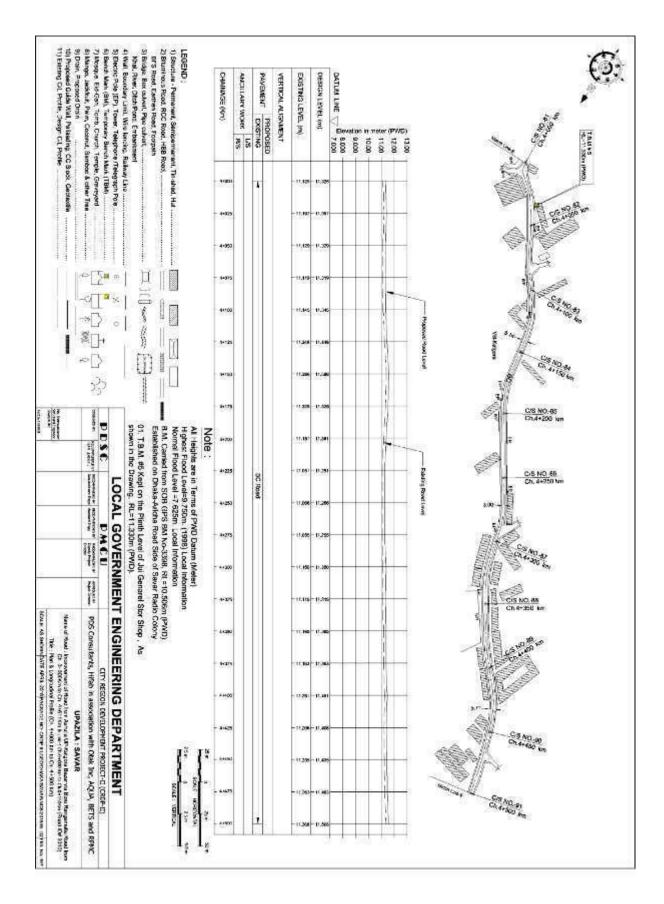


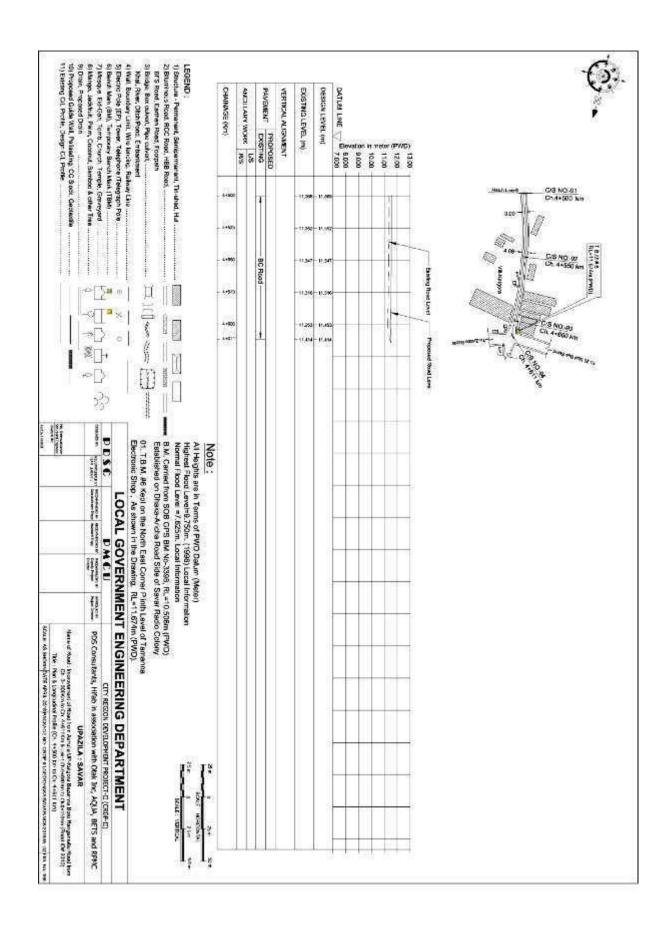




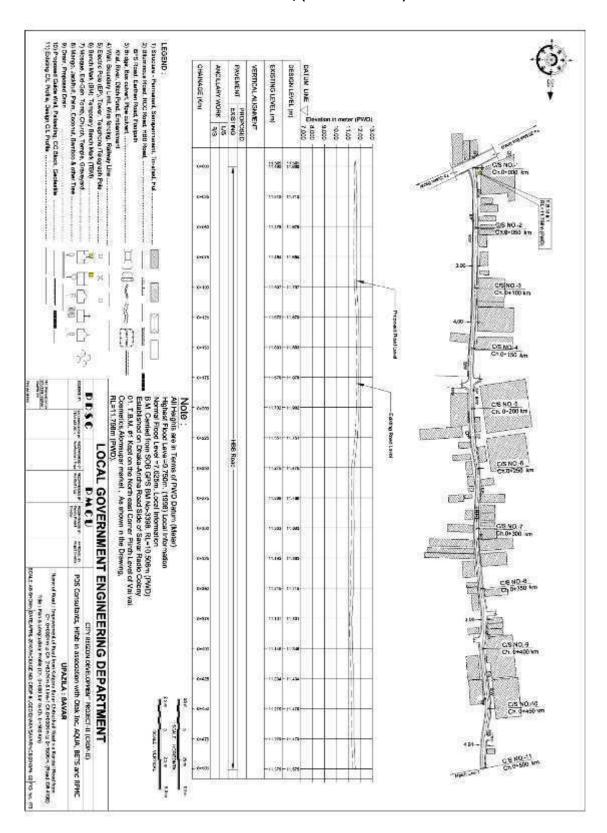


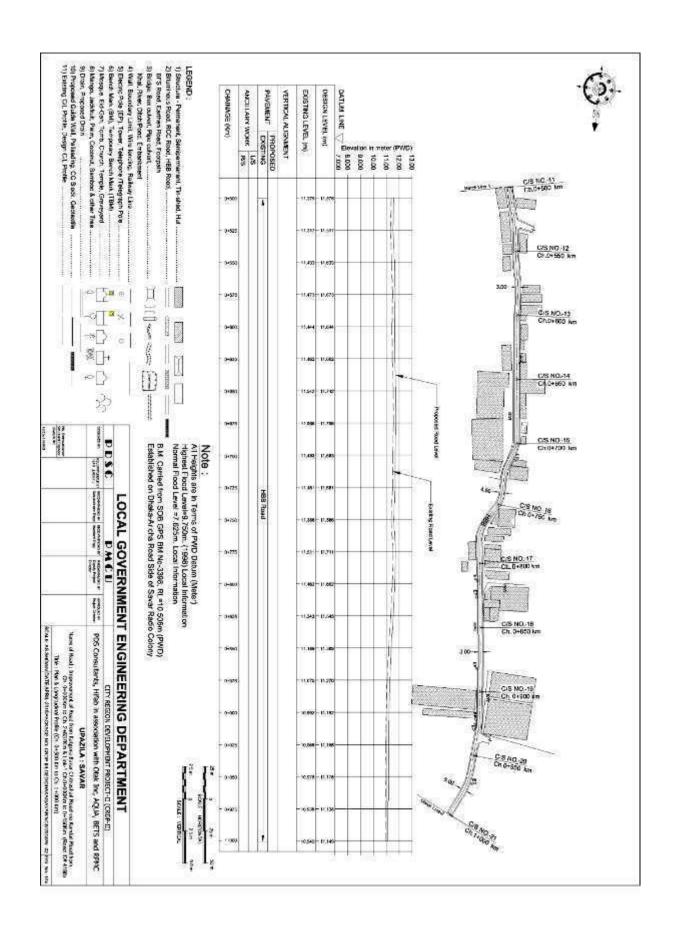


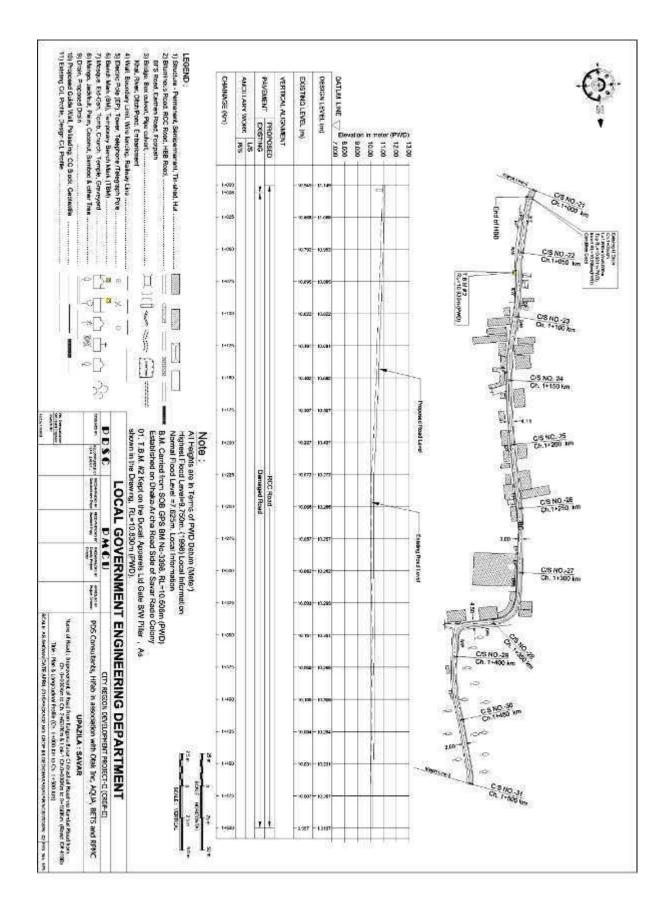


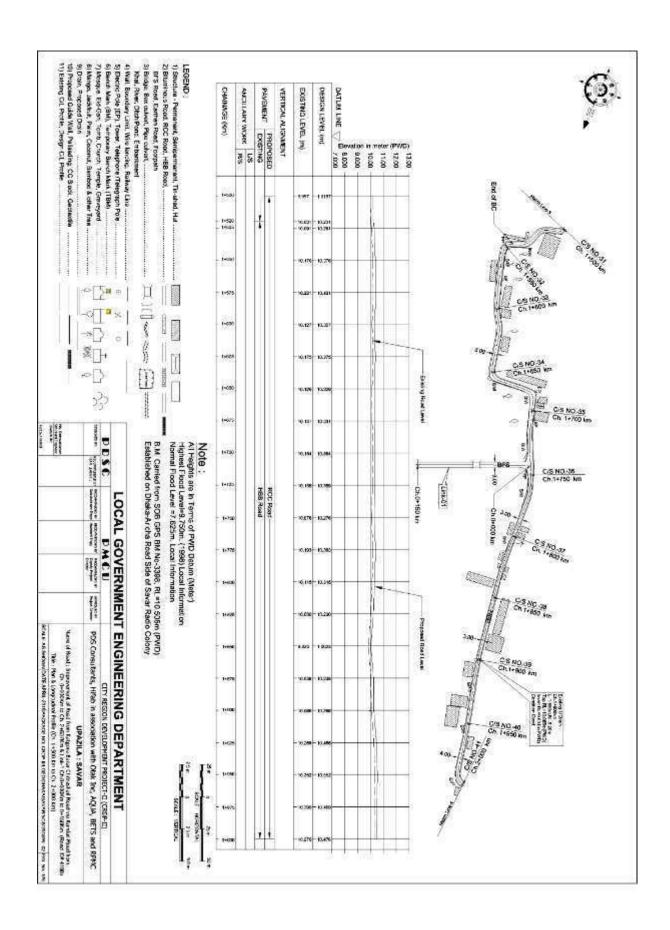


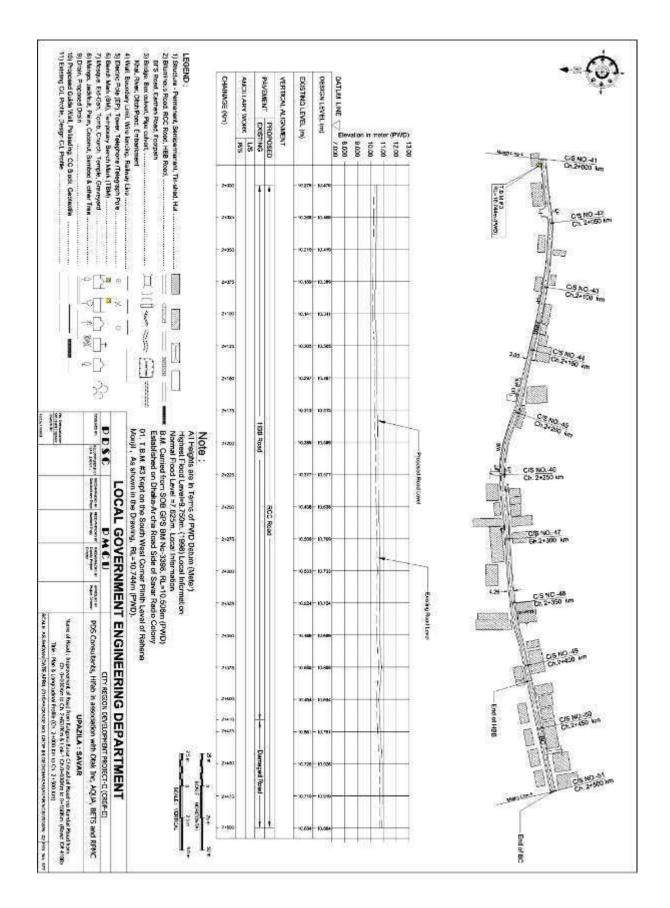
Appendix 7: Strip Maps of Subproject Alignment – Katgora Bazar Chitrashail Road via Kandail Road, (Road ID: 4198).

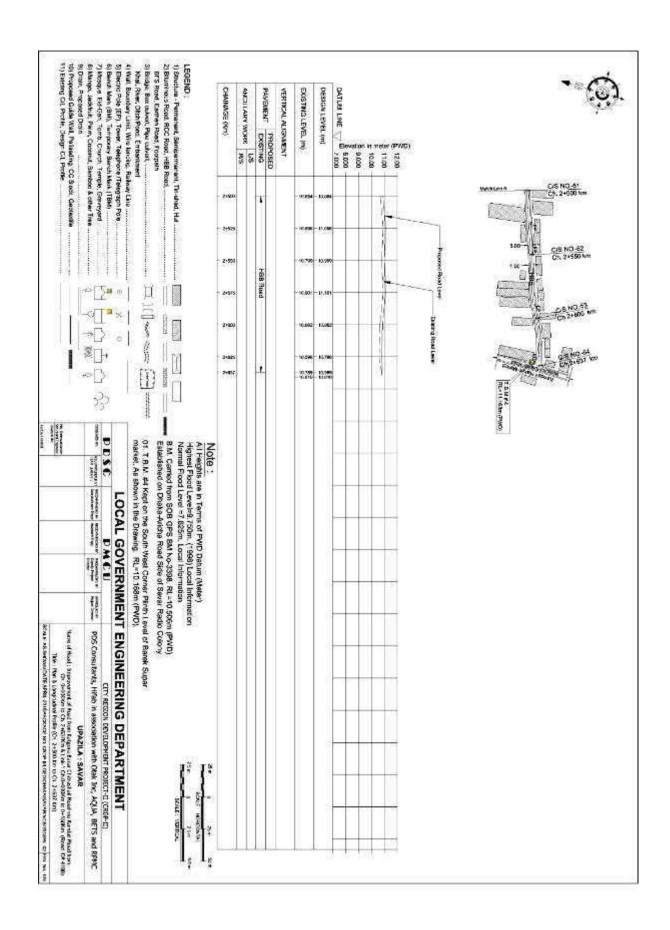


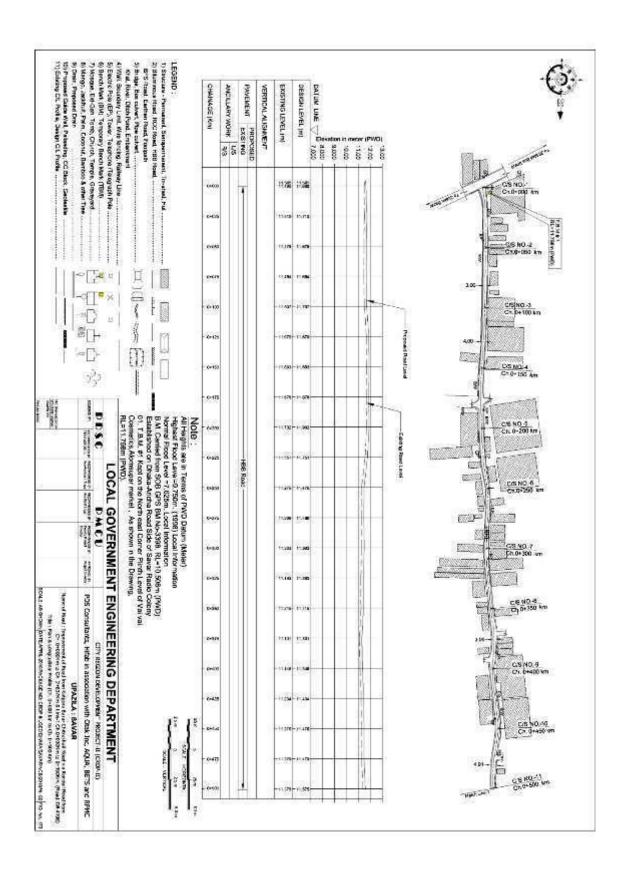


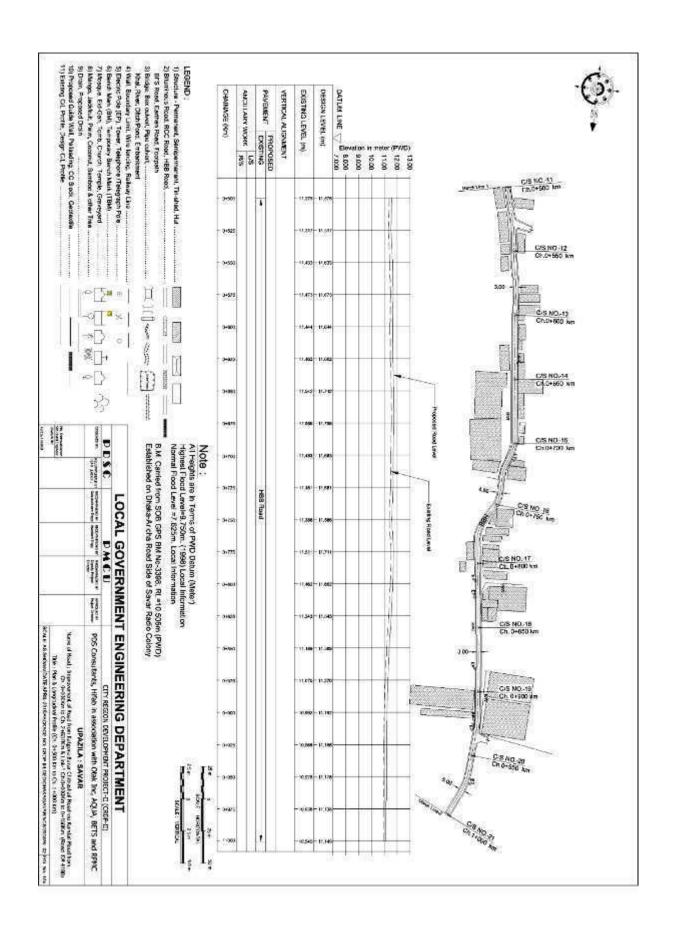


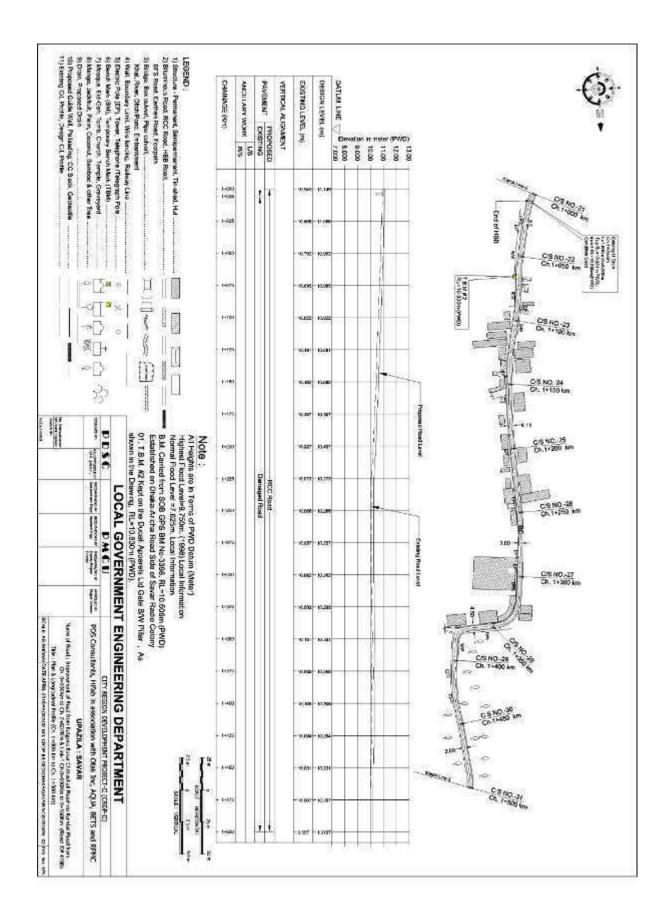


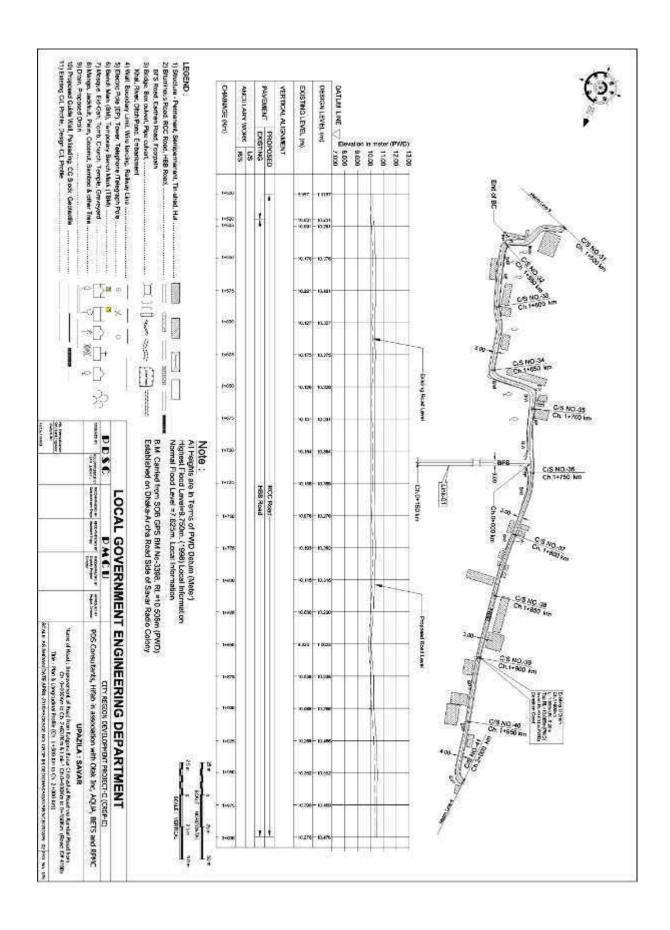


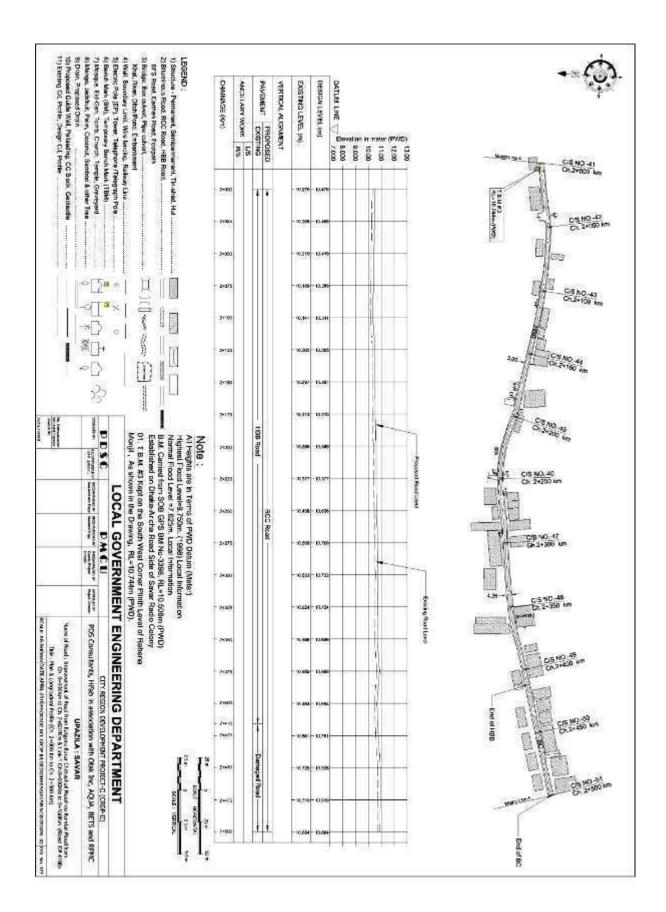


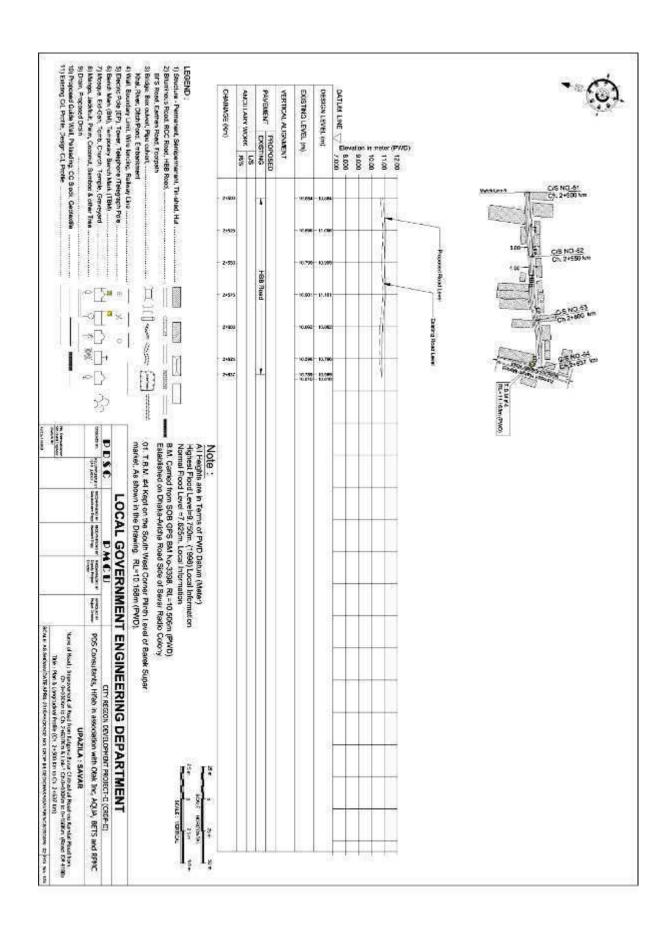












Appendix 8: Sample Spoil Management Plan

Purpose and application: Spoil Management Plan (SMP) is to describe how Second CRDP will manage the spoil generated and reuse related to design and construction works. This is an integral part of EMP. The objective of SMP is to reuse of spoil from works in accordance with the spoil management hierarchy outlined in this document.

Objectives of SMP: The objectives of SMP are:

- (i) To minimize spoil generation where possible
- (ii) Maximize beneficial reuse of spoil from construction works in accordance with spoil management hierarchy
- (iii) Mange onsite spoil handling to minimize environmental impacts on resident and other receivers
- (iv) Minimize any further site contamination of land, water, soil
- (v) Manage the transportation of spoil with consideration of traffic impacts and transport related emissions

Structure of SMP:

Section1: Introduction of SMP

Section2: Legal and other requirements Section3: Roles and responsibilities

Section4: Identification and assessment of spoil aspects and impacts

Section5: Spoil volumes, characteristics and minimization

Section6: Spoil reuses opportunities, identification and assessment

Section7: Onsite spoil management approach Section8: Spoil transportation methodology

Section9: Monitoring, Reporting, Review, and Improvements

Aspects and potential impacts

The key aspects of potential impacts in relation to SMP are listed in table below

Aspects	PotentialImpacts
Air Quality	Potential for high winds generating air borne dust
	from the stockpiles
Sedimentation	Potential for sediment laden site runoff from spoil stockpiles and potential for spillage of spoil from truck on roads
Surface and groundwater	Contamination of surface and ground water
Noise	Associated with spoil handling and haulage and
	storage
Traffic	Impacts associated with spoil haulage
Land Use	Potential for spoil to be transported to a that does
	not have permission for storage/disposal
Design specifications	Limitations on opportunities to minimize spoil
	generation
Sustainability	Limited sites for storage, reuse opportunities

Spoil volumes, Characteristics and Minimization

Spoil volume calculations: Estimate the volumes of spoils produced from each of the construction sites.

Characterization of spoil: Based on the type of spoil; characterization is done (sandstone, mud-mix materials, reusable materials

Adopt Spoil Reduce, Reuse Opportunities: An overview of the assessment methodology to be used is mentioned below.

- Consideration of likely spoil characteristics
- Identification of possible reuse sites
- Screening of possible reuse opportunities

Identification of possible safe disposal sites for spoil: Those spoils which can't be reuses hall be properly disposed in designated areas, such disposal areas should be identified in project locations. Such disposal areas should be safe from environmental aspects and there should be any legal and resettlement related issues. Such areas need to be identified and prior cliental approval should be obtained to use it as spoil disposal area. The local administration must be consulted and if required permission should be obtained from them.

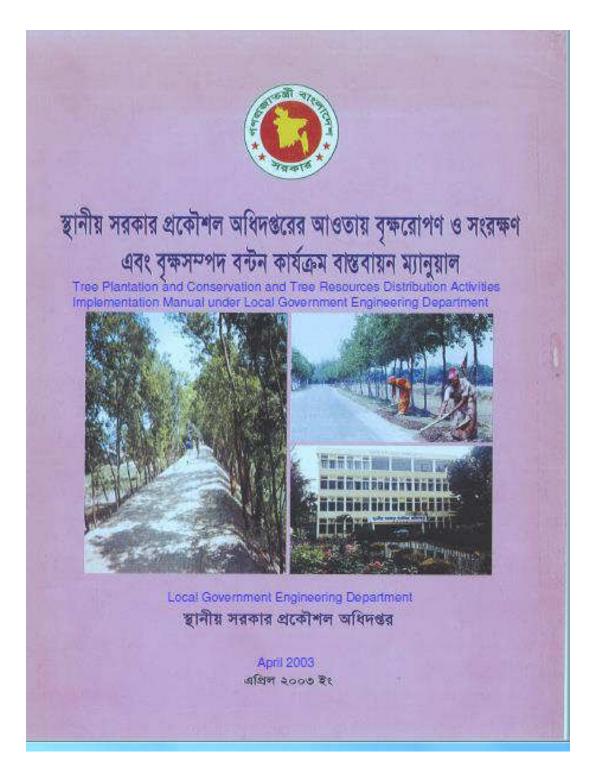
Storage and stockpiling Transportation and haulage route

Based on the above, the contractor will prepare a SMP as an integral part of EMP and submit to the PDSC for their review and approval.

Summary of Key Issues and Remedial Actions

Summary of follow-up time-bound actions to be taken within a set time frame.

Appendix 9: LGED Tree Plantation Program Manual (Cover Page and Table of Contents)
Note: Copy of the full manual is available upon request at the PMCU Office



Tree Plantation and Conservation and Tree Resources Distribution Activities Implementation Manual under Local Government Engineering Department

Table of Contents

- 1. Tree Plantation and Conservation in the LGED's Premises and Fallow Land
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- 1.6 Implementing Office and Designated Officer
- 1.7 Responsibility of the implementing Office's Designated Officer

2. Roadside Tree Plantation and Conservation

- 2.1 Road Maintenance
- 2.2 Tree Plantation and Caring
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 - 2.3.1 Road Maintenance, Tree Plantation and Conservation Scheme Identification, Scheme Preparation, Approval, Financing and Implementation Process
 - 2.3.2 Implementation adopting Lenthperson Process by Organized Women Group
 - 2.3.3 Worker Selection
 - 2.3.4 Worker Selection Policy
 - 2.3.5 Formation of the Interview Board
 - 2.3.6 Campaign
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 - 2.3.8 Team Formation
 - 2.3.9 Responsibility of Women Worker
 - 2.3.10 Responsibility of Co-women group Leader
 - 2.3.11 Responsibility of Women group Leader
 - 2.3.12 Recruitment of Supervisor
 - 2.3.13 Provide Appointment Letters
 - 2.3.14 Provide Equipments among Worker Women for Maintenance Work
 - 2.3.15 Initiation of Implementation of Scheme
- 2.4 Training
 - General Awareness Training for Women Workers on Road Maintenance, Plantation and Conservation
 - 2.4.2 General Awareness Training for Women Workers on Primary Health Care and Income-generating Activities
- 2.5 Inspection and Monitoring
 - 2.5.1 Inspection and Monitoring System of Road Maintenance, Plantation and Conservation Program

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	2.9.7	Responsibility of Sub-Assistant Engineer			
	2.9.8	Responsibility of Upazila Engineer (UE)			
	2.9.9	Responsibility of LGEO's Executive Engineer (Training)			
	2.9.10	Responsibility of LGED's District Executive Engineer			
3. T	ree Plantati	on at Embankment and Canal Bank and their Conservation			
3.1	Selection	of Proposals for Tree Plantation and Conservation at			
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3.2	Implemen	tation			
3.3	Selection	of Tree Species			
	3.3.1	Tree planting Distance			
	3.3.2	Tree Sapling Planting Method			
	3.3.3	Tree Caring and Prohibition			
		Inspection and Monitoring			
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3.5	Financing	a Antonios			
3.6	Implemen	ting Agency			
3.7	Tree Resources Distribution				
3.8	Distributio	n of Money from Sale of Trees Grown at Embankment			
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Annexures

A) Road

Road/Annex - 1: Tree Species Selection, Tree Plantation and Caution in

Road/Annex – 2: Method of Tree Sapling Plantation
Road/Annex – 3: Points Value for Priority Ranking

Road/Annex - 4: Technical Report

Road/Annex – 5: Format for Cost Estimate

Road/Annex – 6: Appointment Letter of Women Worker
Road/Annex – 6a: Appointment Letter of Supervisor

Road/Annex - 7: Women Worker's acceptance Letter for Working Tools for

Road Maintenance, Tree Plantation and Conservation

Scheme

Road/Annex - 8: Regular Road Maintenance and Tree Care Monitoring

Register

Road/Annex – 8a: Work Code and Description

Road/Annex - 8b: Daily Activity Report of Regular Maintenance Work done by

Women Worker

Road/Annex - 9: Monthly Monitoring of Regular Road Maintenance and Tree

Care

Road/Annex – 10: Monthly Monitoring Summary Report

Tree Resources Distribution Agreement

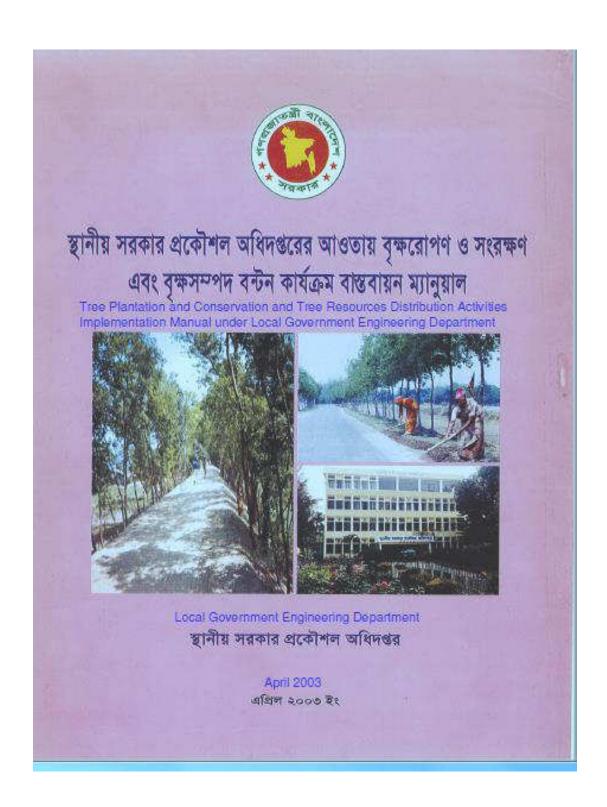
B) Embankment

Embankment/Annex- 1: Proposal of Plantation at Embankment Slope and Canal Bank

Embankment/Annex- 2: Schedule 1

Embankment/Annex- 3: Executable at a Non-Judicial Stamp of Value of Taka 150.00
Embankment/Annex- 4: Contractor's Responsibility and Condition of Recruitment
Embankment/Annex- 5: Sample – Method of Tree Plantation at Embankment Slope

Embankment/Annex- 6: Template of Monthly Proress Report



Tree Plantation and Conservation and Tree Resources Distribution Activities Implementation Manual under Local Government Engineering Department

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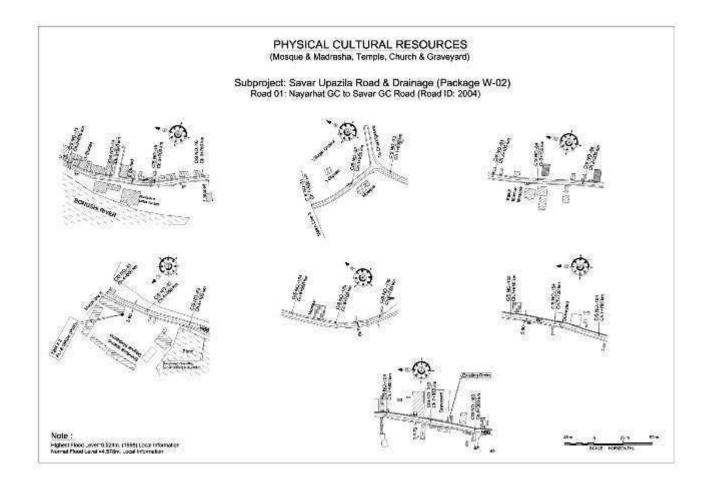
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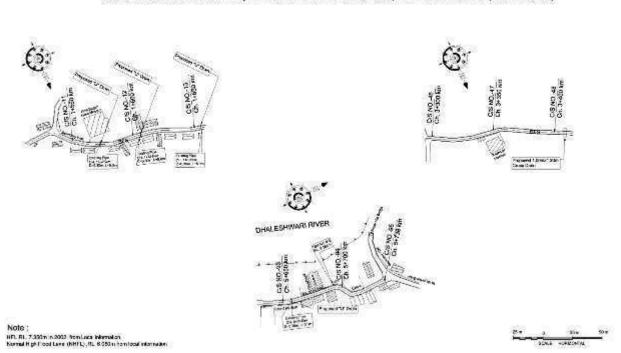
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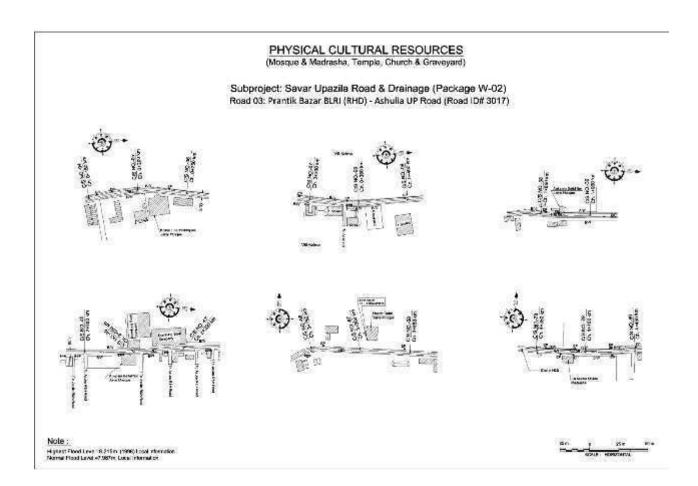
Embankment/Annex- 6: Template of Monthly Proress Report

Appendix 10: Strip Maps Showing PCRs (Religious Establishments) Along the Road Alignments

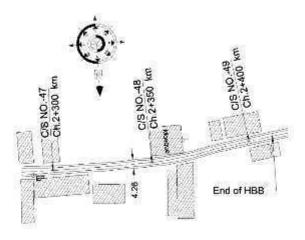


Subproject: Savar Upazila Road & Drainage (Package W-02)
Road 02: Dhaka Aricha RHD at Dairy Farm Gate-Pathalia UP Office Kashipur and Monohor Road. (Road ID# 3024)

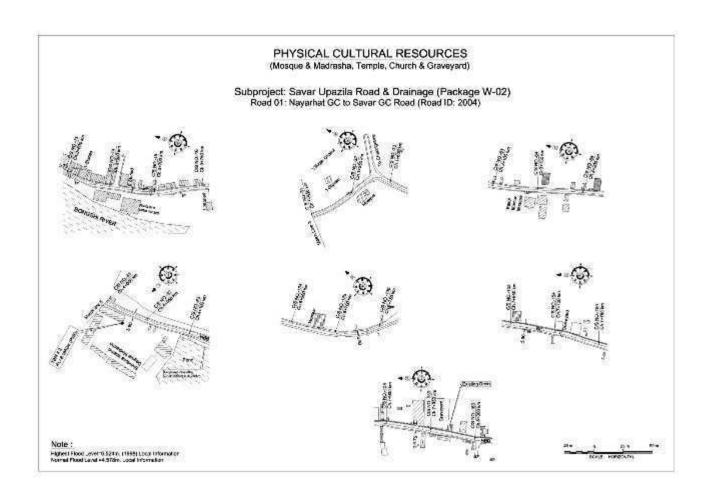




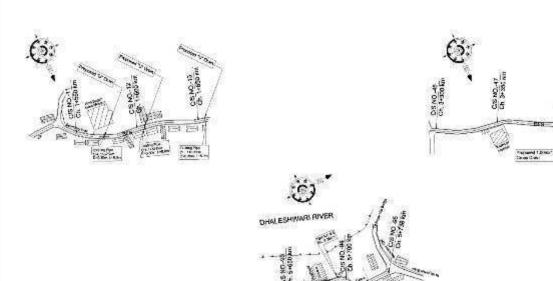
Subproject: Savar Upazila Road & Drainage (Package W-02) Road 05: Katgora Bazar Chitrashail Road via Kandail Road. (Road ID# 4198)



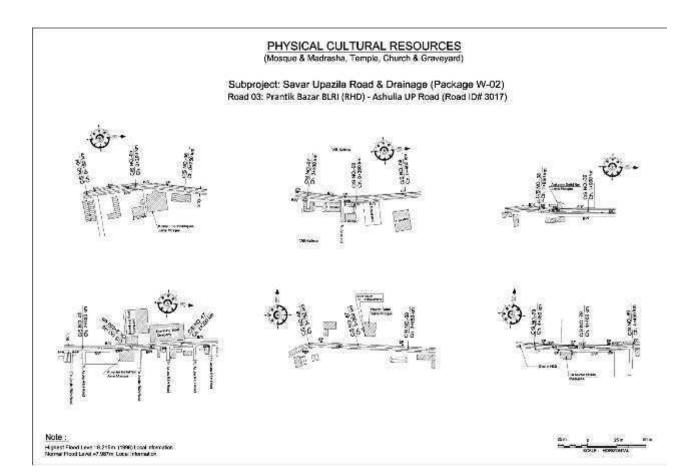
Note: Highest Floor Level 9 750th (1996) Local Information Normal Hood Level = /152th, Local Information



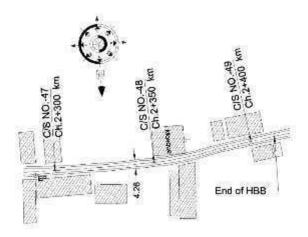
Subproject: Savar Upazila Road & Drainage (Package W-02)
Road 02: Dhaka Aricha RHD at Dairy Farm Gate-Pathalia UP Office Kashipur and Monohor Road. (Road ID# 3024)



Note: ; HFL RL 7.330m in 2003, from Lara Internation, hormad High Food Lare (HHTL), (IL 6050m from local Information



Subproject: Savar Upazila Road & Drainage (Package W-02) Road 05; Katgora Bazar Chitrashail Road via Kandail Road. (Road ID# 4198)



Note:

Highwil Flood Lewer'S 750m (1996) Local information Normal Hood Level = 7.525m. Local information

Appendix 11: Public Consultations

Details of date, time, location, type of participants and discussed issues are presented in a tabular form below:

SI.	Date of	Road & Place	Number & Type	Issues Discussed
No	Consultation	of consultation	of Participants	
01	16.09. 18	1.At roadside of - Nayarhat GC-Savar GC Road (ID 2004)	Total 41 (male 20, female 21) (Councilors, Retired Govt. Officials, Local Elite, Businessmen, project beneficiaries etc.)	General perception about the project and the awareness about the proposed project are disseminated in the meeting. The following pre-defined issues are discussed in the consultation meetings:
				 Information dissemination about the subproject
				 possible impacts of the subproject
				 participation of local people in different project activities
				 Employment potential for local people in the project works
				 Loss of residential/commercial structures, if any due to the project
				 Resettlement and land acquisition (if foreseen specially on private land).
				 Impact on social issues due to the project
				 Protected areas (national park, protected forest, religiously sensitive sites, historical or archaeological sites), if any
				 Any critical issue or concern by the local people regarding the project
				 Grievances redress mechanism etc.

02.		2. At roadside of - Dhaka-Aricha RHD at Dairy Farm Gate - Pathalia UP Office kashipur and Monohor Road.(ID 3024)	Total 21 (male 14, female 7) (Councilors, Retired Govt. Officials, Local Elite, Businessmen, project beneficiaries etc.)	•
03	09.11.17	At roadside of – 3. Prantik bazar BLRI – Ashulia UP Road (ID 3017) 4. Ashulia UP - Katgora bazar via Baro Rangamatia Road (ID 3010) 5. Katgora Bazar – Chitrashail Road via Kandail Road.(ID 4198)	Total 18 (male 13, female 5) (Councilors, Businessmen, Local Elites, Beneficiaries Service holders etc.)	

Finding in the public consultation meeting

- Local people will support the project activities.
- The main issue arising from the consultation is that the people of this area suffering
 huge traffic congestion due to movement of heavy container truck. They cannot
 easily move to the school, hospital, and their working place from their due to
 congestion. Peoples will be benefitted who are residing alongside the road of
 area if the project will undertake..
- The area is dominating business area about 70% are depends on business and the rest service and cultivations.
- During construction period short term community activities will be affected.
- No resettlement and land acquisition required for due to the project, only compensation need for the unauthorized shop and residence.
- There is no protected area in and around the project area.
- The project will never impact on natural water body and not contaminate the soil resources.
- The NGOs within the areas are: ASA, BRAC, Grameen Bank, Karitas, MSS, ODC, UPPR, JIZ, Gonosasto, etc.



LIST OF PARTICIPANTS

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Attendance sheet of Consultation meeting

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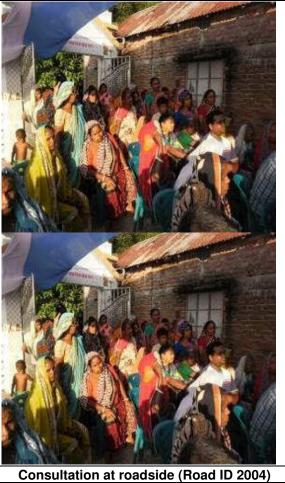
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Photographs of Community Consultations





Consultation at roadside (Road ID 2004)









Appendix 12: Sample Grievance Registration Form

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Village / Town						
District						
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	, (an regional grid i	u. 100)			
Mode of con	nmunication:					
■ Note/	Letter					
E-ma	il					
Verba	al/Telephonic					
Reviewed by	: (Names/Position	s of Official(s) revi	ewing grievar	ice)		
Action Take	n:					
Whether Act	ion Taken Disclos	sed:	■ Ye	 S		
			■ No			
Means of Dis	sclosure:		1			

Appendix 13: Suggested Template for Record-Keeping of Grievances

SI. No.	Date of receipt of grievance	Name and contact details of complainant	Description of complaint	Nature of complaint	Decisions taken	Response given to complainant and date	Whether closed/ resolved

Appendix 14: Indicative Terms of Reference for Safeguards Specialist for PMCU, PIUs and PDSC

A. Preparation, Design, and Supervision Consultants (PDSC)

1. Environmental Safeguards Specialist (National)

1. **Experience.** A civil engineer with specialization in environment, having at least 5-10 years of working experience related to the integration of environmental issues in design, and construction of infrastructure projects. Past experience working on donor projects preferable.

2. Detailed Tasks:

- (i) Prepare Initial Environmental Examination (IEE)in accordance with the Environmental Assessment Review Framework (EARF) for subprojects;
- (ii) Assist PMCU Environment Officer in ensuring prepared IEEs are submitted to ADB for review;
- (iii) Assist PMCU in ensuring approved IEEs are disclosed on PMCU/LGED website;
- (iv) Ensure approved final IEEs and Environmental Management Plans (EMPs) are included in contract documents;
- (v) Assist PMCU in ensuring compliance of Second CRDP and its subprojects with all relevant national laws:
- (vi) Interact with the sector specialists and integrate environmentally sound practices into the detailed design of project components;
- (vii) Work out the site specific mitigation and adaptation measures for components as required and integrate the same into contractual provisions;
- (viii) Assist the international environment/Climate Change specialist in environmental training programs and workshops for the staffs of the PMCU, PIU and contractors and in accordance to the Capacity Building Program;
- (ix) Prepare activity plans as identified in IEE (includes site management plans, waste management plans, sludge management and disposal plans, occupational safety plans, etc.);
- (x) Assist PIU in reviewing the contractors' SEMPs to ensure compliance with the IEE/EMP:
- (xi) Assist PIU in supervising the implementation of the EMP and SEMP by the contractors:
- (xii) Assist PIU in preparing quarterly environmental monitoring reports and submit to PMCU;
- (xiii) Review site specific environmental enhancement/mitigation designs worked out by the contractor and assist PIU in approving such designs;
- (xiv) Assist in providing occupational health and safety training for contractors' personnel before commencement of civil works for all sub-projects;
- (xv) Assist the PMCU environment officer in preparing semi-annual environmental monitoring reports and submit to ADB;
- (xvi) Establish dialogue with the affected communities and ensure that the environmental concerns and suggestions are incorporated and implemented in the project;
- (xvii) Assist PMCU and PIUs in attending to or facilitating responses to any public grievances per GRM; and
- (xviii) Assist in any other task assigned by the PMCU Environment Officer and/or supervising consultant in relevance to effective project implementation.

B. Project Management Coordination unit (PMCU)

1. Environmental Safeguards Officer - PMCU

3. **Experience.** An Environmental Engineer / scientist with experience in management of environmental issues of infrastructure projects and understanding of the regulatory framework for environmental management in Bangladesh.

Detailed Tasks:

- (i) Ensure the conformance of all Subprojects proposed under the project to the regulatory compliance to the Government, with reference to environmental requirements, with support from the Environmental Officer of the PIUs. This shall include preparation of the documents as required under the Environmental Conservation rules, submission of application forms, and obtaining clearances from the DOE; and ensuring conformance to the clearance conditions laid down in the clearances for the Subprojects by the DOE;
- (ii) Liaise with the various Government agencies on environmental and other regulatory matters pertaining to implementation of the subprojects;
- (iii) Work closely with the PIUs and provide guidance on the shifting of utilities and services, including obtaining necessary clearances from the respective line agencies, prior to award of civil works contracts;
- (iv) Provide support and assistance to the Government Agencies and the Asian Development Bank to supervise the implementation of the IEE during the construction as well as operation stage of the project;
- (v) Monitor construction activities to ensure that identified and appropriate control measures are effective and in compliance with the IEE and advise PIUs for compliance with statutory requirements;
- (vi) Work in close co-ordination with the Social Safeguards officer of the PMCU and participate in the Grievance Redressal Mechanism for all grievances that are brought forward to the PMCU. Monitor on a continuous basis the effective functioning of the Grievance mechanisms at the PIU and Pourashava levels on all grievances related to environmental issues; and
- (vii) Jointly (with the environmental engineer of the PMCU), review the environmental performance of the project through an assessment of the periodic environmental monitoring reports submitted by the PDSC; provide a summary of the same to the Project Director, and initiate necessary follow-up actions.

2. Environmental Engineer - PMCU

- 5. **Experience.** A Civil Engineer with specialization in Environment with experience in implementation of environmental management plans of infrastructure projects, especially those funded by donor agencies.
- Detailed Tasks.
- (i) Review the IEE Document and contract clauses and ensure adequacy under ADB's Environmental Assessment Guidelines, 2003 and the updated Safeguards Policy Statement, 2009 and identify any areas for improvement.
- (ii) Ensure that the subproject design and specifications adequately reflect the IEE.

- (iii) Monitor construction activities to ensure that identified and appropriate control measures are effective and in compliance with the IEE.
- (iv) Review and approve the Contractor's Implementation Plan for the environmental measures, as per IEEs/EMPs.
- (v) Liaise with the Contractors and Consultants on the implementation of the Environmental management measures proposed in the IEE/EMP.
- (i) Jointly (with the environmental safeguards officer of the PMCU), review the environmental performance of the project through an assessment of the periodic environmental monitoring reports submitted by the PDSC; provide a summary of the same to the Project Director, and initiate necessary follow-up actions.
- (ii) Document the good practices in the project, with support from Environmental Specialists of the PDSC and PIU on (a) incorporation and integration of environmental issues into engineering design and (b) on implementing environmental measures in the construction, and dissemination of the same.

C. Project Implementation Unit (PIU)

1. Environmental Officer (PIU)

7. **Experience.** A civil engineer with working experience related to the integration of environmental issues in design, and construction of infrastructure projects.

Detailed tasks:

- (i) Support the Environmental Safeguards officer of the PMCU towards ensuring the conformance of the subproject to the regulatory compliance to the Government, with reference to environmental requirements; including preparation of documents required for clearances, obtaining clearances from the divisional office of the DOE, etc..
- (ii) Work with the PDSC Environmental Specialists in the preparation of the Environmental Safeguards Documents; including integration of environmental provisions into the contract provisions of the respective subprojects.
- (iii) With support of the PMCU and PDSC Environmental Specialists, monitor compliance of the implementation of the environmental provisions; and ensure that identified control measures are effective and in compliance with the IEE.
- (iv) Review and approve the Contractor's Implementation Plan for the environmental measures, as per IEEs/EMPs.
- (v) Liaise with the Contractors and Consultants on the implementation of the Environmental management measures proposed in the IEE/EMP; including the implementation of the environmental monitoring plan outlined in the IEE.
- (vi) Establish dialogue with the affected communities and ensure that the environmental concerns and suggestions are incorporated and implemented in the project.
- (vii) Participate in the Grievance redressal of all grievances pertaining to environment and support the PIU/Pourashava in redressal of the same.
- (viii) Prepare and submit environmental monitoring and implementation progress reports with support from PDSC consultants, to the PMCU.
- (ix) Assist Environmental Specialist of the PMCU to prepare good practice dissemination notes based on the experience gained from site supervision.

Appendix 15: Traffic Management Plan Template

A. Principles

- 1. One of the prime objectives of this traffic management plan (TMP) is to ensure the safety of all the road users along the work zone, and to address the following issues:
 - > the safety of pedestrians, bicyclists, and motorists travelling through the construction zone;
 - protection of work crews from hazards associated with moving traffic;
 - mitigation of the adverse impact on road capacity and delays to the road users;
 - maintenance of access to adjoining properties
 - Avoid hazards in addressing issues that may delay the project.

B. Operating Policies for Traffic Management Plan

- 2. The following principles will help promote safe and efficient movement for all road users (motorists, bicyclists, and pedestrians, including persons with disabilities) through and around work zones while reasonably protecting workers and equipment.
 - Make traffic safety and temporary traffic control an integral and high-priority element of every project from planning through design, construction, and maintenance.
 - Inhibit traffic movement as little as possible.
 - > Provide clear and positive guidance to drivers, bicyclists, and pedestrians as they approach and travel through the temporary traffic control zone.
 - Inspect traffic control elements routinely, both day and night, and make modifications when necessary.
 - > Pay increased attention to roadside safety in the vicinity of temporary traffic control zones.
 - > Train all persons that select, place, and maintain temporary traffic control devices.
 - > Keep the public well informed.
 - Make appropriate accommodation for abutting property owners, residents, businesses, emergency services, railroads, commercial vehicles, and transit operations.

C. Analyze the Impact Due to Street Closure

- 3. Apart from the capacity analysis, a final decision to close a particular street and divert the traffic should involve the following steps:
 - approval from the local authorities to use the local streets as detours;
 - consultation with businesses, community members, traffic police, etc, regarding the mitigation measures necessary at the detours where the road is diverted during the construction;
 - determining of the maximum number of days allowed for road closure, and incorporation of such provisions into the contract documents;
 - determining if additional traffic control or temporary improvements are needed along the detour route;
 - considering how access will be provided to the worksite;
 - contacting emergency service, school officials, and transit authorities to determine if there are impacts to their operations; and
 - developing a notification program to the public so that the closure is not a surprise. As part of this program, the public should be advised of alternate routes that commuters can take or will have to take as result of the traffic diversion.

4. If full road-closure of certain streets within the area is not feasible due to inadequate capacity of the Detour Street or public opposition, the full closure can be restricted to weekends.

Figure A8.1: Policy Steps for the TMP · Review construction schedule and methods Review · Identify initial traffic recirculation and control policy Traffic Re-Circulation · Identify routes for traffic diversions Traffic Diversions · Analyse adverse impact & mitigation at the detours · Begin community consultation for consensus Full Road Colsures · Finalise or determine alternate detours · Identify temporary parking (on and off -street) · Discuss with CMC, owner, community for use Temporary parking · Coordinate with the Traffic Police to enforce traffic and diversions Police Coordination · Install traffic control devices (traffic cones, sgns, lightings, etc) Install control devices · Conduct campaigns, publicity, and notify public about street closure Awareness Develop a mechanism to address public grievances regarding disruptons (traffic, utilities, and diversions) Public Redress

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	Identify routes for traffic diversions
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	Begin community consultation for consensus
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	Coordinate with theTraffic Police to enforce traffic and diversions
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	Install traffic control devices (traffic cones, sgns, lightings, etc)
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ess	Conduct_campaigns, publicity, and notify public about street closure
255	

D. Public awareness and notifications

- 5. As per discussions in the previous sections, there will be travel delays during the constructions, as is the case with most construction projects, albeit on a reduced scale if utilities and traffic management are properly coordinated. There are additional grounds for travel delays in the area, as most of the streets lack sufficient capacity to accommodate additional traffic from diverted traffic as a result of street closures to accommodate the works.
- 6. The awareness campaign and the prior notification for the public will be a continuous activity which the project will carry out to compensate for the above delays and minimize public claims as result of these problems. These activities will take place sufficiently in advance of the time when the roadblocks or traffic diversions take place at the particular streets. The reason for this is to allow sufficient time for the public and residents to understand the changes to their travel plans. The project will notify the public about the roadblocks and traffic diversion through public notices, ward level meetings and city level meeting with the elected representatives.
- 7. The PMCU and PIU will also conduct an awareness campaign to educate the public about the following issues:
 - raffic control devices in place at the work zones (signs, traffic cones, barriers, etc.);
 - defensive driving behavior along the work zones; and
 - reduced speeds enforced at the work zones and traffic diversions.
- 8. It may be necessary to conduct the awareness programs/campaigns on road safety during construction.

- 9. The campaign will cater to all types of target groups i.e. children, adults, and drivers. Therefore, these campaigns will be conducted in schools and community centers. In addition, the project will publish a brochure for public information. These brochures will be widely circulated around the area and will also be available at the PMCU, PIU and the contractor's site offices. The text of the brochure should be concise to be effective, with a lot of graphics. It will serve the following purpose:
 - Explain why the brochure was prepared, along with a brief description of the project;
 - > Advise the public to expect the unexpected;
 - > Educate the public about the various traffic control devices and safety measures adopted at the work zones:
 - Educate the public about the safe road user behavior to emulate at the work zones;
 - > Tell the public how to stay informed or where to inquire about road safety issues at the work zones (name, telephone, mobile number of the contact person; and
 - Indicate the office hours of relevant offices.

E. Vehicle Maintenance and Safety

- 10. A vehicle maintenance and safety program shall be implemented by the construction contractor. The contractor should ensure that all the vehicles are in proper running condition and it comply with roadworthy and meet certification standards of Government of Bangladesh. All vehicles to be used shall be in perfect condition meeting pollution standards of Government of Bangladesh. The vehicle operator requires a prestate of shift checklist. Additional safety precautions will include the requirement for:
 - Driver will follow the special code of conduct and road safety rules of Government of Bangladesh.
 - > Drivers to ensure that all loads are covered and secured drivers to ensure operation equipment can't leak materials hauled
 - > Vehicles will be cleaned and maintained in designed places.

F. Install traffic control devices at the work zones and traffic diversion routes

- 11. The purpose of installing traffic control devices at the work zones is to delineate these areas to warn, inform, and direct the road users about a hazard ahead, and to protect them as well as the workers. As proper delineation is a key to achieve the above objective, it is important to install good traffic signs at the work zones. The following traffic control devices are used in work zones:
 - > Signs
 - Pavement Markings
 - Channelizing Devices
 - Arrow Panels
 - Warning Lights
- 12. Procedures for installing traffic control devices at any work zone vary, depending on road configuration, location of the work, construction activity, duration, traffic speed and volume, and pedestrian traffic. Work will take place along major roads, and the minor internal roads. As such, the traffic volume and road geometry vary. The main roads carry considerable traffic; internal roads in the new city areas are wide but in old city roads very narrow and carry considerable traffic. However, regardless of where the construction takes place, all the work zones should be cordoned off, and traffic shifted away at least with traffic cones, barricades, and temporary signs (temporary "STOP" and "GO").
- 13. The work zone should take into consideration the space required for a buffer zone between the workers and the traffic (lateral and longitudinal) and the transition space required for delineation, as applicable. For the works, a 30 cm clearance between the traffic and the temporary STOP and GO signs should be provided. In addition, at least 60 cm is necessary to install the temporary traffic signs and cones.
- 14. Traffic police should regulate traffic away from the work zone and enforce the traffic diversion result from full street closure in certain areas during construction. Flaggers/ personnel should be equipped with reflective jackets at all times and have traffic control batons (preferably the LED type) for regulating the traffic during night time.
- 15. In addition to the delineation devices, all the construction workers should wear fluorescent safety vests and helmets in order to be visible to the motorists at all times. There should be provision for lighting beacons and illumination for night constructions.
- 16. The PIU and contractor will coordinate with the local administration and traffic police regarding the traffic signs, detour, and any other matters related to traffic. The contractor will prepare the traffic management plan in detail and submit it along with the EMP for the final approval.

Appendix 16: Sample Daily Monitoring Sheet for Contractors

CITY REGIONS DEVELOPMENT PROJECT II Contractor Monitoring Sheet

Name of Subproject:	
Location of Subproject:	
Chainage covered (for linear works):	
Supervising PIU:	
Contractor:	
Contractor EHS Supervisor (or equivalent):	
Date of monitoring:	

Summary of Findings

Summary of Findings							
Monitoring Item	Status	Remarks					
1. Compliance with Local Permit Requirements	(Secured / Application Submitted / Not Applicable)						
Location/zoning permits							
Permit to construct							
Building permit							
Transport / hauling permits	/Ammunus d / Harday						
2. Compliance with IEE Requirements	(Approved / Under Preparation / Submitted to PIU for Approval)						
Site-specific EMP (SEMP)							
Corrective Action Plan, if any							
3. Compliance with SEMP							
Construction Site	(Satisfactory / Needs Improvement / Not Implemented)						
- Conduct of toolbox talk							
- Use of PPE							
- Rest areas for male and female							
workers							
- Toilets for male and female workers							
- Medical kits							
- Drinking water supply							
- Dust control							
- Noise control							
- Solid waste management							
- Wastewater management							
- Chemicals storage (fuel, oil, etc.)							
- Siltation or erosion control							
- Heavy equipment staging / parking area							
- Barricades around excavation sites							
- Access to residential							
houses/shops/businesses							
- Traffic routing signages							
- Lightings at night							
- Trench shoring / landslide protection							

Monitoring Item	Status	Remarks
Construction Workers' Camp Site	(Available / Needs Improvement / Not Available)	
 Quarters for male and female workers 		
- Sleeping utilities (e.g. beds, pillows,		
blankets, mosquito nets, etc.)		
- Power/Electricity supply		
- Drinking water supply		
- Toilets for male and female workers		
General purpose water supply (cooking, washing, bathing)		
- Cooking facilities and areas		
- Solid waste management		
- Wastewater management		
- Pest control		
4. Implementation of GRM	(Yes / No or None / Under Resolution)	
Complaints		
Complaints resolution		
5. Environmental Quality Measurement	(Passed / Failed / Not Applicable)	
Ambient air quality sampling		
Noise level measurement		
Receiving water quality sampling		

Other Issues:	
Attachments: 1. Copies of permits secured, if any. 2. Photos taken at worksites, if any. (photos attached in previous monitoring sheets should not be used again). 3. Laboratory results of environmental quality measurements, if any.	
Prepared by: Name, Designation and Signature	

Appendix 17: Sample Inspection Report for PMCU and PIUs

CITY REGIONS DEVELOPMENT PROJECT II SITE INSPECTION CHECKLIST

Subproject:	Date:
Location:	
Chainage (for linear works):	

Ī	MONITORING/INSPECTION QUESTIONS			GS	COMMENTS / CLARIFICATIONS
1.	Supervision and Management On-SIte	Yes	No	NA	
	a. Is an EHS supervisor available?				
	b. Is a copy of the SEMP available?				
	c. Are daily toolbox talks conducted on				
	site?				
2.	The Facilities	Yes	No	NA	
	 a. Are there a medical and first aid kits on site? 				
	 b. Are emergency contact details available on-site? 				
	c. Are there PPEs available? What are they?				
	d. Are the PPEs in good condition?				
	e. Are there firefighting equipment on site?				
	f. Are there separate sanitary facilities for male and female workers?				
	g. Is drinking water supply available for workers?				
	h. Is there a rest area for workers?				
	 i. Are storage areas for chemicals available and with protection? in safe locations? 				
3.	Occupational Health and Safety	Yes	No	NA	
	a. Are the PPEs being used by workers?				
	 Are excavation trenches provided with shores or protection from landslide? 				
	c. Is breaktime for workers provided?				
	d. How many for each type of collection vehicle is in current use?				
4.	Community Safety	Yes	No	NA	
	 a) Are excavation areas provided with barricades around them? 				
	b) Are safety signages posted around the sites?				
	 c) Are temporary and safe walkways for pedestrians available near work sites? 				

ı	MONITORING/INSPECTION QUESTIONS			SS	COMMENTS / CLARIFICATIONS
	d) Is there a record of treated wastewater quality testing/measurement?				
5.	Solid Waste Management	Yes	No	NA	
	Are excavated materials placed				
	sufficiently away from water courses?				
	b. Is solid waste segregation and				
	management in place?				
	c. Is there a regular collection fo solid				
	wastes from work sites?	\ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \	N. 1	N I A	
6.	Wastewater Management a) Are there separate sanitary facilities for	Yes	No	NA	
	Are there separate sanitary facilities for various types of use (septic tanks, urination, washing, etc.)?				
	b) Is any wastewater discharged to storm drains?				
	 c) Is any wastewater being treated prior to discharge? 				
	d) Are measures in place to avoid siltation of nearby drainage or receiving bodies of water?				
	e) Are silt traps or sedimentation ponds installed for surface runoff regularly cleaned and freed of silts or sediments?				
7.	Dust Control	Yes	No	NA	
	a. Is the construction site watered to				
	minimize generation of dust?				
	b. Are roads within and around the construction sites sprayed with water on regular intervals?				
	c. Is there a speed control for vehicles at construction sites?				
	d. Are stockpiles of sand, cement and other construction materials covered to avoid being airborne?				
	e. Are construction vehicles carrying soils and other spoils covered?				
	f. Are generators provided with air pollution control devices?				
	g. Are all vehicles regularly maintained to minimize emission of black smoke? Do they have valid permits?				
8.	Noise Control	Yes	No	NA	
	a) Is the work only taking place between 7 am and 7 pm, week days?				

ı	MONITORING/INSPECTION QUESTIONS			NDING	GS	COMMENTS / CLARIFICATIONS
	b)	Do generators operate with doors closed or provided with sound barrier around them?				
	c)	Is idle equipment turned off or throttled down?				
	d)	Are there noise mitigation measures adopted at construction sites?				
	e)	Are neighboring residents notified in advance of any noisy activities expected at construction sites?				
9.	Tra	affic Management	Yes	No	NA	
	a)	Are traffic signages available around the construction sites and nearby roads?				
	b)	Are re-routing signages sufficient to guide motorists?				
	c)	Are the excavation sites along roads provided with barricades with reflectors?				
	d)	Are the excavation sites provided with sufficient lighting at night?				
10.	Re	cording System	Yes	No	NA	
	a)	Do the contractors have recording system for SEMP implementation?				
	b)	Are the daily monitoring sheets accomplished by the contractor EHS supervisor (or equivalent) properly compiled?				
	c)	Are laboratory results of environmental sampling conducted since the commencement of construction activities properly compiled?				
	d)	Are these records readily available at the site and to the inspection team?				

Other Issues:							
Prepared by:	Name, Designation and Signature						

Appendix 18: Semi-Annual Environmental Monitoring Template

- Introduction
- Overall project description and objectives
- Environmental category as per ADB Safeguard Policy Statement, 2009
- Environmental category of each subproject as per national laws and regulations
- Project Safeguards Team

Name	Designation/Office	Email Address	Contact Number	Roles
1. PMU				
2. PIUs				
3. Consultants				
o. Consultants				

- Overall project and sub-project progress and status
- Description of subprojects (package-wise) and status of implementation (preliminary, detailed design, on-going construction, completed, and/or O&M stage)

Package	Components/List	Contract Status	Status of Implementation	If On-going	If On-going Construction		
Number	of Works	(specify if under bidding or contract awarded)	(Preliminary Design/Detailed Design/On-going Construction/Completed/O&M) ²²	%Physical Progress	Expected Completion Date		

COMPLIANCE STATUS WITH NATIONAL/STATE/LOCAL STATUTORY ENVIRONMENTAL REQUIREMENTS²³

Package No.	Subproject Name	Statutory Environmental Requirements ²⁴	Status of Compliance ²⁵	Validity if obtained	Action Required	Specific Conditions that will require environmental monitoring as per Environment Clearance, Consent/Permit to Establish ²⁶
					_	

Compliance status with environmental loan covenants

No. (List schedule and paragraph number of Loan Agreement)	Covenant	Status of Compliance	Action Required

- Compliance status with the environmental management plan (refer to EMP TaBLES in APPROVED IEE/S)
- Confirm if IEE/s require contractors to submit site-specific EMP/construction EMPs. If not, describe the methodology of monitoring each package under implementation.

Package-wise IEE Documentation Status

Package	F	inal IEE based or	gn	Site-specific	Remarks	
Number	Not yet due (detailed design not yet completed)	Submitted to ADB (Provide Date of Submission)	Disclosed on project website (Provide Link)	Final IEE provided to Contractor/s (Yes/No)	EMP (or Construction EMP) approved by Project Director? (Yes/No)	

•	For each package, environmental safeg	•	name/s	and	contact	details	of	contractor/s'	nodal	person/s	for

Package-wise Contractor/s' Nodal Persons for Environmental Safeguards

Package Name	Contractor	Nodal Person	Email Address	Contact Number

• With reference to approved EMP/site-specific EMP/construction EMP, complete the table below

Summary of Environmental Monitoring Activities (for the Reporting Period)²⁷

Impacts (List from IEE)	Mitigation Measures (List from IEE)	Parameters Monitored (As a minimum those identified in the IEE should be monitored)	Method of Monitoring	Location of Monitoring	Date of Monitoring Conducted	Name of Person Who Conducted the Monitoring
Design Pha	ise					
Pre-Constr	uction Phase					
Construction	on Phase		T			
Operationa	I Phase					

Overall Compliance with CEMP/ EMP

No.	Sub-Project	EMP/ CEMP	CEMP/ EMP	Status of	Action
	Name	Part of	Being	Implementation	Proposed and
		Contract	Implemented	(Excellent/ Satisfactory/	Additional
		Documents	(Y/N)	Partially Satisfactory/	Measures
		(Y/N)		Below Satisfactory)	Required

APPROACH AND METHODOLOGY FOR ENVIRONMENTAL MONITORING OF THE PROJECT

 Briefly describe the approach and methodology used for environmental monitoring of each sub-project.

• MONITORING OF ENVIRONMENTAL IMPACTS ON PROJECT SURROUNDINGS (AMBIENT AIR, WATER QUALITY AND NOISE LEVELS)

- Discuss the general condition of surroundings at the project site, with consideration of the following, whichever are applicable:
 - Confirm if any dust was noted to escape the site boundaries and identify dust suppression techniques followed for site/s.
 - Identify if muddy water is escaping site boundaries or if muddy tracks are seen on adjacent roads.
 - Identify type of erosion and sediment control measures installed on site/s, condition of erosion and sediment control measures including if these are intact following heavy rain;
 - Identify designated areas for concrete works, chemical storage, construction materials, and refueling. Attach photographs of each area in the Appendix.
 - Confirm spill kits on site and site procedure for handling emergencies.
 - Identify any chemical stored on site and provide information on storage condition.
 Attach photograph.
 - Describe management of stockpiles (construction materials, excavated soils, spoils, etc.). Provide photographs.
 - Describe management of solid and liquid wastes on-site (quantity generated, transport, storage and disposal). Provide photographs.
 - Provide information on barricades, signages, and on-site boards. Provide photographs in the Appendix.
 - Indicate if there are any activities being under taken out of working hours and how that is being managed.
- Briefly discuss the basis for environmental parameters monitoring.

- Indicate type of environmental parameters to be monitored and identify the location.
- Indicate the method of monitoring and equipment used.
- Provide monitoring results and an analysis of results in relation to baseline data and statutory requirements.

As a minimum the results should be presented as per the tables below.

Air Quality Results

Site No.	Date of Testing	Site Location	Parameters (Government Standards)			
Site No.	Date of Testing	Site Location	PM10 μg/m3	SO2 µg/m3	NO2 μg/m3	

Site No.	Date of Testing	Site Location	Parameters (Monitoring Results)			
Site No.	Date of Testing	Site Location	PM10 μg/m3	SO2 μg/m3	NO2 μg/m3	

Water Quality Results

			Parameters (Government Standards)						
Site No.	Date of Sampling	Site Location	рН	Conductivi	BOD	TSS	TN	TP	
				ty μS/cm	mg/L	mg/L	mg/L	mg/L	

			Parameters (Monitoring Results)					
Site No.	Date of Sampling	Site Location	рН	Conductivi ty µS/cm	BOD mg/L	TSS mg/L	TN mg/L	TP mg/L
				- ,	<u>_</u>	<u>_</u>		<u>_</u>
								-

Noise Quality Results

Site No.	Data of Tooting	Site Location	LA _{eq} (dBA) (Government Standard)			
Site No.	Date of Testing	Site Location	Day Time	Night Time		

Site No.	Date of Testing	Site Location	LA _{eq} (dBA) (Monitoring Results)		
Site No.		Site Location	Day Time	Night Time	

• GRIEVANCE REDRESS MECHANISM

 Provide information on establishment of grievance redress mechanism and capacity of grievance redress committee to address project-related issues/complaints. Include as appendix Notification of the GRM (town-wise if applicable).

COMPLAINTS RECEIVED DURING THE REPORTING PERIOD

 Provide information on number, nature, and resolution of complaints received during reporting period. Attach records as per GRM in the approved IEE. Identify safeguards team member/s involved in the GRM process. Attach minutes of meetings (ensure English translation is provided).

SUMMARY OF KEY ISSUES AND REMEDIAL ACTIONS

• Summary of follow up time-bound actions to be taken within a set timeframe.

APPENDIXES

- Photos
- Summary of consultations
- Copies of environmental clearances and permits
- Sample of environmental site inspection report
- all supporting documents including <u>signed</u> monthly environmental site inspection reports prepared by consultants and/or contractors
- Others