



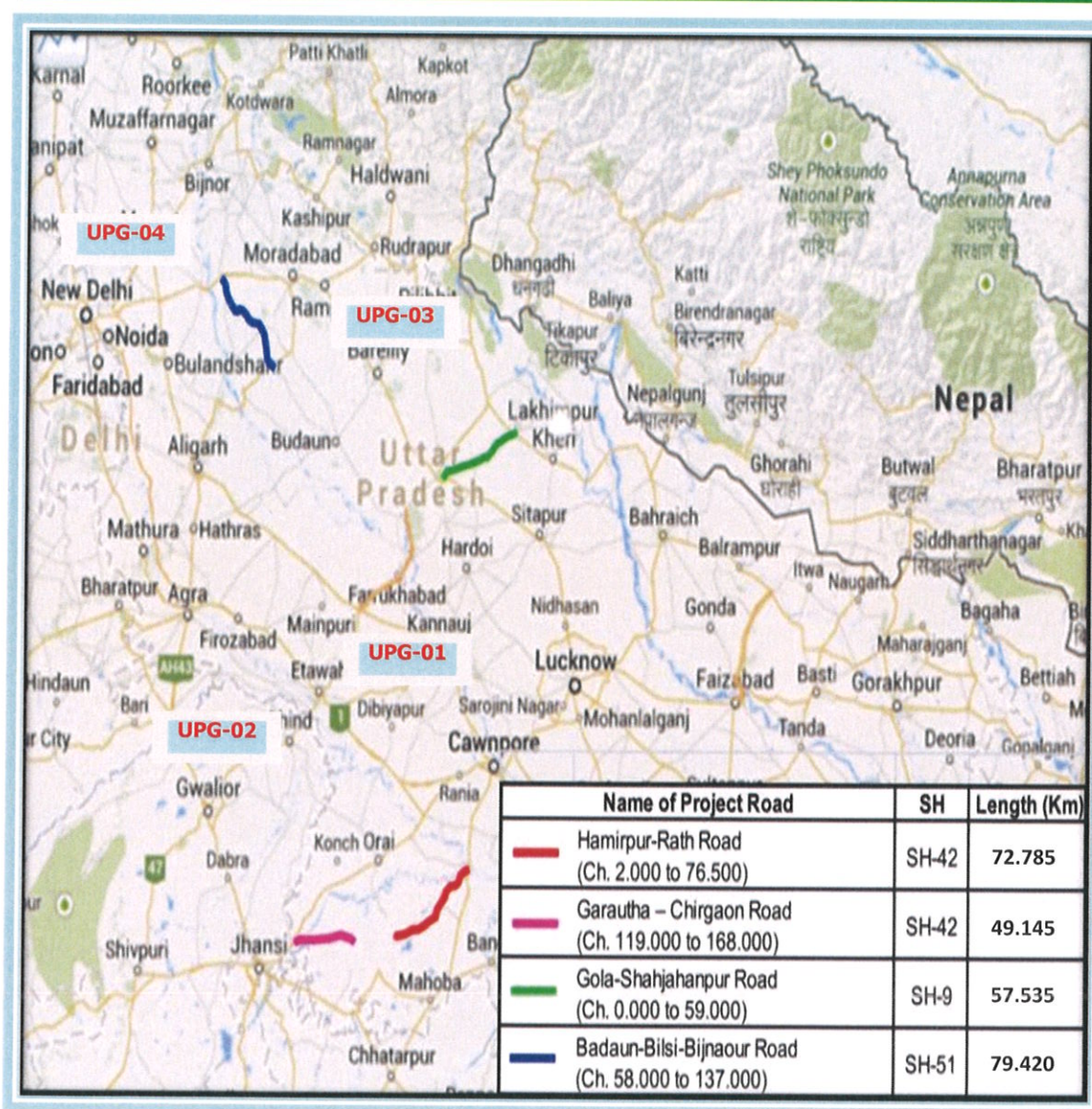
## UTTAR PRADESH CORE ROAD NETWORK PROJECT

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

#### Construction and Up-gradation of Four Packages of UPCRNDP Phase-I Roads in the State of Uttar Pradesh

(1 NCB Package on Item Rate and 3 ICB Packages on EPC)

#### MONTHLY PROGRESS REPORT DECEMBER-2019



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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 comprise 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
<b>Total</b>	<b>24,095</b>

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 Consultants 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)  
24months 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 in UP State Road Project to build at longer bridge at Pachpheri Ghat) and road safety enhancement work on about 2000km of CRN Roads in Phase-II.



**PART-A**

**Project Preparation**

## PART-A

### 1. EXECUTIVE SUMMARY

The Public Works Department on behalf of Govt. of Uttar Pradesh has engaged M/s Egis-India Consulting Engineers Pvt Ltd. 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 will be undertaken in two Phases. The 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.

### 2. PROJECT OVERVIEW

The contract was signed on 8<sup>th</sup> August 2014, nevertheless during the contract signing, it has been agreed the start date for the assignment shall be considered as 19<sup>th</sup> August 2014. The initial discussions were held on 14<sup>th</sup> 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 407.655Km with estimated Project Cost of INR 2677 Crore has been completed and 258km of road with INR 1143 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-Bilsi-Bijnaour	SH-51	79	No Change
4	Utraula-Faizabad Road **	SH-9	59	Shifted in Phase-II
5	Lepulekh-Bhind (From Jalalabad) Road ***	SH-29	54	Replaced by Balrampur – Utraula- Faizabad Road
6	Bridge Over River Sharda **	—	—	Shifted in Phase-II
		<b>Total</b>	<b>419</b>	



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	79.420	334.000
<b>Total</b>				<b>258.885</b>	<b>1143.285</b>

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
<b>Total</b>			<b>149.600</b>	<b>1533.00</b>

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

### Status of Social Monitoring

Please refer Enclosure-3 regarding Social Monitoring Report of Phase-I Roads.

## 2.2. PHASE-II ROADS

In addition to above listed highways, 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**

me 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 0.000 - Km 60.100)	Hamidpur-Kuchesar Road Hamidpur via Badshahpur 2 Lane (1 to 48.500 m)	Bansi-Mehdawal-Khalilabad (Km 0.000 - Km 32.000)
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	60.1	47.5	32
Estimated Cost (In Cr)	356.4	499.2	365	289.2	193.1
DPR Activities	Status of the Phase-II DPR Works				
Structure Inventory Survey	Completed	Completed	Completed	Completed	Completed
Road Inventory and Road Conditioning survey	Planned from 16 <sup>th</sup> December	Planned from 16 <sup>th</sup> December	Completed	Planned from 16 <sup>th</sup> December	Completed
Topographical Survey	Topo Survey & Survey Leveling is in Progress, GPS, DGPS &TBM Pillar Fixing Completed	Topo Survey & Survey Leveling is in Progress, GPS, DGPS &TBM Pillar Fixing Completed	Topo Survey & Survey Leveling is in Progress, GPS, DGPS &TBM Pillar Fixing Completed	Topo Survey & Survey Leveling is in Progress, GPS, DGPS &TBM Pillar Fixing Completed	Will be started in Jan'2020
Environmental Surveys	Team being mobilized: Desk Data Collection for EIA is in progress				
Social Surveys	Team being mobilized: Currently Social Screening and SIA related data collection is in progress				



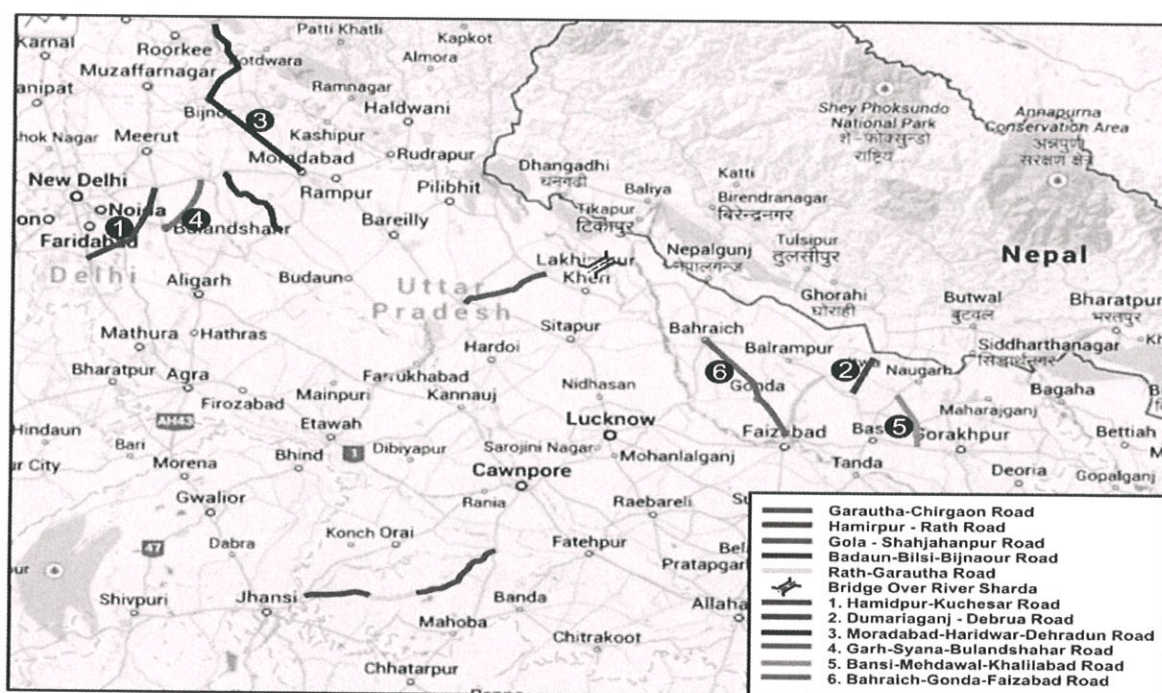
**PROGRAM MANAGEMENT CONSULTANCY  
SERVICES FOR UTTAR PRADESH CORE ROAD  
NETWORK DEVELOPMENT PROJECT**



Traffic and Axle Load Surveys	Work will be commenced on 12th or 13th of December	Work will be commenced on 14th or 15th of December	Completed	Work will be commenced on 14th or 15th of December	Completed
Inception Report	submitted on 27 <sup>th</sup> Nov-2019				
Material Investigations	Last week of Feb-2020	Last week of Feb-2020	Last week of Jan-2020	Last week of Feb-2020	Last week of Dec-2019
FWD Surveys	Second week of Feb-2020	Second week of Feb-2020	Second week of Jan-2020	Second week of Feb-2020	Second week of Dec - 2019
Geotechnical Investigation	Third week of Feb-2020	Third week of Feb-2020	Third week of Jan-2020	Third week of Feb-2020	Last week of Dec - 2019
Detailed Topographical Survey Report	Second week of Feb-2020	Second week of Feb-2020	Second week of Jan-2019	Second week of Feb-2020	Third week of Dec - 2019
Traffic Survey Analysis	Second week of Feb-2020	Second week of Feb-2020	Second Week of Jan-2019	Second week of Feb-2020	Third week of Dec - 2019
Road Alignment Finalization	First week of Mar-2020	First week of Mar-2020	First Week of Feb-2020	First week of Mar-2020	First Week of Jan-2020
Pavement Design	First week of Apr-2020	First week of Apr-2020	Second week of Feb - 2020	First week of Apr-2020	Second Week of Jan-2020
Structure Design	First week of Apr-2020	First week of Apr-2020	First Week of Mar-2020	First week of Apr-2020	First week of Feb-2020
Highway Design and Drawings preparation					
Technical Specification finalization					
Rate analysis and Cost Estimation	Third week of Apr-2020	Third week of Apr-2020	Third Week of Mar-2020	Third week of Apr-2020	Third week of Feb-2020
Detailed Design Report (DPR)	Last week of Apr-2020	Last week of Apr-2020	Last week of Mar-2020	Last week of Apr-2020	Last week of Feb -2020
Environmental Assessment Report, Drawings and bidding documents	Last week of Apr-2020	Last week of Apr-2020	Last week of Mar-2020	Last week of Apr-2020	Last week of Feb -2020
Social Impact Assessment	Last week of Apr-2020	Last week of Apr-2020	Last week of Mar-2020	Last week of Apr-2020	Last week of Feb -2020

Report including route specific EMPs]					
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
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

The location map of prioritizing Phase II roads is shown in **Figure 1**.



## 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,	In progress



	Measurement System, Risk Management, Quality Management System	
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	In progress
10	Computer Aided Design (CAD) System	Completed
11	Project Roads Database	In progress

#### 2.4. Meetings held during the Month (For Part-A)

Sr. No.	Date	Description	Person attended Meeting
NIL			

#### 2.5. Financial Progress of Consultant

The Consultant has submitted his Invoices for Services up to December 2019 and Financial Progress of UPCRNDP - (Part B+C) - Up to December 2019 is as below:

##### PART –B Up to December 19 (INR)

SI No.	Description	Contract Amount	Variation	Cumulative up to Current Invoice	Balance
1	Remuneration for Key Professionals	82,286,700	90,354,046	14,942,014	75,412,032
2	Remuneration for Non- Key Professionals	187,938,800	147,453,510	26,181,060	121,272,350
3	Reimbursable Expenses	44,607,516	48,363,117	9,209,916	39,153,201
4	Escalation			7,412,844	
	<b>Total</b>	<b>314,833,016</b>	<b>286,170,672</b>	<b>57,745,833</b>	<b>2,35,837,683</b>



**PART - C – Up to December 19 (USD)**

Sl No.	Description	Contract Amount	Variation	Cumulative up to Current Invoice	Balance
1	Remuneration for TL	\$1,124,640	\$1,225,501	\$443,502	\$782,000
	<b>Gross Amount (Foreign Component in INR)</b>	<b>\$1,124,640</b>	<b>\$1,225,501</b>	<b>\$443,502</b>	<b>\$782,000</b>

**PART - C - Up to December19 (INR)**

Sl No.	Description	Contract Amount	Variation	Cumulative up to Current Invoice	Balance
1	Remuneration for Key Professionals other than TL	52,034,400	43,239,000	2,858,120	49,176,280
2	Reimbursable Expenses	18,552,152	30,896,321	13,614,435	4937717
3	Escalation			7,06,859	
	<b>Gross Amount (Local Component in INR)</b>	<b>70,586,552</b>	<b>74,135,321</b>	<b>17,179,414</b>	<b>54,113,997</b>

**PART-B**

**Construction Supervision**

## **PART – B**

### **1. EXECUTIVE SUMMARY**

The Public Works Department on behalf of Govt. of Uttar Pradesh engaged Egis-India Consulting Engineers Pvt Ltd. 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 Section of **Monthly Progress Report No.06** by the Team Leader Office covers CIVIL WORKS REPORT of DECEMBER-2019 and summarizes the activities up-to end of this month.

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:

<b>SI. NO.</b>	<b>PROJECT NAME</b>	<b>CONTRACT PACKAGE</b>	<b>LENGTH (km)</b>	<b>DATE OF AGREEMENT</b>	<b>COMPLETION PERIOD</b>	
					<b>CONSTRUCTION</b>	<b>MAINTENANCE</b>
1	Up-gradation and Maintenance of Garautha-Chirgaon Section of SH-42 from Km 118.600 to Km 167.745	NCB No. UPCRNDP/U PG/02/2014	49.145	05-01-2017	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/U PG/01/2018	72.785	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/U PG/03/2018	57.535	26-06-2019	730 days	1826 days
4	Engineering Procurement and Construction Contract for Up-gradation and Maintenance of Badaun-Bilsi-Bijnaour section of	ICB No. UPCRNDP/U PG/04/2018	79.420	05-07-2019	730 days	1826 days



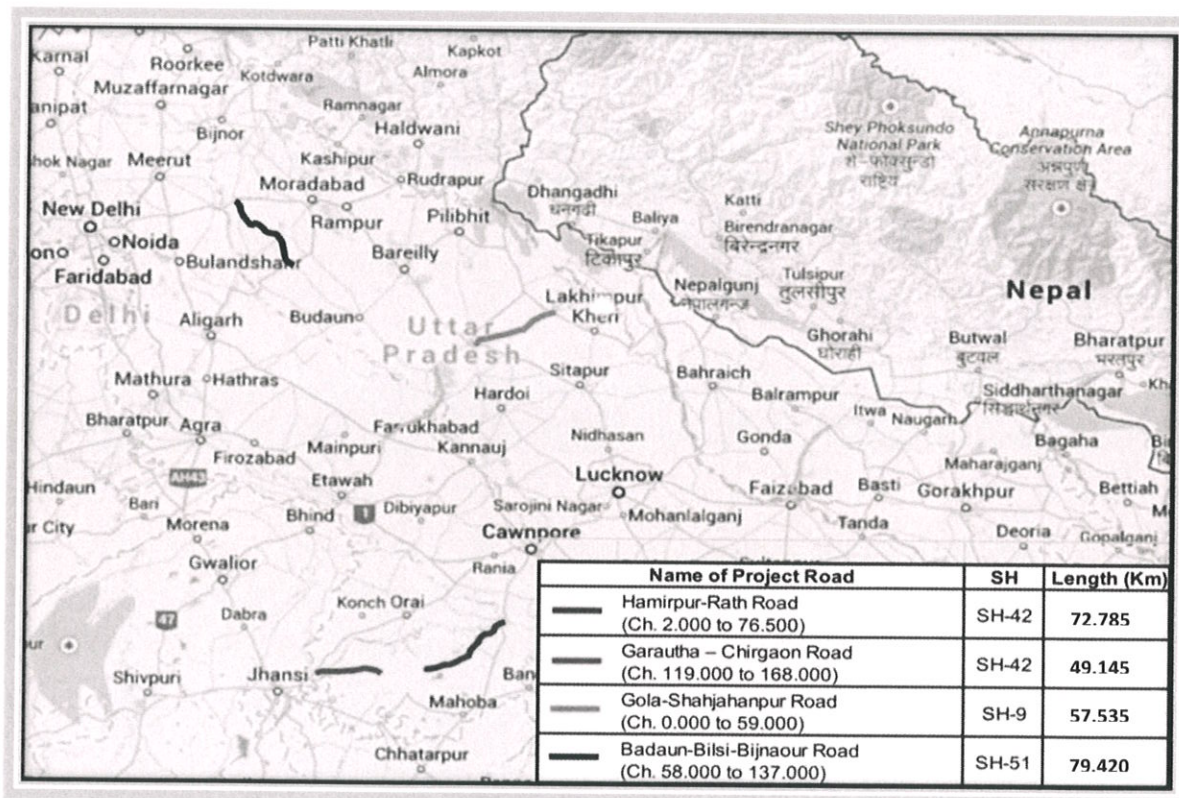
	SH-51 from Km 58.400 to Km 137.820				
	<b>Total Project Length (In Km)</b>	<b>258.885</b>			

One of the above Contract Package Garautha-Chirgaon Section of SH-42 is awarded in year 2015 on National Competitive Bidding (NCB) norms under Item Rate Contract and other three Contract packages are 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



#### 1.1. Introduction

This **Monthly Report No.06** 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 Report includes Project background, salient Features of Phase-I Roads Civil works and scope of Consulting Services. The report also covers resources mobilized by Consultant as well as Contractor and the perception of the Management and Supervision of the Project.

## **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,
- Variation orders proposed and approved
- 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 culverts, new bridges and rehabilitation of existing bridges/culverts



# PROGRAM MANAGEMENT CONSULTANCY SERVICES FOR UTTAR PRADESH CORE ROAD NETWORK DEVELOPMENT PROJECT



- 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.

## Contract Packages:

Contract No.	Category	From	To	Length (km)	Name of the Contractor
UPCRNDP/UPG/02/2014	SH-42	Garautha (Km118+600)	Chirgaon (Km167+745)	49.145	M/s NKC Projects Pvt. Ltd.
UPCRNDP/UPG/01/2018	SH-42	Hamirpur (Km2+065)	Rath (Km74+255)	72.785	M/s GHV (India) Pvt. Ltd.
UPCRNDP/UPG/03/2018	SH-93	Gola (Km1+280)	Shahjahanpur (Km58+580)	57.535	M/s APCO Infratech Pvt. Ltd.
UPCRNDP/UPG/04/2018	SH-51	Badaun (Km58+400)	Bijnaour (Km137+820)	79.420	M/s Gawar Construction Ltd.
<b>Total Length (On-Going Contracts)</b>				<b>258.885</b>	<b>Km</b>

## Contractor's Names, Package, Date of Agreement and Commencement Date

Contractor	Package	Date of Contract Agreement	Contract Amount (Cr.)	Construction Period (Month)	Appointed Date
M/s NKC Projects Pvt. Ltd.	UPG-02	04-01-2017	189.99	24	15-01-2018
M/s GHV (India) Pvt. Ltd.	UPG-01	19-06-2019	262.39	24	25-06-2019
M/s APCO Infratech Pvt. Ltd.	UPG-03	26-06-2019	356.90	24	11-11-2019
M/s GAWAR Construction Ltd.	UPG-04	05-07-2019	334.00	24	04-11-2019
<b>Total Project Cost (in Cr)</b>			<b>1143.28</b>		

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

Contractor	Date of Appointment/ Commencement	Milestone wise Scheduled Completion Date			
		MS-01	MS-02	MS-03	MS-04
M/s NKC Projects Pvt. Ltd.	15-Jan-18	14-Jan-19	14-Jan-19	15-Jul-19	14-Jan-20*
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.	11-Nov-19	08-Apr-20	05-Oct-20	03-Apr-21	09-Nov-21



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Ltd.					
M/s GAWAR Construction Ltd.	04-Nov-19	03-Apr-20	03-Oct-20	03-Apr-21	02-Nov-21

- \* UPG-02: Extension for Milestone-4 up to April 2020 is under review of PMC as various additional works were demanded by the local villagers at village Gursarai and Village Sultanpura and were accepted by the Authority. UPG-04: 35 Days Extension of Time for Milestone-1 due to Force Majeure reasons has been reviewed and recommended by the Authority Engineer to the Authority.

## 1.5. Design & Drawings Agency of EPC Packages

Pack age	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 - WBPCCK/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 - WBPCCK/19 Dated 18.07.2019	Approved
	Safety Consultant	M/s KhannaGoyal Designers LLP, Gurugram	GHV/Site/SH -42/Kanpur /104 Dated 11.07.2019	SE letter No. 764 C/24C - WBPCCK/19 Dated 18.07.2019	Approved
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/UPG-03/2018 Dated 19.08.2019	Approved

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	<b>Safety Consultant</b>	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
<b>Badaun-Bilsi-Bijnaour (UPG-04)</b>	<b>Design Consultant Team:</b>	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	1265/21ComW.B. P.C./19-20 Dated 18.11.2019	Approved
	<b>Proof Check Consultant</b>	NIT Kurukshetra	Submitted to UPPWD in Nov'2019	1352/21 Com.- W.B.P.C./19-20 Dated 26.11.2019	Approved
	<b>Safety Consultant</b>	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

### 1.6. Physical Progress

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

Package	C & G (Km)			Earth work -SG Top (Km)		
	Scope in Length	Completed	% Completed	Scope in Length	Completed	% Completed
UPG-01	72.785	19.200	26.38%	72.785	15.895	21.84%
UPG-02	49.145	48.940	99.58%	49.145	47.844	97.35%
UPG-03	57.535	15.000	26.07%	57.535	4.025	7.00%
UPG-04	79.42	8.725	10.99%	79.420	0.000	0.00%
<b>Total</b>	<b>258.885</b>	<b>91.865</b>	<b>35.48%</b>	<b>258.885</b>	<b>67.764</b>	<b>26.18%</b>
Package	GSB (Km)			WMM (Km)		
	Scope in Length	Completed	% Completed	Scope in Length	Completed	% Completed
UPG-01	72.785	9.340	12.83%	72.785	0.000	0.00%
UPG-02	49.145	47.769	97.20%	49.145	47.769	97.20%
UPG-03	57.535	1.510	2.62%	57.535	0.000	0.00%
UPG-04	79.42	0.000	0.00%	79.420	0.000	0.00%
<b>Total</b>	<b>258.885</b>	<b>58.619</b>	<b>22.64%</b>	<b>258.885</b>	<b>47.769</b>	<b>18.45%</b>



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Package	Scope in Length	Completed	% Completed	Scope in Length	Completed	% Completed
UPG-01	72.785	0.000	0.00%	72.785	0.000	0.00%
UPG-02	49.145	47.494	96.64%	49.145	46.330	94.27%
UPG-03	57.535	0.000	0.00%	57.535	0.000	0.00%
UPG-04	79.42	0.000	0.00%	79.420	0.000	0.00%
<b>Total</b>	<b>258.885</b>	<b>47.494</b>	<b>18.35%</b>	<b>258.885</b>	<b>46.330</b>	<b>17.90%</b>

**At present the construction work is in progress in Two Civil Contracts. The Progress status is as below:**

Sl. No	Type of Structure	Unit	Scope	Completed Up to this month	Cumulative Completed	Under Progress	Completed in %
1	New and reconstruction of Culverts	Nos.	72	25	25	8	35%
2	Widening and repair of Culverts	Nos.	44	0	0	0	0%
3	Minor Bridges New and reconstruction	Nos.	1	0	0	0	0%
4	Minor Bridges Widening with repair	Nos.	8	0	0	0	0%
5	Major Bridge Repair	Nos.	1	0	0	0	0%

## UPG-02: Structural Progress in Numbers

Sl. No	Type of Structure	Unit	Scope	Completed Up to Previous Month	Completed During this month	Cumulative Completed	Under Progress	Completed in %
1	Minor Bridge	No.	6	5	0	5	1	83.00%
2	Box Culvert	No.	47	44	0	44	1	94.00%
3	Slab Culvert	No.	5	4	0	4	1	80.00%
4	Pipe Culvert	No.	37	33	4	37	0	100.00%

**Structural Works: in UPG-03 & UPG-04 - NIL**

### 1.7. Financial Progress

Gross Amount in Rs. Corers				
Package	Cost of project (Cr)	Certified IPC amount (Cr.)	Paid IPC nos.	Remarks
Garautha-Chirgaon	189.99	130.09	IPC-16	Up to 30 <sup>th</sup> November 19
Hamirpur-Rath	262.39	10.81	IPC-2	Excluding Mobilization Advance (Rs.26.24 Cr.)
Gola-Shahjahanpur Road	356.9	NA	NA	NA
Badaun-Bilsi-Bijnaour	334	NA	NA	NA
<b>TOTAL (In Crores)</b>	<b>1143.28</b>	<b>140.90</b>		

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

Package	Date	Description
UPG-01	01-12-19	Field Inspection by Sr. Env. Spl. (1 <sup>st</sup> Dec'19 to 7 <sup>th</sup> Dec'19)
UPG-01	12-12-19	Field Inspection by SE-Kanpur accompanied by EE-Jhansi, TL-Egis & Env. Spl.-Egis
UPG-01	19-12-19	Field Inspection by CE (EAP), PD (WB), EE (WB), SE (Kanpur), EE (Jhansi) accompanied by EE-Jhansi, TL-Egis & Env. Spl.-Egis
UPG-02	05.12.2019	Field Inspection by SE-Kanpur and EE-Jhansi; MOM issued by Egis India/RE UPG-02/UPCRNDP/654/2019, Dated 11.12.2019

### 1.9. Correspondence Management

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

## 2. CONSTRUCTION SUPERVISION SERVICES

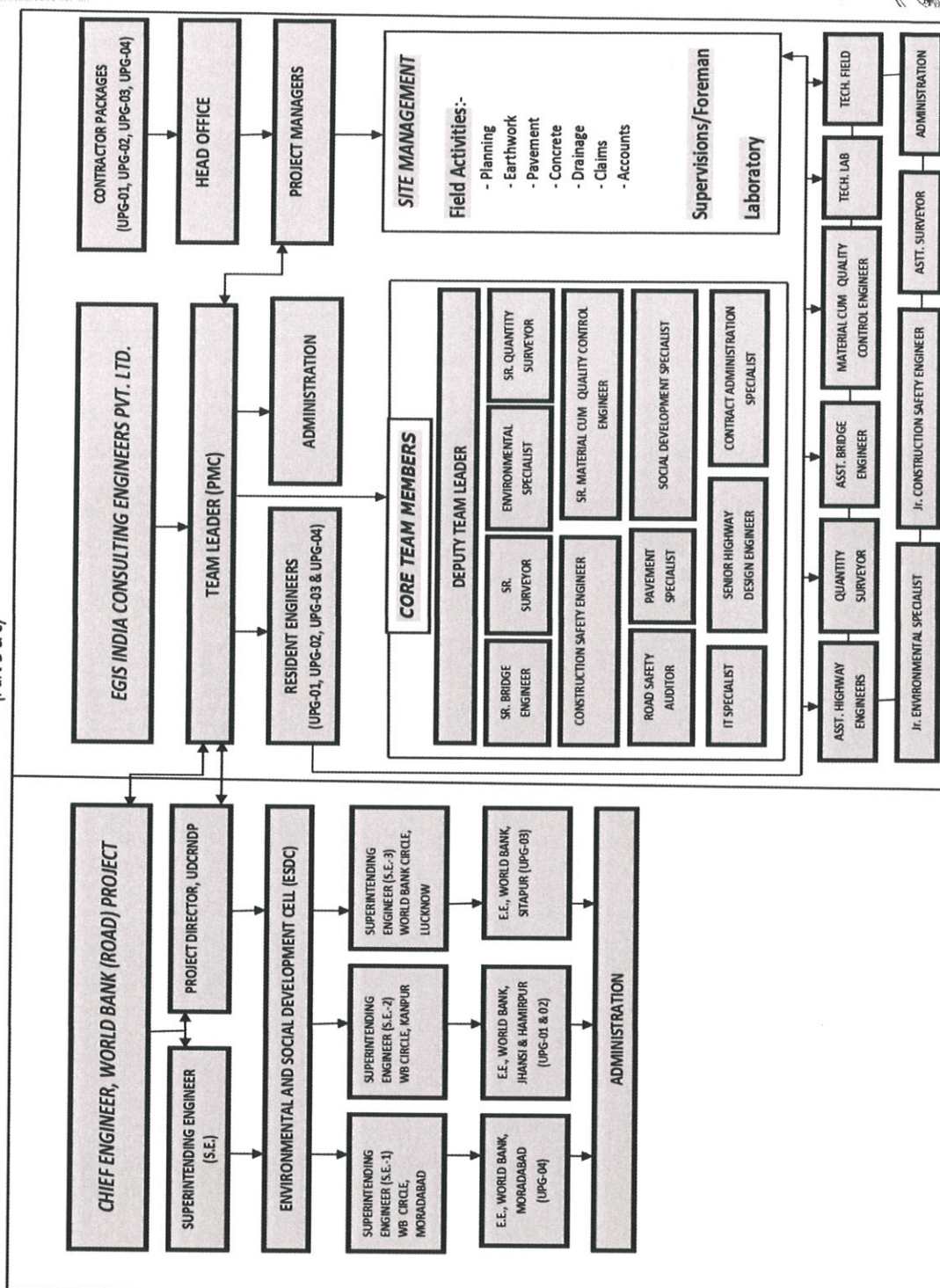
### 2.1. Organization

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





**PROJECT ORGANIZATION CHART**  
(Part-B & C)



## **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-560010  
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,  
NaiBasti, 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,  
1<sup>st</sup> and 2<sup>nd</sup> 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: Sheri Uma Shankar Parishes  
56, PahadiBuzurg, Chirgaon  
District Jhansi (U.P) – 284301

### **Contract Package – UPG/04**

**Badaun – Bilsa-Bijnaour Section of SH-51**  
**Office of the Resident Engineer**  
Egis India Consulting Engineers Pvt. Ltd.  
C/o Mr. Mukesh Kumar, Green City (Awas  
Vikas Colony), Near Amroha Bus Stand,  
Gajroula-Sambhal Road, Hasanpur-244 241



**Table-1: Showing Staff Mobilizations as per Proposed Revision**

Position	Name	Duration (months)	Start date	Remarks
<b>TEAM LEADER'S OFFICE</b>				
Team Leader	Mohd. Ayaz Beg	65.381	01.06.2019	
Dy. Team Leader (Const. Mgmt. Specialist)	TBA	36	TBA	
Contract Administration Specialist	TBA	36	TBA	Part-C Services
Senior Highway Design Engineer	TBA	18	TBA	Part-C Services
Senior Bridge Design Engineer (intermittent)	TBA	10	TBA	Part-C Services
IT Specialist	Mr. Sanjay Ayyangar	36	10.09.2019	Part-C Services
Social Development Specialist	Dr. Sudesh Kaul	16.44	08.08.2018	Part-C Services
Road Safety Auditor	TBA	10	TBA	Part-C Services
Pavement Specialist (Intermittent)	Mr. T. Someshwar Rao	11	03.09.2019	Part-C Services
Senior Material cum Quality Control Specialist	Mr. Alok Sinha	45.5	06.07.2018	
Construction Safety Specialist	TBA	40	TBA	
Environment Specialist	Mr. Dev Brat Singh	45	15.03.2018	Part-B&C Services
Senior Surveyor	Mr. Rajendra Singh	16	05.03.2018	
Senior Bridge Engineer	TBA	39	TBA	
Senior Quantity Surveyor (additional)	TBA	42	TBA	
PMIS/Procurement Sub-professional	Mr. Deepak Pant	72	26.06.2019	
Assistant Social Development Specialist	Mr. Bikram Singh	10	11.09.2019	
Office Manager cum Accountant	Mr. K.C.Joshi	72	14.05.2018	
Computer Operator	Mr. Ashok Kumar Srivastava	72	15.04.2015	
Office Assistant	Mr. Sunil Kumar	72	03.06.2019	
Watchman	Mr. Gyanendra Singh	72	05.10.2014	
<b>CONTRACT PACKAGE- UPG-01 Hamirpur – Rath (Including Rath-Garautha Section)</b>				
<b>Key Professional/Sub-Professional Staff</b>				
Resident Engineer	Mr. Jawahar Singh	36	01.10.2019	
Assistant Highway Engineer-1	Mr. Anil Kumar Vidhyarthi	36	23.07.2019	

Assistant Highway Engineer-2	Mr. Ravish Kumar	36	03.08.2019	
Assistant Quantity Surveyor	TBA	24	TBA	
Assistant Bridge Engineer	Mr. Dinesh Chandra	24	21.11.2019	
Assistant Material Cum Quality Engineer	Mr. Saurabh Ranjan Srivastava	24	09.08.2019	
Assistant Surveyor	Mr. Gopal Krishna Biswas	24	16.05.2019	
Junior Construction Safety Expert	Mr. Umesh Kumar Ramraj	36	04.06.2019	
Junior Environmentalist	TBA	36	TBA	
Technician Lab	Mr. Anuraj Tiwari	24	15.05.2019	
Technician Field	Mr. Abhay Kumar	24	21.05.2019	
<b>Administrative Support Staff</b>				
Office Manager Cum Accountant	Mr. Siddhartha Shukla	36	16.12.2019	
Computer Operator/Office Assistant	Mr. Sumit Kumar Tiwari	36	11.10.2019	
Office Attendant	Mr. Surendra Kumar	36	01.08.2019	
Watchman	Mr. Prashant Soni	36	01.08.2019	
<b>CONTRACT PACKAGE - UPG-02 Garautha - Chirgaon</b>				
<b>Key Professional/Sub-Professional Staff</b>				
Resident Engineer	Mr. Rajesh Kumar Srivastava	24+60	06.03.2018	
Assistant Highway Engineer-1	Mr. Nikunj Kumar	24	17.07.2018	
Assistant Highway Engineer-2	Mr. Ajay Pal Singh	24	11.01.2019	
Assistant Bridge Engineer	Mr. Rajesh Kr. Singh	24	06.08.2018	
Assistant Material Cum Quality Engineer-1	Mr. Sat Pal Singh	24	08.04.2019	
Assistant Material Cum Quality Engineer-2	TBA	24	TBA	
Assistant Quantity Surveyor-1	As per VO – Additional Position - To be Appointed	8+60	TBA	
Assistant Surveyor-1	Mr. Arun Sharma	24	13.02.2018	



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Junior Construction Safety Expert	Mr. Pratush Bagchi	24	19.07.2018	Resigned in August'2018
Junior Environment Specialist	Mr. Karmvir Singh	24	01.01.2019	Resigned in August'2019
Technician Filed-1	Mr. Khem Raj Singh	24	27.07.2018	
Lab Technician-1	Mr. Gaurav Shrivastav	24	11.05.2018	
<b>Administrative Support Staff</b>				
Office Manager Cum Accountant	Mr. Nitin Gupta	24	14.05.2018	
Computer Operator/Office Assistant	Mr. Akhilesh Chandra	24+60	10.05.2018	
Office Assistant	Mr. Laukesh Kumar	24+60	09.08.2019	
Watchman	Mr. Nipendra Kumar	24+60	01.08.2018	
<b>CONTRACT PACKAGE - UPG-03 Gola- Shahjahanpur</b>				
<b>Key Professional/Sub-Professional Staff</b>				
Resident Engineer	Mr. Anjani Kumar	24	05.10.2019	
Assistant Highway Engineer-1	Mr. Abhieshek Pandey	24	22.05.2019	
Assistant Highway Engineer-2	TBA	24	TBA	
Assistant Quantity Engineer	Mr. Abhinay Raghav	24	08.06.2019	
Assistant Bridge Engineer	Mr. Anil Kumar Pandey	24	16.12.2019	
Assistant Material Cum Quality Engineer	Mr. Ranjit Barua	24	10.06.2019	
Assistant Surveyor	Mr. Gyanendra Singh	24	15.05.2019	
Junior Construction Safety Expert	Mr. Vinay Kumar Tiwari	36	03.10.2019	
Junior Environmentalist	TBA	36	TBA	
Technician Lab	Mr. Ranjan Kumar Singh	24	01.08.2019	
Technician Filed	Mr. Rajan Singh	24	20.5.2019	
<b>Administrative Support Staff</b>				
Office Manager Cum	Mr. Manish Kr.	36	15.05.2019	

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Accountant	Dixit			
Computer Operator/Office Assistant	Mr. Satya Prakash Dwivedi	36	11.12.2019	
Office Attendant	Mr. Sumit Pal	36	07.08.2019	
Watchman	Mr. Sachin Shukla	36	26.08.2019	
<b>CONTRACT PACKAGE -UPG-04 Badaun– Bilsa- Bijnour</b>				
<b>Key Professional/Sub-Professional Staff</b>				
Resident Engineer	Mr. Deepak Kumar	24	08.11.2019	
Assistant Highway Engineer-1	Mr. Pramod Kumar Singh	24	02.08.2019	
Assistant Highway Engineer-2	Mr. Suresh Chand	24	04.11.2019	
Assistant Quantity Engineer	Mr. Hunny Kumar	24	12.06.2019	
Assistant Bridge Engineer	Mr. Amit Kumar	24	02.08.2019	
Assistant Material Cum Quality Engineer	TBN	24	TBA	
Assistant Surveyor	Mr. Sachin Kumar	24	02.12.2019	
Junior Construction Safety Expert	TBA	36	TBA	
Junior Environmentalist	TBA	36	TBA	
Technician Lab	Mr. Krishna Kumar Keshri	24	13.11.2019	
Technician Filed	Mr. Rajeev Yadav	24	14.11.2019	
<b>Administrative Support Staff</b>				
Office Manager Cum Accountant	Mr. SachinSoni	36	23.11.2019	
Computer Operator/Office Assistant	Mr. Jaynand Bharti	36	19.09.2019	
Office Attendant	Mr. Nakul Singh	36	04.10.2019	
Watchman	Mr. Amit Kumar	36	27.11.2019	



**Table-2: Showing Vehicles Mobilization**

Sl No.	Vehicle Type	Vehicle No.	Start Date	Remarks
<b>TEAM LEADER'S OFFICE (LUCKNOW)</b>				
1	MARAZZO	UP-32 LN 6457	13.08.2019	
2	TATA JEST	UP-32 LN 1212	23.07.2018	
<b>CONTRACT PACKAGE- UPG/01 HAMIRPUR – RATH</b>				
1	SCORPIO	UP-77 AN 0590	01.07.2019 to 31.12.2019	Replaced by UP-91 MM 5517
2	SCORPIO	UP-91 MM 5517	01.01.2020	Replacement of UP-77 AN0590
3	BOLERO	UP-93 KT 6804	18.09.2019 to 30.11.2019	Replaced by UP-93 BD 0900
4	BOLERO	UP-93 BD 0900	01.12.2019	Replacement of UP-93 KT 6804
5	BOLERO	UP-93BG 2454	05.12.2019	
<b>CONTRACT PACKAGE – UPG/02 GARAUTHA –CHIRGAON</b>				
1	BOLERO	UP93 BT 1823	06.03.2018 to 31.03.2018	Replaced with below vehicles
2	BOLERO	UP93 BT 5397	01.04.2018 to 31.10.2018	
3	BOLERO	UP93 T 3236	19.05.2018 to 31.12.2018	
4	BOLERO	UP-93 BD 0639	01.11.2018	
5	BOLERO	UP-93 BF 5194	15.01.2019	
6	BOLERO	UP-93 AY 7692	23.11.2018	
<b>CONTRACT PACKAGE – UPG/03 GOLA - SHAHJAHANPUR</b>				
1	BOLERO	UP-27 AT 4619	05.07.2019 to 30.11.2019	Replaced by UP-27 AT 5751
2	BOLERO	UP-27 AT5751	01.12.2019	Replacement of UP-27 AT4619
3	BOLERO	UP-27 AU2415	06.12.2019	
4	BOLERO	UP-27 AU2414	06.12.2019	
<b>CONTRACT PACKAGE –UPG/04 BADAU – BILSI - BIJNAOUR</b>				
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	
<b>EMPLOYER'S USE</b>				
1	SCORPIO			Provided by M/s NKC Projects

### 3. CONTRACT PROJECT ACTIVITIES

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

##### 3.1.1. Introduction

Uttar Pradesh Core Road Network Project (UPCRNDP) is one of the important and successful endeavors of Government of Uttar Pradesh, Government. (UP) and Public Works Department (PWD) implemented with the assistance of World Bank (WB).

The selected road works under Phase-I consist of the upgrading of approximate 260 Km. of State Highways divided into four construction packages, through International Competitive Bidding Contract.

One of the selected UPCRNDP roads for the Package UPG-02 is Garautha-Chirgaon Road **M/s NKC Projects Pvt. Ltd.** has been selected through ICB Bidding norms for the up-gradation and development.

This **Monthly Progress Report No. 22** covers the Month of December 2019 and summarizes the activities up-to end of this month.

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

<b>SI. NO.</b>	<b>CONTRACT PACKAGE</b>	<b>LENGTH (KM)</b>	<b>COMPLETION PERIOD (As per Contract)</b>	<b>COMMENCEMENT DATE (As per Contract)</b>	<b>SCHEDULED COMPLETION DATE (As per Contract)</b>
1.	UPCRNDP/UPG/02/20 14 Garautha-Chirgaon Road (SH-42)	49.145	24 Months	15 <sup>th</sup> January 2018	14 <sup>th</sup> January 2020

The cumulative **Physical Progress achieved is 85.00%** and **Financial Progress is 74.30%** against **target of 100.00%** of the Contractor's Work Programme as approved by the PMC.

The project has been delaying due to hindrances like shifting of Electrical Poles and Water Pipe lines took more time by the concerned Utility Department and villagers demand for widen carriageway especially in habitation area of Gursarai–demand for divided C/W and Sultanpura – demand for widen C/W (from 6.0m to 10m). Contractor has requested the **Extension of Time (EOT) up to 30<sup>th</sup> April 2020** to complete the scheduled project works.

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.

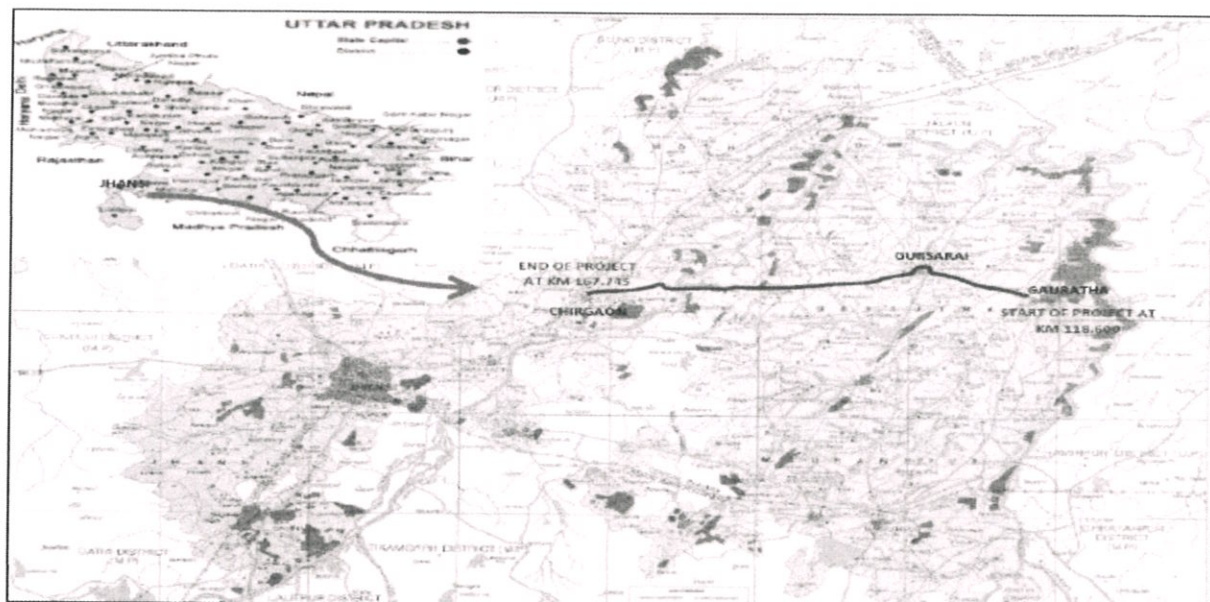


Highway Physical Progress in Linear Length									
Sl.	Description	Unit	Scope	Work Done up to Previous Month	Progress During the Month			Work Done up to Date	Progress w.r.t Scope Work
					Length Achieved				
				Average	LHS	RHS	Average	Average	In %
1	C & G	Km	49.145	47.000	1.940	1.940	1.940	48.940	100.00%
2	Earthwork	Km	49.145	46.660	0.894	0.994	0.944	47.844	98.00%
3	Subgrade 1st	Km	49.145	46.360	1.194	1.294	1.244	47.844	98.00%
4	Subgrade Top	Km	49.145	46.360	1.194	1.294	1.244	47.844	98.00%
5	GSB	Km	49.145	46.210	1.194	1.334	1.269	47.769	98.00%
6	WMM 1st	Km	49.145	46.070	1.494	1.644	1.569	47.769	98.00%
7	WMM Top	Km	49.145	46.070	1.494	1.644	1.569	47.769	98.00%
8	DBM 1 <sup>st</sup>	Km	49.145	45.935	1.394	1.394	1.394	47.494	97.00%
9	DBM Top	Km	49.145	45.935	1.394	1.394	1.394	47.494	97.00%
10	BC	Km	49.145	42.406	3.159	2.869	3.014	46.330	95.00%

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

Sl. No.	Type of Structure	Unit	Scope	Completed Up to Previous Month	Completed During this month	Cumulative Completed	Under Progress	Progress in %
1	Minor Bridge	No.	6	5	0	5	1	83.00%
2	Box Culvert	No.	47	44	0	44	1	94.00%
3	Slab Culvert	No.	5	4	0	4	1	80.00%
4	Pipe Culvert	No.	37	33	4	37	0	100.00%

**Project Location Map:**



**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 <sup>th</sup> Jan- 2019
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 <sup>th</sup> Jan- 2019 (Outstanding Minor work notified vide our lr.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 <sup>th</sup> April-2019 (Outstanding Minor work notified vide our lr.509 dt.22-July- 2019)
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	Under Progress
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 is delayed due to hindrances in urban areas (especially in Village-Garautha/Siya/Shila/Gursarai/Sultanpura) and additional works of Drain/ Minor



junction & divided / widen C/W. The Contractor has requested for Extension of Time (EOT) for completing the balance works by 30<sup>th</sup> April 2020. PMC advised to the Contractor to substantiate with documents for evaluation of EOT.

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

### 3.1.2. Construction Activities

#### 3.1.2.1. Site Possession and Utilities

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

**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	49.145	15/01/2018	49.145	Letter No. 11/1eom-W.B.P.C.K/18 Dated 15.01.2018
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/2018 Dated 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

Shifting of utilities such as water lines, telephone cables and associated accessories and Tree cutting are completed in rural and semi-urban areas.

Some of the balance utilities in approximate 0.830 Km of Project Length noticed at later stage especially at village Gursarai and village Sultanpura. The detail is enclosed, **Refer Annexure-B- Encumbrance List**

### 3.1.3. Mobilisation 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 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	To be Appointed	Since inception position is vacant
8	Bridge Engineer	Mr. Niraj Kumar Mishra	On Dated 20.04.2018

Contractor in addition of Key personals 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.**

### 3.1.3.3. Plant and Machinery

Contractor has established 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-140 & 140-160 TPH	17.10.2018
4	Crushers	00	Not Established	-	Procuring from Pvt. Crusher

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

### 3.1.3.4. Material

Contractor procuring materials like Cement, Steel, 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-D Material Procurement Statement**



### 3.1.4. Work Progress

#### 3.1.4.1. Design and Drawing

Contractor during this month has submitted only one number of working drawing for Cross Drainage structures which has been reviewed and approved. The working drawings for 2 structures are still awaited.

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

#### 3.1.4.2. Work Programme & EOT

Contractor's Revised Work Programme received vide letter No. NKC/Site//2019-20/660 Dated 10<sup>th</sup> December 2019. PMC vide letter No. Egis India/RE UPG-02/UPCRNDP/668/2019 Dated 20.12.2019 advised to the Contractor to substantiate with documents.

Contractor has submitted their request for Extension of Time (EOT) vide Letter No. NKC/HO/GC/2019-20/190 Dated 26<sup>th</sup> December 2019 to complete the Project works by the end of April 2020; EOT Proposal is under review of PMC.

#### 3.1.4.3. Financial Progress

Considering the Contract awarded cost of 189.99 Crores including maintenance, Progress up to 31<sup>st</sup> December 2019 is as follows;

UPG-02 Garautha- Chirgaon	Up to End of Previous Month		This Month		Cumulative upto Date	
	Target	Achieved	Target	Achieved	Target	Achieved
Amount (in Cr.)	185.50	130.09	0.27	7.43	185.77	137.52
In % age	99.85	70.31	0.15	4.00	100.00	74.31

#### 3.1.4.4. Interim Payment Certificate

The Contractor has submitted IPA-17 of amounting approximate Rs. 10,74,17,740.00 for the work done quantity achieved during the month of 1<sup>st</sup> Dec.-19 to 31<sup>st</sup> Dec.-19 for PMC review & recommendation for payment.

The PMC review is under progress.

### 3.1.4.5. 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	C & G	Km	49.145	47.000	1.940	1.940	1.940	48.940	100.00%
2	Earthwork	Km	49.145	46.660	0.894	0.994	0.944	47.844	98.00%
3	Subgrade 1st	Km	49.145	46.360	1.194	1.294	1.244	47.844	98.00%
4	Subgrade Top	Km	49.145	46.360	1.194	1.294	1.244	47.844	98.00%
5	GSB	Km	49.145	46.210	1.194	1.334	1.269	47.769	98.00%
6	WMM 1st	Km	49.145	46.070	1.494	1.644	1.569	47.769	98.00%
7	WMM Top	Km	49.145	46.070	1.494	1.644	1.569	47.769	98.00%
8	DBM 1 <sup>st</sup>	Km	49.145	45.935	1.394	1.394	1.394	47.494	97.00%
9	DBM Top	Km	49.145	45.935	1.394	1.394	1.394	47.494	97.00%
10	BC	Km	49.145	42.406	3.159	2.869	3.014	46.330	95.00%

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

Sl. No.	Type of Structure	Unit	Scope	Completed Up to Previous Month	Completed During this month	Cumulative Completed	Under Progress	Progress in %
1	Minor Bridge	No.	6	5	0	5	1	83.00%
2	Box Culvert	No.	47	44	0	44	1	94.00%
3	Slab Culvert	No.	5	4	0	4	1	80.00%
4	Pipe Culvert	No.	37	33	4	37	0	100.00%



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**

#### **3.1.4.6. 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**,

#### **3.1.4.7. Meetings & Site Inspections**

There was a site visit & progress review meeting of Superintendent Engineer, UPPWD World Bank on dated 05.12.2019 regarding various issues and Minutes of Meeting issued to Contractor vide our letter No. Egis India/RE UPG-02/UPCRNDP/654/2019, Dated 11.12.2019

#### **3.1.4.8. Key Issues**

- Contractor has achieved and completed the respective Milestones (MS-1, MS-2 & MS-3) up to DBM layer within scheduled time respectively. However, the Miscellaneous Works such as Protection Works, Finishing Works, Junction Improvement Works, Retaining Wall/Wing Wall works need to complete in order to completing the project in all respect.
- Bridge Expansion Joint & Bearing Works are still pending since long back - Contractor's immediate action required.
- Revised Work Programme reviewed and advised to the Contractor to submit in two parts 1<sup>st</sup> for the original balance work still not completed and 2<sup>nd</sup> part for those works delaying due hindrances or additional time required for variation works, submission awaited from contractor end.
- Client has to remove Encumbrances at 3 Locations- Village-Garuatha, Village-Gorasari & Village-Sultanpura, at earliest affected length approx. 0.830 Km.
- Redevelopment of Exhausted Borrow Areas shall be completed immediately.
- EMP-Enhancement works are started but work is very slow - still pending by the Contractor.

- Permanent Signage installation & Road marking are under progress – shall be expedited.

#### **3.1.4.9. Weather Report**

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

### **3.1.5. Environment Management Report**

#### **3.1.5.1. Project Specific Environmental Management Plan(EMP)**

Project-specific Environmental Management Plan (EMP) Rev. 02 Approved by PMC vide letter No. Egis India/RE UPG-02/UPCRNDP/129/2018 Dated 18<sup>th</sup> August 2018.

#### **3.1.5.2. Statutory Compliance**

Contractor has obtained all necessary Insurance and Permits as per Contract Agreement and required to complete the Project works.

##### **Status of Insurance:**

❖ WC Policy	Valid till 14-02-2020
❖ CAR Policy	Valid till 01-02-2020
❖ Public Liability	Valid till 01-02-2020

##### **Permits Obtained for Plants:**

❖ RMC Plants	Valid till 31-07-2020
❖ WMM Plants	Valid till 31-07-2020
❖ HMP Plants	Valid till 31-07-2020
❖ DG Sets	Valid till 31-07-2020

The Copy of Application for renewal received vide NKC letter No. NKC/Site/2019-20/GC/487 Dated 5<sup>th</sup> August 2019. Final copy of Renewal of above CTOs received vide NKC letter No. NKC/Site/2019-20/GC/589 Dated 15<sup>th</sup> October 2019. **Consolidated Statutory Permit Status Represented in Table -1**

#### **3.1.5.3. Construction Camp:**

Contractor has acquired private land at Ch.138+130 RHS for the establishment of base camp which includes Base Camp office, Central Laboratory, Mechanical Workshop, Staff and Worker's accommodation, Mess and Construction plants. **The Details of Construction Camp Establishment Shown in Table– 2.**

#### **3.1.5.4. Borrow Area Management**

Contractor's Borrow Areas Management along the project corridor for embankment construction is as below:



- ❖ Total Identified BA : 48
- ❖ Approved BA : 37
- ❖ Under Operation : 08
- ❖ Yet to be started : 00
- ❖ Exhausted BA : 29
- ❖ Rehabilitated BA : 00
- ❖ Rehabilitation Balance: 29

**EMP Details of Individual Borrow Areas are depicted in Table – 4**

#### **3.1.5.5. Construction Plant (CBMP, HMP, WMM, Crusher, etc.)**

Contractor has identified 5 Private Quarry (except Habbupura) for Procurement of Materials:

- |                    |           |                                 |
|--------------------|-----------|---------------------------------|
| ❖ HABUPURA Quarry  | GSB       | Valid till 31-09-2019 (Stopped) |
| ❖ RAMNAGAR Quarry  | GSB       | Valid till 14-05-2020           |
| ❖ KHAILAR Quarry   | AGGREGATE | Valid till 16-12-2018 (Stopped) |
| ❖ TIKAMGARH Quarry | AGGREGATE | Valid till 24-08-2017 (Stopped) |
| ❖ GARIYA Quarry    | AGGREGATE | Valid till 23-07-2020           |

Respectively there are 4 Crusher at each above Quarry sites for crushing the materials:

- |  |                                     |
|--|-------------------------------------|
| ❖ M/s Ramadevi Developers Pvt. Ltd.        | CFO Valid Till 31-07-2019 (Stopped) |
| ❖ M/s Tirupati Crusher                     | CFO Valid Till 31-12-2019           |
| ❖ M/s Supreme Granite (Unit-2-VSI Crusher) | CFO Valid Till 30-06-2020           |
| ❖ M/s Ganpati Stone Crusher                | CFO Valid Till 31-10-2019 (Stopped) |

**For the Detail Status Refer Consolidated Statutory Permit Enclosed as Table -1**

#### **3.1.5.6. Pollution Monitoring**

The contractor has conducted Pollution monitoring at the project site through Agency M/s Sishodia Research Laboratory Private Limited, Lucknow.

Environmental Pollution Monitoring for the last quarter of year 2019 is completed results are found within permissible limits.

#### **3.1.5.7. Traffic Safety**

Traffic Safety and Management Plan (TSMP) Rev-01 has been approved for implementation at project site during construction of project highway.

- TSMP received vide letter No. NKC/Site/2018-19/GC/126 Dated 18<sup>th</sup> August 2018.
- TSMP approved vide letter No. Egis India/RE UPG-02/UPCRNDP/140/ 2018 Dated 27-08-2018.

- Our field staff is regularly monitoring the safety arrangements of “Construction Zones”.
- Most of the highway works are completed.

PMC has suggested to the Contractor precautionary measures to be adhered on commenced of work at urban areas (Garautha, Gorsarai, Sheela, Shiya and Sultanpura).

#### **3.1.5.8. Workers Deployment and Safety Provisions**

The Contractor has been deploying the local labourers for their construction work for highway works. Few labourers for bituminous work employed from outstation.

It has been advised for keeping manpower record and arrangement for workers safety, health check-ups and training to their staff. Along with compliance of conditions of gender based violation records.

Status of EMP compliance is enclosed as below;

- **Table – 1 Statutory Requirements**
- **Table – 2 Worker camp Details**
- **Table – 3 Status of PPE's**
- **Table – 4 Status of Borrow Areas**
- **Table – 5 Status of Machinery and Oil Used**
- **Table – 6 Bitumen Storage/Disposal Site**
- **Table – 7 Accident Data**



**3.1.6 Photographs of Site Visits & Activities at Site:**



BC Laying at Ch. 118+750 (LHS)



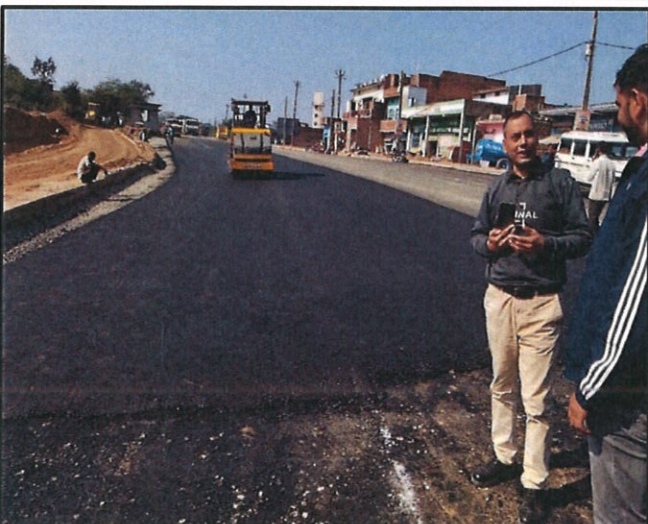
Installation of Cautionary Sign Board at Ch. 137+425 (RHS)



Tile Fixing of Footpath at Ch. 167+400



BC Laying at Ch. 118+900



BC Laying at Ch. 119+000





Drain Raft reinforcement under progress from Ch. 118+770 to Ch. 118+790 (RHS)



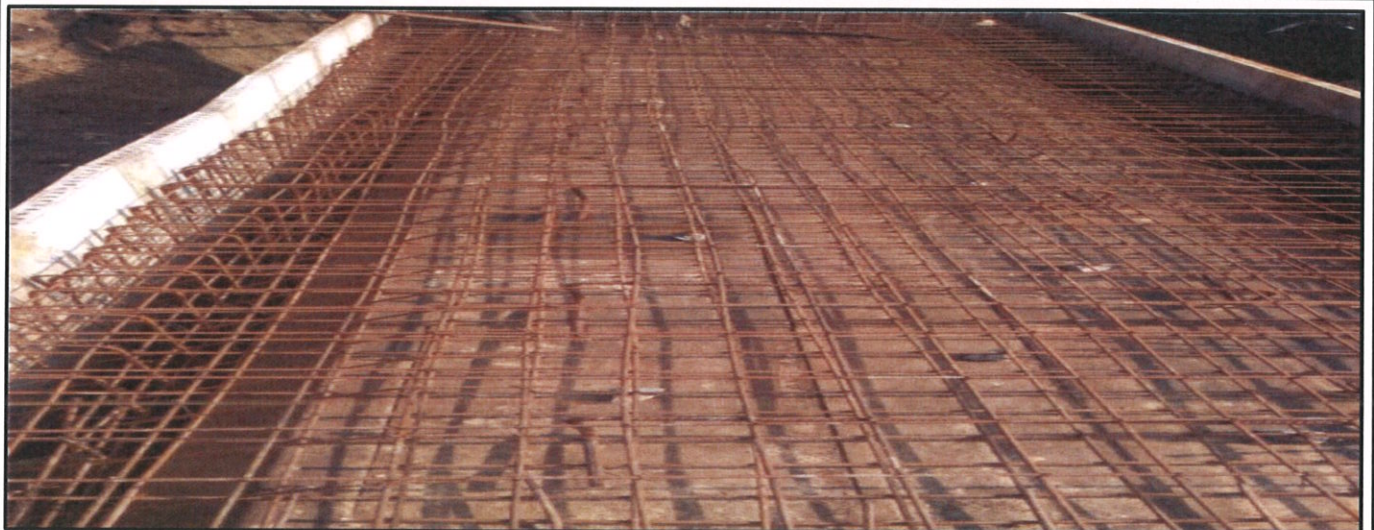
Installation of MBCB at Ch. 137+120(LHS)



Retaining Wall 1<sup>st</sup> Lift from Ch. 153+051 to Ch. 153+066



Retaining Wall 1<sup>st</sup> Lift of Minor Bridge at Ch. 153+087, A1 (LHS)



Reinforcement for Slab of Box Culvert at Ch. 131+247



### **3.2. CONTRACT PACKAGE UPG-01**

#### **3.2.1. Introduction**

Contract Package UPG-1, Up-gradation and Maintenance of Hamirpur – Rath Section of SH-42 under Engineering Procurement and Construction (EPC) Contract selected through International Competitive Bidding (ICB) which starts at Y junction-Km 59+000 of NH-86 at Hamirpur (Km 2+065) and ends near Rath town at Ambedkar Chowk (Km74+255) has been awarded to **M/s GHV (India) Pvt. Ltd.**, for a Contract Amount of **Rs.262,39,50,000/-** (Rupees Two hundred and Sixty two Crore Thirty nine Lakh Fifty thousand only).

The Contract Agreement number UPCRNDP/UPG/01/2018 was signed on 19<sup>th</sup> June 2019. Subsequently the joint site inspection for preparation of Memorandum containing the inventory of site has been performed by both the parties on 20<sup>th</sup> June 2019 and the **Appointed Date declared on 25<sup>th</sup> June 2019.**

The project completion has been divided in four phases from the Project Appointed Date 25<sup>th</sup> June 2019 consisting of as below:

- Milestone 1 (MS-I: 10% of Contract Price) on 150<sup>th</sup> day from Appointed Date
- Milestone 2 (MS-II: 35% of Contract Price) on 330<sup>th</sup> day from Appointed
- Milestone 3 (MS-III: 70% of Contract Price) on 510<sup>th</sup> day from Appointed Date and
- Schedule Completion (Completion of Project as per Agreement) on 730<sup>th</sup> day from Appointed Date

The work involves improving existing State Highway No. 42 with preparation of design –drawing including Geometric and Realignment to standard 2 Lane of 7m carriage way plus 1.5m paved shoulder and 1m soft shoulder and wider constructions in built-up areas including Bus bays and Truck lay bays.

This Report covers the following sections of the Consultants and Contractor's activities such as mobilization of consultant, appointment of Design Consultant, Proof Consultant, Safety Consultant, Identification of Construction Camp, Mobilisation of Plant and Machineries, Site Survey Works and Maintenance of existing carriageway.

#### **• DESIGN & DRAWINGS REVIEW STATUS:**

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

**Table- Milestones**

<b>Project Milestones</b>						
<b>Sl. No</b>	<b>Milestone</b>	<b>Percentage Works</b>	<b>Duration (Days)</b>	<b>Dates</b>		<b>(As per Concession Agreement Clause 12.1 and Schedule G)</b>
				<b>From</b>	<b>To</b>	
1	Milestone-01	10%	150	25-Jun-19	21-Nov-19	Achieved on 17 <sup>th</sup> December 2019

2	Mile Stone-02	35%	330	25-Jun-19	19-May-20	Under Process
3	Mile Stone-03	70%	510	25-Jun-19	15-Nov-20	Yet not started
4	Project Completion	100%	730	25-Jun-19	23-Jun-21	Yet not started
5.	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

The Milestone-1 could not be achieved by the Contractor on scheduled date of 21<sup>st</sup> November 2019 due to various force measures issues. The contractor has submitted the Extension of Time (EOT) request for 60 days for MS-1 (up to 20<sup>th</sup> January'2020) to Authority Engineer. The Authority Engineer has reviewed and further advised to the Contractor to substantiate with relevant documents and justifications of EOT claims to evaluate by the Engineer.

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, 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
<b>Total Project Length (Km)</b>		<b>72.785</b>					

**The Construction Works Include:**

- Survey, Investigation, Engineering and design of Road Works
- Reconstruction of the full design width of road.
- Construction of lined and unlined longitudinal drains, covered drains and footpaths in urban areas.
- New culverts, new bridges and rehabilitation of existing bridges/culverts and protective works.
- Provision of road signs and markings.
- Provision of traffic safety features - road furniture and other road safety appurtenances.
- Construction and maintenance of diversion roads and Traffic Safety during construction.
- Routine maintenance and maintenance during Defects Liability Period.
- Environmental protection measures and Social enhancement works/ land scaping works etc.

### **3.2.2 Construction Activities**

#### **3.2.2.1 Site Possession and Utilities**

Site Possession as 90.75% of Project Length has been handed over to the Contractor by Authority through Memorandum MOM dated 25-06-2019 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 Mobilisation 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

#### Design Team:

Appointment and Mobilization of Contractor's Design Team is as below:

Sl. No.	Designation	Name
1	Proof Consultant	M/s Antique Bulitech Pvt. Ltd.
2	Safety Consultant	M/s Khanna Goyal Designer LLP
3	Design Team	Mr. M. Ubendiran (Design Director), Mr. Alok Anandmani (Highway Designer), Mr. Pradip Kr. Pandey (Bridge Designer)

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. Zafer Iqbal
3	Project Coordinator	Mr. Virender Singh
4	Planning Manager	Mr. SumanKumar
5	Highway In-charge	Mr. Shoeb Bhatt
6	Structure Engineer	Mr. Aish Kumar
7	Material Engineer	Mr. Shri Hari Panda
8	Land Surveyor	Mr. Pintu Behra
9	Highway Design Engineer	Mr. Alok Anand mani
10	Environmental specialist	TBA

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

Contractor in addition of Key personnel has deployed some technical staff, non-technical staff and skilled workers at site.

### 3.2.3.3 Plant and Machinery

Contractor has established Construction Plants at Base Camp except Crusher Plant.

**Table-Construction Plant**

Sl. No.	Plants Mobilized	In No.	Location	Make & Capacity	Date of Commissioning
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 Drawing

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

#### 3.2.4.2 Work Programme & EOT

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

Milestone-I achieved on 17<sup>th</sup> December 2019 on delay of 26days from the scheduled completion date.

**Extension of Time (EOT):** Contractor's EOT is under Authority Engineers evaluation.

#### 3.2.4.3 Financial Progress

UPG-01 Hamirpur-Rath	Up to End of Previous Month		This Month		Cumulative	
	Achieved	Target	Achieved	Achieved	Target	Achieved
262.39						
Amount (Cr)	10.81	15.80	18.22	10.81	15.80	18.22
In % age	4%	6%	7%	4%	6%	7%

**Note:** - The Contractor has planned to submit the Stage Payment Statement (SPS-02) against the IPC-03 for the work done achieved during the month of December 2019. Authority Engineer will review & certify after scrutiny of SPS-02 for 75% of Payment as per Article 19.

#### 3.2.4.4 Stage Payment Statement (Interim Payment Certificate)

Till 31<sup>st</sup> December 2019 the Contractor has not submitted Interim Payment Statement against the work done amount executed during the month of December 2019.

#### 3.2.4.5 Physical Progress

**A. Road Works:** Progress of road works during the month is enclosed in **Appendix-F**.

**B. Structure Works:** Progress of Structure works during the month is enclosed in **Appendix-H**.

**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

Monthly Progress Review Meeting held on 19.12.2019 at Contractor's Camp.

#### 3.2.4.8 Key Issues

- **Site Obstruction:** Approx. 9.6Km BHS affected by Trees (2535); approx.10.5Km affected by Electric Poles (163Nos. Within 8m from PCL); Water Line – approx. 7.9Km); Structures (Building/HP/ Boundary) approx.67Nos. Within 8m from PCL.: Cumulative (considering overlapping of obstruction) affected length is approximate = 18.4Km still affected.
- **Stone Quarry for Aggregate:** A to Z Crusher (Utia Quarry - Akhay Crusher) – Approved on Contractor's undertaking that the renewal copy of Quarry deed & Crusher's (UPPCB-CFO) and MM-11 slips will be submitted before Stage Payment-2 (IPC-03).
- Insurance Policy No.32123941 Valid until: 31-07-2021 subjected to payment of scheduled Quarterly Premium (last Due date was 2<sup>nd</sup> November 2019) – IFFCO-TOKIO General Insurance Co. Ltd. added the Authority/ Client's name – Revised copy of Insurance Received vide Lr.No.177 dt.26<sup>th</sup> Sept, 2019 (According to the Contractor Premium was paid on 20.11.2019).
- **Key Professionals Deployment:** Environmental Officer yet to be appointed.



- **Statutory Permits (UPPCB's - CTE & CTO for Plants):** Applied For (A/F) to established HMP(160TPH), WMM (200TPH) & RMC(90Cum) Plants – No documents received from GHV – present status not known to AE/Client.
- **SEIAA Permit for Borrow Areas** - Applied for (A/F) - No copy or documents for any Borrow area received from GHV.
- **Labor License** – Received for 100 laborers License Number UPCLAL41000201 dt.03.09.2019 valid till 02.09.2020.

#### **3.2.4.9 Weather Report**

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

#### **3.2.5 Environment Management Report**

##### **3.2.5.1 Project Specific Environmental Management Plan (EMP)**

Project-specific Environmental Management Plan (EMP) Rev. 02 Approved by Authority Engineer vide letter No. Egis India/RE UPG-01/UPCRNDP/28/2019 Dated 9<sup>th</sup> August 2019.

##### **3.2.5.2 Statutory Compliance**

The status of the Contractors' permit for Construction plants, Labour license, Quarry permits etc. are submitted. However, some of the requisite permits are still under process by the contractor.

###### **Status of Insurance:**

- ❖ WC Policy Received
- ❖ CAR Policy Valid till 01-11-2019 (further renewal copy not received)
- ❖ Public Liability Valid till 01-11-2019 (further renewal copy not received)

###### **Permits Obtained for Plants (UPPCB-CTE/CTO):**

- ❖ RMC Plants-1 Yet to be submitted
- ❖ RMC Plants-2 Yet to be submitted
- ❖ WMM Plants Yet to be submitted
- ❖ HMP Plants Yet to be submitted
- ❖ DG Sets Yet to be submitted

**Consolidated Statutory Permit Status Represented in Table -1**

##### **3.2.5.3 Pollution Compliance**

The Contractor has already completed the base line pollution monitoring for 1<sup>st</sup> Working quarter. Results are awaited.

### 3.2.5.4 Construction Camp

Contractor has acquired private land at Ch.57+000LHS for the establishment of base Camp which includes Base Camp Office, Central Laboratory, Mechanical Workshop, Staff and Worker's accommodation, Mess and Construction Plants.

**The Details of Construction Camp Establishment Shown in Table– 2.**

### 3.2.5.5 Borrow Area Management

Contractor has identified 19 Nos. of Borrow Areas along the project corridor between Ch.2+065 to Ch.74+255. The soil sampling and testing is under progress for suitability of the soil to use for embankment and subgrade construction. The status is as below:

Total No. of Borrow Areas Identified	No. of Borrow Areas Approved by Authority Engineer	No. of Borrow Areas				Rehabilitated
		Exhausted	Ongoing	Yet to be Started	Balance in Opened BA for use	
19	16	1	11	0	4	NIL

### 3.2.5.6 Construction Plant

The Construction Plant and Machinery details are summarized in **Consolidated Statutory Permit Enclosed as Table -1**

### 3.2.5.7 Traffic Safety

Traffic Safety and Management Plan (TSMP) - Rev-01 submitted by the contractor vide letter no. GHV/Site/SH42/Rath/197 Dated 14th October 2019 reviewed and found in Order by Authority Engineer vide letter no. Egis India/RE UPG-01/UPCRNDP/120/2019 Dated 04th December 2019.

Authority Engineer's Safety Engineer regularly monitoring and inspecting the respective work zones and the safety arrangements as provided in under development "Construction Zones".

### 3.2.5.8 Workers Deployment and Safety Provisions

The Contractor has been deploying the local laborers for their initial survey and site investigation/ construction work for highway works.

It has been advised to submit the Labor License and for keeping manpower record and arrangement for workers safety, health check-ups and training to their staff. Along with compliance of conditions of gender based violation records.

**Status of EMP compliance shall be reported in following manner:**

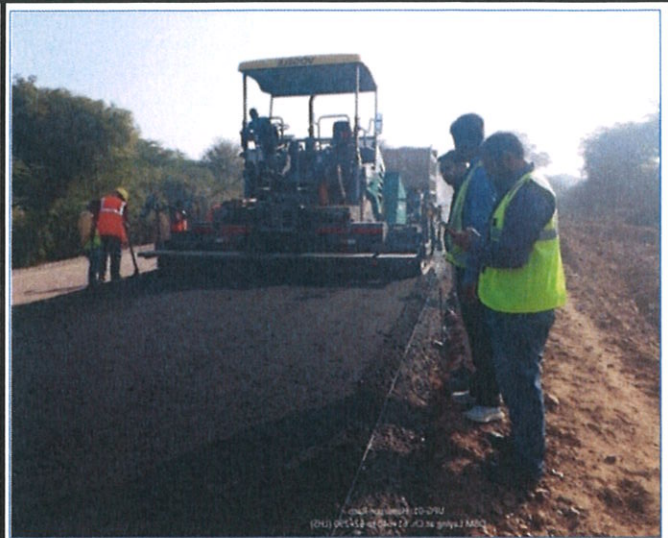
- Table – 1 Source Approval
- Table – 2 HSE/Environment Reports



### 3.2.6 Photographs of Construction Activities at Site:



Site Visit by Authority & Authority Engineers on 19.12.2019



DBM Laying at Ch. 61+640 to 62+290(LHS)



WMM Top Layer at Ch. 55+100 to 55+620 (LHS)



FDD Testing on Subgrade Top Layer



HMP at Ch. 57+000 (LHS)



HPC Pipe Laying at Ch. 47+020



### **3.3. CONTRACT PACKAGE UPG-03**

#### **3.3.1 Introduction**

Contract Package UPG-3, Up-gradation and Maintenance of Gola – Shahjahanpur Section of SH-93 under Engineering Procurement and Construction (EPC) Contract selected through International Competitive Bidding (ICB) from Km 1+280 to Km 58+580 has been awarded to **M/s APCO Infratech Pvt. Ltd.**, for a Contract Amount of **Rs.356,90,00,000/-** (Rupees Three Hundred Fifty Six Crore Ninety Lakh only).

The Contract Agreement number 116/UPCRNDP/2019-20 was signed on 26<sup>th</sup> June 2019. Subsequently the joint site inspection for preparation of Memorandum containing the inventory of site has been performed by both the parties in the 3<sup>rd</sup> week of July 2019 and the **Appointed Date declared on 11.11.2019.**

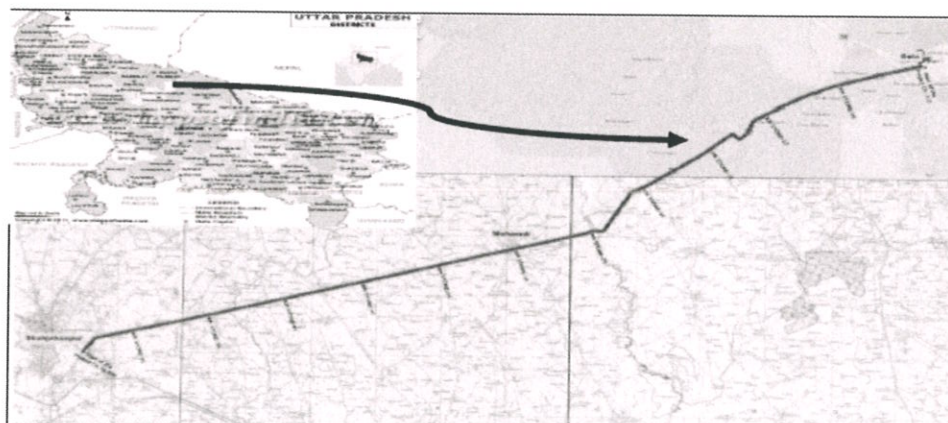
The Project works are Upgrading shall include 2 lanes with paved shoulder in the stretch from Design Chainage (1+280 to 59+380), rehabilitation/reconstruction of existing pavement, footpath and covered drain in the built up areas, new construction/reconstruction widening/rehabilitation of bridge and culverts, installation of traffic control and safety devices, etc. From design Chainage 58+470 to 59+035 is 4 lane ROB approach, shall be exclude from scope of work.

<i>SI. NO.</i>	<i>CONTRACT PACKAGE</i>	<i>LENGTH (KM)</i>	<i>COMPLETION PERIOD (As per Contract)</i>	<i>COMMENCEMENT DATE (As per Contract)</i>	<i>SCHEDULED COMPLETION DATE (As per Contract)</i>
1.	UPCRNDP/UPG/03/2014 Gola-Shahjhanpur Road (SH-93)	57.535	24 Months	11 <sup>th</sup> November 2019	09 <sup>th</sup> November 2021

The Cumulative Physical Progress achieved is **1.27%** and Financial Progress is **0.78%**.

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

#### **Location Map of the Project:**





The completion of works has been divided in 4 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:

Sl. No.	Milestone	Percentage Works	Duration (Days)	Completion Date	(As per Concession Agreement Cl. 12.1 and Schedule-G)
1	Mile Stone-01	10%	150 <sup>th</sup>	08 <sup>th</sup> -April-2020	Contractor shall have commenced construction of Project Highway and submitted to the Authority duly and validly prepared Stage payment statements for an amount not less than 10% (Ten percent) of the Contract Price. - <b>(Under Process)</b>
2	Mile Stone-02	35%	330 <sup>th</sup>	05 <sup>th</sup> -Oct-2020	Contractor shall have continued with construction of Project Highway and submitted to the Authority duly and validly prepared Stage payment statements for an amount not less than 35% (Thirty-Five percent) of the Contract Price. – <b>(Yet Not Started)</b>
3	Mile Stone-03	70%	530 <sup>th</sup>	03 <sup>rd</sup> -April-2021	Contractor shall have continued with construction of Project Highway and submitted to the Authority duly and validly prepared Stage payment statements for an amount not less than 70% (Seventy percent) of the Contract Price. – <b>(Yet Not Started)</b>
4	Mile Stone-04	100%	730 <sup>th</sup>	09 <sup>th</sup> -Nov-2021	Contractor shall have completed construction in accordance with the Contract Agreement – <b>(Yet Not Started)</b>

**Refer Annexure-A- Contract Data**

**Description of Works**

The works are being executed under EPC agreement.

**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	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
<b>Total Project Length (Km)</b>		57.535					



# PROGRAM MANAGEMENT CONSULTANCY SERVICES FOR UTTAR PRADESH CORE ROAD NETWORK DEVELOPMENT PROJECT



<b>Package Summary:</b>	
<b>Contract Bond No.</b>	116/UPCNDP/2019-20 Dated 26.06.2019
<b>Project Name</b>	Engineering Procurement and Construction Contract for Up-gradation and Maintenance Gola-Shahajahanpur Section of SH-93 from Km 1.280 to Km 58.580 in the state of Uttar Pradesh
<b>Package length</b>	57.535 Km
<b>Scheme/ Phase</b>	Phase-I
<b>Mode of the Execution(BOT Toll/ BOT Annuity/ EPC/ HAM/ Item Rate/ Others)</b>	EPC
<b>No. of Major Bridges</b>	01 ( 01-Reconstruction)
<b>No. of Minor Bridges</b>	12 (4-Reconstruction,3-Widening & 5-Retained With Repair)
<b>No. of Box Culverts</b>	43 (22-Reconstruction, 13-Widening & 8-Additional New Culvert )
<b>No. of Arch Culverts</b>	03- (Retained With Repair)
<b>No. of Slab Culverts</b>	20 (13-Widening, 07- With Repair)
<b>No. of Pipe Culverts</b>	18 (13-Reconstruction, 01-Widening & 04-Additional New Culvert )
<b>No. of Junctions</b>	178 (14-Major Junctions& 164-Minor Junctions)
<b>Drains in Km</b>	16.00 Km
<b>No. of Bus bays/Bus Shelters</b>	26
<b>Truck layby</b>	02
<b>Contract Summary:</b>	
<b>Employer:</b>	PWD, UP (World Bank)
<b>Representative of Employer:</b>	EGIS INDIA Consulting Engineers Pvt. Ltd.
<b>Contractor:</b>	M/s APCO Infratech Private Limited
<b>Commencement Date:</b>	11.11.2019
<b>Completion Date:</b>	09.11.2021
<b>Time Extension:</b>	NA

<b>Construction Period:</b>	24 months
<b>Defects Liability Period</b>	5 Years from the date of Provisional Certificate
<b>Maintenance of Work</b>	The Maintenance Period of 5 years commencing from the date of Provisional Certificate.
<b>Contract Value (IRS/other Currency):</b>	356,90,00,000.00

**The Construction Works Include:**

- Initial Investigation & Survey of Existing Road, Preparation of Design & Drawing
- Reconstruction of the full design width of road.
- Geometric realignments wherever necessary.
- Construction of lined and unlined longitudinal drains, covered drains and footpaths in urban areas.
- New culverts, new bridges and rehabilitation of existing bridges/culverts and protective works.
- Provision of road signs and markings.
- Provision of traffic safety features - road furniture and other road safety appurtenances.
- Construction and maintenance of diversion roads and Traffic Safety during construction.
- Routine maintenance and maintenance during Defects Liability Period.
- Environmental protection measures and Social enhancement works/landscaping works etc.

**3.3. 2Construction Activities**

**3.3.2.1 Site Possession and Utilities**

Site Possession as 90.00% of Project Length has been handed over to the Contractor by Authority through letter 2044/EAP/WB/UPG-03/2018 on dated 11-11-2019 for commencement of work.

**Milestone-1**

**Under Progress.**

**3.3.3 Mobilisation of Contractor**

**3.3.3.1 Base Camp Establishment**

Contractor has established the Base Camp Office at Ch.39+600 LHS, Village-Kheriyaj at Lakhanpur along with 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 Kheriyaj at 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**

S.L.	Designation	Name	Date of Joining	Remarks
1	Project Manager	Mr. Sant Lal Maurya	01-04-2019	
2	Highway Engineer	Mr. Loknath Pathrao	11-11-2019	
3	Material Engineer	Mr. Sharad Yadav	02-05-2019	
4	Quantity Surveyor	Mr. AmarKant Jha	02-12-2019	
5	Land Surveyor	Mr. Narendra Yadav	20-04-2019	
6	Mechanical Equipment Maintenance Engineer	Mr. Rami Reddy Lv Shiva	30-09-2019	
7	Environmental cum Road Safety Manager	Mr. Suhanta Kumar Acharya	28-11-2019	
8	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 at site. List of manpower and organisation chart is enclosed.

**3.3.3.3 Plant and Machinery**

Contractor has established construction plants at base camp location Ch. 36+900 (LHS).

**Table- Construction Plant**

Sl. No.	Plant Mobilized	No.	Location	Make & Capacity	Remarks
1	Batching Plant	01	Ch.39+600LHS	30Cum/Hr.	-

2	Wet Mix Plant	01	Ch.39+600 RHS	160 TPH	-
3	Hot Mix Plant	01	Ch.39+600 RHS	200 TPH	-
4	Crushers	00	Not Established		

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

### 3.3.3.4 Material

Contractor procuring materials like Cement, Steel, 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 Design and Drawing Status

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

#### 3.3.4.2 Work Programme

Contractor's Work Programme received vide letter No. APCO/WB-UPPWD/EGIS/ST86 Dated 14.12.2019 and the same reviewed with comments by the Resident Engineer vide Letter No. Egis India/RE UPG-03/UPCRNDP /066/2019 Dated 17.12.2019. Revised Work Program awaited from the Contractor.

#### 3.3.4.3 Financial Progress

Financial Progress achieved 0.78% of Contract Price, however Contractor has not achieved the progress to qualify the Payment Standards.

#### 3.3.4.4 Stage Payment Statement (Interim Payment Certificate)

NIL

#### 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	0.00	8.05	0.00	4.025	4.025	7.00



# PROGRAM MANAGEMENT CONSULTANCY SERVICES FOR UTTAR PRADESH CORE ROAD NETWORK DEVELOPMENT PROJECT



2	GSB	Km	57.535	0.00	3.02	0.00	01.51	01.51	4.00
3	WMM 1st	Km	57.535	0.00	0.00	0.00	0.00	0.00	0.00
4	WMM Top	Km	57.535	0.00	0.00	0.00	0.00	0.00	0.00
5	DBM Top	Km	57.535	0.00	0.00	0.00	0.00	0.00	0.00
6	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	Unit	Scope	Completed Up to Previous Month	Completed During this month	Cumulative Completed	Under Progress	Progress in %
1	Major Bridge	No.	01	0.00	0.00	0.00	0.00	0.00
2	Minor Bridge	No.	12	0.00	0.00	0.00	0.00	0.00
3	Box Culvert	No.	43	0.00	0.00	0.00	10.00	0.00
4	Slab Culvert	No.	20	0.00	0.00	0.00	0.00	0.00
5	Pipe Culvert	No.	18	0.00	2.00	2.00	11.00	11.11
6	Arch culvert	No.	03	0.00	0.00	0.00	0.00	0.00

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

#### Quality Control Test Work: Progress of Quality Control Test

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 Meeting & Site Inspection**

There was a site visit & progress review meeting under chairmanship of Superintendent Engineer, World Bank on dated 24.12.2019 at Contractor base camp.

### **3.3.4.8 Key and Potential Issues**

- (i) Revised Work Programme submission is still pending from the Contractor's end.
- (ii) Structures Revised Drawing submissions are pending from the Contractor's end.
- (iii) Monthly Progress Report submission for November-2019 is pending from the Contractor's end.

### **3.3.4.9 Weather Report**

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

## **3.3.5 Environment Management Report**

### **3.3.5.1 Project Specific Environment Management Plan (EMP)**

Project Specific Environmental Management Plan (EMP) Rev. 01 Concurred by the Authority Engineer vide Letter No. Egis India/RE UPG-03/UPCRNDP/513/2019 Dated 09.09.2019.

### **3.3.5.2 Statutory Compliance**

Contractor is in process to obtain the essential Insurance and Permits as per Contract Agreement with respect to commencement of their works to complete the Project works.

#### **Status of Insurance:**

- ❖ WC Policy Valid till 03-04-2020
- ❖ CAR Policy Contractor Not Submitted
- ❖ Public Liability Yet not received from the Contractor

WC Policy and CAR Policy documents received vide APCO Letter No. APCO/WB-UPPWD/EGIS/ST/102 Dated 27<sup>th</sup> December 2019.

#### **Permits Obtained for Plants:**

Consent to Establish (CTO) the construction plants such as WMM, CBMP and HMP has been granted by the State Pollution Control Board ref. APCO Letter No. APCO/WB-UPPWD/EGIS/ST/102 Dated 27<sup>th</sup> December 2019. The application for Consent to Operate (CTO) is applied with UP-PCB.

#### **Consolidated Statutory Permit Status Represented in Table -1**



### 3.3.5.3 Construction Camp

Contractor has acquired private land at Ch.39+600 LHS for the establishment of base camp which includes Base Camp office, Central Laboratory, Mechanical Workshop, Staff and Worker's accommodation, Mess and Construction plants. **The Details of Construction Camp Establishment Shown in Table– 2.**

### 3.3.5.4 Borrow Area Management

Contractor's Borrow Areas Management along the project corridor for embankment construction is as below:

➤ Total Identified BA	: 07
➤ Approved BA	: 06
➤ Under Operation	: 04
➤ Yet to be started	: 02
➤ Exhausted BA	: 00
➤ Rehabilitated BA	: 00
➤ Rehabilitation Balance	: 00

### 3.3.5.5 Construction Plant (CBMP, HMP, WMM, Crusher, etc.)

Sl.No.	Materials	Agencies/Place	Proposed Details	Present Status
1	Coarse Aggregates	40MM,20MM&10MM size Aggregates – Ballaia-Gawlior	APCO/WB-UPPWD/EGIS/ST/53 Dated-12 Nov 2019	Approved Vide Letter No Egis India/RE UPG-03/UPCRNDP/026/2019 Dated 15 <sup>th</sup> Nov 2019
2	Fine Aggregates	Crusher Dust – Billaua-Gwalior	APCO/WB-UPPWD/EGIS/ST/53 Dated-12 Nov 2019	Approved Vide Letter No Egis India/RE UPG-03/UPCRNDP/026/2019 Dated 15 <sup>th</sup> Nov 2019
		Coarse Sand-Betwa River	APCO/WB-UPPWD/EGIS/ST/53 Dated-12 Nov 2019	Approved Vide Letter No Egis India/RE UPG-03/UPCRNDP/026/2019 Dated 15 <sup>th</sup> Nov 2019

**For the Detail Status Refer Consolidated Statutory Permit Enclosed as Table -1**

### 3.3.5.6 Pollution Monitoring

Authority Engineer has advised to the Contractor for identification and submission of NABL approved environmental Pollution Monitoring Agency ref. Egis India/RE UPG-03/UPCRNDP/597/2019/ Dated 20.11.2019.

Proposal of NABL approved laboratory to carry out the periodic Environmental Pollution Monitoring is pending from the Contractor.

### **3.3.5.7 Traffic Management and Worker's Safety**

Traffic Safety and Management Plan (TSMP) Rev-02 approved for implementation at project site during construction of project highway.

- TSMP received vide letter No. APCO/WB-UPPWD/EGIS/ST/59 Dated 19<sup>th</sup> November 2019.
- Our field staff is regularly monitoring the safety arrangements of “Construction Zones”.
- Workers Safety required to be enhanced at structural, Highway's work sites.
- Diversion plan with appropriate safety arrangements of “Construction Zones” shall be followed.
- The site should be with provisions of Caution Boards, Safety Devices/Delineators, PPE's.
- All signs should be retro-reflectors notified to the Contractor.

Authority Engineer suggested to attending the site with provisions of Caution Boards, Safety Devices/Delineators, PPE's and Retro-Reflectors notified to the Contractor. Contractor's compliance is under progress.

### **3.3.5.8 Social and Cultural Property Resources (CPR)**

Jointly verified Rehabilitation of Cultural Property (CPRs) List issued to the Contractor vide Authority Engineer Letter No. Egis India/UPCRNDP/UPG/03/614/2019 Dated 29.11.2019 and advised to co-ordinate/assist the NGO/Client/AE for finalizing the proposed structural drawings' details and relocation sites.

### **3.3.5.9 Workers Deployment and Safety Provisions**

The Contractor has been deploying the local labourers for their construction work for highway works.

It has been advised for keeping manpower record and arrangement for worker's safety, health check-ups and training to their staff. Along with compliance of conditions of gender based violation records. Status of EMP compliance is enclosed as below;

- **Table – 1 Statutory Requirements**
- **Table – 2 Worker camp Details**
- **Table – 3 Status of PPE's**
- **Table – 4 Status of Borrow Areas**
- **Table – 5 Status of Machinery and Oil Used**
- **Table – 6 Bitumen Storage/Disposal Site**
- **Table – 7 Accident Data**



### 3.3.6 Photographs of Construction Activities at Site:



Site Visit at Apco Base Camp 24.12.2019



Site Visit at Apco Base Camp 24.12.2019



FDD Checking GSB TOP Km22+200 LHS



FDD Checking GSB TOP Km 39+000 LHS





CBR Casting of BA-15 In Lab



Diversion for Culvert



 <p>2019/12/7 11:56</p>	
Slump Cone test at 24+376 Pipe Culvert	Pipe Laying at 26+443 Pipe Culvert

### 3.4. CONTRACT PACKAGE UPG-04

#### 3.4.1 Introduction

Contract Package UPG-4, Up-gradation and Maintenance of Badaun – Bilsi - Bijnaour Section of SH-51 under Engineering Procurement and Construction (EPC) Contract selected through International Competitive Bidding (ICB) from Km 58+400 to Km 137+820 has been awarded to **M/s GAWAR Construction Ltd.**, for a Contract Amount of **Rs.334,00,00,080/-** (Rupees Three hundred Thirty Four Crore Eighty only).

The Contract Agreement Number 117/UPCRNDP/2019-20 was signed on 5<sup>th</sup> July 2019 and Appointed Date declared as 04.11.2019.

This Monthly Progress Report No. 02 covers the Month of December-2019 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.

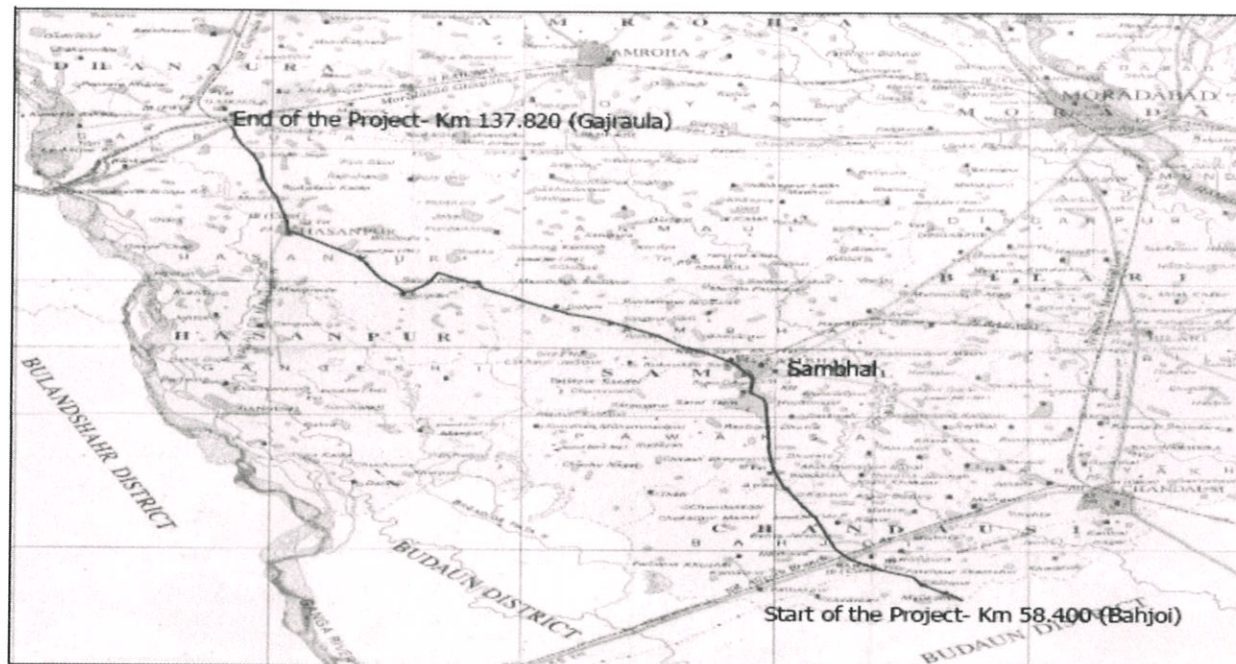
Sl. No.	Contract Package	Length (Km)	Completion Period (As per Contract)	Commencement Date (As per Contract)	Scheduled Completion Date (As per Contract)
1.	ICB No. UPCRNDP/UPG/04/2018 Badaun-Bilsi-Bijnaour Road (SH-51)	79.125	24 Months	4 <sup>th</sup> November 2019	2 <sup>nd</sup> November 2021

The Cumulative Physical Progress achieved is 0.00% and Financial Progress is 0.00%.



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:



**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	03/04/2020	Under Process
M-2	Stage Payments Statements for an amount not less than 35% of the Contract Price.	330	04/11/2019	03/10/2020	Yet not started
M-3	Stage Payments Statements for an amount not less than 70% of the Contract Price	510	04/11/2019	03/04/2021	Yet not started
M-4	Scheduled Completion of Project in all respect.	730	04/11/2019	02/11/2021	Yet not started
DLP & Maintenance	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 ICB Conditions of Contract. The work involves improvement of State Highways including geometric improvements and realignments to standard 2-lane carriageway, 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
<b>Total Project Length (Km)</b>		79.125					

### The Construction Works Include:

- Survey, Investigation, Engineering and design of Road Works
- Widening/Reconstruction of the full design width of road.
- Geometric realignments wherever necessary.
- Construction of Covered RCC drains and footpaths in urban areas.
- New culverts, new bridges and rehabilitation of existing bridges/culverts and protective works.
- Provision of road signs and markings.
- Provision of traffic safety features - road furniture and other road safety appurtenances.
- Construction and maintenance of diversion roads and Traffic Safety during construction.
- Routine maintenance and maintenance during Defects Liability Period.
- Environmental protection measures and Social enhancement works/landscaping works etc.



### 3.4.2 Construction Activities

#### 3.4.2.1 Site Possession and Utilities

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

##### Milestone-1

- ❖ Contractor has started site Survey, investigation and submitting the design – drawings to the Authority Engineer.
- ❖ Pre-mobilization works such as mobilization of Staff, Plant and machineries and camp establishment is completed.
- ❖ Site clearance and highway & structural works are under progress.

##### Table: Status of Site Possession

More than 90% encumbrance free land handed over to the Contractor.

Contractor has been advised to submit the status of balance utilities details need to be shifted from ROW/COI such as water lines, telephone cables and associated accessories and Tree cutting.

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

### 3.4.3 Mobilisation 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  
and Dist-Shambhal  
(UP)-244302

#### 3.4.3.2 Human Resources

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. Kaushal Kishor Sharma	
3	Dy. Project Manager	Mr. Bunty 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	To be Appointed	
10	Bridge Engineer	Mr. Farhan Baqi	

Contractor in addition of Key personals 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 Construction Plants at Base Camp Location at Ch. 102+200 (LHS) & Concrete Batching Plant at Ch.95+740 (RHS).

**Table- Construction Plants**

Sl. No.	Plants Mobilized	In 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	June-19
3	Hot Mix Plant	01	Ch.102+200 LHS	Apollo 200 TPH	July-19
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

Source approval of materials like Cement, Steel, Aggregate and Sand has approved. Details are presented in **Annexure-D Material Procurement Statement**

## 3.4.4 Work Progress

### 3.4.4.1 Design and Drawing Status

A detail of design during this month is 2 Nos. Contractor during this month has submitted 2 numbers of Design Report Pavement Design & Plan & Profile.

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



### 3.4.4.2 Work Programme & EOT

Work Programme re-submitted by the Contractor vide letter No. GCL/camp/SH-51/WB/2019/068 Dated 26.12.2019.

EOT- NIL

### 3.4.4.3 Financial Progress

Considering the Contract awarded cost of 334 Crores, Progress up to 31<sup>st</sup> December 2019 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.)	Nil	Nil	Nil	Nil	Nil	Nil
In % age	Nil	Nil	Nil	Nil	Nil	Nil

**Note:** - Financial Progress for the month of December-2019 is NIL.

### 3.4.4.4 Stage Payment Statement (Interim Payment Certificate)

The Contractor has started the work from the appointed date 4<sup>th</sup> November 2019. Contractor has not achieved the requisite progress to submit the SPS/IPC for the month of December-2019 to Authority Engineer.

### 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	C & G	Km	79.125	0.00	8.25	9.2	8.725	8.725	11.026%
2	Subgrade Top	Km	79.125	0.00	0.00	0.00	0.00	0.00	0.00%
3	GSB	Km	79.125	0.00	0.00	0.00	0.00	0.00	0.00%
4	WMM 1st	Km	79.125	0.00	0.00	0.00	0.00	0.00	0.00%

5	WMM Top	Km	79.125	0.00	0.00	0.00	0.00	0.00	0.00%
6	DBM	Km	79.125	0.00	0.00	0.00	0.00	0.00	0.00%
7	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	Unit	Scope	Completed Up to Previous Month	Completed During this month	Cumulative Completed	Under Progress	Progress in %
1	Minor Bridge	No.	4	0	0	0	0	00.00%
2	Box Culvert	No.	12	0	0	0	0	00.00%
3	Slab Culvert	No.	23	0	0	0	0	00.00%
4	Pipe Culvert	No.	73	0	0	0	14	00.00%

**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 carried out are presented in **Annexure - L**,

**3.4.4.7 Meeting & Site Inspection**

NIL

**3.4.4.8 Key Issues**

- Maintenance of Existing Carriageway.



- ii. EMP-Enhancement works are still pending.
- iii. CTE & CTO of Plants not submitted.
- iv. Design & Drawing approval of Minor Bridges

#### **3.4.4.9 Weather Report**

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

#### **3.4.5 Environment Management Report**

- 3.4.5.1** Project Specific Environment Management Plan (EMP-Rev.00) submitted by the Contractor vide letter No. GCL/camp/SH-51/WB/19-20/063 Dated 23.12.2019 and the same reviewed and commented by AE vide letter No. Egis India/UPCRND/UPG-04/662/2019 Dated 31.12.2019.

Revised Contract-Environmental Management Plan (C-ESMP-Rev.01) is awaited from the Contractor.

#### **3.4.5.2 Statutory Compliance**

Contractor has yet to obtain all necessary Insurance and Permits as per Contract Agreement and required to complete the Project works.

##### **Status of Insurance:**

- ❖ WC Policy Yet to be submitted
- ❖ CAR Policy Yet to be submitted
- ❖ Public Liability Yet to be submitted

##### **Permits Obtained for Plants (UPPCB-CTE/CTO):**

- ❖ RMC Plants Yet to be submitted
- ❖ WMM Plants Yet to be submitted
- ❖ HMP Plants Yet to be submitted
- ❖ DG Sets Yet to be submitted

##### **Consolidated Statutory Permit Status Represented in Table -1**

#### **3.4.5.3 Construction Camp**

Contractor has acquired private land at Ch.102+200LHS for the establishment of base camp which includes Base Camp office, Central Laboratory, Mechanical Workshop, Staff and Worker's accommodation, Mess and Construction plants. **The Details of Construction Camp Establishment Shown in Table- 2.**

#### **3.4.5.4 Borrow Area Management**

Contractor's Borrow Areas Management along the project corridor for embankment construction is as below:

❖ Total Identified BA	: 02
❖ Approved BA	: 02
❖ Under Operation	: 02
❖ Yet to be started	: 00
❖ Exhausted BA	: 00
❖ Rehabilitated BA	: 00
❖ Rehabilitation Balance	: 00

**EMP Details of Individual Borrow Areas are depicted in Table – 4**

#### **3.4.5.5 Construction Plant (CBMP, HMP, WMM and Crusher etc.)**

Private Quarry has yet to approve.

**For the Detail Status Refer Consolidated Statutory Permit Enclosed as Table -1**

#### **3.4.5.6 Pollution Monitoring**

Contractor has to propose the Monitoring Agency and submit the Plan for Scheduled Environmental Pollution Monitoring as per C-ESMP.

#### **3.4.5.7 Traffic Safety**

Traffic Safety and Management Plan (TSMP) Rev-00 yet not received from the Contractor.

#### **3.4.5.8 Workers Deployment and Safety Provisions**

The Contractor has been deploying the local labourers for their initial survey and site investigation/ construction work for highway works.

It has been advised to submit the Labour License and for keeping manpower record and arrangement for workers safety, health check-ups and training to their staff. Along with compliance of conditions of gender based violation records.

Status of EMP compliance shall be reported in following manner:

- Table – 1 Consolidated Environmental Management Checklist
- Table – 2 Statutory Requirements



- Table – 3 Worker's camp Details
- Table – 4 Status of Top Soil/ Unserviceable Material Management
- Table – 5 Status of Borrow Areas
- Table – 6 Status of Quarry Management
- Table – 7 Bitumen Storage/Disposal Site
- Table – 8 Accident Data
- Table – 9 Man Days
- Table – 10 Safety Audit

### 3.4.6 Photographs of Site Visits & Activities at Site:



Head Wall Final Lift Completed @ 96+4340 RHS for Pipe Culvert



Sub Grade top Ch. 96+750 To Ch. 97+000 RHS



Head Wall 1st Lift Concreting @ 99+069 LHS for Pipe Culvert



Sub Grade top Ch. 96+200. Ch. 96+400 (RHS)



OGL FDD Checking @ 100+150 LHS



OGL Bed Preparation @ 99+500 LHS