

Ref: Egis India/LKO/UPCRNDP/2020/1024

Date: 30th September 2020

To,
The Chief Engineer,
Externally Aided Project
UP PWD, Nirman Bhavan
96, Mahatma Gandhi Marg.
Lucknow – 226 001
Uttar Pradesh

Sub: Consultancy Services for Uttar Pradesh Core Road Network Development Program –
Consolidated Monthly Progress Report (CMPR) No. 14 for the month of August 2020

Dear Sir,

Please find enclosed herewith the Hard Copy of Consolidated Monthly Progress Report (CMPR) No. 14 for the month of August 2020 in compliance to TOR, Sub Clause 18 of Attachment-8 of Contract Agreement.

Thanking you and assuring our best services at all times.

Yours Sincerely,

for **Egis India Consulting Engineers Pvt. Ltd.,**

(Mohd. Ayaz Beg)
Team Leader

Encl.: As above – 1 No.

CC: Project Director, SRP-2 Circle, World Bank, UPPWD, Lucknow- 1No.

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GROUP



UTTAR PRADESH CORE ROAD NETWORK DEVELOPMENT PROJECT

PROJECT MANAGEMENT CONSULTANCY SERVICES FOR UTTAR PRADESH CORE ROAD NETWORK DEVELOPMENT PROGRAMME

Construction and Up-gradation of Four Packages of UPCRNDP Phase-I Roads and Design Project Report (DPR) for Phase II Roads in the State of Uttar Pradesh (1 NCB Package on Item Rate and 3 ICB Packages on EPC)

MONTHLY PROGRESS REPORT No. 14 August -2020

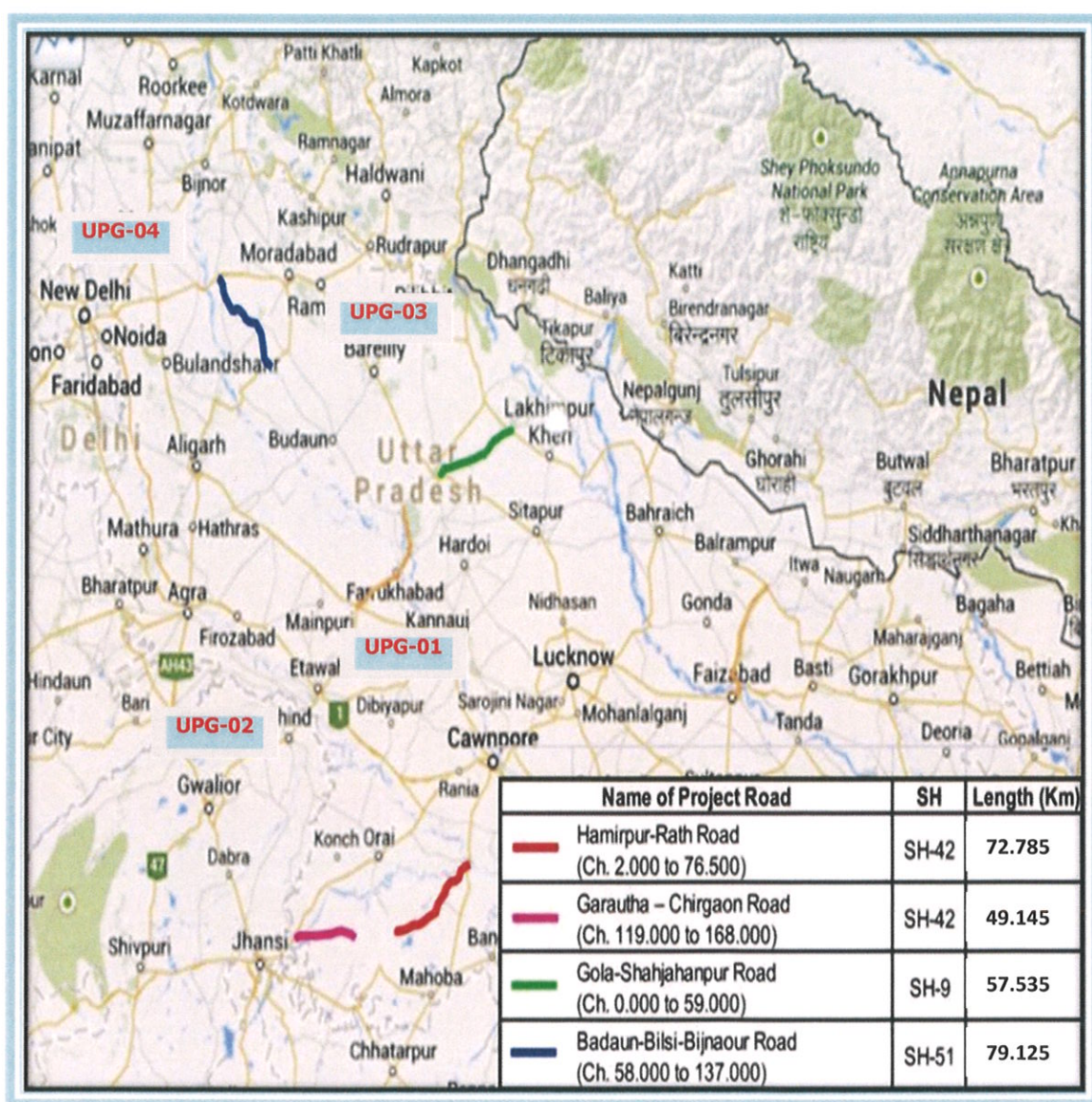


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1. PROJECT BACKGROUND

1.1. Introduction

The Government of Uttar Pradesh has requested the World Bank through Government of India to provide assistance for improvement of the Core Road Network of the State.

The State has a road network of 299,604 Km, out of which 174,451 Km is under Uttar Pradesh Public Works Department (PWD). The roads under PWD comprise 7,550 Km of National Highways (NHs), 7,530 Km of State Highways (SHs) 5,761 Km of Major District Roads (MDRs), 3,254 Km of Other District Roads (ODRs) and 138,702 Km of Village Roads (VRs). Only about 60% of SHs are two-lane (7 m). In the entire state 62% of MDRs and 83% of ODRs have widths less than 7 m.

With a view to improve the Transport Network System, UPPWD has identified 24,095 Km of Core Road Network for the development. This network comprises of NH, SH, MDR, ODR and the details are presented in the table below:

Road Category	Length (Km)
National Highway (NH)	7,550
State Highway (SH)	7,530
Major District Road (MDR)	5,761
Other District Road (ODR)	3,254
Total	24,095

The Government of Uttar Pradesh has a long-term program to improve the Core Road Network (CRN) and, as part of this program, has applied for a financial assistance from the World Bank for developing the Uttar Pradesh Core Road Network Development Project (UPCRNDP).

The UPCRNDP will have three Components:

- A. Civil Works Component:** Upgrading/Reconstruction/Widening as well as Rehabilitation of selected roads from the Core Road Network (CRN) including construction of a new Sharda Bridge at Pachpheri Ghat in Lakhimpur district.
- B. Road Safety Component:** A comprehensive and coordinated package of road safety sub-components to be delivered by the Transport, Home, Public Works and Health Departments
- C. Road Sector and Institutional Reform Component:** This component is likely to include a program to strengthen PWD asset management of SHs, MDRs and ODRs, to support the application of IT systems for human resource management and works budgeting and management across the PWD organization

The improvement works shall primarily consist of raising the formation level, widening to a full two lanes from the existing single and intermediate lane widths, and/or pavement rehabilitation/strengthening. Road sections with high volumes of non-motorized traffic will be widened to 10m with 1.5m full paved shoulders. Roads in urban areas may also require further widening for provision for drains, sidewalks, accommodate local traffic and parking where required.

1.2. Project Overview

The Project Management Consultancy (PMC) Works component will be undertaken in two Phases. The Terms of Reference (TOR) for consultancy contract identifies some roads with an aggregate length of 419 Km as Phase-I and remaining roads to be undertaken under Phase- II. The length of roads to be undertaken under Phase-II will depend on the total budget allocated to the Project. The total budgeted Project Cost is about INR 3,500 Crore, out of which funds available for the works has been estimated at about INR 3,000 Crore.

The overarching objective of accorded services the Project Management Consultancy (PMC) is to provide high quality technical and project management support during project preparation and implementation. The Public Works Department (PWD) on behalf of Government of Uttar Pradesh engaged **M/s Egis India Consulting Engineers Pvt. Ltd.** to carry out Consultancy Services for Uttar Pradesh Core Road Network Development Plan.

In achieving this objective, the Consultant is required to provide all required assistance and support to the PWD/GoUP/Bank Task Team in complying with World Bank Investment Project Financing Policies and Procedures. The Consultant is encouraged to refer to these policies available on World Bank's external website before submitting the proposal and during delivery of these services.

The Project Management Consultancy services will be undertaken in three Parts.

PART A: Project Preparation including Detailed Engineering Design and Contract Documentation (Lump Sum) 24 months from commencement of services.

PART B: Construction Supervision of Phase I Civil Works (Time Based) Until completion of Civil Works of Phase-I roads including DLP & Maintenance (24-30 months + 60 months Maintenances period including DLP)

PART C: Project Management Services (Time Based) Initially for 5 years further extension based on Consultants performance.

The present consultancy assignment broadly includes project preparation (Detailed Engineering Design and Contract Document), Construction Supervision of Phase-I Civil Works and Project Management Services (includes development and implementation of PMIS) including additional geotechnical and hydrological / hydraulic investigation of the Sharda River Bridge (to substantiate an earlier design of the Sharda Bridge prepared UP State Road Project to build at longer bridge at Pachpheri Ghat) and road safety enhancement work on about 2000 Km of CRN Roads in Phase-II.

**PART-A
PROJECT PREPARATION & MANAGEMENT (DPR & PMIS)**

PART-A

1. EXECUTIVE SUMMARY

Civil Works Component include Part-A works to carry out engineering, economic, environmental and social feasibility studies of Phase-I and Phase-II roads including prioritization of Core Road Network to select Phase-II roads.

Part-A Works, the Project preparation (Detailed Engineering Design and Contract Document) component has been undertaken in two Phases. The TOR for consultancy contract assigned five roads with an aggregate length of 419 Km and a bridge over River Sharda as Phase-I. The DPR of Phase-I roads with some modifications in assigned roads has been completed and project roads are awarded for development except missing link section of SH-42. The projects under Phase-I of approx INR 1144 Crore has been undertaken for development from the estimated available funds of INR 3,000 Crore. Phase-II roads, the DPR of identified 5 roads is under progress to execute the Civil Works with funds available.

2. PROJECT OVERVIEW

The Contract was signed on 8th August 2014, nevertheless during the contract signing, it has been agreed the start date for the assignment shall be considered as 19th August 2014. The initial discussions were held on 14th August 2014 with Client on the priority roads and scheduled deliverables. Accordingly, the teams were mobilized and activities commenced as per Contract schedule on Proposed Phase-I roads.

The initial study of above proposed Phase-I roads and adaptation of Lepulekh-Bhind (From Jalalabad) Road by National Highways, the Client and World Bank has intended for some changes from the roads under TOR for Phase I and Phase II to accomplish the Project within scheduled period.

Accordingly, the Project preparation for the length of total 408.485Km with estimated Project Cost of INR 2676.285Crore has been completed and 258.885km of road with INR 1143.285 Crores are awarded by the Client for Civil Works, as detailed in Part-B Section.

Phase-I: Roads as per Contract are provided in **Table 1** below.

Table 1: Proposed Project Road in Phase-I (as per Contract) with Revision

Sr. No.	Phase-I Road/Works (as per Contract)	Category	Length (km)	Revised
1	Hamirpur-Rath-Gursahayganj-Jhansi Road *	SH-42	168	Splits into three packages
2	Gola-Shahjahanpur Road	SH-93	59	No Change
3	Badaun-Bilsa-Bijnaour	SH-51	79	No Change
4	Utrala-Faizabad Road **	SH-9	59	Shifted in Phase-II
5	Lepulekh-Bhind (From Jalalabad) Road ***	SH-29	54	Replaced by Balrampur – Utrala- Faizabad Road
6	Bridge Over River Sharda **	—	—	Shifted in Phase-II
		Total	419	

From the above table, it could be inferred that:

- * SH-42 road (Sl. No. 1) has been split into three packages as detailed in **Table 2** below. The middle section (Missing Link - Rath) will require extensive land acquisition and environmental clearance therefore has to be implemented in Phase II.
- ** As Road 4 and 6 requires environmental clearance or extensive Land Acquisition, therefore has to be implemented in Phase-II.
- *** Lepulekh-Bhind Road (Sl. No. 5) has been omitted as it is announced as a National Highway. A new road “Balrampur-Utraula-Faizabad Section” of SH-26 and SH-9 of Length 86.4Km (at Sl.No. 5) has been added in its place. This road section requires extensive land acquisition; hence timeline extended and has to be implemented in Phase II.

2.1. PHASE-1 ROADS

As the initial study revealed, the Client and World Bank discussed and advised for timely implementation of project under Phase-I timeline the proposed roads for changes, which is presented in **Table-2**.

Table-2: Proposed Project Road in Phase-I (Revised) for Civil Works

S. No.	Package	Road/Works	Category	Length (km)	Civil Cost (in Cr)
1	UPG-01	Hamirpur-Rath	SH-42	72.785	262.395
2	UPG-02	Garautha-Chirgaon	SH-42	49.145	189.990
3	UPG-03	Gola-Shahjahanpur Road	SH-93	57.535	356.900
4	UPG-04	Badaun-Bilsi-Bijnaour	SH-51	79.125	334.000
Total				258.590	1143.285

In addition of above modification, some changes in Contract Roads for the Implementation under Phase-II timeline has been substituted with some additional (under variation) roads are provided in **Table-3** below.

Table-3: Substituted Phase-I Roads with selected additional Roads for Implementation in Phase-II Timeline

S. No.	Road/Works	Category	Length (km)	Estimated Civil Cost (in Cr)
1	Balrampur-Utraula –Faizabad Road	SH-26 & SH-9	86.400	532.60
2	Shamli-Muzzafarnagar Road *	SH-51	32.000	320.00
3	Panipat - Khatima Road *	SH-12	31.200	259.30
4	Bridge Over River Sharda	—	—	421.10
Total			149.600	1533.00

- * SH-51 Shamli Muzzafar nagar Road and SH-12 Panipat – Khatima Road is substituted under Phase-I however these roads are listed under Phase-II works.

2.2. PHASE-II ROADS

The Government of Uttar Pradesh through UPPWD has sanctioned the five roads for Detail Project Report Study. The Part-A team of PMC has mobilized at respective sites for DPR and the updated status of progress is shown in **Table-4** below:

Table-4: Proposed Program and Progress of DPR of Phase-II Roads

Project Schedule for Uttar Pradesh Core Road Network Development Program Phase-II Roads						
Sl.No.	Name of Road	Moradabad-Haridwar-Dehradun (Km 0.000- Km 36.000) - 4 Lane	Garh-Syana-Bulandshahar (Km 0.000- Km 49.500)	Bahraich-Gonda-Faizabad (Km 05.500 - Km 65.600)	Hamidpur-Kuchesar Road Hamidpur via Badshahpur 2 Lane (0.000 to 47+500 Km)	Bansi-Mehdawal-Khalilabad (Km 0.000 - Km 28.900)
	Road Category	SH-49	SH-65	SH-30	SH-100	SH-88
	District	Moradabad	Bulandshahar	Bahraich-Gonda	Gautam Budh nagar	Sant Kabir nagar-
	Proposed length	36	49.5	59.100	47.5	28.9
	Estimated block/indicative Cost (In Cr)	356.4	499.2	247	289.2	193.1
	Inception Report	Submitted on 27 th Nov-2019				
	DPR Activities	Status of the DPR Works				
1	Structure Inventory Survey	Completed	Completed	Completed	Completed	Completed
2	Road Inventory and Road Conditioning survey	Completed	Completed	Completed	Completed	Completed
2a	Road inventory and Pavement Condition Data Compillation and Report Preparation	Completed	Completed	Completed	Completed	Completed
3	Topographical Survey	Completed	Completed	Completed	Completed	Completed
4	Topo Survey Report	Report is submitted				
5	Traffic and Axle Load Surveys	Completed	Completed	Completed	Completed	Completed
5a	Traffic Data Analysis	Completed	Completed	Completed	Completed	Completed
5b	Traffic Report	Completed	Completed	Completed	Completed	Completed

6	Pavement Material Investigations	Completed	Completed	Completed	Completed	Completed
7	Falling Weight Deflector meter Test	Completed	Completed	Completed	Completed	Completed
8	Pavement Design Report	Completed	Completed	Completed	Completed	Completed
9	Social Impact Analysis	Preliminary Analysis Completed	Preliminary Analysis Completed	Detailed Analysis is being carried out	Preliminary Analysis Completed	Detailed Analysis is being carried out
	Revenue Map Collection Concern Project	Revenue Map Collected	Revenue Map Collected	Revenue Map Collected	Revenue Map Collected	Revenue Map Collected
10	Environmental Surveys	Preliminary Environmental screening is Completed. Environmental impact assessment data collection would be initiated after alignment approval	Preliminary Environmental screening is Completed. Environmental impact assessment data collection would be initiated after alignment approval	Preliminary Environmental screening is Completed. Environmental impact assessment data collection is in progress on approved alignment	Preliminary Environmental screening is Completed. Environmental impact assessment data collection would be initiated after alignment approval	Preliminary Environmental screening is Completed. Environmental impact assessment data collection is in progress on approved alignment
10a	Environmental Impact Assessment Parameter Collection	Preliminary Environmental screening completed. Data collection on environmental parameters to be initiated.	Preliminary Environmental screening completed. Data collection on environmental parameters to be initiated.	Preliminary Environmental screening completed. External agency is mobilized for EIA data collection and is in progress for the approved alignment ,	Preliminary Environmental screening completed. Data collection on environmental parameters to be initiated.	Preliminary Environmental screening completed. External agency is mobilized for EIA data collection and is in progress for the approved alignment ,
11	Environmental Impact Assessment	14 weeks from the date of Alignment Approval	14 weeks from the date of Alignment Approval	Being Carried out	14 weeks from the date of Alignment Approval	Being Carried Out
12	Feasibility Study Report	Alignment is finalised and approved in principle based on joint site inspection by the Authority and the Final Feasibility study Reports to be submitted	Alignment is finalised and approved in principle based on Site Visit; Feasibility study Reports to be submitted	Draft Feasibility report is submitted Alignment is finalised and approved in principle based on Alignment Option Study Report; Final Feasibility Study Report to be submitted by 15.09.2020	Alignment is finalised and approved in principle based on Site Visit; Feasibility study Reports to be submitted	Draft Feasibility report is submitted Alignment is finalised and approved in principle based on Alignment Option Study Report; Final Feasibility Study Report to be submitted by 15.09.2020

PROGRAM MANAGEMENT CONSULTANCY SERVICES FOR UTTAR PRADESH CORE ROADNETWORK DEVELOPMENT PROJECT



13	Alignment Finalisation	Alignment Finalised in Principle. Starting Section 0 KM to 5.800 Km section is excluded from the project length. Effective length for the DPR preparation would be 30.200 Km (36-5.800KM). Wherever four lanning facility is not possible, in restricted and urban built-up sections, Two lane with paved shoulder facility would be adopted.	Alignment is Finalised in Principle. Project length from 0.000 Km to 49.5 Km is retained as it is. Wherever four lanning facility is not possible in restricted and urban built-up sections, Two lane with paved shoulder facility would be adopted.	Alignment is finalised and approved	Alignment Finalised in Principle. Original length of the project road is retained as it is. Necessary approvals for the construction between Jewar to Jhajhar need to be obtained from YEIDA	Alignment is finalised and approved
14	Geotechnical Investigation	Within four weeks after approval of the Alignment	Within four weeks after approval of the Alignment.	Initiated and would be available within 35 days	Within four weeks after approval of the Alignment.	initiated and would be available within 35 days
15	Structure Design	Within 2 weeks after geotechnical investigations	Within 2 weeks after geotechnical investigations	Within 2 weeks after geotechnical investigations	Within 2 weeks after geotechnical investigations	Within 1 weeks after geotechnical investigations
16	Highway Design and Drawings preparation	Within 2 Weeks after Structure Finalisation	Within 2 Weeks after Structure Finalisation	Within 1 Week after Structure Finalisation	Within 2 Weeks after Structure Finalisation	Within 1 Week after Structure Finalisation
17	Technical Specification finalization					
18	Rate analysis and Cost Estimation					
19	Detailed Design Report (DPR)	Target date for submission of DPR is by end of November 2020	Target date for submission of DPR is by end of November 2020	Target date for submission of DPR is by end of October 2020	Target date for submission of DPR is by end of November 2020	Target date for submission of DPR is by end of October 2020
20	Drawings and Bidding Documents					
21	Environmental Assessment Report, Drawings and bidding documents	Target date for submission of DPR is by end of November 2020	Target date for submission of DPR is by end of November 2020	Target date for submission of DPR is by end of October 2020	Target date for submission of DPR is by end of November 2020	Target date for submission of DPR is by end of October 2020
22	Contract documentation	One Month after DPR approval	One Month after DPR approval	One Month after DPR approval	One Month after DPR approval	One Month after DPR approval
23	Packaging	One Month after DPR approval	One Month after DPR approval	One Month after DPR approval	One Month after DPR approval	One Month after DPR approval

2.2.1 STATUS OF VARIOUS CONSULTANCY SERVICES

SL No.	Description of Services	Methods of Selection	Review Type	Present Status	Name Of Consultant / Firm
1	Consultancy for Financial Management Firm.	QCBS	Post	Out of 7firms, only 6 Firms submit technical and financial proposal... Technical Evaluation under process.	
2	Consultant firms to tender support for conducting Road User Satisfaction Surveys.	QCBS	Post	Out of 7firms, only 6 Firms submit technical and financial proposal... Technical Evaluation under process.	
3	Individual Consultant (IC) for the Consultancy Services to support the Social component under Environment and Social Development Cell (ESDC).	ICS	Post	Contract awarded, the agreement was to be signed in the last week of March, 2020 and commencement from 01 May, 2020.	Mr. Prabhanjan Narayan Roy
4	Individual Consultant (IC) for the Consultancy Services to support the Environmental component under Environment and Social Development Cell (ESDC).	ICS	Post	Contract awarded , the agreement was to be signed in the last week of March,2020 and commencement from 01 May,2020	Dr. Seema Srivastava
5	Consultancy Services for Independent Quality Auditor for UP Core Road Network Development Project proposed from World Bank Loan.	QCBS	Post	Re-evaluation of Technical proposal by TEC, Procurement is under progress	
6	Gender Assessment	QCBS	Post	Contract awarded	ECORYS INDIA Pvt. Ltd.
7	Phase-2 of Supervision Consultancy.	QCBS	Prior	ToR to be submitted to Bank	
8	Phase-2 of NGO Services.	CQS		Not yet started	
9	Midterm evaluation of Road User Satisfaction Surveys.	CQS		Not yet started	
10	Consultancy for Internal Auditor (Financial)	CQS		Not yet started	
11	Safety Engineering Management Advisor-International	ICS	Prior	Procurement Plan Under Bank Review	
12	Safety Engineering Design Specialist	ICS	Prior	Procurement Plan Under Bank Review	
13	Safety Engineering Consultant Firm (design, supervision, audit etc)	QCBS	Prior	Procurement Plan Under Bank Review	
14	Consultant firm for collecting Road Condition Survey Data Collection	LCS		Not yet started	

2.2.2 STATUS OF VARIOUS CIVIL WORKS

SL No.	Description	Methods of Selection	Review Type	Present Status	Name Of Consultant / Firm
1	Upgradation & Maintenance of Rath-Garautha Section of SH-42 (Missing Link)	NCB		Comments received from World Bank on draft DPR & forwarded to the PMC for compliances.	
2	Engineering Procurement and Construction Contract [EPCC] for Upgradation and Maintenance of Bansi-Mehandawal-Khalilabad Road (SH-88)	NCB		DPR under preparation	
3	Engineering Procurement and Construction Contract [EPCC] for Upgradation and Maintenance of Bahraich-Gonda-Faizabad Road (SH-30)	ICB		DPR under preparation	
4	Engineering Procurement and Construction Contract [EPCC] for Upgradation and Maintenance of Hamidpur-Kuchesar Road (SH-100)	ICB		DPR under preparation	
5	Engineering Procurement and Construction Contract [EPCC] for Upgradation and Maintenance of Garh-Syana-Bulandshehar Road (SH-65)	ICB		DPR under preparation	
6	Engineering Procurement and Construction Contract [EPCC] for Upgradation and Maintenance of Moradabad-Haridwar-Dehradun Road (SH-49)	ICB		DPR under preparation	

2.3. PMIS

The scope of work will include customizing, hosting and to operational the web based PMIS which will include all modules necessary for effective project management.

The progress on various modules of PMIS is indicated below:

Table 5: PMIS Progress

Sl. No.	Modules	Status
1	Grievance Redressal System	Completed
2	Project Website	Completed
3	Content Management System (CMS) / Document Management System	Completed
4	Knowledge And Documentation Centre	Completed
5	Works Estimation System / BOQ automation, Measurement System, Risk Management, Quality Management System	Completed
6	Financial Accounting & Cost Management System	Completed
7	E-Procurement System (provide interface)	Completed
8	Scope Management System	Completed
9	Monitoring and evaluation (M&E) & Decision Support System	Completed
10	Computer Aided Design (CAD) System	Completed
11	Project Roads Database	Completed

2.4. Meeting held during the Month August 2020 (For Part-A)

Sr. No.	Date	Description
1	05.08.2020	Meeting held between the Employer, PIUs and NGO, Study Point Samiti at CE(EAP) UPPWD Office, Lucknow to discuss completed as well as balance/pending activities of M/s Study Point Samiti, contracted for facilitating of Implementation of Resettlement Action Plan (RAP) under the World Bank Funded Uttar Pradesh Core Road Network Development Programme. MOM issued by the UPPWD vide letter No. 1613/EAP/1-13/UPCRNDP/CEWB/2020 Dated 05.08.2020.
2	07.08.2020	Meeting held on 07.08.2020 at Chief Engineer (EAP) Office, UPPWD, Lucknow regarding presentation on Social Component of ESMP/Contract Agreement Requirements under UPCRNDP projects by UPPWD Social and Environmental Experts.
3	10.08.2020	Video Conferencing Meeting held on 10.08.2020 under the Chairmanship of Principle Secretary UPPWD, UP Govt. to discuss the progress of DPR of Phase-II Roads and instructed UPPWD for joint verification of the roads (alignment and provisions taken in the Feasibility Report) with Consultant. The agenda of the meeting was as follows: <ul style="list-style-type: none"> Status of Phase –II Roads DPR Preparation

		<ul style="list-style-type: none"> • Approved alignment on Phase –II Roads • Discussion on Jewar airport bypass options • Discussion on Bulandshahr bypass and Aurangabad bypass • Pending approvals on Alignment of Phase –II Roads • Progress on Missing Link SH-42
4	19.08.2020	Meeting held on 19.08.2020 under the Chairmanship of Principle Secretary UPPWD, UP Govt. to discuss and resolve Alignment Option for all Five Phase-II Roads and Safety Implementation. Decisions taken and instructions given on the Aide Memoire of World Bank for the period of 13 th to 17 th July 2020.
5	20.08.2020	Meeting held on 20.08.2020 at Chief Engineer (EAP) Office, UPPWD, Lucknow regarding PMIS Status of Hamirpur - Rath (SH-42).
6	31.08.2020	<p>Meeting held on 31.08.2020 under the Chairmanship of Principle Secretary UPPWD, UP Govt. to discuss the Road Alignment Options of DPR of Phase-II Roads and progress of DPR of Missing Link (Rath-Garautha). The agenda of the meeting was as follows:</p> <ul style="list-style-type: none"> • Progress on Phase –II Roads DPR Activity • Missing Link SH-42 DPR activity Update • Time Lines for the submission of Feasibility Report SH-30 and SH-88 • DPR Status of SH-30 and SH-88 • DPR of Missing Link Time Line Submission <p>Meeting attended by the PMC and UPPWD Staff.</p>

2.5 Financial Progress of Consultant

The Consultant has submitted his Invoices for Services up to August 2020 and Financial Progress of UPCRNDP - (Part B+C) - Up to August 2020 is as below:

PART –B Up to August 2020 (INR)

Sl. No.	Description	Contract Amount (INR)	Variation (INR)	Cumulative up to Current Invoice (INR)	Balance (INR)
1	Remuneration for Key Professionals	82,286,700	90,354,046	2,69,56,078	6,33,97,968
2	Remuneration for Non- Key Professionals	187,938,800	147,453,510	4,62,88,185	10,11,65,325
3	Reimbursable Expenses	44,607,516	48,363,117	1,66,24,999	3,17,38,118
4	Escalation			1,59,19,246	
Total		314,833,016	286,170,672	10,57,88,507	19,63,01,411

PART - C – Up to August- 2020 (USD)

Sl. No.	Description	Contract Amount	Variation	Cumulative up to Current Invoice	Balance
1	Remuneration for TL	\$1,124,640	\$1,225,501	5,90,324	6,35,178
Gross Amount (Foreign Component)		\$1,124,640	\$1,124,640	\$1,225,501	6,35,178

PART - C - Up to August 2020 (INR)

Sl. No.	Description	Contract Amount (INR)	Variation (INR)	Cumulative up to Current Invoice (INR)	Balance (INR)
1	Remuneration for Key Professionals	52,034,400	43,239,000	71,91,149	3,60,47,851
2	Remuneration for Non- Key Professionals	187,938,800	147,453,510	4,40,06,005	10,34,47,505
3	Reimbursable Expenses	18,552,152	30,896,321	1,57,96,611	1,50,99,710
4	Escalation			18,54,341	
Total		314,833,016	286,170,672	9,97,61,255	20,12,46,672

**PART – B:
CONSTRUCTION SUPERVISION OF CIVIL WORKS**

CHAPTER-1- EXECUTIVE SUMMARY

PART – B

1. EXECUTIVE SUMMARY

1.1. Introduction

Civil Works Component under Part-B concedes for providing Construction Supervision Services and Contract Administration for the Improvement of Uttar Pradesh Core Road Network Development Project.

The TOR of consultancy contract for Part-B works assigns the supervision and monitoring of implementation of civil works for Phase-I roads until completion of Maintenance period including defect liability period (DLP).

This Monthly Report No.14 is prepared and submitted with respect to Terms of Reference (TOR) for PART-B Services to Agreement between the Chief Engineer (AEP), Uttar Pradesh Public Works Department (UPPWD) and Egis India Consulting Engineers Pvt. Ltd, New Delhi.

The Construction Supervision and contract administration of the Civil Contracts procured under Item rate (BOQ) in one Package and Engineering Procurement and Construction (EPC) Contract in three packages:

Awarded Packages are as below:

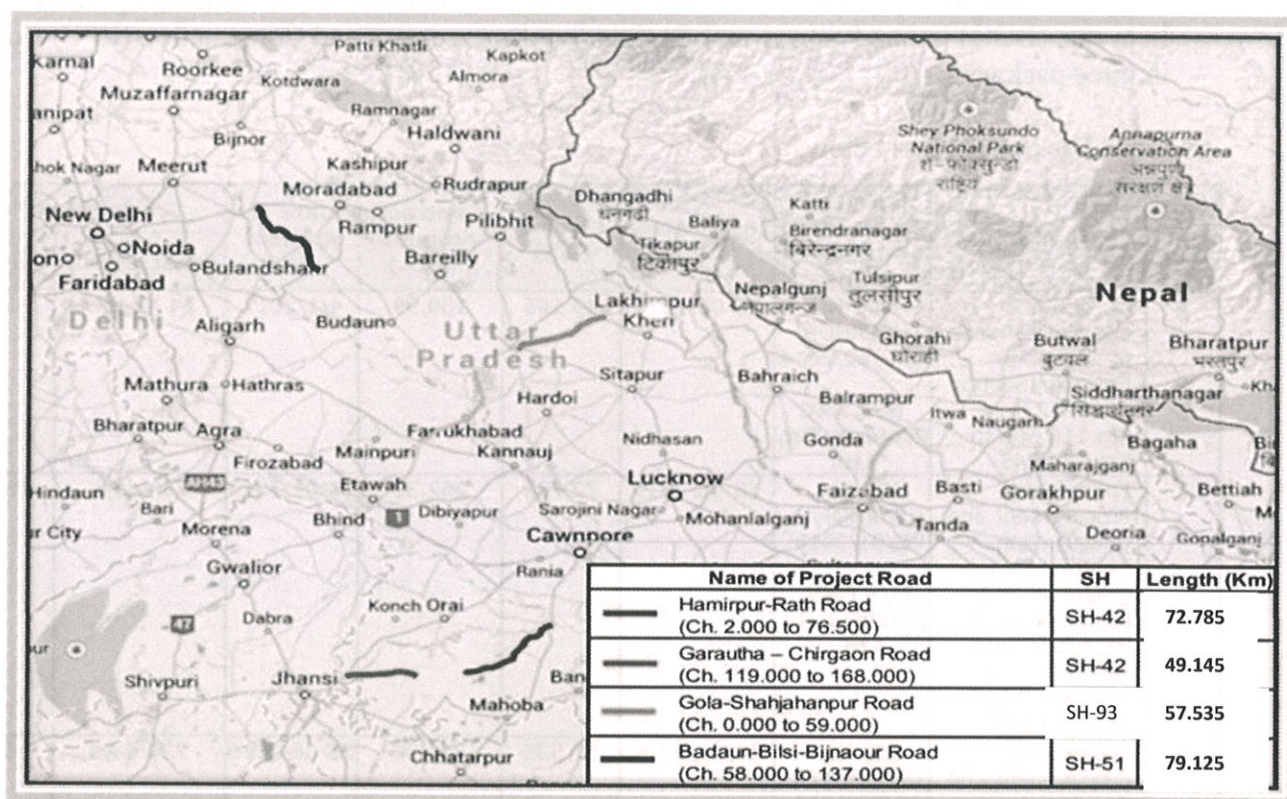
Sl. No.	Project Name	Contract Package/C ontractor's Name	Appointed Date	Length (km)	Contract Amount (in Cr.)	Date of Agreement	Completion Period	
							Construction	Maintenance
1	Up-gradation and Maintenance of Garautha-Chirgaon Section of SH-42 from Km 118.600 to Km 167.745	NCB No. UPCRNDP/UPG/02/2014 M/s NKC Projects Pvt. Ltd.	15-01-2018	49.145	189.99	4/1/2017	24 Months	5 Years
2	Engineering Procurement and Construction Contract for Up-gradation and Maintenance of Hamirpur-Rath section of SH-42 from Km 2.065 to Km74.255	ICB No. UPCRNDP/UPG/01/2018 M/s GHV (India) Pvt. Ltd.	25-06-2019	72.785	262.39	19-06-2019	730 days	1826 days
3	Engineering Procurement and Construction Contract for Up-gradation and Maintenance of Gola-Shahjahanpur section of SH-93 from Km 1.280 to Km 58.580	ICB No. UPCRNDP/UPG/03/2018 M/s APCO Infratech Pvt. Ltd.	11/11/2019	57.535	356.90	26-06-2019	730 days	1826 days
4	Engineering Procurement and Construction Contract for Up-gradation and Maintenance of Badaun-Bilsi-Bijnour section of SH-51 from Km 58.400 to Km 137.820	ICB No. UPCRNDP/UPG/04/2018 M/s GAWAR Construction Ltd.	4/11/2019	79.125	334.00	5/7/2019	730 days	1826 days
Total Project Length (In Km)				258.59	1143.28			

One of the above Contract Package Garautha-Chirgaon Section of SH-42 was awarded in year 2015 on National Competitive Bidding (NCB) norms under Item Rate Contract and other three Contract packages were awarded in year 2019 on International Competitive Bidding (ICB) norms under Engineering Procurement Construction (EPC) mode of Contract.

The Civil works have a construction period of 24 months and the contracts shall include a five-year period of performance-based routine and periodic maintenance following the handing over to Uttar Pradesh Public Works Department (UPPWD).

The first year will overlap with the Defects Liability Period (DLP) for Item Rate Contract and for EPC projects the DLP and Maintenance period are same for five years.

Project Location Map



1.2. Purpose of the Report

In accordance with the TOR a Monthly Report is required to be submitted every month.

The Reports are required to include the following:

- Key Issues and Potential Issues (drawing-design, administrative, technical or financial)
- Problems encountered and recommendations to overcome,
- Expenditure Statement of Contract and Payment Statement for the Works
- Progress of work
- Status of mobilization/deployment of men, machineries and plants, functioning of Crusher, HMP, WMM plant, Pavers and Rollers,

- Probable requirement of key materials like bitumen, cement, steel, aggregates for next month and their availability at the end of the month,
- COS order will require to proposed by Contractor as per the article 13 of EPC contract agreement & variation order for item rate contract as per contract agreement clause 51& 52 of the contract provision
- Status of claims or time extensions requested by Contractors
- Status of EMP, removal of encumbrances, safety precautions and traffic diversion during construction
- Key and technical personnel deployed by the consultant, Contractor etc.

1.3. Project Organization

The project is being executed and managed within the Contract Management Framework (CMF) described in the Contract Agreement, which defines the organizational structure and levels of responsibility. These are as summarized in our Contract Management Framework of Contract Agreement.

1.4. Description of Works

The works are being executed under FIDIC (5th edition) Conditions in both Item Rate Contract and Engineering and Procurement mode of Contract. Contracts utilize both new and existing alignments. The work involves improvement of State Highways including geometric improvements and realignments to standard 2-lane of 7 m carriageway, 1.5 m paved shoulders, and soft shoulders. The Construction works include:

- Reconstruction of the full design width of road
- Earthworks and sub-grade preparations
- Granular sub-base, wet mix macadam base course, bituminous concrete surfacing
- Geometric realignments wherever necessary
- Construction of paved and soft shoulders
- Construction and maintenance of diversion roads
- Construction of lined drains, covered drains and footpaths in urban areas
- Construction of unlined longitudinal drains in rural areas
- New/widening/Reconstruction of culverts, bridges and repair and rehabilitation of existing bridges/culverts
- Protective works at Structural works and on embankment slopes
- Provision of road traffic safety signs and markings
- Provision of road furniture and other road safety appurtenances
- Environmental protection and enhancement measures
- Rainwater Harvesting and Tree Plantation
- Social enhancement works-Community Property Rehabilitation works etc.,
- Routine maintenance and maintenance during Defects Liability Period.

Contractor's Names, Package, Date of Appointment and Milestones Completion Date

Contractor	Date of Appointment/ Commencement	Milestone wise Scheduled Completion Date (w.r.t number of days of CA)			
		MS-01	MS-02	MS-03	MS-04
		12 Months	12 Months	18 Months	24 Months
M/s NKC Projects Pvt. Ltd.*	15-Jan-18	14-Jan-19	14-Jan-19	15-Jul-19	EOT-III extended up to 31.10.2020
Contractor	Date of Appointment/ Commencement	Milestone wise Scheduled Completion Date (w.r.t number of days of CA)			
		MS-01	MS-02	MS-03	MS-04
		150	330	510	730
M/s GHV (India) Pvt. Ltd.	25-Jun-19	21-Nov-19	19-May-20	15-Nov-20	23-Jun-21
M/s APCO Infratech Pvt. Ltd.	11-Nov-19	8-Apr-20	5-Oct-20	3-Apr-21	9-Nov-21
M/s GAWAR Construction Ltd.	4-Nov-19	1-Apr-20	28-Sep-20	27-Mar-21	2-Nov-21

* UPG-02: Revised Extension of Time (EOT-II for 66 days) for Milestone-4 up to 30th June 2020 has been evaluated and recommended by the Authority Engineer vide letter No. EGIS/HO/UPCRNDP/60412/2020 Dated 10th June 2020 for the additional works at village Gursarai and Village Sultanpura. Due to Non-Completion of Complete Project Works of Highways EOT-III Recommended vide the letter No. Egis India/HO/UPCRNDP/UPG-02/62722/2020 Dated 28.08.2020 for the completion of Project up to 31st October 2020.

Design & Drawings Agency of EPC Packages

Package	Consultant	Description	Contractor's Submissions	Client/AE's Comments	Status
Hamirpur-Rath (UPG-01)	Design Consultant Team:	Mr. M. Ubendiran, Design Director cum Team Leader; Mr. Alok Anandmani, Highway cum Pavement Design Engineer and Mr. Pradip Kumar Pandey, Structure/Bridge Design Engineer	GHV/Site/SH-42/Kanpur /102 Dated 11.07.2019	Approved vide SE letter No. 763 C/24C - WBPC/19 Dated 18.07.2019	Approved
	Proof Check Consultant	M/s Antique Build Tech (P) Ltd.	GHV/Site/SH-42/Kanpur /103 Dated 11.07.2019	SE letter No. 765 C/24C - WBPC/19 Dated 18.07.2019	Approved
	Safety Consultant	M/s Khanna Goyal Designers LLP, Gurugram	GHV/Site/SH-42/Kanpur /104 Dated 11.07.2019	SE letter No. 764 C/24C -WBPC/19 Dated 18.07.2019	Approved

**PROGRAM MANAGEMENT CONSULTANCY
SERVICES FOR UTTAR PRADESH CORE
ROADNETWORK DEVELOPMENT PROJECT**

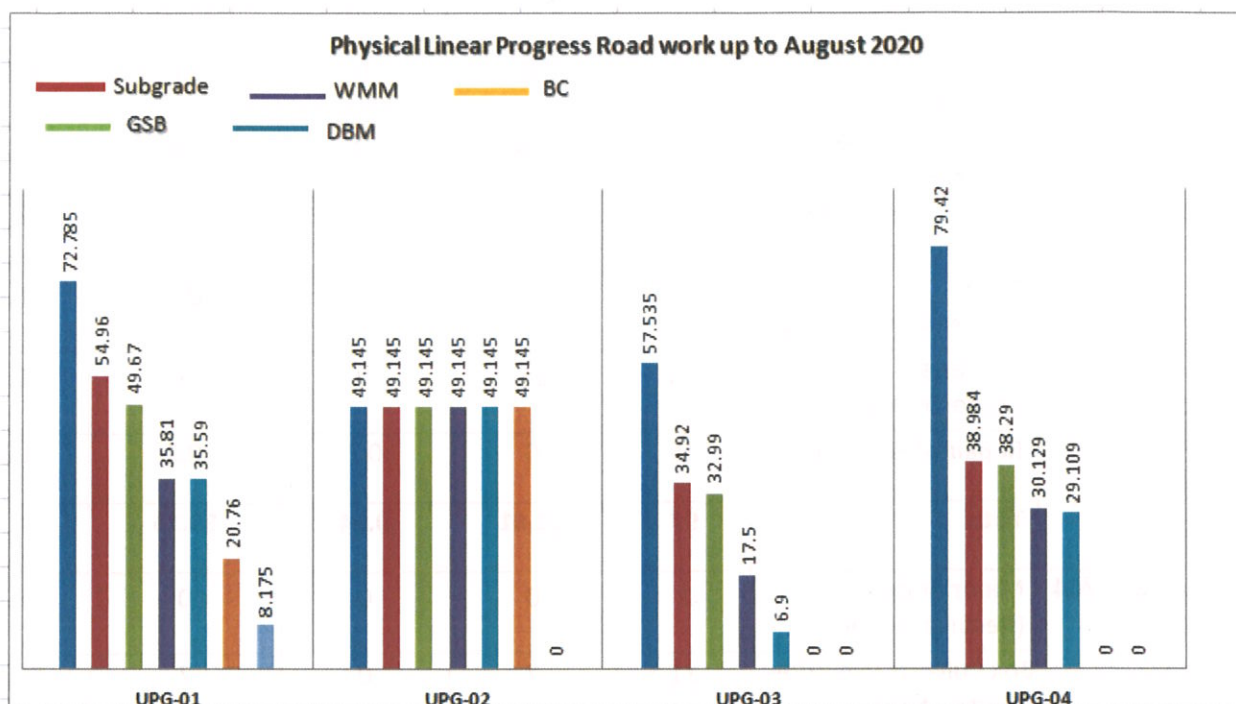


Gola-Shahjahanpur (UPG-03)	Design Consultant Team:	Mr. Virendra Pal Singh; Highway cum Pavement Design Engineer Mr. Ishwinder Singh Dua and Structure/Bridge Design Engineer Mr. Rajesh Kumar Jindal	APCO/CO/G OLA-SHAH/ RE/2019-20/ 6220 Dated 15.07.2019	1655/800- 16/UPCRNDP/W BYC/18 Dated 19.08.2019	Approved
	Proof Check Consultant	M/s Chaitanya Project Consultancy Private Limited	APCO/WB- UPPWD/EGI S/ST/10 Dated 07.08.2019	Informed by SE vide letter No. 1662/800- 16/UPCRNDP/W BYC/19 Dated 20.08.2019 and Approved vide Chief Engineer letter No. 1948/EAP/WB/U PG-03/2018 Dated 19.08.2019	Approved
	Safety Consultant	M/s Casta Engineers Private Limited, New Delhi	APCO/CO/M SRDC/2018- 19/6029 Dated 21.05.2019	1895/EAP/WB/U PG-03/2018 Dated 17.07.2019	Approved
Badaun-Bilsi-Bijnour (UPG-04)	Design Consultant Team:	Design Director & Team – Shri Satbir Singh Puwar Design Director, Shri K.B Deswal Highway Cum Pavement Design Engineer and Shri Anupam Mishra Structure/Bridge Engineer	Submitted to UPPWD in Nov'2019	1265/21 Com W.B. P.C./19-20 Dated 18.11.2019	Approved
	Proof Check Consultant	NIT Kurukshetra	Submitted to UPPWD in Nov'2019	1352/21 Com.- W.B.P.C./19-20 Dated 26.11.2019	Approved
	Safety Consultant	M/s G-EBG Advisory Services Pvt. Ltd.	Submitted to UPPWD in Nov'2019	1351/21 Com.- W.B.P.C./19-20 Dated 26.11.2019	Approved

1.5. Physical Progress

At present the construction work is in progress in Four numbers of Civil Contracts. The Progress status Package wise is as below:

Physical Linear Progress Road work up to month August – 2020						
	Sub Grade Top in KM			GSB in KM		
Package	Scope in length	Completed	Completed%	Scope in length	Completed	Completed%
UPG-01	72.785	54.96	75.5101	72.785	49.67	68.24
UPG-02	49.145	49.145	100	49.145	49.145	100
UPG-03	57.535	34.92	60.6935	57.535	32.99	57.34
UPG-04	79.42	38.984	49.0859	79.42	38.29	48.21
Total	258.885	178.009	68.7599	258.885	170.095	65.7029
	WMM in KM			DBM in KM		
Package	Scope in length	Completed	Completed%	Scope in length	Completed	Completed%
UPG-01	55.85	35.81	64.12	55.85	35.59	63.72
UPG-02	49.145	49.145	100	49.145	49.145	100
UPG-03	57.535	17.5	30.42	57.535	6.9	11.99
UPG-04	79.42	30.129	37.94	79.42	29.109	36.65
Total	241.95	132.584	54.7981	241.95	120.744	49.9045
	BC in KM			DLC in KM		
Package	Scope in length	Completed	Completed%	Scope in length	Completed	Completed%
UPG-01	55.85	20.76	37.17	16.935	8.175	48.27
UPG-02	49.145	49.145	100	0	0	0
UPG-03	57.535	0	0	0	0	0
UPG-04	79.42	0	0	0	0	0
Total	241.95	69.905	28.8923	16.935	8.175	48.27
	PQC in KM					
Package	Scope in length	Completed	Completed%			
UPG-01	16.935	5.335	31.5			
UPG-02	0					
UPG-03	0					
UPG-04	0					
Total	16.935	5.335	31.5028			



Physical Progress of Structure Work up to Month August-2020						
Package	DESCRIPTION	Scope in Nos.	Completed up to Previous Month	Completed during the Month	Cumulative Completed	% over all progress
UPG/02	Major Bridge Repair	1	0.4	0.05	0.45	45.00
	Minor Bridge Re-Construction	6	6	0	6	100.00
	Box Culvert (New/ Re-Construction)	46	46	0	46	100.00
	Slab Culvert (New/ Re-Construction)	5	5	0	5	100.00
	Pipe Culvert (New/ Re-Construction)	39	39	0	39	100.00
	Total	97	96.4	0.05	96.45	
UPG/01	Minor Bridges (Reconstruction)	1	0	0.8	0.8	80.00
	Box Culverts (New/Re-Construction)	38	21	3	24	63.16
	HP Culverts (New/Re-Construction)	34	32	1	33	97.06
	MNB (Widening+Repairing)	3	0	0	0	0.00
	Culverts (Widening+Repairing)	29	11	3	14	48.28
	Repair of Structures	21	3	2	5	23.81
	Total	126	67	9.8	76.8	

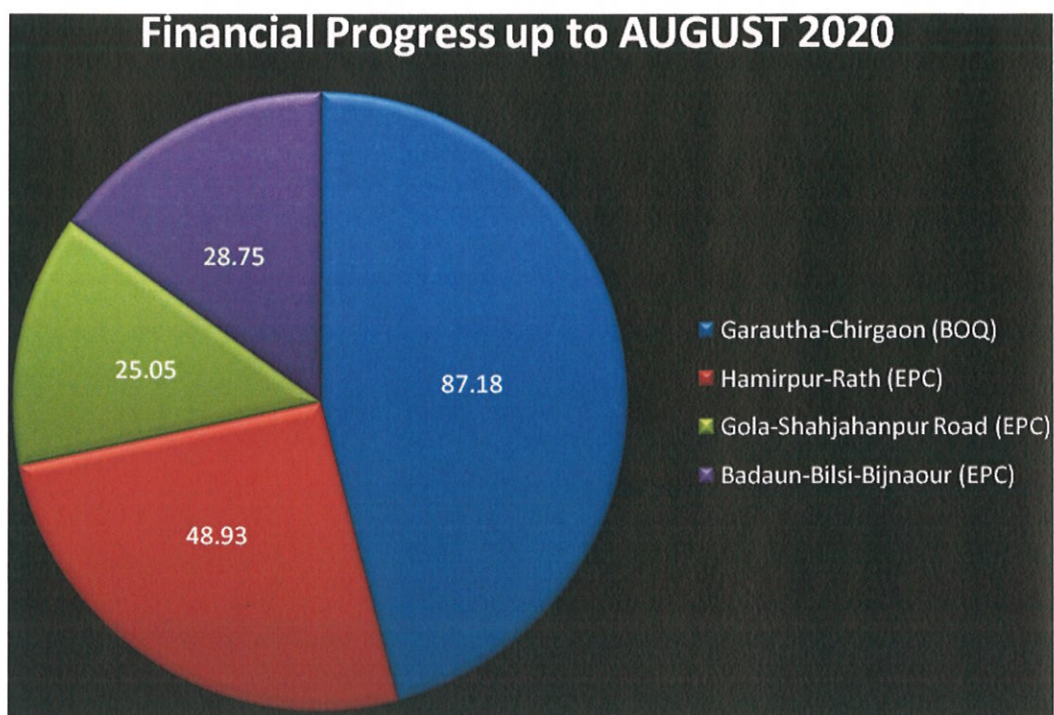
UPG/03	Major Bridge (Re-Construction)	1	0.11	0.04	0.15	15.00
	Minor Bridges (Reconstruction)	4	0	0	0	0.00
	Box Culverts (New/Re-Construction)	21	16	0	16	76.19
	HP Culverts (New/Re-Construction)	17	16	0	16	94.12
	MNB (Widening+Repairing)	3	0.5	0.3	0.8	26.67
	Culverts (Widening+Repairing)	36	26	0	26	72.22
	Repair of Structures	15	0	0.2	0.2	1.33
	Total	97	58.61	0.54	59.15	
UPG/04	Minor Bridges (Reconstruction)	2	0	0	0	0.00
	Box Culverts (New/Re-Construction)	11	7	0	7	63.64
	HP Culverts (New/Re-Construction)	69	38	8	46	66.67
	Slab Culvert (Re-Construction)	6	1	0	1	16.67
	MNB (Widening+Repairing)	1	0	0	0	0.00
	Culverts (Widening+Repairing)	19	3	0	3	15.79
	Repair of Structures	4	0	0	0	0.00
	Total	112	49	8	57	

At present the construction work is in progress in four numbers of Civil Contracts. The Progress status is as below:

1.6. Financial Progress

Gross Amount in Rs. Crores				
Package	Cost of Project (Cr)	IPC Amount (Cr.)	Paid IPC Nos.	Remarks
Garautha-Chirgaon (BOQ	189.99	165.632	IPC-22	Up to 31 th August 2020
Hamirpur-Rath (EPC)	262.39	128.38	IPC-10	Up to 31 th August-2020
Gola-Shahjahanpur Road (EPC)	356.90	89.393	IPC-04	Up to 31 th August-2020
Badaun-Bilsi-Bijnaour (EPC)	334.00	96.037	IPC-06	Up to 31 th August-2020
TOTAL (In Crores)	1143.28	479.442		

*Garautha-Chirgaon Project Completion Cost is 185.77 excluding maintenance cost.



1.7. Meeting and Visit during the Reporting Month (Part-B & C)

Package	Date	Description
UPG-01, UPG-02, UPG-03 & UPG-04	10.08.2020	Video Conferencing Meeting held on 10.08.2020 under the Chairmanship of Principle Secretary UPPWD, UP Govt. to discuss the progress of Phase-I Roads and issues at sites.
UPG-04	26 to 28 August, 2020	Site Visit by the UPPWD's Environmental Expert and Social Expert carried out from 26 th to 28 th August 2020 for Badaun-Bilsi-Bijnaour Road Project to review the status of Environmental Safeguards Implementation and Management as well as R&R Status of the Project. PMC's Social Development Specialist and Environment Specialist accompanied during the visit. PMC's Social Development Specialist was mobilized for attending site visit for the period from 25 to 29 August 2020 and the same informed to UPPWD vide letter No. Egis India/LKO/UPCRNDP/2020/962 Dated 25.08.2020.

1.8. Correspondence Management

Important Correspondences and Minutes of the Meeting conducted are attached as **Enclosure-1**.

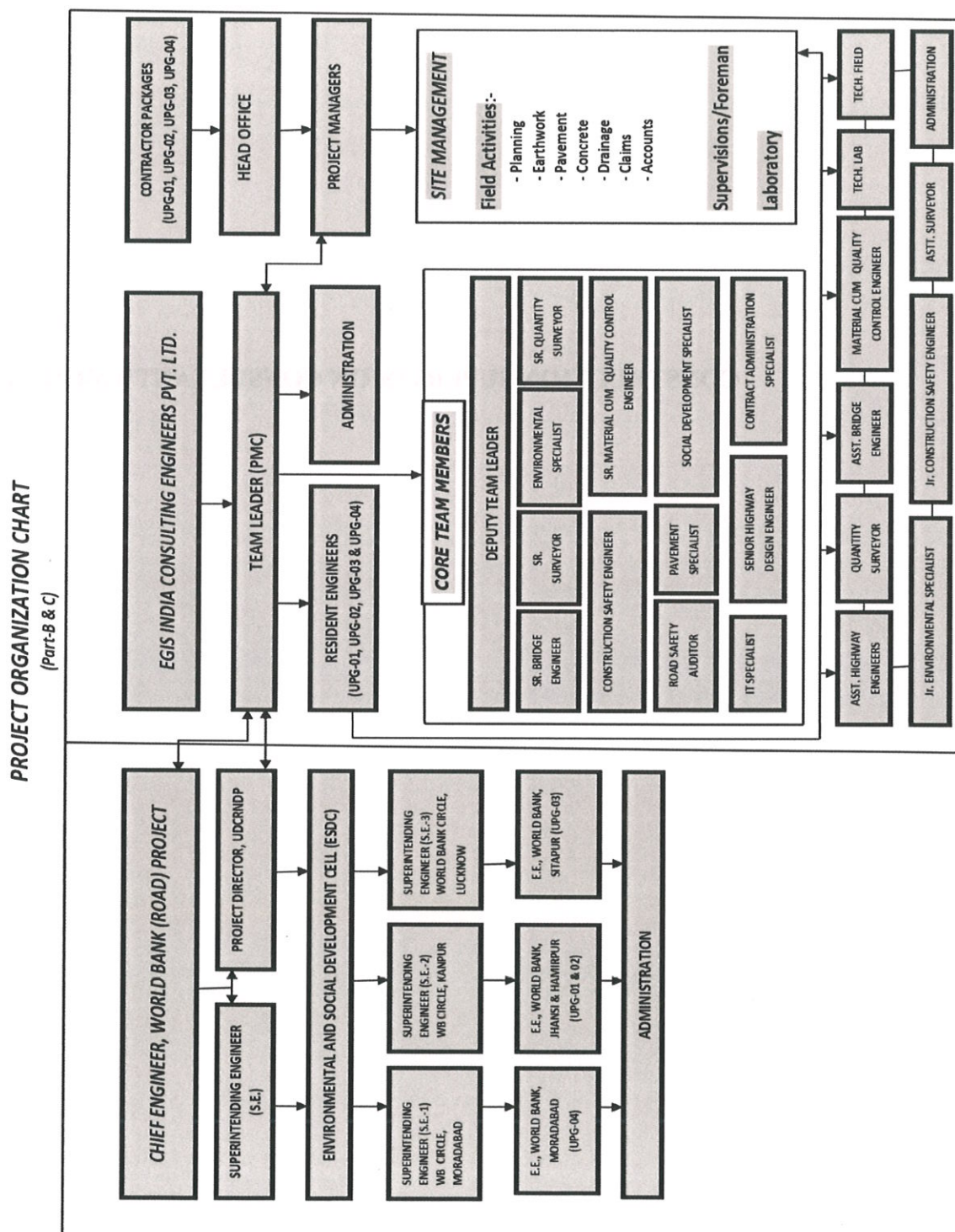
CHAPTER-2:

CONSTRUCTION SUPERVISION CONSULTANT's MOBILIZATION

2. CONSTRUCTION SUPERVISION SERVICES

2.1. Organization

The Construction Supervision Services for Phase I Roads including EPC Contract Supervision is shown diagrammatically in the Construction Supervision Organization chart in Figure below:



2.2. Consultant's Mobilization

2.2.1. Staff

The chart shows in *Table-1* below Egis's Staff mobilizations until the date of this report, together with the proposed durations of each staff member.

2.2.2. Vehicles

The Table-2 shows the Vehicles that have been deployed by the Egis for the use of Team Leader and Resident Engineers' Staffs in the project for the Supervision of Civil Work. The commercial registered Vehicles have been engaged with Drivers and fuel through vendors. Statutory Permit, Routine Service and Repairs for the Vehicles will be carried out by the Vendors.

2.2.3. Offices

Team Leader Office has been set up in Lucknow near to Client's Office.

Address is: **Office of the Team Leader/Authority Engineer,**
Egis India Consulting Engineers Pvt. Ltd.
House No.3/138, Vishal Khand, Gomatinagar,
Lucknow, UP-226010
Phone: 0522 - 4952905,
Email: egis_upcrndp@egis-india.com

Site Office Addresses:

Contract Package – UPG/01

Hamirpur – Rath Section of SH-42:

Office of the Resident Engineer

Egis India Consulting Engineers Pvt. Ltd,
C/o Mr. Ram Ratan Singh,
Nai Basti, Charkhari Road, Near Ramlila
Ground, Rath Distt.-Hamirpur,
Uttar Pradesh-210 431

Contract Package – UPG/03

Gola – Shahjahanpur Section of SH-93

Office of the Resident Engineer

Egis India Consulting Engineers Pvt. Ltd,
1st and 2nd Floor, Main Shahjahanpur
Road In front of Garg Crasher, Bara
Road, Mohammadi, Uttar Pradesh-262 804

Contract Package- UPG/02

Garautha – Chirgaon Section of SH-42

Office of the Resident Engineer

Egis India Consulting Engineers Pvt. Ltd,
Dharmendra Kumar Parashar
S/o: Shri Uma Shankar Parashar
56, Pahadi Buzurg, Chirgaon
District- Jhansi (U.P) –284301

Contract Package – UPG/04

Badaun – Bilsī-Bijnaour Section of SH-51

Office of the Resident Engineer

Egis India Consulting Engineers Pvt. Ltd.
C/o Mr. Dalchand, Holi Vala, Chakauri Road
Near Bajaj Showroom, Near Bajaj Showroom
Road, Hasanpur-244 241

Table-1: Showing Staff Mobilization of Team Leader Office as per Proposed Revision

Position	Name	Duration (months)	Start date	Remarks
TEAM LEADER'S OFFICE				
Team Leader	Mohd. Ayaz Beg	65.381	01.06.19	
Dy. Team Leader (Const. Mgmt. Specialist)	Mr. Jitendra Kumar Singh	36	10.08.20	
Contract Administration Specialist	TBA	36	TBA	Part-C Services
Senior Highway Design Engineer	Mr. Sanjay Kumar	18		Part-C Services (Existing Staff of EGIS)
Senior Bridge Design Engineer (intermittent)	Mr. Rashid Najfi	10		Part-C Services (Existing Staff of EGIS)
IT Specialist	Mr. Sanjay Ayyangar	36	10.09.19	Part B & C Services
Social Development Specialist	Dr. Sudesh Kaul	16.44	08.08.18	Part-C Services
Road Safety Auditor	Mr. Bhushan Kumar Merigala	10		Part-C Services (Existing Staff of EGIS)
Pavement Specialist (Intermittent)	Mr. T. Someshwar Rao	11	03.09.19	Part-C Services
Senior Material cum Quality Control Specialist	Mr. Alok Sinha	45.5	06.07.18	Part-B Services
Construction Safety Engineer	TBA	40	TBA	Mr. Raman Ranjan Das CV Approved.
Environment Specialist	Mr. Dev Brat Singh	45	15.03.18	Part-B&C Services
Senior Surveyor	Mr. Rajendra Singh	16	05.03.18	
Senior Bridge Engineer	Mr. Rajiv Ranjan Verma	39	01-05-20	Part-B Services
Senior Quantity Surveyor (additional)	Mr Anil Katiyar	42	19.02.20	Part-B Services
PMIS/Procurement Sub-professional	Mr. Deepak Pant	72	26.06.19	
Assistant Social Development Specialist	Mr. Bikram Singh	10	11.09.19	
Office Manager cum Accountant	Mr. K.C.Joshi	72	14.05.18	
Computer Operator	Mr. Ashok Kumar Srivastava	72	15.04.15	
Office Assistant	Mr. Sunil Kumar	72	03.06.19	
Watchman	Mr. Gyanendra Singh	72	05.10.14	

Table-2: Vehicles Mobilization

Sl No.	Vehicle Type	Vehicle No.	Start Date	Remarks
TEAM LEADER'S OFFICE (LUCKNOW)				
1	MARAZZO	UP-32 LN 6457	13.08.2019	
2	TATA JEST	UP-32 LN 1212	23.07.2018	
CONTRACT PACKAGE- UPG/01 HAMIRPUR – RATH				
1	TUB	UP-93 CT 2775	01.05.2020	
2	BOLERO	UP-93 CT 1827	01.05.2020	
3	BOLERO	UP-93 BG 2454	05.12.2019	
CONTRACT PACKAGE – UPG/02 GARAUTHA –CHIRGAON				
1	BOLERO	UP-93 BF 5194	15.01.2019	
CONTRACT PACKAGE – UPG/03 GOLA - SHAHJAHANPUR				
1	BOLERO	UP-31 AT 2263	12.05.2020	
2	BOLERO	UP-27 AU2415	06.12.2019	
3	BOLERO	UP-27 AU2414	06.12.2019	
CONTRACT PACKAGE –UPG/04 BADAU – BILSI - BIJNAOUR				
1	BOLERO	UP-23 V 3064	26.08.2019	
2	BOLERO	UP-23 X 2683	06.12.2019	
3	BOLERO	UP-23 AC 2841	05.12.2019	
EMPLOYER'S USE				
1	SCORPIO			<i>Provided by M/s NKC Projects</i>

CHAPTER-3 CONTRACT PROJECT ACTIVITIES

3. CONTRACT PROJECT ACTIVITIES

3.1 CONSTRUCTION PACKAGE – UPG-02 (Garautha – Chirgaon)

3.1.1 Introduction

Contract Package UPG-02, Up-gradation (Widening/Strengthening) of Garautha-Chirgaon Section of SH42 From Km. 118+600 to Km. 167+745, has been awarded to M/s NKC Projects Pvt. Ltd., Gurgaon, for a Contract Amount of Rs. 189,99,99,491.00/- (Rupees One Hundred Eighty Nine Crores Ninety Nine Lacs Ninety Nine Thousand Four Hundred Ninety One only). The Contract Agreement No.100/UPCRNDP/CEEAP/2016-17 was signed on 4th January 2017.

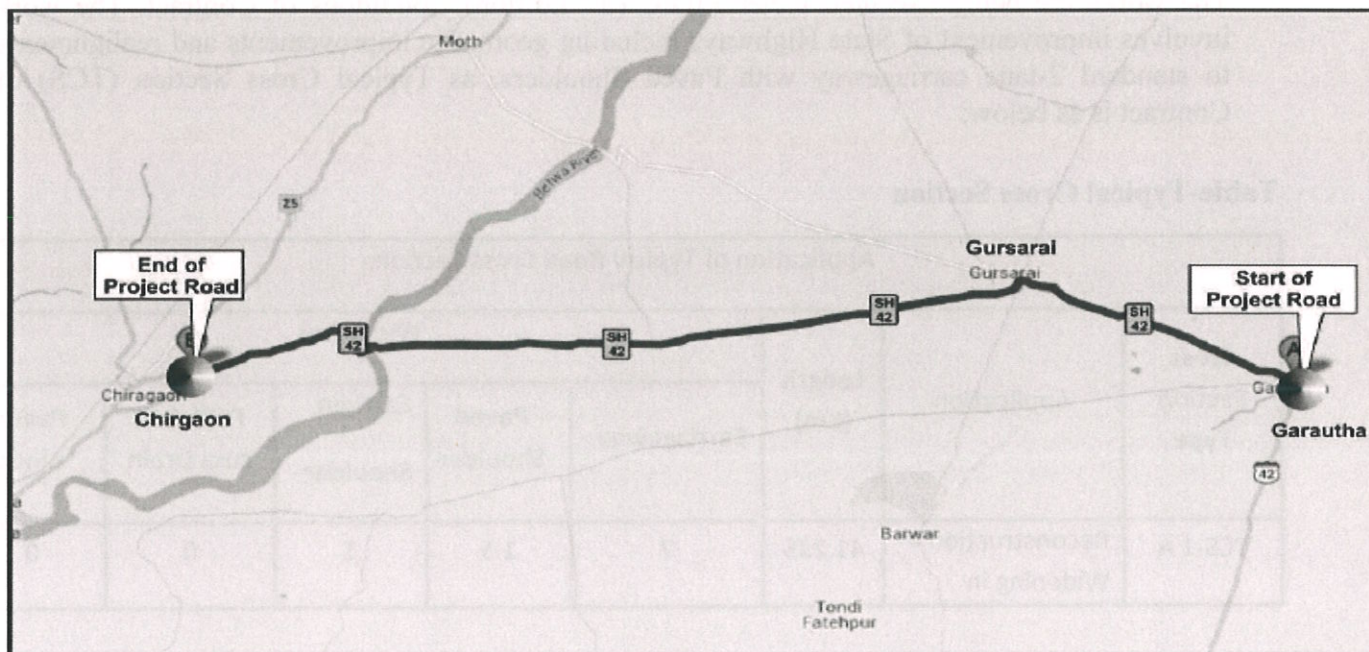
The project works are divided into two parts, PART-1 includes the maintenance of existing road during construction and Up-gradation (Widening/Strengthening) of carriageway as per Contract Specifications and PART-2 works required maintenance for 5 Years after taking over Part-1 works as per specifications.

Sl. No.	Contract Package	Length (Km)	Completion Period (as per Contract)	Contract Agreement Date	Commencement Date (as per Contract)	Scheduled Completion Date (as per Contract)
1.	UPCRNDP/UPG/02/2014 Garautha-Chirgaon Road (SH-42)	49.145	24 Months	04.01.2017	15 th January 2018	14 th January 2020

The cumulative **Physical Progress Achieved is 99.96% and Financial Progress is 87.2%** against **target of 100%** of the Contractor's work programme as approved by the PMC.

The following sections of the report describe the project, Project background, Salient Features of civil works contracts and the Contractor's activities, the Consultant's activities, and the issues that are being resolved.

Project Location Map



The completion of Part-1 works has been divided in 4 Milestones which are as follow;

Table- Milestones

Part-1 Mile Stone	Physical Works to be completed GCC 1.1 (q)	Period and Date of Completion			Status as on date
		Period in Months	Start Date	Scheduled End Date	
M-1	Routine Maintenance works Existing carriageway (MSS & Patchwork)	12	15/01/2018	14-01-19	Achieved on 10 th Jan-19
M-2	25% of total length under package up to DBM top including all structures therein	12	15/01/2018	14-01-19	Achieved on 10 th Jan-19 (Outstanding Minor work notified vide our Ir.332 dt.21-Jan-2019)
M-3	70% of total length under package up to DBM top including all structures therein	18	15/01/2018	15-07-19	Achieved on 23 th April- 19(Outstanding Minor work notified vide our Ir.509 dt.22-July-19)
M-4	100% of all Part 1 works complete in all respect for the entire length of package	24	15/01/2018	14-01-20	Further Extended up to End of 31-Oct-2020
Part-2	Routine maintenance of the Project road completed as per Additional Specifications of Contract (Cl. A-1) for 5 years including one year of DLP.				Will Start on Completion of Part-1 Work

NOTE: Milestone-4 Completion of Work delayed due to Continuous effects of Pandemic COVID-19 and hindrances in Urban Areas (especially in Villages-Garautha/Sultanpura) and additional works of Drain/ Minor Junction & divided /Widening C/W at Gursarai.

Salient Features of the Contract is Enclosed, Refer Annexure-A- Contract Data

Description of Works

The works are being executed under FIDIC (5th Edition) Conditions of Contract. The work involves improvement of State Highways including geometric improvements and realignments to standard 2-lane carriageway with Paved Shoulders, as Typical Cross Section (TCS) of Contract is as below;

Table-Typical Cross Section

Application of Typical Road Cross Sections							
Cross Section Type	Application	Length (Km)	Width (m)				
			Carriageway	Paved Shoulder	Earthen Shoulder	Footpath cum Drain	Paver Block
TCS-1 A	Reconstruction + Widening in	41.235	7	1.5	1	0	0

	Rural Section						
TCS-1 B	New Construction + Realignment	0.260	7	1.5	1	0	0
TCS-1 C	Widening + New Construction due to Raising	3.860	7	1.5	1	0	0
TCS-2	Reconstruction + Widening in Urban Section	3.320	7	1.5	0	1.5	Varies
TCS-3 A	Reconstruction + Widening in Semi Urban Section	0.200	7	1.5	0	1.5	Varies
TCS-3 B	Reconstruction + Widening in Semi Urban Section	0.270	6	1.5	0	1.5	Varies
Total Project Length (Km)		49.145					

Consultant Mobilization:

The project is being executed and managed within the Contract Management Framework (CMF) as described in the Contract Agreement.

Staff Mobilization

Mobilization of Resident Engineer's Office Staff for the Construction Supervision is below:

Table: Consultant Staff

Resident Engineer Office, Contract Package-02 Garautha-Chirgaon				
Sl. No.	Position	Name	Duration (In Month)	Date of Joining
Technical Staff				
1	Resident Engineer	Mr. Rajesh Kumar Srivastava	48	06.03.2018
2	Assistant Highway Engineer-I	Mr. Nikunj Kumar	27	17.07.2018
3	Assistant Bridge Engineer	Mr. Rajesh Kr. Singh	27	06.08.2018
4	Assistant Material Cum Quality Engineer-I	Mr. Sat Pal Singh	27	08.04.2019

Resident Engineer Office, Contract Package-02 Garautha-Chirgaon				
Sl. No.	Position	Name	Duration (In Month)	Date of Joining
5	Assistant Surveyor-1	Mr.Arun Sharma	27	13.02.2018
Administrative Support Staff				
6	Computer Operator/Office Assistant	Mr. Akhilesh Chandra	48	10.05.2018
7	Office Assistant	Mr.Nipendra Kumar	48	01.08.2019

Refer Figure-1- Consultant's Organization Chart

3.1.2 Construction Activities

3.1.2.1 Site Possession and Utilities

Client vides letter No.11/1eom-W.B.P.C.K/18 Dated 15th January 2018 handed over the entire project length for the Routine Maintenance works (Existing Carriageway) to execute under Project

Table: Status of Site Possession

Timeline	Site required to be Handed over as per CA GCC 1.1 (q)		Actual Site Handed over by the Client		Reference of Authority's letter number
	Due Date	Length	Date	Length	
On the Start Date	15/01/2018	13.000	15/01/2018	28.000	Letter No.11/1eom-W.B.P.C.K/18 Dated 15.01.2018
6 Months from Start Date	14/07/2018	30.400	11/07/2018	21.145	Letter No. 387/16C(1)-W.B.P.C.K/2018Dated 11.07.2018
12 Months from Start Date	14/01/2019	5.745	11/07/2018	0.000	Total Project Length Handed Over on 11.07.2018

Some of the balance utilities in approximate 0.285 Km. of Project Length noticed at later stage especially at village Garautha,Luharand village Sultanpura. The detail is enclosed, Refer Annexure-B- Encumbrance List

3.1.3 Mobilization of Contractor:

3.1.3.1 Base Camp Establishment

Contractor has established the Base Camp Office at Ch.138+030 (RHS) Village-Pureniya along with Central Laboratory, Construction plants, Mechanical Work Shop and Workers Accommodation.

Base Camp Office Address:

M/S NKC Projects Pvt Ltd.
Near Gursarai, Plot No. 243,

Village-Pureniya, Tehsil-Tehrauli,
Dist-Jhansi (UP)-284202

3.1.3.2 Human Resources

Contractor has mobilized key staff as per Contract GCC 9.1 is listed in table below;

Table-Key Personnel

Sl.	Designation	Name	Remarks
1	Project Manager	Mr. Raajiv Choudhari	Joined Duty on dt. 08.06.2019
2	Highway Engineer	Mr. Pankaj Pradhan	
3	Material Engineer	Mr.Pramod Kr. Pradhan	
4	Quantity Surveyor	Mr. Ashudev Purohit	
5	Land Surveyor	Mr. Deepak Dixit	
6	Mechanical Equipment Maintenance Engineer	Mr. Yogendra Singh	
7	Environmental cum Road Safety Manager	Mr. Vijay Rajput (Safety Officer)	Demobilized in July-20 (Since Inception Position was Vacant; Safety Officer was looking EHS Works.)
8	Bridge Engineer	Mr. Niraj Kumar Mishra	On dt.20.04.2018

Contractor has also deployed technical staff, non-technical staff and skilled workers at site. List of manpower and organisation chart is enclosed.

Refer Figure-2- Organization Chart Along with Contractor's Staff List.

3.1.3.3 Plant and Machinery

Contractor has established following Construction Plants at Base Camp location Ch. 138+030 (RHS) except Crusher Plant.

Table- Construction Plants

Sl. No.	Plants Mobilized	In No.	Location	Make & Capacity	Date of Commissioning
1	Batching Plants	01	Ch.138+030 RHS	Sewing Starter CP-30	01.04.2018
2	Wet Mix Plants	01	Ch.138+030 RHS	Ashish Contractor & 100 TPH	18.07.2018
3	Hot Mix Plants	01	Ch.138+030 RHS	Amman-Applo VT-	17.10.2018

				140 & 140-160 TPH	
4	Crushers	00	Not Established	-	Procuring from Pvt. Crusher

List of Key Plant and equipment is enclosed, Refer Annexure-C- Plant & Machinery Details; Contractor has demobilized the Construction Plants in July-August-2020.

3.1.3.4 Material

Contractor procuring materials like Cement, Steel, and Bitumen etc. from approved sources and aggregates from licensed private crushers. Procured material during this reporting month is presented in Annexure-D Material Procurement Statement.

3.1.4 Work Progress

3.1.4.1 Design and Drawing

The List of drawings received and approved is enclosed as Annexure-E Drawings Approval.

3.1.4.2 Work Programme & EOT

Intrim **EOT-I** was recommended by PMC upto 24 April 2020 vide letter ref. Egis India/HO/UPCRNDP/ 57882/2020 dated 14.02.20 due to various reasons of site hinderances and additional works accommodated at later stage. Further **EOT-II** pursuant of Clause 28 of GCC vide letter ref. Egis India/HO/UPCRNDP/ 60412/2020 dated 10.06.2020 was recommended as the work delayed due to Covid19 pandemic consequences.

Meanwhile Contractor pursuant to Clause 55/56 of GCC has requested to issue the Completion Certificate (30th of June 2020) as the majority of work was completed except additional works at Village Sultanpura and Rehabilitation works of Betwa Bridge. Authority advised that numerous outstanding works to be completed by Contractor for safe operation of completed road for which Contractor can be further submit EOT Application. Accordingly the Contractor has applied **Extension of Time-III** up to End of October, 2020 and same has been reviewed and recommended by the Engineer vide letter ref. Egis India/HO/UPCRNDP/UPG-02/62722/2020 Dated 28.08.2020 for the completion of Project subject to no **Additional Costs** shall be claimed by the Contractor on extending the Scheduled Completion Date.

Considering the Contract Awarded Cost of 189.99 Crores (including maintenance) and Progress up to August 2020 is as follows;

UPG-02 Garautha-Chirgaon	Up to End of Previous Month		This Month		Cumulative up to Date	
	Target	Achieved	Target	Achieved	Target	Achieved
Amount (in Cr.) (Excluding maintenance)	189.99	162.17	33.98	3.56	189.99	165.7
In % age	100.00	85.35	16.45	1.85	100.00	87.2

Note: Financial Progress up to month of August 2020 is 87.2% & Physical 99.6%, As Built Drawing for completed project is to be submitted.

3.1.4.3 Interim Payment Certificate

Contractor has not raised IPA in this month due to site work was suspended because of COVID-19.

IPC No.	IPC for the month of	Recommended by the Engineer	Payment Date	Gross Amount (INR)	Gross Amount including P.A & Advance (INR)	Net Amount (In INR)	Remarks
IPC-1	Mobilization Advance	26-01-18	26-01-18	3,40,00,000	3,40,00,000	3,40,00,000	Mobilization
IPC-2	01-03-2018 to 20-06-2018	Egis India/RE UPG-02/UPCRNDP/054/2018 Dated 28.06.2018	16.07.18	4,01,17,569	10,02,83,293	9,66,05,628	
IPC-3	21-06-2018 to 22-09-2018	Egis India/RE UPG-02/UPCRNDP/185/2018 Dated 26.09.2018	04.10.18	2,82,97,739	1,66,70,553	1,42,24,729	
IPC-4	23-09-2018 to 20-10-2018	Egis India/RE UPG-02/UPCRNDP/222/2018 Dated 25.10.2018	02.11.18	4,35,21,574	4,67,14,575	4,49,13,295	
IPC-5	21-10-2018-30-11-2018	Egis India/RE UPG-02/UPCRNDP/281/2018 Dated 19.12.2018	31.12.18	5,45,27,095	4,53,62,967	4,23,93,414	
IPC-6	01-12-2018 to 31-12-2018	Egis India/RE UPG-02/UPCRNDP/328/2018 Dated 17.01.2019	01.02.19	14,01,05,810	14,96,60,667	10,82,98,767	
IPC-7	01-01-2019 to 31-01-2019	Egis India/RE UPG-02/UPCRNDP/349/2018 Dated 12.02.2019	08.03.19	12,88,56,980	12,83,80,058	11,98,00,473	
IPC-8	01-02-2019 to 28-02-2019	Egis India/RE UPG-02/UPCRNDP/379/2018 Dated 07.03.2019	18.03.19	15,25,92,335	15,67,56,237	14,63,35,682	
IPC-9	01-03-2019 to 18-03-2019	Egis India/RE UPG-02/UPCRNDP/385/2018 Dated 19.03.2019	31.03.19	18,53,44,116	19,06,44,414	14,11,90,154	
IPC-10	19-03-2019 to 30-04-2019	EGIS India/LKO/UPCRNDP/2019/418 Dated 10.06.2019	19.06.19	16,55,54,846	17,39,16,229	1,28,92,0436	
IPC-11	01-05-2019 to 31-05-2019	EGIS India/LKO/UPCRNDP/2019/432 Dated 24.06.2019	29.06.19	10,63,34,633	11,10,26,182	8,94,67,102	
IPC-12	01-06-2019 to 30-06-2019	EGIS India/LKO/UPCRNDP/2019/508 Dated 20.07.2019	29.07.19	63,23,86,532	6,47,67,889	5,99,95,522	
IPC-13	01-07-2019 to 31-07-2019	EGIS India/LKO/UPCRNDP/2019/517 Dated 14.09.2019	21.09.19	6,28,30,718	6,53,39,604	3,77,22,614	
IPC-14	01-08-2019 to 31-08-2019	EGIS India/LKO/UPCRNDP/2019/536 Dated 25.09.2019	11.10.19	6,23,81,709	6,53,46,879	5,59,36,384	
IPC-15	01-09-2019 to 31-10-2019	EGIS India/LKO/UPCRNDP/2019/602 Dated 22.11.2019	29.11.19	3,75,34,609	3,99,70,364	3,82,66,900	
IPC-16	01-11-2019 to 30-11-2019	EGIS India/LKO/UPCRNDP/2019/639 Dated 14.12.2019	01.01.20	3,06,12,170	3,25,98,945	3,12,24,954	

IPC-17	01-12-2019 to 31-12-2019	EGIS India/LKO/UPCRNDP/ 2019/692 Dated 20.01.2020	29.01.20	8,44,32,450	8,83,24,570	8,26,52,934	
IPC-18	01-01-2020 to 31-01-2020	EGIS India/LKO/UPCRNDP/ 2019/733 Dated 17.02.2020	25.02.20	67,6,77,127	7,14,52,050	6,81,54,756	
IPC-19	01-02-2020 to 29-02-2020	EGIS India/LKO/UPCRNDP/ 2019/766, Dated 04.03.2020	07.03.20	6,48,00,735	6,79,46,365	6,35,83,876	
IPC-20	01-03-2020 to 18-03-2020	Egis India/UPCRNDP/UPG- 02/778/2020, Dated 21.03.2020	30.03.20	2,74,74,416	3,45,28,042	3,49,73,602	
IPC-21	19-03-2020 to 31-05-2020	Egis India/UPCRNDP/UPG- 02/817/2020, Dated 04.07.2020	06.07.20	10,43,82,105	11,04,06,077	10,55,85,034	Recommended by PMC
IPC-22	01.06.2020 to 30.06.2020	Egis India/LKO/UPCRNDP /2020 /998, Dated 15.09.2020	15.09.20			3,45,47,635	Recommended by PMC

3.1.4.4 Physical Progress

A) Road Works: Progress of road works during the month is shown as below

Highway Physical Progress in Linear Length									
Sl.	Description	Unit	Scope	Work Done up to Previous Month	Progress During the Month			Work Done Up to Date	Progress w.r.t Scope Work
					Length Achieved				
				Average	LHS	RHS	Average	Average	In %
1	C & G	Km	49.145	49.145	0.000	0.000	0.000	49.145	100.00%
2	Earthwork	Km	49.145	49.145	0.000	0.000	0.000	49.145	100.00%
3	Subgrade 1st	Km	49.145	49.091	0.000	0.000	0.000	49.091	99.89%
4	Subgrade Top	Km	49.145	49.091	0.000	0.000	0.000	49.091	99.89%
5	GSB	Km	49.145	49.091	0.000	0.000	0.000	49.091	99.89%
6	WMM 1st	Km	49.145	49.091	0.000	0.000	0.000	49.091	99.89%
7	WMM Top	Km	49.145	49.091	0.000	0.000	0.000	49.091	99.89%
8	DBM 1 st	Km	49.145	49.091	0.000	0.000	0.000	49.091	99.89%
9	DBM Top	Km	49.145	49.091	0.000	0.000	0.000	49.091	99.89%
10	BC	Km	49.145	49.091	0.000	0.000	0.000	49.091	99.89%

B) Structure Works: Progress of Structure Works during the Month is Shown as below:

Physical Progress of Structure Work up to Month August-2020						
Package	DESCRIPTION	Scope in Nos.	Completed up to Previous Month	Completed during the Month	Cumulative Completed	% over all progress
UPG/02	Major Bridge Repair	1	0.4	0.05	0.45	45.00
	Minor Bridge Re-Construction	6	6	0	6	100.00
	Box Culvert (New/ Re-Construction)	46	46	0	46	100.00
	Slab Culvert (New/ Re-Construction)	5	5	0	5	100.00
	Pipe Culvert (New/ Re-Construction)	39	39	0	39	100.00
	Total	97	96.4	0.05	96.45	

Further Progress Details May be Found in;

- Annexure - F, Chainage Wise & Physical Progress Details of Highway
- Annexure - G, Bar Chart of Physical Progress of Highway
- Annexure - H, Progress Strip Chart of Structure Bridges, HPC, Box and Slab Culvert
- Annexure - I, Cross Road Culverts(Drain)
- Annexure -J, S-Curve – Financial and Physical Progress
- Annexure- K, Logistic Plan

3.1.4.5 Quality Control/Quality Assurance

Field laboratory Established at Base Camp Site. Details of Quality Control Tests and Source approvals carried out are presented in **Annexure - L**,

3.1.4.6 Meetings & Site Inspections

Video Conferencing Meeting held on 10.08.2020 under the Chairmanship of Principle Secretary UPPWD, UP Govt. to discuss the progress of the project and issues at sites.

3.1.4.7 Key Issues

- a. **Extension of Time-III** - The Client's approval EOT-III up to End of October, 2020 as recommended by the Engineer vide letter ref. Egis India/HO/UPCRNDP/UPG-02/62722/2020 Dated 28.08.2020 is awaited.
- b. Contractor has achieved and completed the respective Milestones (MS-1, MS-2 & MS-3) up to DBM layer within scheduled time respectively and has also completed final layer of pavement (BC) except for approximate 150m in the village of Sultanpura. However, the Miscellaneous Works such as Protection Works, Finishing Works, Junction Improvement Works, Retaining Wall/Wing Wall works need to be completed in order to completing the project in all respect.
- c. Repair & Rehabilitation works of existing Structures such as Expansion Joint, Replacement of Elastomeric Bearings Work, Replacement of RCC hand rails with RCC Crash Barrier, wearing course, turfing of side slopes, Protection works of Existing piers/ Abutments are in progress with slow rate. So Contractor instructed to expedite the same.

It is requested to Client to get removal of encumbrances affecting road length of 0.285 Km at 3 Locations- Village-Garuatha, Village-Luhar & Village-Sultanpura, at earliest affected possible.

- d. EMP-Enhancement works and Redevelopment of Exhausted Borrow Pits are completed.
- e. Additional Permanent Signage installation, Road marking & RPM as recommended by Safety Auditor are under progress, which needs to be expedited.
- f. Tree Plantation Implementations are still pending at Contractor end.
- g. Drain & Footpath are under progress, which need to be expedited.

DELAYS DUE TO ADDITIONAL WORKS and HINDRANCES

- The project has been delayed due to hindrances such as electrical poles and water pipe lines took more time in shifting by the concerned Utility Department. Also the additional works are assigned at later stage by the Authority such as for widen the PCW in Gursarai from 2-lane to 4 lanes divided C/W and at Sultanpura the proposed C/W from 6.0m to 10m. Hence, Contractor has requested the Extension of Time (EOT-III) in order to complete the scheduled project works and the same is recommended to Authority.

3.1.4.8 Weather

Weather report for the reported period is shown in **Annexure-N**.

3.1.5 Photographs of Various Activities at Site:



Bus Shelter Finishing under Progress at Ch. 166+000 (LHS)



Truck Lay Bye at Ch.161+870 (RHS)



Environment Enhancement Work at Ch. 166+000 (LHS)



Kerb Painting at Ch. 159+300



EMP Enhancement –Tree Plantation at Ch. 166+000 (LHS)



Girder Lifting by Hydraulic Jack for Replacement of Existing Bearing with New Bearing at Pier P-17



Chevron Fixing at Ch 132+000



Bus Shelter Pedestrian crossing at Ch.129+020 (RHS)



RPM Fixing at Ch.138+000-141+0000



RCC Crash Barrier under Progress at MNB (Betwa River)-Ch. 158+964-1



Metal Beam Crash Barrier with Chevron Sign at Ch. 132+000



Box Culvert RCC Crash Barrier at Ch. 138+850



Road Marking, Informatory Board & RPM at Ch. 154+900



5th Kilometer Stone at Ch. 165+000

3.2 CONTRACT PACKAGE UPG-01 (Hamirpur-Rath)

3.2.1 Introduction

Contract Package UPG-01, Engineering, Procurement and Construction Contract for up-gradation and Maintenance of Hamirpur to Rath Section of SH-42 from design Ch.2.065 to Ch.74.850 for total length 72.785 Km in the State of Uttar Pradesh, has been awarded to **M/s GHV (India) Pvt. Ltd.**, through International Competitive Bidding (ICB) norms for the Up-gradation and development. The Contract Agreement No.115/UPCRNDP/UPG/01/2019-20 was signed on 19th June 2019 and the EPC Contract Amount is of **Rs. 262, 39, 50,000/-** (Rupees Two Hundred Sixty Two Crore Thirty Nine Lac Fifty Thousand Only).

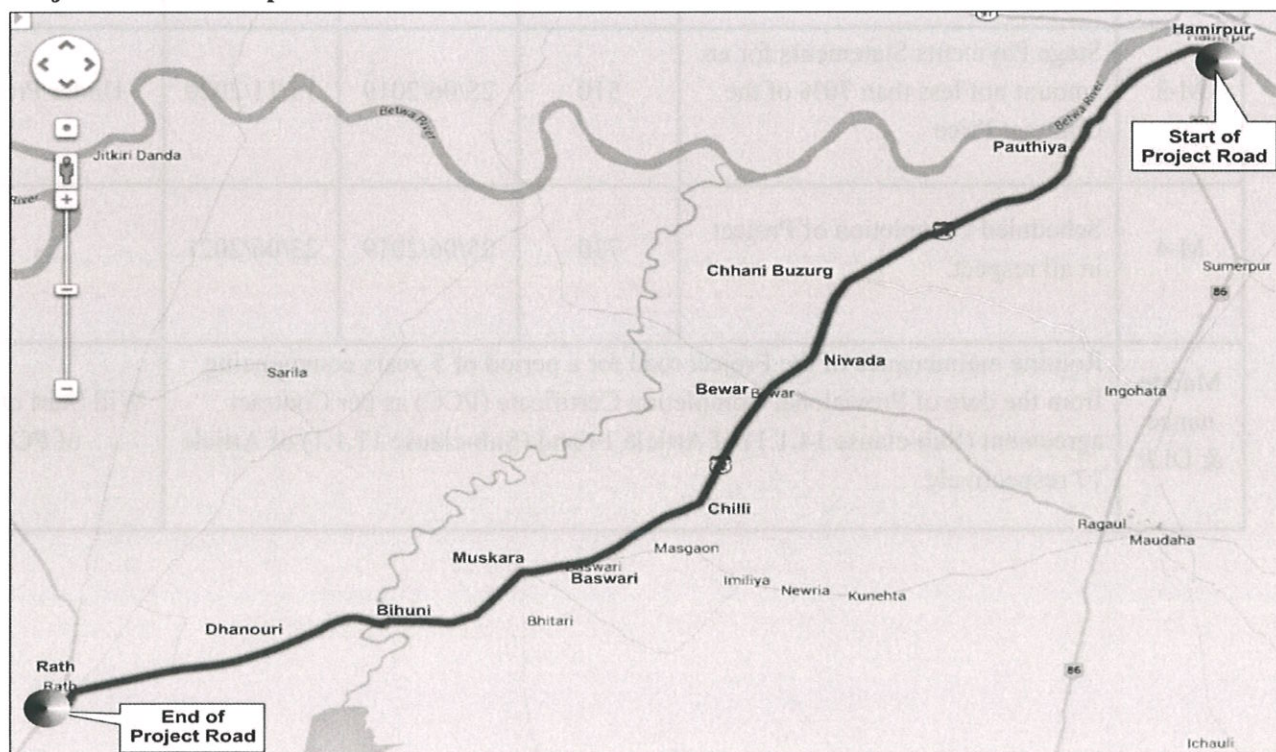
This **Monthly Progress Report No. 14** covers August Month Progress of this Contract Package and summarizes the activities up-to end of this month.

SI. No.	Contract Package	Length (km)	Completion Period (as per contract)	Contract Agreement Date	Appointed Date (as per Contract)	Scheduled Completion Date (as per contract)
1.	UPCRNDP/UPG/01/2018 Hamirpur - Rath Road (SH-42)	72.785	24 Months	19 th June 2019	25 th June 2019	23 rd June 2021

The Cumulative Physical Progress achieved is **52%** and Financial Progress is **49%**.

The following sections of the report describes the Project background, Salient Features of civil works contracts and the Contractor's activities, the Consultant's activities and issues that are being resolved.

Project Location Map



The project work includes the Up-gradation (Widening/Strengthening) of existing Carriageway as per Contract Specifications under EPC Contract and the completed road works required the maintenance for 5 years including Defect Liability Period after issuance of Project Provisional Completion Certificate (PCC).

Table- Milestones

Part-1 Mile Stone	Physical Works to be Completed as per Schedule-J	Period and Date of Completion			Status as on date
		Period in Days	Start Date	Scheduled End Date	
M-1	Stage Payments Statements for an amount not less than 10% of the Contract Price.	150	25/06/2019	21/11/2019	Achieved on 17 th December 2019 Within the 30 days Grace period allowed in CA
M-2	Stage Payments Statements for an amount not less than 35% of the Contract Price.	330	25/06/2019	19/05/2020	Could not be Achieved on Scheduled date due to" Force Majeure Event" ,Continuous imposition of lockdowns for Covid-19 Pandemic situation, achieved on 11-06-20
M-3	Stage Payments Statements for an amount not less than 70% of the Contract Price	510	25/06/2019	15/11/2020	Under Process
M-4	Scheduled Completion of Project in all respect.	730	25/06/2019	23/06/2021	-
Maintenance & DLP	Routine maintenance of the Project road for a period of 5 years commencing from the date of Provisional Completion Certificate (PCC) as per Contract agreement (Sub-clause 14.1.1) of Article 14 and (Sub-clause 17.1.1) of Article 17 respectively.				Will Start on date of PCC

Salient Features of the Contract is Enclosed, Refer Annexure-A- Contract Data

Description of Works

The works are being executed under EPC agreement. The work involves improvement of SH including geometric improvements and realignments to standard 2-lane carriageway with Paved Shoulders, as Typical Cross Section (TCS) of Contract;

Table-Typical Cross Section

Application of Typical Road Cross Sections							
Cross Section Type	Application	Length (Km)	Width (m)				
			Carriageway	Paved Shoulder	Earthen Shoulder	Footpath cum Drain	Paver Block
TCS-1 A	Reconstruction + Widening	45.015	7	1.5	1	0	0
TCS-1 B	Overlay + Widening	21.070	7	1.5	1	0	0
TCS-2 A	Reconstruction + Widening	3.2	7	1.5	0	1.5	Varies
TCS-2 B	Overlay + Widening	1.8	7	1.5	0	1.5	Varies
TCS-3 A	Reconstruction + Widening	0.30	7	1.5	1	1.5	Varies
TCS-3 B	Overlay+ Widening	0.00	7	1.5	1	1.5	Varies
TCS-4 A	Reconstruction + Widening	0.620	7	1.5	0	1.0	Varies
TCS-4B	Overlay+ Widening	0.780	7	1.5	0	1.0	Varies
Total Project Length (Km)		72.785					

Consultant Mobilization:

The project is being executed and managed within the Contract Management Framework (CMF) as described in the Contract Agreement.

Staff Mobilization

Mobilization of Resident Engineer's Office Staff for the Construction Supervision is below:

Table: Consultant Staff

Resident Engineer Office, Contract Package-01 Hamirpur-Rath			
Sl. No.	Position	Name	Date of Joining
Technical Staff			
1	Resident Engineer	Mr. Jawahar Singh	01.10.2019
2	Assistant Highway Engineer-1	Mr. Anil Kumar Vidyarthi	23.07.2019
3	Assistant Highway Engineer-2	Mr. Ravish Kumar	03.08.2019
4	Assistant Bridge Engineer	Mr. Himanshu Thakkar	15.06.2020
5	Assistant Material Cum Quality Engineer-1	Mr. Praveen Kumar Sharma	05.08.2020
6	Assistant Quantity Surveyor-1	TBA	Replacement Cv Submitted.
7	Assistant Surveyor	Mr. Gopal Krishna Biswas	16.05.2019
8	Junior Construction Safety Expert	Mr. Umesh Ramraj Kaithal	04.06.2019
9	Junior Environment Specialist	TBA	
10	Technician Field	Mr. Abhay Kumar	21.05.2019
11	Lab Technician	Mr. Anuraj Tiwari	15.05.2019
Administrative Support Staff			
12	Office Manager Cum Accountant	Mr. Siddhartha Shukla	16.12.2019
13	Computer Operator/Office Assistant	Mr. Sumit Kumar Tiwari	10.10.2019
14	Office Assistant	Mr. Surendra Kumar	01.08.2019
15	Watchman	Mr. Prasant Soni	01.08.2019

Refer Figure-1- Consultant's Organization Chart

3.2.2 Construction Activities :

3.2.2.1 Site Possession and Utilities

The commencement of project work has been started from the Appointed Date granted on 25th June 2019 with 90.75% vacant/unencumbered Land available as per joint site inspection on 19th / 20th June 2019 and memorandum acknowledged.

Site Possession as 100% of Project Length has been handed over to the Contractor by Authority through Memorandum MOM Dated 19.09.2019 for commencement of work.

Some of the balance utilities and tree cutting details are recorded by the Contractor and submitted to Authority Engineer. Authority Engineer verified and communicated to Client to expedite the removal and shifting of hindrances.

3.2.3 Mobilization of Contractor

3.2.3.1 Base Camp Establishment

Contractor has established the Base Camp Office at Ch.57+000 LHS, Village-Bihuni along with Central Laboratory, Construction plants, Mechanical Work Shop and Workers Accommodation.

Base Camp Office Address:

GHV (INDIA) PVT.LTD,
Base Camp, BihuniKhurd
Pargana, Muskara Tehsil,
Maudha, Hamirpur – 210506
PH No. 7060099481

3.2.3.2 Human Resources

Contractor has mobilized Key Staff as per Contract Volume-II is listed in table below;

Table-Key Personnel

Sl. No.	Designation	Name
1	Project Manager	Mr. Sajaudeen Khan
2	Quantity surveyor	Mr. ZafarIqbal
3	Project Coordinator	Mr. Virender Singh
4	Planning Manager	Mr. SumanKumar
5	Highway In-charge	Mr. ShoebBhatt
6	Structure Engineer	Mr. AishKumar
7	Material Engineer	Mr. ShriHari Panda
8	Land Surveyor	Mr. PintuBehra
9	Highway Design Engineer	Mr. Alok Anandmani
10	Environmental specialist	Mr. Vishnu Prajapati (Safety Officer promoted as EHS Officer; AE provisionally approved for 3 months)

Refer Figure-2- Organization Chart Along with Contractor's Staff List.

In addition of Key Personals Contractor has deployed some Technical Staff, Non-Technical Staff and Skilled Workers at site.

3.2.3.3 Plant and Machinery

Contractor has established following Construction plants at Base Camp except Crusher Plant.

Table-Construction Plants

Sl. No.	Plants Mobilized	In No.	Location	Make & Capacity	Date of Arrival
1	RMC 1	01	Ch.14+100 RHS	90Cum/hr	20.07.2019
2	RMC 2	01	Ch. 57+000 LHS	25Cum/hr	06.07.2019
3	Wet Mix Plants	01	Ch. 57+000 LHS	200 TPH	01.07.2019
4	Hot Mix Plants	01	Ch. 57+000 LHS	160 TPH	01.07.2019
5	Crushers	00	Not Established		Procuring from Pvt. Crusher

List of Key Plant and equipment is enclosed, **Refer Annexure-C- Plant & Machinery Details**

3.2.3.4 Material

Contractor procuring materials like Cement, Steel and Bitumen etc. from approved sources and aggregates from licensed private crushers. The List of material requirement and procured quantity is enclosed as **Annexure-D Material Procurement Statement**.

3.2.4 Work Progress

3.2.4.1 Design and Drawings

The List of drawings received and approved is enclosed as Annexure-E Drawings Approval.

3.2.4.2 Work Programme & EOT

Contractor submitted Claim for IEOT of 115 Days in accordance with Article-21 "Force Majeure" and Article-10, Clause 10.5 "Extension of Time for Completion" of Contract Agreement. PMC evaluated and recommended to Authority that the Contractor can be awarded First Interim Extension of Time (IEOT) of Sixty Eight (68) Days, including the 30 Days lost due to complete lockdown, extending the original Contract Completion Date as per CA Schedule-J of 23 June 2021 to 30th August 2021

as recommended by the Authority Engineer vide Egis letter No. Egis India/HO/UPCRNDP/62348/2020 Dated 30.07.2020.

The Contractor's Base Line Work Program approved, however an additional separate work program was also submitted by the Contractor to catch-up with the slipped MS-II works.

Milestone-II achieved on 11th June 2020 with 23rd days delayed from the Scheduled Completion Date and the same has been reported by the Contractor.

3.2.4.3 Financial Progress

UPG-01 Hamirpur-Rath	Up to End of Previous Month		This Month		Cumulative	
	Target	Achieved	Target	Achieved	Target	Achieved
Amount (Lakh)	13427	11268	1136	1585	14563	12854
In % age	51	43	4	6	55	49

3.2.4.4 Stage Payment Statement (Interim Payment Certificate)

The Contractor has submitted the Stage Payment Statement (SPS-09) against the IPC-10 for the work done achieved during the month of August 2020. Authority Engineer has reviewed & certified after scrutiny of SPS-09 (IPC-10) for Payment.

Table represent the IPC's & SPS details:

IPC Wise Work done & Payment Details Package No.-1						
IPC No.	IPC for the month	Recommended by the Engineer	Gross Work Done Amount (INR)	Gross Amount including P.A (INR)	Net Paid Amount (In INR)	Remarks
IPC-1	Mobilization	26-06-19		26,23,95,000	25,71,47,100	Mobilization. advance
IPC-2	19-Nov	20-12-19	10,80,90,664	10,80,90,664	9,62,00,691	Net Payment as per payment sheet
IPC-3	19-Dec	25-01-20	18,22,37,242	18,22,37,242	14,21,91,146	
IPC-4	20-Jan	24-02-20	9,44,78,095	10,59,97,310	6,98,37,606	
IPC-5	20-Feb	21-03-20	17,91,65,942	18,46,29,908	13,49,20,619	
IPC-6	20-Mar	21-03-20	13,85,70,115	13,85,70,115	7,83,27,403	
IPC-7	20-May	12/6/2020	14,60,32,188	14,60,32,188	12,99,68,647	
IPC-08	June-2020	10.07.2020	16,96,99,124	16,96,99,124	5,18,80,716	
IPC-09	July-2020	13.08.2020	1,12,69,23,633	11,89,38,865	7,50,23,652	

IPC-10	August-2020	16.09.2020	15,69,39,008	15,69,39,008	9,69,20,424
Total Amount Rs			1,01,82,73,370	1,03,52,56,551	80,33,26,827

3.2.4.5 Physical Progress

A. Road Works: Progress of Road Works during the Month August 2020 as follows:

Physical Progress up to 31-08-2020									
Highway Physical Progress in Linear Length									
Sl. No.	Description	Unit	Scope/ modified Scope	Work Done up to Previous Month	Progress During the Month			Work Done up to Date	Progress w.r.t Scope Work
					Length Achieved				
				Average	LHS	RHS	Average	Average	In %
1	Subgrade Top	Km	72.785	47.665	7.120	7.470	7.295	54.960	75.51%
2	GSB	Km	72.785	44.725	1.780	8.110	4.945	49.670	68.24%
3	WMM	Km	55.850	35.340	0.000	0.940	0.470	35.810	64.12%
4	DBM	Km	55.850	35.125	0.000	0.930	0.465	35.590	63.72%
5	DLC	Km	16.935	5.190	0.000	5.970	2.985	8.175	48.27%
6	PQC	Km	16.935	3.995	0.000	2.680	1.340	5.335	31.50%
7	BC	Km	55.850	9.415	11.41 5	11.27 5	11.345	20.760	37.17%
8	Earthen Shoulder	Km	145.570	0.000	0.000	0.000	0.000	0.000	0

B. Structure Works: Progress of Structure works during the Month August 2020 as follows:

Physical Progress of Structures up to 31.08.2020					
Description	Scope in Nos.	Completed up to Previous Month	Completed During Month	Cumulative Completed	% over all progress
Minor Bridges (Reconstruction)	1	0	0.8	0.8	80.00
Box Culverts (New/Re- Construction)	38	21	3	24	63.16
HP Culverts (New/Re- Construction)	34	32	1	33	97.06
MNB (Widening+Repairing)	3	0	0	0	0.00

Culverts (Widening+Repairing)	29	11	3	14	48.28
Repair of Structures	21	3	2	5	23.81
Total	126	67	9.8	76.8	

Further progress details may be found in;

- Annexure - F, Chainage Wise & Physical Progress details of Highway
- Annexure - G, Bar Chart of Physical Progress of Highway
- Annexure- H, Progress Strip Chart of Structure Bridges, HPC, Box and Slab Culvert
- Annexure- I, Cross Road Culverts (Drain)
- Annexure -J, S-Curve – Financial and Physical Progress
- Annexure- K, Logistic Plan

3.2.4.6 Quality Control / Quality Assurance

Field laboratory established at base camp site. Details of Quality control tests and Source approvals carried out are presented in Annexure - L,

3.2.4.7 Meetings & Site Inspections

Video Conferencing Meeting held on 10.08.2020 under the Chairmanship of Principle Secretary UPPWD, UP Govt. to discuss the progress of the project and issues at sites.

3.2.4.8 Key Issues

- The GHV Contractor's Representative raised Issues for hindrance of utility shifting i.e. Tree, electric poles, water pipe line etc. which are affecting the progress of work.
- The C.E has instructed to Concern PWD (World Bank) for immediate action to be taken for removing/shifting the hindered length. Forest dept and utility authority have accelerated and cleared for the Contractor to start Works at numerous sections.
- Change of Scope works reconstruction of culverts to be finalized .
- Contractor working under SOP as Pandemic COVID-19 effects continuous.
- Contractor's Statutory Permits for established Construction Plants are still under progress for WMM at Ch.57+000 and RMC Plant at Ch.14+000.
- CPR sites are finalized by the Client, contractor has to expedite the relocation works.

3.2.4.9 Weather

Weather report for the reported period is shown in Annexure-N.

3.2.5 Photographs of Site Activities at Site:



DLC FDD testing at Ch. 15+850 (RHS)



DBM laying at Ch. 32+300 (RHS)



PQC Beam Testing at Ch. 14+100



Safety training at work Site



Thermal Scanning in camp at Ch. 57+100



Core density check at Lab Ch. 57+000 (LHS)

3.3 CONTRACT PACKAGE UPG-03

3.3.1 Introduction

Contract Package **UPG-03**, the Engineering, Procurement and Construction Contract for Upgradation (Widening/Strengthening) of Gola -Shahjahanpur Section of SH-93 from design Ch. 1+280 to Ch. 58+580, has been awarded to **M/s APCO Infratech Pvt. Ltd.**, Gurgaon, for a Contract Amount of **Rs 356,90,00,000.00/-** (Rupees Three Hundred Fifty-Six Crores Ninety Lacs only). The Contract Agreement No.116/UPCRNDP/CEEAP/2019-20 was signed on 26th June 2019 and appointed date issued on 11th November 2019.

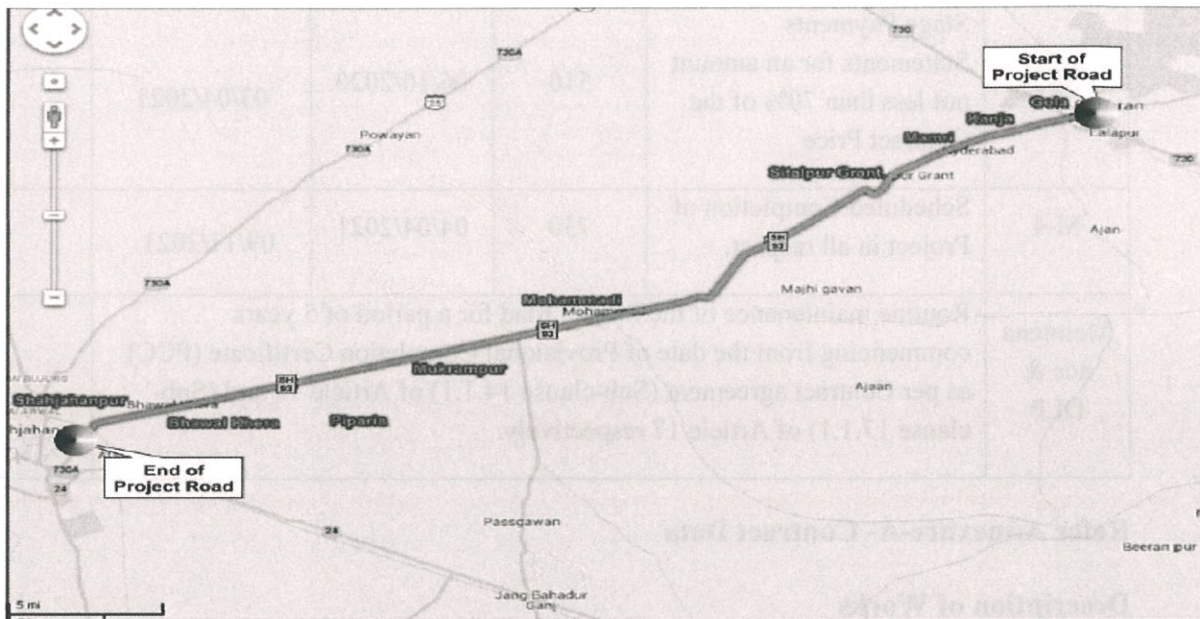
This **Monthly Progress Report No. 10** covers **August 2020 Month Progress** of this Contract and summarizes the activities up to end of this month.

Sl. No.	Contract Package	Length (Km)	Completion Period (as per Contract)	Contract Agreement Date	Commencement Date (as per Contract)	Scheduled Completion Date (as per Contract)
1.	UPCRNDP/UPG/03/2014 Gola-Shahjahanpur Road (SH-93)	57.535	24 Months	26 th June 2019	11 th November 2019	09 th November 2021

The Cumulative Physical Progress achieved **27.5 %** and Financial Progress **25.04 %** up to August 2020.

The following sections of the report describe the project, project background, Salient Features of Civil Works Contracts and the Contractor's activities, the Consultant's activities, and issues that are being resolved.

Project Location Map



Contract Package UPG-03, Engineering, Procurement and Construction Contract for Up-gradation (Widening/Strengthening) of Gola - Shahjahanpur located in Lakhimpur-Kheri District of Uttar Pradesh. The project road of SH-93 starts from Existing Chainage 0+850 from Gola Bypass and end at Ch.58+580 near Shahjahanpur town at Hathora Chaurah Road- NH 703A (Design Chainage 1+280 to Ch.59+035), however from Design Chainage the 4-lane ROB approach from Ch.58+470 to Ch.59+035 is excluded from the scope of the work.

The Project work includes the Up-gradation (Widening/Strengthening) of exiting Carriageway as per Contract Specifications under EPC Contract that is 2 lanes with paved shoulder in the stretch from Design Chainage (1+280 to 59+380), and the completed road works required the maintenance and Defect Liability Period (DLP) for 5 years after issuance of projects' Provisional Completion Certificate (PCC) as per Specifications.

The Completion of Works has been divided in Four Milestones are as follows:

Table- Milestones

The intended Completion Date for the whole of the works is Twenty-Four (24) months with the following Milestones:

Milestone	Physical Works to be Completed as per Schedule-J	Period and Date of Completion			Status as on date
		Period in Days	Start Date	Scheduled End Date	
M-1	Stage Payments Statements for an amount not less than 10% of the Contract Price.	150	11/11/2019	08/04/2020	Achieved on 20 th March
M-2	Stage Payments Statements for an amount	330	09/04/2020	05/10/2020	Under Progress

	not less than 35% of the Contract Price.				
M-3	Stage Payments Statements for an amount not less than 70% of the Contract Price	510	06/10/2020	03/04/2021	-
M-4	Scheduled Completion of Project in all respect.	730	04/04/2021	09/11/2021	-
Mainten ance & DLP	Routine maintenance of the Project road for a period of 5 years commencing from the date of Provisional Completion Certificate (PCC) as per Contract agreement (Sub-clause 14.1.1) of Article 14 and (Sub-clause 17.1.1) of Article 17 respectively.				-

Refer Annexure-A- Contract Data

Description of Works

The works are being executed under EPC agreement. The work involves improvement of SH-93 including geometric improvements and realignments to standard 2-lane carriageway with Paved Shoulders, as Typical Cross Section (TCS) of Contract;

Table-Typical Cross Section

Application of Typical Road Cross Sections							
Cross Section Type	Application	Length (Km)	Width (m)				
			Carriage way	Paved Shoulder	Earthen Shoulder	Footpath cum Drain	Paver Block
TCS-1 A	Reconstruction + Widening in Rural Section	26.897	7	1.5	1	0	0
TCS-1 B	New Construction + Widening in Rural Section	2.960	7	1.5	1	0	0
TCS-1 C	Strengthening with B.C. + Widening in Rural Section	20.287	7	1.5	1	0	0
TCS-2A	Reconstruction + Widening in Urban Section	6.103	7	1.5	0	1.5	Varies
TCS-2B	Strengthening with B.C. + Widening in Urban Section	0.945	7	1.5	0	1.5	Varies
TCS-3	Strengthening with B.C. + Widening in Urban Section/Semi Urban Section	0.343	14	0	0	1.5	0
Total Project Length (Km)		57.535					

Package Summary:	
Contract Bond No.	116/UPCNDP/2019-20 dated 26.06.2019
Project Name	Engineering Procurement and Construction Contract for Up-gradation and Maintenance of Gola-Shahjahanpur Section of SH-93 from Km 1.280 to Km 58.580 in the state of Uttar Pradesh
Package length	57.535 Km
Scheme/ Phase	Phase-I
Mode of the Execution(BOT Toll/ BOT Annuity/ EPC/ HAM/ Item Rate/ Others)	EPC
No. of Major Bridges	01 (01-Reconstruction)
No. of Minor Bridges	12 (4-Reconstruction,3-Widening & 5-Retained With Repair)
No. of Box Culverts	43 (13-Reconstruction, 22-Widening & 8-Aditonal New Culvert)
No. of Arch Culverts	03 (Retained With Repair)
No. of Slab Culverts	20 (13-Widening, 07- With Repair)
No. of Pipe Culverts	18 (13-Reconstruction, 01-Widening & 04-Aditonal New Culvert)
No. of Junctions	178 (10-Major Junctions& 149-Minor Junctions)
Drains in Km	14.782 Km
No. of Bus bays/Bus Shelters	26
Truck layby	02
Contract Summary:	
Employer:	PWD, UP (World Bank)
Representative of Employer:	EGIS INDIA Consulting Engineers Pvt. Ltd.
Contractor:	M/s APCO Infratech Private Limited
Commencement Date:	11-11-2019
Completion Date:	09-11-2021
Time Extension:	NA
Construction Period:	24 months

Defects Liability Period	5 Years from the date of Provisional Certificate
Maintenance of Work	The Maintenance Period of 5 years commencing from the date of Provisional Certificate.
Contract Value (IRS/other Currency):	356,90,00,000.00

Staff Mobilization

Mobilization of Resident Engineer's Office Staff for the Construction Supervision is below:

Table: Consultant Staff

Resident Engineer Office, Contract Package-03 Gola – Shahjahanpur			
Sl. No.	Position	Name	Date of Joining
Technical Staff			
1	Resident Engineer	Mr. Anjani Kumar	03.05.2019
2	Assistant Bridge Engineer	Mr. Anil Kumar Yadav	26.08.2020
3	Assistant Highway Engineer-1	Mr. Abhishek Pandey	22.05.2019
4	Assistant Highway Engineer-2	Mr. Ram Pratap Singh	20.01.2020
5	Assistant Material Cum Quality Engineer-1	Mr. Ranjit Barua	09.06.2019
6	Assistant Quantity Surveyor	Mr. Abhinav Raghav	08.06.2019
7	Assistant Surveyor Engineer	Mr. Gyanendra Singh	15.05.2019
8	Junior Construction Safety Expert	Mr. Vinay Kumar Tiwari	03.10.2019
9	Technician Filed-1	Mr. Rajan Singh	20.05.2019
10	Lab Technician-1	Mr. Ranjan Kumar Singh	01.08.2019
11	Junior Environmentalist	Ms Archana Vaishya	17.06.2020
Administrative Support Staff			
12	Office Manager	Mr. Manish Kumar Dixit	13.05.2019
13	Computer Operator	Mr. Satya Prakash Dwivedi	11.12.2019
14	Office Assistant	Mr. Sumit Pal	07.08.2019
15	Watchman	Mr. Sachin Shukla	26.08.2019

Refer Figure-1- Consultant's Organization Chart

3.3.2 Construction Activities

3.3.2.1 Site Possession and Utilities

Site Possession, more than 90.00% of Project Length has been handed over to the Contractor by the Authority vide letter 2044/EAP/WB/UPG-03/2018 Dated 11.11.2019 for commencement of work.

Authority Engineer vide letter reference Egis India/LKO/UPCRNDP/804/2019 Dated 30th March 2020 requested to Client to handover the balance section of ROW to the Contractor.

3.3.3 Mobilization of Contractor

3.3.3.1 Base Camp Establishment

Contractor has established the Base Camp Office at Ch.39+600 LHS, Village-Kheriyajat Lakhanpur including Central Laboratory, Construction Plants, Mechanical Work Shop and Workers Accommodation.

Base Camp Office Address:

M/S APCO Infartech Pvt. Ltd.
KM Stone -39, Sh-93, Village Kheriyajat Lakhanpur,
Post-Gorkan, Tehsil-Mohammadi,
Dist.-Lakhimpur Kheri

3.3.3.2 Human Resources

Contractor has mobilized Key Staff listed in table below;

Table- Key Personnel

Sl.	Designation	Name	Date of Joining
1	Project Manager	Mr. Sant Lal Maurya	01-04-2019
2	Land Surveyor	Mr. Narendra Yadav	20-04-2019
3	Mechanical Equipment Maintenance Engineer	Mr. Rami Reddy Lv Shiva	30-09-2019
4	Bridge Engineer	Mr. Shiv Shankar Kanoje	02-05-2019

Contractor in addition of Key personals has deployed some technical staff, non-technical staff and skilled workers available 70 Nos. at site. List of manpower and organisation chart is enclosed.

3.3.3.3 Plant and Machinery

Contractor has established following Construction Plants at Base Camp location Ch. 39+600 (LHS).

Table- Construction Plants

Sl. No.	Plant Mobilized	No.	Location	Make & Capacity
1	Batching Plants	01	Ch.39+600LHS	30Cum/Hr.
2	Wet Mix Plant	01	Ch.39+600 LHS	160 TPH
3	Hot Mix Plant	01	Ch.39+600 LHS	200 TPH
4	Crushers	-	Not Established	

List of Key Plant and equipment is enclosed, **Refer Annexure-B- Plant & Machinery Details.**

3.3.3.4 Material

Contractor procured materials like Cement, Steel, and Bitumen etc. from approved sources and aggregates from licensed private crushers. Shortfall of procurement of material recorded for this month. The List of material requirement and procured quantity is enclosed as **Annexure-C Material Procurement Statement.**

3.3.4 Work Progress

3.3.4.1 Structure Drawing Design Status

The List of drawings received and approved is enclosed as **Annexure-D Drawings Approval.**

3.3.4.2 Work Programme and EOT

Contractor's Work Programme Rev.-03 submitted vide letter No. APCO/WB-UPPWD/EGIS/ST/136 Dated 20.01.2020 and the same is reviewed and Approved by the Resident Engineer vide Letter No. Egis India/RE UPG-03/UPCRNDP/131/2019 Dated 24.01.2020.

UPG-03 Gola- Shahjahanpur SH-93	Up to End of Previous Month		This Month		Cumulative up to Date	
	Target	Achieved	Target	Achieved	Target	Achieved
Amount (in Cr.)	113.23	56.94	7.93	32.44	121.16	89.38
In % age	31.72	15.95	2.23	9.09	33.95	25.04

IEOT Claim submitted by the Contractor (APCO) for 162 days due to FME vide letter No. APCO /WB-UPCRNDP/ EGIS/ST/267 Dated 20th July 2020 and the same is evaluated and recommended to the Authority vide Egis letter No. Egis India/HO/UPCRNDP/62393/2020 Dated 06.08.2020 for One Hundred One (101) Days, including the 32 Days lost due to complete Lockdown, extending the original Contract Completion Date of 09th November 2021 in Schedule-J of the CA would be extended to 18th February 2022.

3.3.4.3 Financial Progress

Financial Progress achieved 25.04% up to end of August 2020.

3.3.4.4 Stage Payment Statement (Interim Payment Certificate)

The Contractor has submitted IPC-04 (SPS-03) for the Month of July and August 2020.

IPC No.	IPC for the month of	Send by the Engineer	Payment Date	Gross Amount w.r.t. Contract (INR)	Gross Amount including P.A (INR)	Net Amount (INR)	Remarks
IPC-1	Mobilization	03.12.19	11.12.19	35,69,00,000	35,69,00,000	34,97,62,000	Mobilization
IPC-2	Up to March-2020	20.03.20	30.03.20	36,08,47,913	36,81,38,192	32,76,42,990	Work done
IPC-03	Up To 30 th June 2020	16.07.2020	09.07.2020	20,86,49,854	24,85,68,803	22,12,26,235	With Release withheld amount
IPC-04	Up To 31 st August 2020	08.09.2020	-	32,44,37,745	32,44,37,745	28,87,49,593	Work Done

3.3.4.5 Physical Progress

A. Road Works: Progress of road works during the month is shown as below:

Highway Physical Progress in Linear Length									
Sl. No.	Description	Unit	Scope	Work Done up to Previous Month	Progress During the Month			Work Done up to Date	Progress w.r.t Scope Work
					Length Achieved				
				Average	LHS	RHS	Average	Average	In %
1	Subgrade Top	Km	57.535	31.72	3.00	3.40	3.20	34.92	60.69
2	GSB	Km	57.535	30.79	2.37	2.04	2.205	32.99	57.34
3	WMM Top	Km	57.535	13.05	4.58	4.33	4.45	17.50	30.42

4	DBM Top	Km	57.535	5.15	1.77	1.735	1.75	6.900	11.99
5	BC	Km	57.535	0.00	0.00	0.00	0.00	0.00	0.00

B. Structure Works: Progress of Structure Works during the month is shown as below:

Sl. No.	Type of Structure	Scope in Nos.	Completed Up to Previous Month	Completed During this month	Cumulative Completed	% Over All Progress
1	Major Bridge (Re-Construction)	1	0.11	0.04	0.15	15.00
2	Minor Bridges (Reconstruction)	4	0	0	0	0.00
3	Box Culverts (New/Re-Construction)	21	16	0	16	76.19
4	HP Culverts (New/Re-Construction)	17	16	0	16	94.12
5	MNB (Widening +Repairing)	3	0.5	0.3	0.8	26.67
6	Culverts (Widening+Repairing)	36	26	0	26	72.22
7	Repair of Structures	15	0	0.2	0.2	1.33
	Total	97	58.61	0.54	59.15	

Further progress details may be found in;

- Annexure - E, Chainage Wise & Physical Progress Details of Highway
- Annexure – F, Bar Chart of Physical Progress of Highway
- Annexure - G, Progress Strip Chart of Structure Bridges, HPC, Box and Slab Culvert
- Annexure - H, Cross Road Culverts (Drain)
- Annexure -I, S-Curve – Financial and Physical Progress
- Annexure- J, Logistic Plan

3.3.4.6 Quality Control / Quality Assurance

Field laboratory established at Base Camp Site. Details of Quality Control Tests and Source Approvals carried out are presented in **Annexure - K**,

3.3.4.7 Meetings & Site Inspections

Video Conferencing Meeting held on 10.08.2020 under the Chairmanship of Principle Secretary UPPWD, UP Govt. to discuss the progress of the project and issues at sites.

3.3.4.8 Key and Potential Issues

- Contractor has applied for Interim Extension of Time (IEOT) due to COVID-19 Force Majeure Event vide APCO Letter No. APCO/WB-UPPWD/EGIS/ST/267 Dated 20th July 2020 and the same was evaluated and applicable EOT recommended by Authority Engineer vide our letter No. Egis India/HO/UPCRNDP/62393/2020 Dated 06.08.2020.
- Contractor's Submitted Change of Scope vide letter No. APCO/WB-UPPWD/EGIS/ST/266 Dated 20.07.2020 and reviewed with comments by the Team Leader Letter No. Egis India//UPCRNDP /UPG-03/926/2020 Dated 24.07.2020.
- Structures: Revised Drawing submissions (Minor Bridge-02Nos., Slab Culvert – 01 Nos. and Box Culvert -01 Nos.) are pending from the Contractor's end.
- Drawing for the provisions of 3 – Wild Animal /Cattle Animal Underpass in the Reserve Forest Area Sections (Ch.12+000 to Ch.13+800 & Ch.14+680 to Ch.16+065) as demanded by DFO South Kheri – reviewed and commented by the PMC, revised drawing is awaited from the Contractor end.
- Contractor Submitted Revised Drawings and Estimate for CPR vide letter No. APCO/WB-UPPWD/EGIS/ST/271 Dated 01.08.2020. Drawings approved with comments by the Team Leader office Letter No. Egis India/LKO/UPCRNDP/2020/945 Dated 06.08.2020. Cost estimate is under review w.r.t “Tender Rate/ Rate Finalized by DM” as directed by the Authority.

3.3.4.9 Weather Report

Weather report for the reported period is shown in **Annexure-M**.

3.3.5 Photographs of Site Visits & Activities at Site:



DBM laying in progress at Chainage 14+400 RHS



DBM laying in progress at Chainage 14+600 RHS



Laying and Compacting of WMM Top Layer at
Chainage 24+600 RHS



FDD Checking of Sub-grade Top Ch.4+500 to 5+560
(RHS) and Ch 3+400 to 4+500 (RHS)

3.4 CONTRACT PACKAGE UPG-04

3.4.1 Introduction

Contract Package **UPG-04**, Engineering, Procurement and Construction Contract for Up-gradation (Widening/Strengthening) of Badaun-Bilsi-Bijnaour Section of SH-51 from Km.58+400 to Km.137+820, has been awarded to **M/s GAWAR Construction Ltd., Gurugram** through ICB Bidding norms for the up-gradation and Development. The Contract Agreement No.117/UPCRNDP/CEEAP/2019-20 was signed on 5th July 2019 and the EPC Contract Price is **Rs 334,00,00,080.00/-** (Rupees Three Hundred Thirty-Four Crores Eighty only).

This **Monthly Progress Report No. 10** covers Progress of August month of this Contract Package and summarizes the activities up to end of this month.

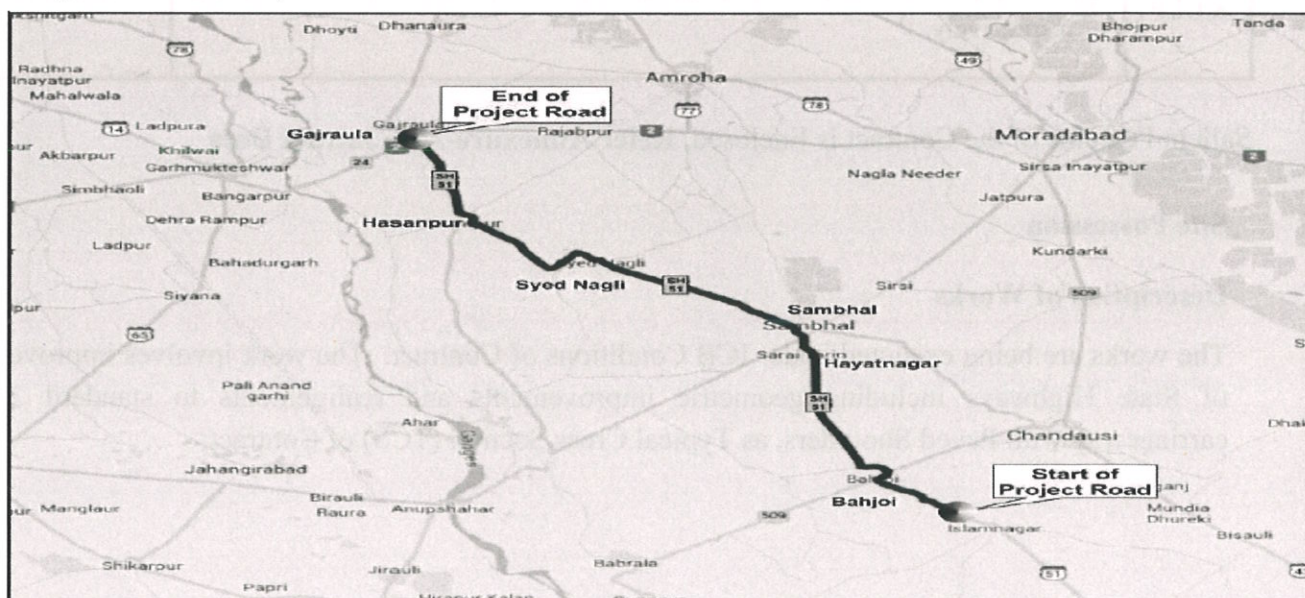
The Construction Supervision and contract administration of the contract procured under EPC Contract by the UPCRNDP-World Bank Division.

Sl. No.	Contract Package	Length (Km)	Completion Period (As per Contract)	Contract Agreement Date	Commencement Date (As per Contract)	Scheduled Completion Date (As per Contract)
1.	ICB No. UPCRNDP/UPG/04/2018 Badaun-Bilsi-Bijnaour Road (SH-51)	79.125	730 days	5 th July 2019	4 th November 2019	2 nd November 2021

The Cumulative Physical Progress achieved **29.71%** and Financial Progress **28.74%** up to July 2020.

The following sections of the report describe the project, Project background, Salient Features of civil works contracts and the Contractor's activities, the Consultant's activities, and issues that are being resolved.

Project Location Map



The project work includes the Up-gradation (Widening/Strengthening) of exiting carriageway as per contract specifications under EPC contract and the completed road works required the maintenance and Defect Liability Period (DLP) for 5 years after issuance of projects' Provisional Completion Certificate (PCC) as per Contract Condition.

The completion of EPC works has been divided in 4 milestones which are as follow;

Table- Milestones

Part-1 Mile Stone	Physical Works to be Completed as per Schedule-J	Period and Date of Completion			Status as on Date
		Period in Days	Start Date	Scheduled End Date	
M-1	Stage Payments Statements for an amount not less than 10% of the Contract Price.	150	04/11/2019	01/04/2020	Milestone-I achieved on 02.06.2020. Delayed due to pandemic COVID-19
M-2	Stage Payments Statements for an amount not less than 35% of the Contract Price.	330	04/11/2019	28/09/2020	In Progress
M-3	Stage Payments Statements for an amount not less than 70% of the Contract Price	510	04/11/2019	27/03/2021	Yet not started
M-4	Scheduled Completion of Project in all respect.	730	04/11/2019	02/11/2021	Yet not started
Maintenance & DLP	Routine maintenance of the Project road for a period of 5 years commencing from the date of Provisional Completion Certificate (PCC) as per Contract agreement (Sub-clause 14.1.1) of Article 14 and (Sub-clause 17.1.1) of Article 17 respectively.				Will Start after the date of PCC

Salient Features of the Contract is Enclosed, **Refer Annexure-A- Contract Data**

Site Possession

Description of Works

The works are being executed under ICB Conditions of Contract. The work involves improvement of State Highways including geometric improvements and realignments to standard 2-lane carriageway with Paved Shoulders, as Typical Cross Section (TCS) of Contract;

Table-Typical Cross Section

Application of Typical Road Cross Sections							
Cross Section Type	Application	Length (Km)	Width (m)				
			Carriageway	Paved Shoulder	Earthen Shoulder	Footpath cum Drain	Paver Block
TCS-1 A	Reconstruction + Widening in Rural Section	63.277	7	1.5	1	0	0
TCS-1 B	New Construction + Realignment	1.14	7	1.5	1	0	0
TCS-2	Reconstruction + Widening in Urban/Semi Urban Section	13.849	7	1.5	0	1.5	Varies
TCS-3	Reconstruction + Widening in Urban/Semi Urban Section	0.859	7.5x2	0	0	1.5	Varies
Total Project Length (Km)		79.125					

Mobilization of Consultant

The project is being executed and managed within the Contract Management Frame work (CMF) as described in the PMC Contract Agreement.

Staff Mobilisation

Mobilization of Resident Engineer's Office Staff for the Construction Supervision is below:

Table: Consultant Staff

Resident Engineer Office, Contract Package-04Badaun-Bilsi-Bijnaour			
Sl. No.	Position	Name	Date of Joining
Technical Staff			
1	Resident Engineer	Mr. Deepak Kumar	08.11.2019
2	Assistant Highway Engineer-1	Mr.Pramod Kumar Singh	02.08.2019
3	Assistant Highway Engineer-2	Mr. Suresh Chand	04.11.2019
4	Assistant Bridge Engineer	Mr. Amit Kumar	02.08.2019
5	Assistant Material Cum Quality Engineer-1	Mr. Abhay Kumar Giri	03.01.2020
6	Quantity Surveyor-1	Mr. Hunny Kumar	12.06.2019
7	Assistant Surveyor-1	Mr. Sachin Kumar	03.12.2019
8	Junior Construction Safety Expert	To be Appointed	
9	Junior Environment Specialist	Mr. Shiv Kumar	24.02.2020

Resident Engineer Office, Contract Package-04Badaun-Bilsi-Bijnaour			
Sl. No.	Position	Name	Date of Joining
10	Technician Filed-1	Mr. Rajeev Yadav	14.11.2019
11	Lab Technician-1	Mr. Krishna Kumar Keshri	13.11.2019
Administrative Support Staff			
12	Office Manager Cum Accountant	Mr. Sachin Soni	23.11.2019
13	Computer Operator/Office Assistant	-	-
14	Office Assistant	Mr. Nakul Singh	04.10.2019
15	Watchman	Mr. Amit Kumar	27.11.2019

Refer Figure-1- Consultant's Organization Chart

3.4.2 Construction Activities

3.4.2.1 Site Possession and Utilities

Client through the memorandum dated 04.11.2019 handed over to the Contractor more than 90% un-encumbered land and issued the Appointed Date as 04 Nov 2019 for the procurement of design team, commencement of initial investigation, survey, design and drawings of works and execution of up-gradation and construction works.

Details will be presented in enclosed Format, **Refer Annexure-B- Encumbrance List**

3.4.3 Mobilization of Contractor

3.4.3.1 Base Camp Establishment

Contractor has established the Base Camp Office at Ch.102+200LHS, Village-Dehpa along with Central Laboratory, Construction plants, Mechanical Work Shop and Workers Accommodation.

Base Camp Office Address:

GAWAR Construction Ltd.
 Village-Dehpa, P.O Dehpa
 The & Dist-Shambhal
 (UP)-244302

3.4.3.2 Human Resources

Th Contractor has mobilised key staff is listed in table below;

Table-Key Personnel

Sl.	Designation	Name	Remarks
1	Sr. Project Manager	Mr. Vivek Sharma	
2	Project Manager	Mr. Mukesh Kumar	
3	Dy. Project Manager	Mr. Bunt Shaw	

4	Highway Engineer	Mr. Mangat Ram	
5	Material Engineer	Mr.Kehari Singh	
6	Quantity Surveyor	Mr. Arvinder Kumar	
7	Land Surveyor	Mr. Manjeet Singh	
8	Mechanical Equipment Maintenance Engineer	To be Appointed	
9	Environmental cum Road Safety Manager	Mr. Kuldeep Tomar	
10	Bridge Engineer	Mr. Farhan Baqi	

Contractor in addition of Key personnel has deployed some technical staff, non-technical staff and skilled workers at site. List of manpower and organisation chart is enclosed. **Refer Figure-2-Organization Chart Along with Contractor's Staff List.**

3.4.3.3 Plant and Machinery

Contractor has established following Construction Plants at Base Camp Location Ch. 102+200 (LHS) & Concrete Batching Plant @ Ch.95+740 RHS.

Table- Construction Plants

Sl. No.	Plants Mobilized	No.	Location	Make & Capacity	Date of Commissioning
1	Batching Plants	01	Ch.95+740 RHS	Akona CP-30	Oct-19
2	Wet Mix Plant	01	Ch.102+200 LHS	Apollo100 TPH	Jan-20
3	Hot Mix Plant	01	Ch.102+200 LHS	Apollo 200 TPH	Feb-20
4	Crushers	00	Not Established	-	Procuring from Pvt. Crusher

List of Key Plant and equipment is enclosed, **Refer Annexure-C- Plant & Machinery Details.**

3.4.3.4 Material

Contractor procured materials like Cement, Steel, and Bitumen etc. from approved sources and aggregates from licensed private crushers. Shortfall of procurement of material recorded for this month. The List of material requirement and procured quantity is enclosed as in **Annexure-D Material Procurement Statement**

3.4.4 Work Progress

3.4.4.1 Design and Drawings

The List of drawings received and approved is enclosed as **Annexure-E Drawings Approval.**

3.4.4.2 Work Programme & EOT

IEOT Claim submitted by the Contractor (GAWAR) for 115 days due to FME vide letter No. GCL/Camp/SH-51/BBB/2020/266 Dated 05.08.2020 and the same is evaluated and recommended to the Authority vide Egis letter No. Egis India/HO/UPCRNDP/UPG-04/62804/2020 Dated 31.08.2020 for Sixty Nine (69) Days, including the 45 Days lost due to complete Lockdown, extending the original Contract Completion Date of 02nd November 2021 in Schedule-J of the CA would be extended to 10th January 2022.

3.4.4.3 Financial Progress

Considering the Contract Awarded Cost of 334 Crores, Progress up to 31th July 2020 is as follows;

UPG-04 Badaun-Bilsi- Bijnaour	Up to End of Previous Month		This Month		Cumulative up to Date	
	Target	Achieved	Target	Achieved	Target	Achieved
Amount (in Cr.)	135.45	74.41	9.18	21.62	144.63	96.03
In % age	40.54%	22.27%	2.74%	6.47%	43.29%	28.74%

Note: - Financial Progress up to 31st August 2020 is 28.74%

3.4.4.4 Stage Payment Statement (Interim Payment Certificate)

The Contractor has started the work from the Appointed Date i.e. 4th November 2019. Contractor has submitted the SPS-03/IPC-04 for the month of June-2020.

IPC No.	IPC for the month of	Recommended by the Engineer	Payment Date	Gross Amount (INR)	Gross Amount including P.A (INR)	Net Amount (INR)	Remarks
IPC-1	Mobilization	26.11.19	08.12.19	33,40,00,000	33,40,00,000	32,73,20,008	Mobilization
IPC-2	Up to Jan 2020 (75% Part Payment)	10.02.20	17.02.20	7,67,36,583	7,67,36,583	4,95,39,419	Work done
IPC-3	Up to Jan 2020 (25% Part Payment)	20.02.20	27.02.20	-	-	1,65,13,138	Work done
IPC-4	Up to 9.03.2020	21.03.20	21.03.20	14,66,86,595	14,66,86,595	12,55,28,582	Work done
IPC-5	Up to 30.06.2020	09.07.20		28,74,28,280	28,74,28,280	25,58,11,169	Work done
IPC-6	Up to 31.07.2020	11.08.20		23,32,88,164	23,32,88,164	20,27,39,647	Work done
Cumulative Amount Up to date (In Rs.)				107,81,39,622	107,81,39,622	97,74,51,963	

3.4.4.5 Physical Progress

A. Road Works: Progress of road works during the month is shown as below:

Highway Physical Progress in Linear Length									
Sl.	Description	Unit	Scope	Work Done up to Previous Month	Progress During the Month			Work Done up to Date	Progress w.r.t Scope Work
					Length Achieved				
				Average	LHS	RHS	Average	Average	In %
1	Subgrade Top	Km	79.125	33.384	5.600	5.600	5.600	38.984	49.26%
2	GSB	Km	79.125	32.484	6.000	5.450	5.725	38.290	48.39%
3	WMM Top	Km	79.125	22.57	7.714	7.404	7.559	30.129	38.07%
4	DBM	Km	79.125	20.23	8.754	8.994	8.874	29.109	36.78%
5	BC	Km	79.125	0.00	0.00	0.00	0.00	0.00	0.00%

B. Structure Works: Progress of Structure works during the month is shown as below

Sl. No.	Type of Structure	Scope in Nos.	Completed Up to Previous Month	Completed During this month	Cumulative Completed	% Over All Progress
1	Minor Bridges (Reconstruction)	2	0	0	0	0.00
2	Box Culverts (New/Re-Construction)	11	7	0	7	63.64
3	HP Culverts (New/Re-Construction)	69	38	8	46	66.67
4	Slab Culvert (Re-Construction)	6	1	0	1	16.67
5	MNB (Widening+Repairing)	1	0	0	0	0.00
6	Culverts (Widening+Repairing)	19	3	0	3	15.79
7	Repair of Structures	4	0	0	0	0.00
	Total	112	49	8	57	

Further Progress Details May Be Found in;

- **Annexure - F, Chainage Wise& Physical Progress Details of Highway**
- **Annexure – G, Bar Chart of Physical Progress of Highway**
- **Annexure - H, Progress Strip Chart of Structure Bridges, HPC, Box and Slab Culvert**
- **Annexure - I, Cross Road Culverts(Drain)**
- **Annexure -J, S-Curve – Financial and Physical Progress**
- **Annexure- K, Logistic Plan**

3.4.4.6 Quality Control / Quality Assurance

Field laboratory established at Base Camp Site. Details of Quality Control Tests and Source Approvals are presented in **Annexure – L**.

3.4.4.7 Meetings & Site Inspections: -

- Video Conferencing Meeting held on 10.08.2020 under the Chairmanship of Principle Secretary UPPWD, UP Govt. to discuss the progress of the project and issues at sites.
- Site Visit by the UPPWD's Environmental Expert and Social Expert carried out from 26th to 28th August 2020 for Badaun-Bilsa-Bijnaour Road Project to review the status of Environmental Safeguards Implementation and Management as well as R&R Status of the Project. PMC's Social Development Specialist and Environment Specialist accompanied during the visit. PMC's Social Development Specialist was mobilized for attending site visit for the period from 25 to 29 August 2020 and the same informed to UPPWD vide letter No. Egis India/LKO/UPCRNDP/2020/962 Dated 25.08.2020.

3.4.4.8 Key Issues

- (i) Contractor has applied for Extension of Time in accordance with CA Article 21 and Article 10 due to the Force Majeure Event caused by the COVID-19 Pandemic which was evaluated and recommended to the Authority.
- (ii) Contractor to submit a revised Work Program Plan along with S curve for completion of all works.
- (iii) The suspension of project works due to nationwide Lockdown to contain COVID-19 virus further escalated to non-achievement of scheduled Milestone-1 as on 1st April 2020. However the Contractor achieved Milestone-1 within the 30 days period, in accordance with the provisions of Contract.
- (iv) Maintenance of Existing Carriageway and dust control by frequent spraying of water
- (v) Borrow Area Rehabilitation to be expedite and NOC to be obtained from land owners.

3.4.4.9 Weather

Weather Report for the reported period is shown in **Annexure-N**.

3.4.5 Photographs



Reinforcement Checking of Raft for Box Culvert
at Ch.91+192 (LHS)



WMM Top Laying & Rolling in Progress
at Ch. 127+300 to 128+000 (LHS)



DBM Grade-II GMM Test @ Central Laboratory@
Base Camp 102+200 LHS



Bitumen Extraction Test @ Central Laboratory@ Base
Camp 102+200 LHS

CHAPTER-4 ENVIRONMENT, SOCIAL, HEALTH AND SAFETY

4. Environment, Social, Health and Safety

4.1. Introduction

The Environment, Social, Health and Safety (ESHS) Chapter form the part of Project Management Consultant's (PMC) i.e. **M/s Egis India Consulting Engineers Private Limited**, Monthly Progress Report (MPR) for Phase-I roads of **Uttar Pradesh Core Road Network Development Program (UPCRNDP)**. The UPCRNDP came into existence at the initiative of the **Public Works Department (UP-PWD)** of the Government of Uttar Pradesh with objective to improve the transport network system of most prioritized road in two Phases. Under Phase-I the Four Roads were identified for development with Financial Assistance from the **World Bank, International Bank for Reconstruction and Development (IBRD)**. Out of four Civil Contract Packages one package have been selected under Item Rate Contract and others are under EPC modality contract packages:

- | | | | |
|---------------------------------|-------|----------|--------------------|
| 1. UPG-01 (Hamirpur-Rath) | SH-42 | 72.785km | EPC Contract |
| 2. UPG-02 (Garautha-Chirgaon) | SH-42 | 49.145km | Item Rate Contract |
| 3. UPG-03 (Gola-Shajahanpur) | SH-93 | 57.535km | EPC Contract |
| 4. UPG-04 (Badaun-Bilsi-Bijour) | SH-51 | 79.125km | EPC Contract |

This Environment-Social-Health-Safety Chapter is for all the Four Contract Packages. It has been prepared to ensure that the EMP implementation is being carried out by the Item Rate and EPC Contractors, in accordance with the Project requirements.

To achieve the required environmental management standards, the Contractor of each project has been prepared the Environment and Social Management Plan (ESMP) which are approved by the Authority Engineer (AE)/ Construction Supervision Consultant (CSC) in accordance with the proposed mitigation measures recommended by the Project Management Consultant (PMC).

Our Environmental, Social, Health and safety monitoring report for UPCRNDP sites pertained with checking of generic Environmental Management Action Plan (EMAP) issues to ascertain the mitigation measures are achieving their objectives according to the progress of the works or the Contractor's project management to keep the EMAP programme for achieving the expected outcomes.

4.2. ESHS Issues Concerned and Corrective Actions Taken

The Issues as noticed and conveyed to the Contractors during this month by the Authority Engineer are as below:

a. ESHS Safeguards – Consents/ Permits:

At each UPCRNDP project site since inception of the Project the Contractors have been taken all reasonable steps to obtain all necessary permits related to their Construction

activities to comply with all Applicable Laws and Applicable Permits in the performance of their obligations of Contract Agreement.

- **Statutory Compliance** - Necessary permits for project establishment, procurement of construction materials and operations of Construction plants are being obtained prior to commencement of respective work activities. Brief Status of permits for Plants is depicted below in **Table-A**.

TABLE-A: UP-SPCB Clearance						
Package	Status of Permission HMP and CBMP Plants					
	HMP – CTO			CBMP – CTO		
	Capacity	Approval	Validity	Capacity	Approval	Validity
UPG-01	160TPH	16-01-20	31-07-22	30Cum	16-01-20	31-07-22
				90Cum	Applied For	NA
UPG-02	140TPH	01-08-19	31-07-20	30Cum	01-08-19	31-07-20
UPG-03	200TPH	15-01-20	31-12-20	60Cum	15-01-20	31-12-20
UPG-04	160TPH	27-02-20	31-07-22	30Cum	27-02-20	31-07-22
Package	Status of Permission WMM and CRUSHER Plants					
	WMM – CTO			CRUSHER – CTO		
	Capacity	Approval	Validity	Capacity	Approval	Validity
UPG-01	160TPH	Applied For	NA	NA	NA	NA
	200TPH	Under Process	NA			
UPG-02	200TPH	01-08-19	31-07-20	NA	NA	NA
UPG-03	160TPH	15-01-20	31-12-20	NA	NA	NA
UPG-04	100TPH	27-02-20	31-07-22	NA	NA	NA

Note: **UPG-01**- UPPCB permissions for additional CBMP (90cum) at Ch.14+200 RHS and WMM Plant at 29+400 RHS (200-TPH) & 57+000 LHS (160-TPH) is under process; **UPG-02**- during July Contractor has demobilized all Construction Plants from site, however Contractor is identifying another source (Plants) to complete the Punch List works and balance works in proposed Extended Period of Time (EOT) and O&M period. **UPG-03** – CTO granted for all established plants; **UPG-04**- CTO granted for all established plants. Further, Client has instructed to PMC to withhold 2% of Amount equivalent to ESHS performance security from the Contractor's Bill for Non-Conformance of Contract ESHS - Provisions.

- **Essential Project Insurances** - Workers Insurances and Third Party Liability insurances are procured by all the Contractors. Brief Status of essential Insurances is depicted below in **Table-B**.

Table-B: Status of Insurance Coverage						
Package	Employees Compensation (WC) Policy		Contractor's All Risk (CAR) Policy.		Public (3rd Party) Liability Insurance	
	Insurer	Valid	Insurer	Valid	Insurer	Valid
UPG-01	IFFCO-TOKIO GENERAL INSURANCE CO.LTD	31.07.2021	IFFCO-TOKIO GENERAL INSURANCE CO.LTD	31.07.2021	IFFCO-TOKIO GENERAL INSURANCE CO.LTD/32123941	31.07.2021

UPG-02	LIBERTY GENERAL INSURANCE LTD.	19-02-21	The New India Insurance Co. Ltd.	01-08-21	The New India Insurance Co. Ltd.	01-08-21
UPG-03	FUTURE GENERAL INDIA INSURANCE COMPANY LIMITED	03-04-21	The New India Insurance Co. Ltd.	10-05-26	The New India Insurance Co. Ltd.	10-11-26
UPG-04	LIBERTY GENERAL INSURANCE LTD.	18-11-20	ICICI Lombard General Insurance Company Ltd.	03-11-21	ICICI Lombard General Insurance Company Ltd.	03-11-21

- **Aggregate Procurement:** All the Contractors are procuring the sized aggregate materials from Government's Approved sources with the payment of applicable Royalty. The payment of Royalty is being verified by the Client from concerned District Mining Department as per U.P. State Govt. Order No. 115(1)/86-2020 dated 15th January, 2020 to ensure the materials are procured from authentic source with applicable requisite compliances.
- **SEIAA Permit for Borrow Area Operation:** exempted by both MoEFCC and State Govt. for the Extraction or sourcing or borrowing of ordinary earth for the linear projects such as roads, pipelines etc. Brief status of Borrow Pits shown in **Table-C** below:

Table-C: Summary of the Selected Borrow Areas of the Contractors w.r.t EMAP.								
Contract Package	Total No. of Borrow Areas Identified	No. of Borrow Areas approved w.r.t. EMP	No. of Borrow Areas				Rehabilitated	Balance for Rehabilitation
			Exhausted	Ongoing	Yet to be started	Qty. still Balance for use		
UPG-01	28	26	08	8	2	8	NIL	08
UPG-02	47	38	38	0	0	0	38	NIL
UPG-03	31	27	17	4	5	1	NIL	17
UPG-04	29	24	09	2	3	5	NIL	09
Total	135	115	72	14	10	14	38	34

Note: UPG-2 Contractor has submitted the NOC for all the exhausted borrow pits. EPC contractors have been advised to start the Redevelopment works.

b. Unresolved Issues Continued from Previous Months:

During this reporting month the Contract ESHS issues has been noticed and communicated to the Contractor's for the Compliances. In some of the packages due to absence of designated Environment (EHS) officer the short comings are continuing.

Field assessment and pending issues continue from previous months:

- a) **ESHS Cell/ Staff:** This issue is resolved at all Contract packages.

UPG-01 Mr. Vishnu Prajapati the Safety officer enhanced his knowledge on Environmental Management through online course. His CV has been reviewed and provisionally approved by AE for a period of 3 months (Nov-2020); **UPG-02** – major project works are finished – Contractor demobilized his EHS Staff; **UPG-03** replacement of Environment Officer by the new person Mr. Ashok Kumar in June-2020. **UPG-04** Environment officer Mr. Kuldeep Tomar has been appointed on 21st August, 2020.

Table-D: ENVIRONMENT MANAGEMENT SYSTEM CELL					
ORGANISATION		UPG-01	UPG-03	UPG-04	UPG-02
(i)	Environment Cell (Employer)	MR. MUNNI LAL VERMA (Environment & Social Specialist - Executive Engineer; Mob.No.+91 9450577618) Dr. SEEMA SRIVASTAVA (Independent Consultant - Environment; Mob. No.+91 8887896070) Mr. P.N.ROY (Independent Consultant - Social; Mob. No.+91 8887896070)			
(ii)	Supervision Consultant (PMC/AE) at Team Leader Office	Mr. DEVBRAT SINGH (Environment Specialist - Mobilized on 13th April 2019; Mobile No.+91 9900034246; Mail ID: devbrat.s@egis-india.com)			
(iii)	Jr. Environment Specialist (AE) at Resident Engineer Office	Mr. Adish Jain (Appointed-expected to Join in Sept-20;	Miss Archana Gupta; Mob. No. +91 7838379982 (From 22-06-2020)	Mr. Shiv Kumar Pipal; Mob. No. +91 7827742923 (From 24-02-2020)	Mr. Karamveer Rana; (Resigned (Oct-19)/ Demobilized)
(iv)	Contractor's ESHS Officer:	Mr. Vishnu Prajapati; Mob.7040922635 (EMS Qualification Enhanced) (From 02-09-2020)	Mr. Ashok Kumar; Mob.7081205007 Appointed as EHS Officer (From 18-06-2020).	Mr. Kuldeep Tomar; Mob. 9808917265 (approved as ESHS Officer) (From 21st August 2020)	Mr. Vijay Singh Rajput; Mob. 8077181209 (Demobilized in July-2020)

- b) **Fly Ash:** **UPG-01** no provisions for use of fly ash. **UPG-02** fly has been utilized at site in specified confined area, procured from Pariccha TPP. **UPG-03** ROSA nearest TPP has no surplus materials to supply; hence use of fly ash is impossible. **UPG-04** methodology and source approval plan for Utilization of Fly Ash is still awaited from the Contractor. Contractor has requested to Client, PWD, Moradabad for necessary assistance for supplying Fly Ash from nearest TPP (Dadri / Harduaganj).

Package	Table-E: Status of Fly Ash utilization			
	Estimated Qty.		Contractor's Progress Status	
	Qty. (Cum)	Identified Nearest Source	Used Qty. (Cum)	Remarks
UPG-01	0	NA	NA	NA
UPG-02	19000	Panki-Kanpur Thermal Power Plant	17367	Closed - NO Further scope to use Fly Ash

UPG-03	24180	Reliance ROSA Thermal Power Plant	NA	NO Surplus Fly Ash available
UPG-04	12860	NTPC-Dadari; UPRVUNL-Harduananj;	0	Contractor has approached to TPP through the Client.
Total	56040		17367	38673

- c) **Community Property Resources (CPRs)**- Proposed and affected CPR structures are jointly verified by Client/AE & Contractor; **UPG-01**- In CA-20 structure was listed, at site 26 religious structures are identified; on Contractor's request drawings for 12 affected structures are approved as 1st priority; Construction works are yet to be started. **UPG-02**- 4 structures were identified of which 2 are completed (Temple at Ch.118+600 village Garautha & Well at Ch.123+000 village Shila); **UPG-03**- In CA 9 CPR structures are listed; total 17 structures are identified for relocation. All Design-drawing and construction plan with minor corrections are approved for relocation. **UPG-04**- joint field verification has been completed in the month of August-2020. Design-drawing and work proposal are awaited from the Contractor.

Package	Table-F: Status of CPRs Structures in Numbers						
	CPRs to be Relocated		CPRs Relocation Sites Finalization & Progress				
	As per CA	As per Site	Site Finalized	Drawing Finalized	Completed	In progress	Balance
UPG-01	20	26	24	12	00	00	26
UPG-02	00	04	02	02	02	00	02
UPG-03	09	17	17	17	00	01	16
UPG-04	20	20	NA	NA	NA	NA	NA
Total	49	47	40	28	02	00	45

- d) **Environmental Enhancement: UPG-01** Environment Enhancement sites are verified – Contractor's proposal is awaited. **UPG-02** both environmental enhancement site work is completed. **UPG-03 and UPG-04** Joint inspection & public consultation done in August-20, work plan and drawing is awaited from the Contractors.

Package	Table-G: Status of Environmental Enhancement in Numbers						
	Nos.	Chainage	side	Existing Structure	Trees with Guard	Bench	Bathing Ghats
UPG-01	3	5+300	LHS	Temple	10	NIL	NIL
		5+800	RHS	Pond	15	NIL	NIL
		7+700	RHS	Temple	25	4	NIL
UPG-02	2	123+000	LHS	Temple	3	4	NIL
		165+000	LHS	Temple	4	4	NIL
UPG-03	3	9+300	RHS	School	16	NIL	NIL
		28+000	LHS	Pond	NIL	4	1
		58+000	LHS	School	15	NIL	NIL
UPG-04	2	61+500	LHS	Pond	NIL	5	1
		103+300	LHS	Temple	NIL	4	NIL
Total	10	0	0	0	88	25	2

c. Other Construction Work Sites Related Issues:

- i. **UPG-02:** project works almost completed; approaching to Final Completion. Action Plan for EMP closure from the Contractor is pending; Plan required by CSC team for monitoring the Contractor's Closure activities.
- ii. **UPG-03:** DFO South Kheri demanded the provisions of 3 – Wild Animal /Cattle Animal Underpass in the Reserve Forest Area Sections (Ch.12+000 to Ch.13+800 & Ch.14+680 to Ch.16+065); Contractor's submitted Drawings are reviewed with comments by AE's; Revised Drawing is pending from Contractor.
- iii. **Redevelopment of Exhausted Borrow Area: UPG-02** Redevelopment works are completed and Completion NOC obtained from respective land owners. **EPC Contractors** has been advised to expedite the works for redevelopment of exhausted borrow area.
- iv. **Removal of Construction Waste/ unserviceable Materials: UPG-02** Removal of waste materials from site is completed; at Contractor's base camp restoration work is under progress. **UPG-03** Two waste disposal sites are identified, disposal work to be started. **UPG-01 and UPG-04** the removal and safe disposal of unserviceable materials is to be plan.

4.3. ESMP/ESIP - Rating to the Contractor on Field Assessment:

All Contractors are following the Environment and Social Implementation Plan (ESIP) to protect the surrounding environment at both on site and off site to limit and minimize the damages from pollution and other results of his construction operations.

Table-H: The Performance of Contractors in this month					
Package	Contractor	E&S	OHS	Total - ESHS Performance	Ranking
UPG-01	M/s GHV (India) Pvt. Ltd.	2.5	4.5	7.0	4
UPG-02	M/s NKC Projects Pvt. Ltd.	9.0	8.0	17.0	1
UPG-03	M/s APCO Infratech Pvt. Ltd.	7.0	7.0	14.0	2
UPG-04	M/s GAWAR Construction Ltd.	4.5	5.5	10.0	3
Total		23	25	48	
Abbreviation:	E&S: Environment and Social; OHS: Occupational Health and Construction Safety				

Note: The above numbers have been marked out of 10 for each activity based on input from our Key Staff.

4.4. Construction Stage Monitoring

The Authority Engineers' Field Staff and Team Leaders' Office Staff along with Contractor Representatives carried out intensive site inspections of each environment, social, health and safety concerned sites of the Contract Packages. During the Construction Stage the Supervision Consultant (CSC) team, monitoring the physical, biological and social components of various EMP attributes at suggested critical locations of Performance Indicators for better understanding of effectiveness of EMP mitigation action plan at each project site.

- ❖ **Construction Site Management**
 - ❖ Dust Control Measures
 - ❖ Soil Erosion and Embankment & Slope Protection
 - ❖ Top Soil Management
 - ❖ Debris / Unserviceable Disposal
 - ❖ Disposal of Scarified Waste Materials
 - ❖ Borrow Area Redevelopment
- ❖ **Construction Plant Site Management**
 - ❖ Pollution Control Measures
 - ❖ Hazardous Waste Management
 - ❖ Plant Area Safety Arrangements
- ❖ **Construction Base Camp Management**
 - ❖ Pollution Health & Hygiene Monitoring

Table-I: Compliance Status of Environmental Safeguard and Safety Issues during Construction Activities - UPCRNDP-Phase-I Roads Development:

Issues	Site Activity & Chainage (Km)	Observation	Proposed Corrective Action
Construction Site			
Soil Erosion	UPG-01: Ch.59+730	Bridge approaches have high embankment- C&G done, earth work yet not started. The bushes are cleaned to do survey for commencement of Retaining wall.	Maintenance of Shoulder and patches appeared on existing C/W.
	UPG-02: Along the C/W and Betwa River Bridge	Embankment & Rain Cutes as came out in monsoon are being repaired and bushes from edge of C/W - cutting is in progress; Stone Pitching yet not taken up to restore the protection.	Grass Turfing on emb. of entire project length and Stone Pitching at Betwa River Bridge to be started.
	UPG-03: Retaining wall	Embankment & back filling along the Deep excavation for Retaining wall is about to complete to further start the widening of C/W.	Task Force Team formed – Maintenance work is in progress during monsoon; regular maintenance of existing road emb., shall be carried out.
	UPG-04:	On both end of Bridge approaches (appr. Ch.120+468 & 130+020) the shoulders are damaged. Shoulder maintenance started with existing roadway excavated materials.	Shoulder filling and maintenance is required up to existing road level with proper slopes.
Top Soil Management	All EPC Contract Packages	Carried out at Borrow area; Except UPG-03 - No Disposal Site or stock yard identified for Top Soil as obtained from site from C&G. All materials are	Disposal sites to be identified for surplus unusable materials by UPG-01 & UPG-04.

Table-I: Compliance Status of Environmental Safeguard and Safety Issues during Construction Activities - UPCRNDP-Phase-I Roads Development:

Issues	Site Activity & Chainage (Km)	Observation	Proposed Corrective Action
		preserved within ROW.	
Dust Pollution	UPG-01: Ch.5+800 to Ch.57+500	Dust Suppression – No Major issue noticed due to rain and implementation of regular water sprinkling.	Shall be Continued
	UPG-02: NIL	NIL – NA (Project work completed)	NIL – NA (Project work Finished)
	UPG-03: Ch.16+000 to 50+000	Little Improvement in Dust Suppression management;	Further Improvement in water sprinkling arrangement required.
	UPG-04: Ch.92+000 to Ch.132+000	Traffic allowed on WMM , dust emission noticed;	Further Improvement in water sprinkling arrangement required and frequency to be increased.
Borrow Area Redevelopment (Specification Sub Clause 111.2 and 302.5.5)	UPG-01	No Borrow area identified in this Month.	Redevelopment should start for exhausted BA.
	UPG-02: Item Rate Contract Package	No Borrow area identified in this Month.	Documents to be submitted by Contractor to PMC.
	UPG-03	No Borrow area identified in this Month.	Redevelopment should start for exhausted BA.
	UPG-04	No Borrow area identified in this Month.	Redevelopment should start for exhausted BA.
Debris/ Unserviceable Material Disposal	UPG-02: Item Rate Contract Package	Unserviceable materials are disposed into disposal site. Final Closure of disposal site completed; As the Base Camp is in demobilization Phase.	Satisfactory Consent from land owner to be obtained & Submit to PMC for verification and final closure.
	All EPC Contract Packages	UPG-03- Disposal site identified. UPG-01 & UPG-04 – Disposal site yet not identified and finalized.	UPG-03-disposal of materials to be started into approved disposal site. UPG-01 & UPG-04 immediately waste disposal to be explore.
Scarified Bitumen Disposal	UPG-02: Disposed	Disposal sites are closed; closure NOC Received from the owner, submitting to PMC is in process.	Immediate Compliance Required
	EPC Contract Scarification / milling materials are stock piling in Camp area	UPG-01 Disposal sites yet not identified; UPG-03 & UPG-04: Contractor has planned to reuse materials as (Reclaimed Asphalt Pavement-RAP).	UPG-01 Disposal and reused quantity at site to be recorded.
Pollution Monitoring	Pollution has been conducted in all contract packages.	Air, water, Noise and Soil Monitoring completed between last week of June to 1 st week of July in all Contract Packages for 2 nd Quarter of 2020;	Except package-4; Test reports are reported within permissible limit by the Monitoring Agency. Necessary Instruction given to UPG-04 to enhance the mitigation measures.

Table-I: Compliance Status of Environmental Safeguard and Safety Issues during Construction Activities - UPCRNDP-Phase-I Roads Development:

Issues	Site Activity & Chainage (Km)	Observation	Proposed Corrective Action
Construction Plant Site			
Dust Pollution Control Measures	Plant Site - Quarry & Crusher Operation – Materials borrowed from licensed Quarry Plant operation and Road work	At all EPC Contract Package Dust Control equipment fitted with plants– found satisfactory	-
Hazardous Material Management		All the EPC Contractors: 1. Discharge of used batteries – Handed over to the vendor 2. Spilled or leaked out fuel disposal – Avoided 3. Reuse of Bitumen Materials - Being used for Approach roads	Proper maintenance of waste generated, reuse and disposed records shall be maintained.
Fire & Electrical Safety		All the EPC Contractors: Fire Extinguisher – Provided Sand Bucket – Provided Electrical Safety - Complied PPEs for Workers – Not fully Complied	EPC Contract Sites: To provide Rubber Mat or Shoe / Slippers at the DG set Area and to enforce the usage of the same. Proper
First Aid Facility		Provided by All EPC Contractors	Provision of First Aid materials to maintained as per specification.
PUC Certificate Vehicles		UPG-01 & UPG-04 -No proper maintenance of records at Base Camp; UPG-03 – record is being maintained.	To maintain records properly and to obtain for renewal of PUC Certificates.
Base Camp			
Pollution, Health & Hygiene	Haulage access road	UPG-01, UPG-02, UPG-03: Haulage road build with milled scarified materials; UPG-04: Dirt Haulage road	Found satisfactory
	Storage Activity	UPG-01 & UPG-03: Satisfactory; UPG-04: Improvement required	UPG-04- proper segregation & stocking procedure to be followed.
	House Keeping	Aesthetics & Hygiene – Moderate Satisfactory in UPG-01; UPG-03 - Satisfactory; In UPG-04: Poor Arrangement	To maintain proper house keeping with special attention to Health and Safety, in accordance with Contract EMP
	Storage of Oil Barrels	Leakage & Spillage of Oil	To avoid leakage & Spillage by providing Sand / Saw dust bed beneath the barrels
	Workshop Activities	Leakage & Spillage of Oil	To provide Oil Interceptors as per EMP Specification or to provide Trays to collect spilling oil and

Table-I: Compliance Status of Environmental Safeguard and Safety Issues during Construction Activities - UPCRNDP-Phase-I Roads Development:

Issues	Site Activity & Chainage (Km)	Observation	Proposed Corrective Action
			to dispose suitably.
	Sanitation Facility & Hygiene	UPG-01-Found Satisfactory at Base Camp, Poor at Ch.14+200; UPG-03: Found Satisfactory; UPG-04: Moderate Satisfactory –Toilets un-hygienic; Soak pit & waste disposal Plan to be recheck.	Regular cleaning of toilets and camp/ mess area required to maintain hygienic condition.
	Solid Waste Disposal	UPG-02 completed- Final Closure plan for solid waste awaited; Except UPG-03 No Solid Waste Management – received from EPC Contractor	Solid Waste Management to be carried out at site
	DG Operation	At all EPC Package: Electrical Safety – Complied Proper PPEs for Workers – Missing in UPG-04;	To provide Rubber Mat or Shoe / Slippers at the DG set Area and to enforce the usage of the same.
	Laboratory, Transportation, Storage & Kitchen Activity	UPG-01 & UPG-04: Fire Safety – to be improve Fire Extinguisher – Not complied Sand Bucket – Lacking UPG-03: Found Satisfactory	To provide Fire Extinguisher and Sand Bucket at the Base Camp
	Health Checkup & HIV / AIDS - Health Awareness program	UPG-01, UPG-02 & UPG-03: Organized by the Project NGO in all Contract Packages; UPG-04 (Conducted Awareness in June)	Health Checkup and HIV / AIDS Awareness for current quarter may be organized, if MoHFW.

4.5. Construction Safety Monitoring and Compliance Report

UPG-01 safety arrangements are improved from unsatisfactory to moderate satisfactory, as the Contractor has attended all Temporary Diversions between Ch.19+000 to Ch.60+000 with provisions of Hard Barricading along the deep excavations especially at Culverts work site; Safety Ribbons & guided safe access to villagers along the drain work sites; still safety improvement required between Ch.3+000 to 19+000.

UPG-02 major project works are completed; at present 2 work-zones where safety arrangements provided by the Contractor traffic; Maintenance and repairing works at Betwa Bridge Ch.159+200 with provisions of Movable Signs while working Crash Barrier; At village Sultanpura Ch.166+800 for the balance section of widening of MCW required safety arrangements & traffic control measures provided.

UPG-03 safety arrangements are satisfactory however regular monitoring and maintenance of provided safety arrangements is required.

UPG-04 especially at temporary diversions, immediate attention is required for improvement with provisions of delineators, advance warning, hard barricading and cautionary – in this regard necessary instructions issued by AE.

4.6. Social Monitoring and Compliance Report

The Social impacts of UPCRNDP Phase-I a road are being monitored and supervise by the Authority Engineer. The Social compliances report will be updated and presented in our Quarterly Progress Report.

- Table – A Status of Land Acquisition
- Table – B Status of Micro Plan
- Table – C Status of Ownership
- Table – D Status of Disbursement of NTH & R&R
- Table – E Status of Identity Card

4.7. ESHS Compliances Photographs



UPG-01: Thermal Scanning in Camp at Ch.57+100



UPG-01: Safety Training at work Site



UPG-02: Waste Material used on Purenिया village road at Ch. 138+300



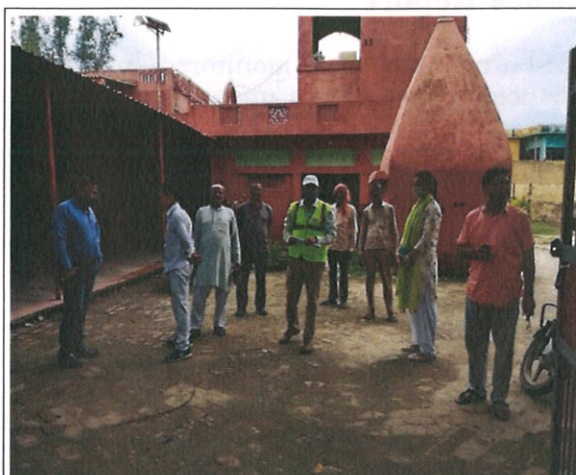
UPG-02: Waste Material used on Barera village approach road at Ch. 139+000



UPG-03: GRM Displayed at Camp for Public



UPG-03: Public Consultation at Pond Enhancement Site



UPG-04: Public Consultation at proposed Temple Enhancement Site



UPG-04: Public Consultation at proposed Pond Enhancement Site