

Chhapra – Hajipur Section (NH-19) Annuity Road Project

Phase II (During Construction)

Monthly Progress Report Ending

June 2021

Submitted by:

FP Project Management

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Commercial in Confidence

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CHHAPRA - HAJIPUR SECTION (NH-19)

ANNUITY ROAD PROJECT

Monthly Progress Report Period Ending June 2021

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1. ABBREVIATIONS

Abbreviations	Meaning
3A / 3D	Clause of Land Acquisition
AASHTO	American Association of State Highway and Transport Officials
Abt.	Abutment
BC	Bituminous Concrete
BM	Bituminous Macadam
BOT	Built Operate and Transfer
CBR	California Bearing Ratio Test
C&G	Clearing and Grubbing
Ch	Chainage
Cm	Centimeter
CRS	Commissioner of Railway Safety
C/s	Cross-section
cum	Cubic Meter
CW	Carriageway
DBM	Dense Bituminous Macadam
DFBOT	Design, Finance, Build, Operate and Transfer
DFO	District Forest Officer
Dia.	Diameter
DPR	Detailed Project Report
Emb	Embankment
EPC	Engineering Procurement Construction
Exc.	Excavation
FST	Final Setting Time
GFC	Good for Construction
GSB	Granular Sub Base
HP	Hume Pipe
Ht	Height
Hyd.	Hydraulic
IC	Independent Consultant
IS	Indian Standard
IST	Initial Setting Time
JV	Joint Venture
Kg	Kilogram
Km	Kilometer
LHS	Left Hand Side
LL	Liquid Limit
Ltr	Liter
m	Meter
M	Mix
M/s.	Messer
MB	Minor Bridge
MDD	Maximum Dry Density
Misc.	Miscellaneous
mm	Millimeter
MJB	Major Bridge
MNB	Minor Bridge
MORTH	Ministry of Road Transport & Highways
MOST	Minister of Surface Transport
NA	Not Applicable

Abbreviations	Meaning
NH	National Highway
NHAI	National Highway Authority of India
NHDP	National Highway Development Program
NOC	No Objection Certificate
Nos.	Numbers
⁰ C	Centigrade
OGL	Original Ground Level
OMC	Optimum Moisture Content
PCC	Plain Cement Concrete
PI	Plastic Index
PD	Project Director
PHE	Public Health and Environment
PL	Plastic Limit
PSC	Pre-stressed Concrete
PTR	Pneumatic Tire Roller
PUP	Pedestrian Underpass
Pvt. Ltd.	Private Limited
QC	Quality Control
RBI	Reserve Bank of India
RE	Reinforced Earth
RCC	Reinforced Cement Concrete
RHS	Right Hand Side
ROB	Road over Bridge / Rail over Bridge
ROW	Right Of Way
₹	Rupees
Sec	Section
SG	Sub-Grade
T	Tonne
TMT	Thermo Mechanically Treated
TBM	Temporary Bench Mark
TPH	Tonnes Per Hour
VUP	Vehicular Underpass
W	Watt
WMM	Wet Mix Macadam

2. SALIENT FEATURES OF THE PROJECT

Name of the Project	– Four-Laning of Chhapra–Hajipur section of NH–19 from Km. 143+200 to Km. 207+200 in the State of Bihar under NHDP - III on (DBFOT) Annuity basis.
Name of Client	– National Highways Authority of India Ministry of Shipping, Road Transport and Highways.
Name of Concessionaire	– Chhapra - Hajipur Expressways Ltd.
Name of EPC Contractor	– M/s. Madhucon Projects Ltd
Name of Independent Consultant	– M/s. Stanley Consultants Inc USA in association with SA Infrastructure Pvt. Ltd. and EDMAC
Design Consultant	- M/s. Meltech Infrastructure Engineers Limited
Project Cost	– 720.13 Crores (Semi-Annual annuity of 65.43 Cr.)
Appointed Date	– 27.01.2011
Schedule Project Completion Date	– 27.07.2013 (Revised to 19.04.2014 as per EOT recommended by IC) 2 nd Revision - Sept 2015 30.06.2017 (for 51.74 Km Recommended by IE/NHAI) 31.12.2020 (for 51.74 Km Recommended by IE/NHAI)
Construction Period	– 910 days from Appointed Date
Concession Period	– 15 years (Including Construction Period)

3. PHYSICAL PROGRESS OF THE PROJECT

Progress of Road works and Structure works up to **June 2021**.

ROAD WORKS:

Component	Weightage in Project (%)	Item Description	Weightage in Component (%)	As per Scope of Work in (KM)	Average 4-Lane Progress till Date in (KM)	% Physical Progress	% Physical Progress (Average)	Value of Physical Progress
1	2	3	4	5	6	7	8	(8X4)
Road works	64.38 %	Design	1.56%	66.74	66.74	100%	100.00 %	1.56%
		Preliminary Works	7.15%	66.74	66.74	100%	100.00 %	7.15%
		C & G	0.11%	66.74	65	96%	95.89%	0.11 %
		Embankment	12.56%	66.74	65	97.39%	91.03%	11.43%
		Subgrade		66.74	56.51	84.67%		
		GSB	18.03%	66.74	54.35	81.44%	79.56%	14.34%
		WMM		66.74	51.845	77.68%		
		DBM	24.97%	66.74	47.7	71.47%	39.24%	9.80%
Structure Works		BC		66.74	4.4	7%		
	24.57 %	Major Bridge	9.89%	3	2.85	94%	95.00%	9.40%
		Minor Bridge	4.73%	17	17	100%	100.00 %	4.73%
		ROB	6.69%	5	4.75	95%	95.00%	5.52%
		Flyover		2	1.7	85%	85.00%	
		VUP		3	3	100%	100.00 %	
		PUP		2	1	50%	50.00%	
Other Works		Culverts	3.26%	100	94	94%	94.00%	3.06%
	11.07 %	Drainage & Protection Works	8.25%			80%	80.00%	6.60%
		Traffic Signs, Marking & Road Appurtenances	1.06%			80%	80.00%	0.85%
		Toll Plaza	0.16%			82%	82.00%	0.13%
		Way Side Amenities & Lay byes	0.41%			8%	8.00%	0.03%
		Environmental Works	0.18%			25%	25.00%	0.05%
		Miscellaneous Works	0.22%			82%	82.40%	0.18%
		Repair & Rehabilitation of Structures	0.13%			100%	100.00 %	0.13%

Component	Weightage in Project (%)	Item Description	Weightage in Component (%)	As per Scope of Work in (KM)	Average 4-Lane Progress till Date in (KM)	% Physical Progress	% Physical Progress (Average)	Value of Physical Progress
		Repair & rehabilitation of Highway	0.40%			15%	15.00%	0.06%
		New Items	0.26%			66%	66.00%	0.17%
GRAND TOTAL	100%		100.00%					75.30%

Note:

1. Percentage weightages of items/components have been considered with respect to revised EPC Cost of Rs 925 Cr against original EPC cost of Rs 720 Cr.
2. Total EPC Cost (925.13) = LIE Certified bill as on April 2016 + Amount approved under OTFIS
3. There are variations in IE Certification and LIE Certification of work as IE has considered work done as per CA Certificate dated 7th October 2015.

Progress in Brief

Status of ROB:

Sr. No.	ROB at Km	Foundation	Sub-Structure	Super Structure	Girder	RE Wall in Approach	CRS Approval	Remarks
1	143.984	Complete	Complete	In Progress	Complete	Started	Applied for renewal	
2	150.9	Complete	Complete	Complete	Complete	Started	Obtained	
3	157.8	Complete	Complete	In Progress	Complete	Started	Obtained	
4	177+182	Complete	Complete	In Progress	In Progress	Started	Obtained	
5	209+318	Complete	Complete	Not Started	In Progress	Started	Obtained	
6	188.132	Not Started	Not Started	Not Started	Not Started	Not Started	X	Under COS

ROBs	<p><u>At Km 143+974</u> All pier caps completed. All bearing pedestals done. 3 Nos slab completed. 12 girders casted out of 12. 12 girders launched out of 12. Crash barrier & Approach slab balance which are in progress.</p> <p><u>At Km 150+984</u> All work completed.</p> <p><u>At Km 157+860</u> 4 Nos. of Pier Cap Completed, Girder casting completed, prestressing of girder done. Concreting of 3 slabs done out of 3 nos. Crash barrier & Approach slab balance. RE wall work progress.</p> <p><u>At Km 177+182</u> LHS: - P2-P3 girder launching & slab balance. P3-P4 slab balance. RHS: - P2-P3 girder launching & slab balance.</p> <p><u>At Km 209+318</u> 7 pier caps completed. Girder 20 nos completed out of 24.</p> <p><u>At Km 188+235</u> New proposal under COS. No ROB will be constructed. This portion has been included in PCOD. Highway will be constructed at Grade.</p>
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Flyovers	: <u>At Km 207+768</u> LHS: - A1, P1, P2 & A2, pile, pile cap abutment wall, abutment cap, pier, pier cap, pedestal, girder and girder erection complete. Cross girder complete. Deck slab completed. Crash barrier & Approach slab balance. RHS: - A1, P1, P2 & A2, pile, pile cap abutment wall, abutment cap, pier, pier cap, pedestal, girder and girder erection complete. Cross girder complete. Deck slab completed. Crash barrier & Approach slab balance. <u>At Km. 209+530 LHS:</u> 10 nos. of pier cap completed, P2-P10 (9 span) deck slab completed out of 10, 40nos. Pre-cast girder completed out of 40.
Major Bridges	: <u>Km. 145+162:</u> - Bridge completed Crash barrier & Approach work is in progress. <u>Km. 183+209:</u> - LHS: - All piling work completed, P1, P2 & P3 pier & pier cap completed. P4 pier complete & pier cap balance. Girder casting in progress- 5 Girder casted Abutment A1 all Pile complete, Pile cap complete, abutment wall in progress. A2 side all Pile complete. RHS: - All piling work completed, P1, P2, P3 & P4 pier & pier cap completed. Girder casting in progress- 6 Girder casted. Abutment A1 all Pile complete, Pile cap complete, abutment wall in progress. A2 side all Pile complete. <u>Km. 206+436 (Gandak):</u> - In Super structure 247 Nos. Segment completed out of 292. 45 Nos. Segment balance. Launching of segments for span A1-P1 has been completed. Preparation for launching of Segment P1-P2 is in progress.
Minor Bridges	: 17 Minor bridges have been tackled & 15 Minor Bridge work has been completed. Balance work is in progress for remaining 2 nos.
Pedestrian Underpasses/ Vehicular Underpass	: 3 nos. of VUP work have been tackled & completed.
Box/Slab Culverts	: 100 nos. of Box Culverts have been tackled and 93 Nos. of Box Culverts have been completed.
Toll Plaza	: DLC & PQC work has been completed

Total Revised EPC Cost considering the balance works as per the Cost Overrun under OTFIS including the works under Priority stretch identified for Provisional Completion of the project length of 51.74 Km and 15.00 Km of the stretch which is not part of Priority stretch of 51.74 Km is **Rs 925.134 Crores.**

Considering the total works done till date with respect to the Revised EPC cost of **Rs 925.134 Crores**, **Physical progress** achieved till **June 2021** is **75.30 %**.

Progress of the work is continuously lagging. Company needs to take more efforts to achieve the set-out targets. Company revised the work schedule for balance works on the available stretch of 51.74 Km considering the completion by Dec-2018. However, has failed to achieve the same. **Company has again revised the work schedule for balance works on the available stretch of 51.74 Km considering the completion by June 2019. However, this target has already failed.**

Company has again submitted to NHA the revise work schedule, planning the completion of the balance works by Dec 2020 (However this timeline has already lapsed). Same is under approval from IE/NHA. Considering the balance works as on date, Company needs to put all the efforts & at the same time additional resources, if required, need to be procured for improving the progress of work so that completion of the project is achieved at the earliest.

Physical progress up to the month Nov 2016 is being FROZEN. New rates have been considered to evaluate the progress from the month of Dec 2016 in accordance with Cost Overrun and Tripartite

agreement for OTFIS (Signed by NHAI, Concessionaire and Lenders). Accordingly Cost of **Rs 257.196 Crores** has been estimated for Priority stretch works identified for Provisional Completion of the project for the Length of **51.74 Km**. Hence since Dec 2016, the progress is monitored for Priority stretch works identified for Provisional Completion of the project for the Length of 51.74 Km.

As per the latest updates provided by the Company, NHAI has now fixed 55.78 Km stretch for PCOD. Gandak Bridge has been excluded from the PCOD. Company planned to complete all the works for PCOD, excluding Gandak Bridge by Dec 2020. However, has not achieved the same. Additional 4 to 5 months are required for completion of all the balance works, considering the present pace & total quantum of work as on date. Company needs to put all the efforts & additional resources to complete all the balance works targeted for PCOD.

Strip Chart for the progress of Road works and Structure works is given in **Annexure - G, H, I, J & K**.

Progress of Work for the Month of June 2021 for Priority Stretch Identified for Provisional Completion of the project - 51.74 Kms (Under OTFIS)

S. No.	Description of Item	Unit	Linear Length (m)	Rate	Quantity (m3)	Amount
1	Clearing and grubbing	Hect		27,321.08	2.25	61,472.43
2	Embankment	Cum		175	8795.108	15,39,143.90
3	Subgrade	Cum		175	2518.484	4,40,734.70
4	GSB	Cum		2,517.00	4412.796	1,11,07,007.53
5	CT-SB	Cum		2,748.00	0	0.00
6	CT-Base-1	Cum		3,948.00	0	0.00
7	CT-Base-2	Cum		2,929.00	0	0.00
8	WMM	Cum		2,929.00	908.137	26,59,933.27
9	DBM	Cum		10,242.00	255.9445	26,21,383.57
10	Prime Coat	Sqm		40	5697.35	2,27,894.00
11	Tack Coat	Sqm		10	4302.2	43,022.00
12	BC	Cum		10,749.00	0	0.00
13	Earthen Shoulder Filling	Cum		175	654.43	1,14,525.25
14	Median Soil Filling	Cum		175	0	0.00
15	Sand Filling for RE Wall	Cum		300	8962.44	26,88,732.00
16	Panel Erection	Sqm		5,200.00	711.4	36,99,280.00
17	Filter Media	Cum		3,500.00	566.448	19,82,568.00
18	Kerb	Rmt		600	1305	7,83,000.00
19	Road Side Plantation	Nos		409.31	0	0.00
20	Median Plantation	KM		61,157.84	0	0.00
	Total Highway Work					2,79,68,697
21	Structure Works					
A	Excavation	Cum		175	24.84	4,347.00
B	Concrete	Cum		12000	868.413	1,04,20,956.00
C	Girder Launching	Nos		110000	0	0.00
D	Girder Stressing	Nos		175000	0	0.00
E	Rectangular chute drains	LM		3500	0	0.00
F	Fixing of Bearings	Nos		30000	0	0.00
G	Gandak Bridge Span A1-P1 Segment Launching	Nos		10000000	0	0.00
H	Fixing of Expansion Joints on Structures	LM		1,131.35	0	0.00
	Total Structure Work					1,04,25,303
	Total Work done in June 2021					3,83,94,000

4. FINANCIAL PROGRESS OF THE PROJECT

Company initially revised the Work Schedule & Project Completion Plan targeting COD of the project highway by 31st Mar 2015 based on the encumbrance free ROW provided by the Authority and completion of the balance works including punch list items by Sep 2015. However plan to achieve the COD by Mar 2015 & completion of the balance works by Sep 2015 has failed. According to this Project Completion Plan, the Financial Progress of the major works carried out at the site is as follows:

Financial Progress w.r.t total EPC cost of ₹720.13 Crores up to Nov 2016 (This progress has been FROZEN):

Financial Progress till Last Month	% Financial Progress till Last Month	Financial Progress for this Month (Planned)	Financial Progress for this Month (Achieved)	Cumulative Financial Progress (Planned)	Cumulative Financial Progress (Achieved) up to this Month	% Financial Progress Planned up to this Month	% Financial Progress Achieved up to this Month
(Crores)	%	(Crores)	(Crores)	(Crores)	(Crores)	%	%
560.542*	77.84%	-	-	720.13	560.542	100%	77.84%

**The cumulative financial progress mentioned above is Up to Nov 2016 w.r.t. EPC cost of Rs 720.13 Cr, which has been considered frozen due to start of OTFIS.*

The financial progress from the month of Dec 2016 onwards has been considered w.r.t. **Rs 257.196 Cr** for the Priority Stretch works for the length of **51.74 Km** for Provisional Completion as mentioned below.

- Financial Progress achieved & certified by LIE till Apr 2016 was Rs 537.022 Crores. This was the progress before initiating OTFIS. (Financial progress up to Dec 2015 was 536.85 Crores before the work got stalled. No work done certified from Jan'16 to Mar'16).
- Financial Progress achieved till Nov 2016 is Rs 560.542 Cr (This progress has been FROZEN)
- Tripartite Agreement was signed on 21st October 2016 between Lenders, Employer and Concessionaire. New rates were considered to evaluate financial progress from the month of Dec 2016 in accordance with Tripartite agreement (Signed by NHAI, Concessionaire and Lenders). Accordingly, an amount of Rupees **257.196 Crores** has been estimated for balance works of Priority stretch identified for Provisional Completion of the project for the Length of **51.74 Km**, and an amount of Rupees **91.08 Crores** have been considered for balance work of non-priority stretch of **15.0 Kms**, wherein land acquisition and encumbrance's issues still persist.
- Pertinently, LIE has considered Total EPC Cost as Financial Progress achieved by the Concessionaire in the month May 2016 plus Fund provided under OTFIS, Therefore, revised EPC Cost becomes 925.13 Crores.
- Advances to EPC Contractor shall be recovered proportionately to work executed.

Financial Progress up to June 2021 w.r.t Rs 257.196 Crores for Priority stretch works identified for Provisional Completion of the project for the Length of 51.74 Km: -

Financial Progress till Last Month	% Financial Progress till Last Month	Financial Progress for this Month (Planned)	Financial Progress for this Month (Achieved)	Cumulative Financial Progress (Planned)	Cumulative Financial Progress (Achieved) up to June 2021	% Financial Progress Planned up to this Month	% Financial Progress Achieved up to this Month
(Crores)	%	(Crores)	(Crores)	(Crores)	(Crores)	%	%
246.14	95.70%	-	3.839	257.196	249.98	100.00%	97.20%

- Financial progress achieved in **June 2021** is **Rs 3.839 Cr.** Thus, cumulative financial progress up to **June 2021** is **Rs. 249.98 Crores (97.20%)** against the targeted progress of Rs. 257.196 Crores (100%) w.r.t. **Rs. 257.196 Crores** for Priority stretch works identified for Provisional Completion of the project for the Length of 51.74 Kms.
- Financial progress of **Rs. 3.839 Crores** has been achieved in the month of **June 2021** towards the execution of works for the Priority stretch.
- Financial Progress up to June 2021 w.r.t Total Revised EPC Cost of Rs 925.134 Crores**

Financial Progress for this Month	Achieved Financial Progress up to this Month	% Financial Progress Achieved up to this Month	Achieved Financial Progress up to this Month (exc Rs 65.19* Crores as advance)	Achieved Financial Progress up to this Month (exc Rs 65.19* Crores as advance)
(Crores)	(Crores)	(%)	(Crores)	(Crores)
3.839	809.27	87.47%	744.087	80.43%

**As per IC and NHAI's discussion, Company has gone for the reconciliation of the quantities in the month of November 2013. Independent Consultant in consultation with NHAI certified 433.28 Crores for the progress ending Jul 2013. Whereas LIE certified Rs.498.47 Crores for the same period. Differential amount Rs. 65.19 Crores has been considered as advance on EPC contractor. Recovery of the same though has been started, needs to be ensured by the Concessionaire.*

- Revised EPC Cost with respect to balance works as per the Cost Overrun under OTFIS is **Rs 925.134 Crores.** Thus, considering the total works done till date with respect to the Revised EPC cost of **Rs 925.134 Crores** including the works under Priority stretch identified for Provisional Completion (up to June 2019), the cumulative Financial progress up to June 2021 is **Rs 809.27 Cr (87.47%)**. Excluding the Advance* of **Rs 65.19 Crores**, Cumulative Financial Progress is **Rs. 744.087 Crores (80.43%)**
- Company had submitted the Revised Work Programme for the completion of the balance works on the available stretch of about 51.74 Km. According to this programme Company planned to complete all the balance works on the stretch of 51.74 Km by March-18 (Same has failed). Further target for completion of balance works by June 2019 has also failed. *Company had submitted to NHAI the revise work schedule, planning the completion of the balance works by Dec 2020. Same is under approval from IE/NHAI (However the targeted schedule already failed)*
- Company needs to submit the revise work program with respect to the total revised EPC cost of Rs 925.134 Crores.

5. STATUS OF LAND ACQUISITION AND UTILITY SHIFTING

Status of Land Acquisition

Out of 66.74 Km of the Total Length required for the four laning of the Project Highway about 54.54 Km of the land has been made available till February 2020. This constitutes to 92.70% of the total land acquisition. 3D has been published for 66.74 Km Stretch & 3E done for 64.44 Km of the Stretch. Acquisition of the balance land is in Progress.

Total Length	66.74 Km	100 %
Land Acquired	64.89 Km	97.23 %
Balance to Acquire	1.850 Km	0.27 %
3D Published	66.74 Km	100.00 %
3G Evaluated	65.28 Km	98.00 %
3E Done	64.89 Km	97.23%

Village wise Status of Land Acquisition is given in the **Annexure – E**

LE's Remarks

Land Acquisition of the balance land is in progress but need to be expedited. Hence, Company needs to keep a continuous follow up with the concern Authority to speed up the same. Payment distribution is under progress for the villages where 3E is done. Company needs to expedite the possession of land in order to adhere to the revised work programme so that timely completion of the project can be achieved, especially PRIORITY Stretch-1. 64.89 Km of the land has been made available as on March 2021 & Company has tackled the work in 51.74 Kms of the PRIORITY Stretch-1. Also, construction activities in the Balance Priority Stretch-2 of 15.00 Km stretch have been taken up.

Village wise Status of Land Acquisition is given in the **Annexure – E**.

Forest Land

There is no forest land in the project stretch. But permissions for the tree cutting along the project stretch need to be taken from the forest department. All permissions have been taken for the tree cutting, and the work has been completed.

LE's Remarks

Clearances have been received from concerned DFO and the tree cutting work is almost completed, except few private trees coming in alignment.

Utility Shifting

Electric lines shifting from km 143.200 to km 209.940 have been completed and works are in progress in the remaining area.

Total Poles – 712* Nos.

Poles Shifted - 520 Nos.

Balance to be shifted -192 Nos.

**Quantity has been reconciled. Additional poles which were missed earlier have been added.*

LE's Remarks

Utility shifting is balance in those areas where the land is not yet acquired. However, shifting work has been started in available stretches and is in progress. About 73.03% of the pole shifting has been completed till June 2021, considering the additional missed out poles.

Electrical poles shifting are in progress, but HT lines are not yet shifted.

Shifting/raising of power transmission lines is in progress @ km 158 ROB A2 side, km 207 Flyover A1 side and km 204 LHS. These are vital for PCOD.

Tree Cutting

Tree cutting 100 % of work is completed. Total Trees - 3587 Nos.

Tree cutting completed -3559 Nos.

Balance to cut- 28 Nos. of Private Trees which is falling in alignment.

LE's Remarks

Almost major tree cutting has been completed.

Status of Land Acquisition, Tree cutting & utility shifting is given in **Annexure – E**.

6. OVERALL REVIEW

Detail	LE's Remarks
Review of estimated construction programme, expenditure schedule and progress of work.	<p>Construction Programme - Up to Nov 2016, Rs 560.542 Crores (77.84%) Financial Progress is achieved w.r.t total EPC cost of Rs 720.13 Cr as per the revised Project Completion plan submitted by the Company (This progress has been FROZEN).</p> <p>New rates have been considered to evaluate financial progress from the month of Dec 2016 in accordance with Cost Overrun and tripartite agreement (Signed by NHAI, Concessionaire and Lenders).</p> <p>Rs. 257.196 Crores for priority Stretch-1 (Provisional Completion Stretch-51.74 Kms) has been approved for EPC Contract. Rs. 91.079 Crores for priority Stretch-2 (15 Kms) has been approved for EPC Contract.</p> <p>Expenditure Schedule - As per the revised BOQ schedule, works amounting to Rs. 560.542 Crores have been completed till the end of November 2016 (includes Mobilization and Material Advance). From Dec 2016 onwards, the Financial progress has been considered wrt Rs.257.196 Crores for Priority stretch works identified for Provisional Completion of the project for the Length of 51.74 Kms</p> <p>Accordingly, Rs. 249.98 Crores of Financial progress is achieved up to June 2021. Rs. 3.839 Crores work has been executed in the month of June 2021 in the Priority stretch. Hence the cumulative financial progress up to June 2021 is Rs. 249.98 Crores (97.20%) against the targeted progress of Rs. 257.196 Crores (100%) w.r.t Rs 257.196 Crores for Priority stretch works identified for Provisional Completion of the project.</p> <p>Considering the total works done till date with respect to the Revised EPC cost of Rs 925.134 Crores including the works under Priority stretch identified for Provisional Completion, the cumulative Financial progress achieved up to June 2021 is Rs. 809.27 Cr (87.47%)</p>
Certification of Work Carried Out	For the month of June 2021 total work worth Rs 3.839 Crores has been executed. Thus the total amount expended till June 2021 is Rs 809.27 Cr (87.47%) w.r.t revised EPC cost of Rs 925.134 Cr , and Rs. 249.98 Crores (97.20%) w.r.t Rs. 257.196 Crores for Priority stretch works.
Quality of Construction	The QC team of IC is witnessing the tests carried out and monitoring the quality. The record of tests carried out is provided in the Annexure – N . Adequate control is being exercised on the quality.
Assessment of Variation orders	No variation orders have been issued so far.

Overall Assessment :

Financial progress up to the month Nov 2016 (Rs 560.542 Crores) has been FROZEN and shall be referred as financial Progress prior to OTFIS as tripartite agreement was signed on 21st Oct 2016 between Lenders, Employer and Concessionaire.

New rates have been considered to evaluate financial progress from the month of Dec 2016 in accordance with tripartite agreement (Signed by NHAI, Concessionaire and Lenders). Accordingly, an amount of **Rs.257.196 Crores** has been estimated for balance works of Priority stretch identified for Provisional Completion of the project for the Length of 51.74 Km, and an amount of **Rs 91.08 Crores** have been considered for balance work of non-priority stretch of 15.0 Kms, wherein land acquisition and encumbrance's issues still persist.

Up to **June 2021** Financial Progress of **Rs. 809.27 Cr (87.47%)** w.r.t revised EPC cost of **Rs 925.134 Cr**, and **Rs. 249.98 Crores (97.20%)** w.r.t **Rs. 257.196 Crores** for Priority stretch works has been achieved. **Rs. 3.839 Crores** work has been executed in the month of **June 2021** in the Priority stretch.

After a series of consultations amongst all the stake holders of the project Employer (NHAI), Concessionaire (CHEL) and Lenders Agent (SBI) agreed to finance Cost Overrun of the project. 51.74 kilometers of the total project length has been considered as priority stretch, which is essential to achieve Provisional Completion in accordance with Concession Agreement. Concessionaire has been asked to prepare comprehensive work programme, cash flow and complete resource plan. (Concessionaire has submitted the same to NHAI and Independent Engineer on 24th Sept 2016)

Company submitted the Revised Work Programme for the completion of the balance works on the available stretch of about 51.74 Km. According to this programme Company planned to complete all the balance works on the stretch of 51.74 Km by Dec-2017. However, Company failed to achieve the targeted completion up to Dec-2017. Hence, Company again revised the work programme targeting completion of the balance Priority stretch works of Rs 257.196 by March-2018, but this programme has also failed. Now, Company needs to submit a feasible revise work programme considering the completion of the balance works under Priority stretch.

Company had submitted to NHAI the revise work schedule, planning the completion of the balance works by Dec 2020 (However, this timeline has already lapsed). Same is under approval from IE/NHAI. Considering the balance works as on date, Company needs to put all the efforts & at the same time additional resources, if required, need to be procured for improving the progress of work so that completion of the project is achieved at the earliest.

As per the latest updates provided by the Company, NHAI has now fixed 55.78 Km stretch for PCOD. Gandak Bridge has been excluded from the PCOD. Company planned to complete all the works for PCOD, excluding Gandak Bridge by Dec 2020. However, has not achieved the same. Additional 4 to 5 months are required for completion of all the balance works, considering the present pace & total quantum of work as on date. Company needs to put all the efforts & additional resources to complete all the balance works targeted for PCOD.

Work on the approach work for Chhapra Bypass need to be expedited. Work on the Gandak Bridge though in progress, need to be expedited. Hence for timely completion of the priority works as targeted, Company needs to expedite the works on Gandak Bridge. Segment casting need to be expedited & segment launching work to be taken up immediately. Works on Mahi Bridge also need to be expedited. Concessionaire has mobilized required resources like manpower, machines at the site, also crushing aggregates in their quarries, but transportation of aggregates are delayed, which needs to be improved.

7. QUALITY, MAINTENANCE & SAFETY

EPC Contractor have established fully fledged laboratory to carry out the required tests for the execution of the project work. All required tests as per the frequencies and requirements of IRC code provisions are being carried out in the field and in the laboratory.

The details of the quality control tests carried out are given in **Annexure – N**.

List of plant, machinery and quality control equipment is given in **Annexure – O**.

Weather Report & Photographs are given in **Annexure – P & R** respectively.

Regular maintenance of the existing project highways is carried out.

Safety Officers along with support staffs are deployed at Site to take care of safety aspects and Traffic Management.

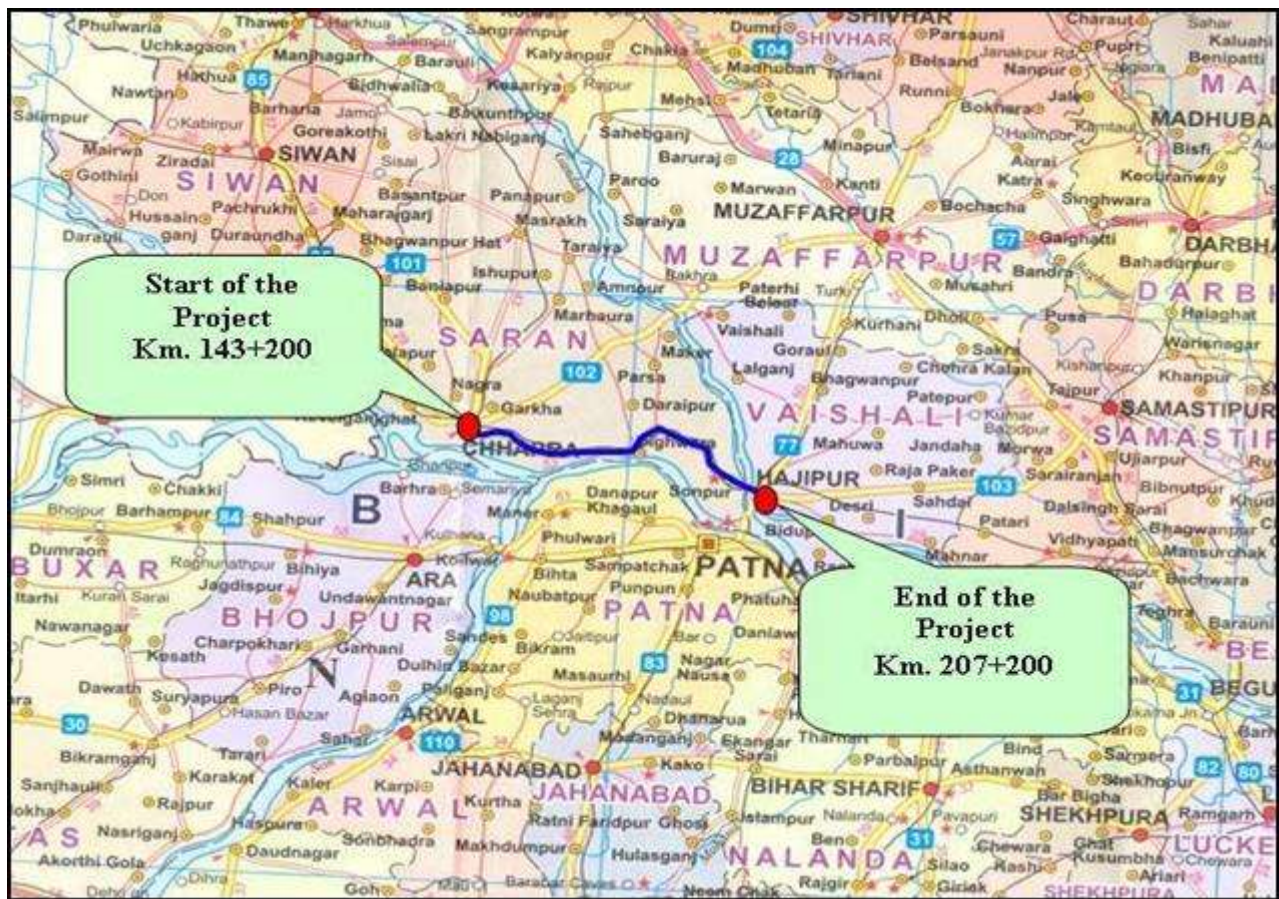
Needful traffic safety measures are adopted as and when required. Required care is being taken for safety of the work force as well as road users while carrying out the activities.

Additional cautionary sign boards have been provided at accident prone locations for safety of road users. G. I. sheets (duly painted) have been provided at location of each Minor bridge and locations of deep excavations. Traffic is being regulated at major bridge and other structures by providing flagmen and barricades.

ANNEXURE

- A. Project corridor
- B. Scope of Work at a Glance
- C. EPC Cost Break-up
- D. Status of Permission and Approvals
- E. Status of Land Acquisition
- F. Status of Drawings
- G. Progress Chart of Road Work
- H. Progress Chart of Major Bridge
- I. Progress Chart of Minor Bridge
- J. Progress Chart of ROB, Flyover & Underpass
- K. Progress Chart of Box Culverts
- L. Schedule Project Completion Plan, Financial Progress & S-Curve
- M. Organization Chart of Concessionaire, PMC & EPC Contractor
- N. Quality Control Tests
- O. List of Plant and Machinery
- P. Weather Report
- Q. IC Letter
- R. Photographs

ANNEXURE A – PROJECT CORRIDOR



ANNEXURE B – SCOPE OF WORK AT A GLANCE

ROAD WORKS:

Sr. No.	Description	Unit	Total Qty.
1	Excavation	Cum	21,981
2	Embankment	Cum	45,76,388
3	Sub grade	Cum	8,26,966
4	Granular Sub Base	Cum	3,43,124
5	Wet Mix Macadam	Cum	2,60,326
6	Prime Coat	Sqm	10,41,303
7	Tack Coat - I	Sqm	10,41,303
8	Tack Coat - II	Sqm	24,07,634
9	Dense Bituminous Macadam	Cum	1,41,282
10	BC	Cum	46,057
11	DLC	Cum	3,245
12	PQC	Cum	6,491

STRUCTURE WORKS:

Sr. No.	Type of Structure	Total No. of Structures
1	ROB	5
2	Fly over	2
3	Major Bridges	3
4	Minor Bridges	17
5	Pedestrian Underpasses / Vehicular Underpass	3
6	Box Culverts	98
7	Pipe Culverts	Nil

ANNEXURE C – EPC COST BREAK-UP

As per Old & Revised BOQ

Sr. No.	Description	Total Amount (Rs.) (As per New BOQ)	% of Activities (As per New BOQ)	Total Amount (Rs.) (As per Old BOQ)	% of Activities (As per Old BOQ)
1	Design	144,026,000	2.00%	144,026,000	2.00%
2	Preliminaries	648,117,000	9.00%	648,117,000	9.00%
3	Site Clearance and Dismantling	8,796,283	0.12%	8,797,499	0.12%
4	Earth Works	911,421,067	10.11%	971,598,811	13.49%
5	Granular Base Courses and Sub Base Courses (Non-Bituminous)	971,455,370	14.35%	1,033,587,268	14.35%
6	Bituminous Courses / Cement Concrete Pavement	1,437,269,332	19.96%	1,437,269,332	19.96%
7	Culverts	282,290,960	2.46%	282,258,377	3.92%
8	Major Bridges	867,756,650	8.25%	823,593,573	11.44%
9	Minor Bridges	421,276,050	4.45%	365,424,238	5.07%
10	ROB'S / Flyover / VUP's & PUP's	604,649,386	7.43%	542,718,205	7.54%
11	Drainage and Protection Works	689,605,682	15.34%	689,605,682	9.58%
12	Traffic Signs, Road Markings and other Road Appurtenances	73,453,260	2.65%	75,678,206	1.05%
13	Toll plaza	16,632,440	1.47%	16,632,440	0.23%
14	Wayside Amenities & Lay byes	30,245,460	1.15%	58,906,121	0.82%
15	Environmental works	18,003,250	0.31%	22,692,358	0.32%
16	Miscellaneous works	10,801,950	0.23%	14,016,293	0.19%
17	Repair & Rehabilitation of Structures	10,801,950	0.30%	11,882,619	0.17%
18	Repair & Maintenance of Highway	18,818,960	0.41%	18,818,960	0.26%
19	New Items	35,877,735		35,677,017	0.50%
	Total BOQ Items	7,201,300,000	100.00%	7,201,300,000	100.00%

ANNEXURE D – STATUS OF PERMISSION AND APPROVALS

Sr. No.	Description	Concerned Department	Status	Remarks
1	Environmental Clearance	MOEF	Obtained	
2	Tree Cutting Approval	Regional Forest Department	Obtained	
3	Exemption of Customs duty on Major Plants & Machinery	MoEF/Customs	Whenever required, it could be done.	
4	Wireless System	DoT	Obtained	
5	Extraction of boulders from quarry	Directorate of State Mines Dept.	Obtained	
6	Borrow Earth Permit	Village Panchayat / State Government	Obtained	
7	Permission to installation of Crusher, Batching Plant, Hot Mix Plant, etc.,	Village Panchayat / SPCB	Obtained	
8	Explosives Licenses for storing Explosives and Diesel.	Explosive Controller	Obtained	
9	Electrical supply connections and Diesel genset	Bihar State Electricity Board	Obtained	
10	License for setting up Batching Plant	Inspector of Factories & Other Competent Authority	Obtained	
11	NOC for Batching Plant and Hot Mix Plant	SPCB	Obtained	
12	Water Mains and Sewerage Lines	Local Authorities	Obtained	
13	Water Usage / Drawing water from river/reservoir	Irrigation Dept.	Obtained	
14	Construction Power	Bihar State Electricity Board	-NA-	
15	Environmental protection and conservation (for crusher etc.)	SPCB	Obtained	

QUARRY APPROVAL CHART

Sr. No.	Issuing/ Demanding/ Permitting Authority	(Sub) Authorization for	Material	Author. No./ Licence No.	Grant or Issue Date	Licence Valid Till	Consent Granted to Site for Location	Status
1	Asst. Mining Officer, Vaishali	Madhucon	Soil	-	31.01.11	-	Chappra Hajipur Express way	Material receiving
2	Asst. Mining Officer, Vaishali	Madhucon	Soil	-	10.02.11	-	Chappra Hajipur Express way	Material receiving
3	Asst. Mining Officer, Vaishali	Madhucon	Soil	-	04.03.11	-	Chappra Hajipur Express way	Material receiving
4	Asst. Mining Officer, Vaishali	Madhucon	Soil	-	08.03.11	-	Chappra Hajipur Express way	Material receiving
5	Asst. Mining Officer, Vaishali	Madhucon	Soil	02/2010-2011	26.05.11	-	Chappra Hajipur Express way	Material receiving
6	Asst. Mining Officer, Vaishali	Madhucon	Soil	03/2010-2011	08.06.11	-	Chappra Hajipur Express way	Material receiving
7	Brodson commodities Pvt Ltd.Bojpur , Ara Dist, Bihar (District based Sand auction lessee, Saran Dist. Bihar)	Madhucon	Sand	740	31.12.11	2012	Chappra Hajipur Express way	Material receiving
8	Asst Director Mines and Geology. Nawada Dt. Bihar	Madhucon	Boulder	TN 3989/06 (Mining lease for stone quarry at Rajoli, Govt of Bihar)	6.10.06	July-2011	Chappra Hajipur Express way	Applied Renewal for 5 years

ANNEXURE E - STATUS OF ENCUMBRANCES & OBSTRUCTIONS

Status of Encumbrances as on June 2021

Chainage		Length (Mtr.)			Side	Village Name	Hindrance	Name	Gazatte Year	Plot No.	Status	Award No.	Paid/ Unpaid	Remarks
From	To	LHS	RHS	B/S										
158+700	158+850			150	B/S	Jalalpur , (Bisentola)	Land & Building	Mr. Bachcha Singh, Mr. Suresh Singh,Satrohan singh,Parash singh,Badri singh, Jairam singh, kedar singh (mob no. 80837910920	2010	482 & 484	Govt. Land (bisthapit)	6 Nose Building		Administration Support Require.
181+300	183+000			1700	B/S	Manpur, Manoharpur,	Land	All villagers	2012, 2014	ALL Villagers	2012,2014 Manpur Manoharpur Notice Send. (Approval done by Nhai. Payment not taken by land owner's.			3G approved payment not done
							Land	All villagers	2012, 2014	ALL Villagers	2012,2014 Manpur Manoharpur Notice Send. (Approval done by Nhai. Payment not taken by land owner's.			3G approved payment not done
						Sumerpatti	Building	Lalmati devi W/o Rampukar sahani	2012	91	NHAI approval done notice issue by cala for land owner's payment is in progress.	1		3G approved payment not done
							Building	Rajeshwar sahani S/o Late Rampukar sahani	2012	90		4		3G approved payment not done
							Building	Krishana sahani S/o Late Rampukar Sahani	2012	90		5		3G approved payment not done
							Building	Manoj sahani S/o Late Ganga Sahani	2012	90		6		3G approved payment not done
							Building	Dinesh sahani S/o Late Sanjiwan Sahani	2012	96		8		3G approved payment not done
							Building	Vashisth sahani S/o Sanjiwan Sahani	2012	96, 97		9		3G approved payment not done
							Building	Bhuteli sahani S/o Sanjiwan Sahani	2012	96, 97		10		3G approved payment not done
							Building	Dinesh sahani S/o Late Sanjiwan Sahani	2012	96, 97		11		3G approved payment not done
							Building	Ramkishor sahani S/o Late Raghuvir Sahani	2012	88		12		3G approved payment not done
							Building	Suresh sahani S/o Gopal Sahani	2012	88		13		3G approved payment not done
							Building	Ramkishor sahani , hri Bhgawan Sahani, Rajkishor Sahani S/o Lomari Sahani	2012	88		14		3G approved payment not done
							Building	Nagendra Sahani S/o Bhrigu Sahani	2012	88		15		3G approved payment not done
							Building	Bhrigu Sahani	2012	88		16		3G approved payment not done
							Building	Lalu Sahani	2012	88		17		3G approved payment not done
							Building	Shivpatti kuwar	2012	88		18		3G approved payment not done

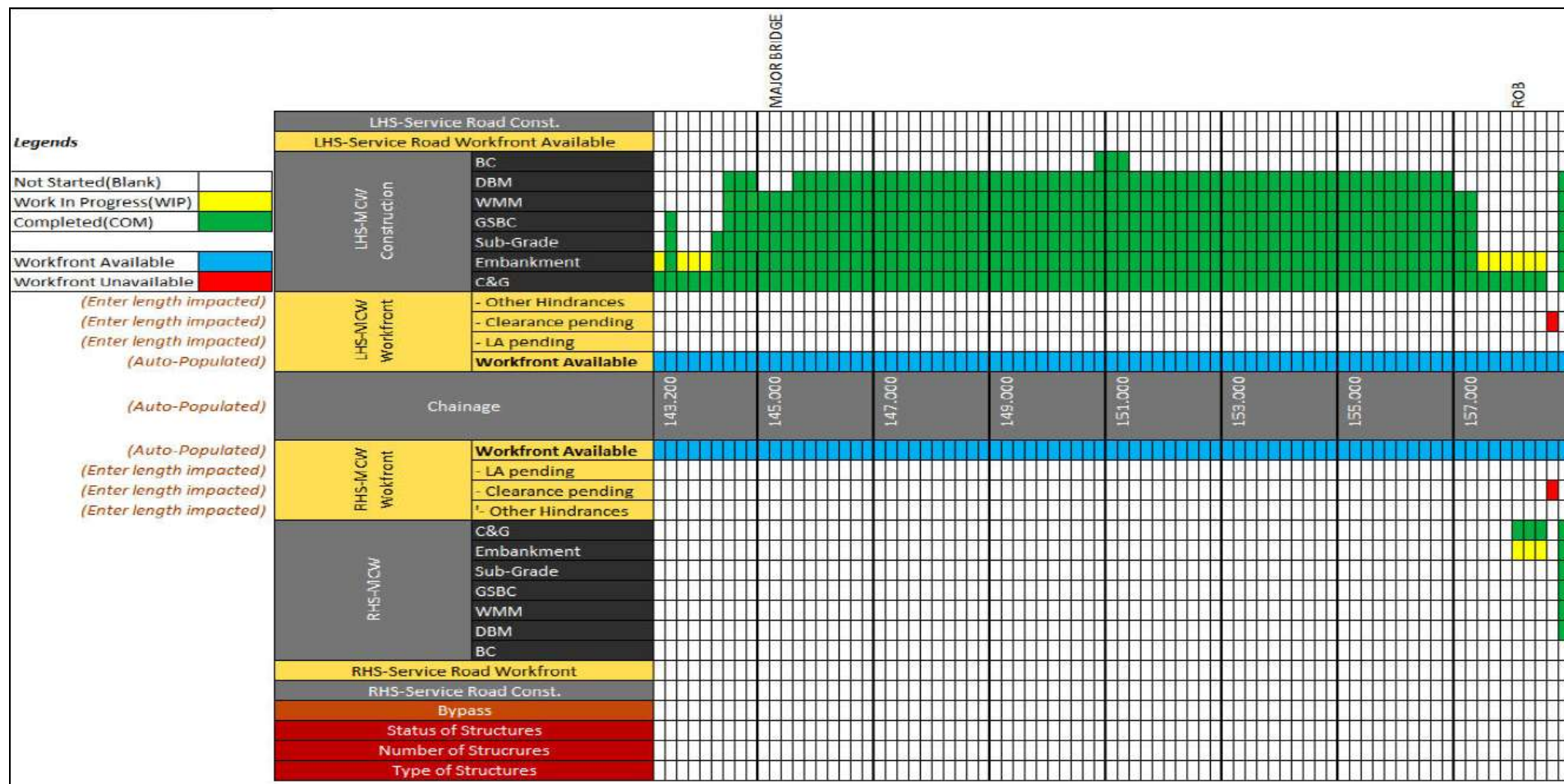
Chainage		Length (Mtr.)			Side	Village Name	Hindrence	Name	Gazatte Year	Plot No.	Status	Award No.	Paid/ Unpaid	Remarks
From	To	LHS	RHS	B/S										
							Building	Bhrigu Sahani, Lalu Sahani, Shivpatri Kuwar	2012	87		19		3G approved payment not done
							Building	Bhrigu Sahani S/o Late Triveni Sahani	2012	87		20		3G approved payment not done
							Building	Bhagirath Sahani S/o Gopal Sahani	2012	89		21		3G approved payment not done
							Building	Rajendra Sahani	2012	90		22		3G approved payment not done
							Building	Lomari Sahani S/o Gopal Sahani	2012	89		23		3G approved payment not done
							Building	Suresh Sahani S/o Gopal Sahani	2012	88		24		3G approved payment not done
							Building	Munshi Sahani S/o Late Devanand Sahani	2012	96		25		3G approved payment not done
							Building	Suresh Sahani S/o Late Devkumar Sahani	2012	96		26		3G approved payment not done
							Building	Ramanand Sahani S/o Late Jiyalal Sahani	2012	96		27		3G approved payment not done
							Building	Mohar Sahani S/o Late JiyBahadur Sahani	2012	97		28		3G approved payment not done
							Building	Darogar Sahani S/o	2012	97		29		3G approved payment not done
							Building	Ramshakhiya kuwar	2012	98		31		3G approved payment not done
							Building	Dharichan Sahani S/o Late shital sahani	2012	96,97		33		3G approved payment not done
							Building	Mahawa Devi W/o Late Bhola Sahani	2012	96		34		3G approved payment not done
							Building	Bhikhari Sahani S/o Ramdev sahani	2012	96, 98		35		3G approved payment not done
							Building	Maheshwari devi S/o	2012	96, 95		36		3G approved payment not done
							Building	Bhagirath Sahani, Parama Sahani S/o Sudarshan Sahani	2012	82, 83		37		3G approved payment not done
							Building	Sanmatiya kuwar	2012	83		38		3G approved payment not done
							Building	Shukhl Sahani	2012	83		39		3G approved payment not done
							Building	Parama Sahani	2012	83		40		3G approved payment not done
							Building	Raghuvir Rai	2012	33		41		3G approved payment not done
							Building	2012	33		42		3G approved payment not done

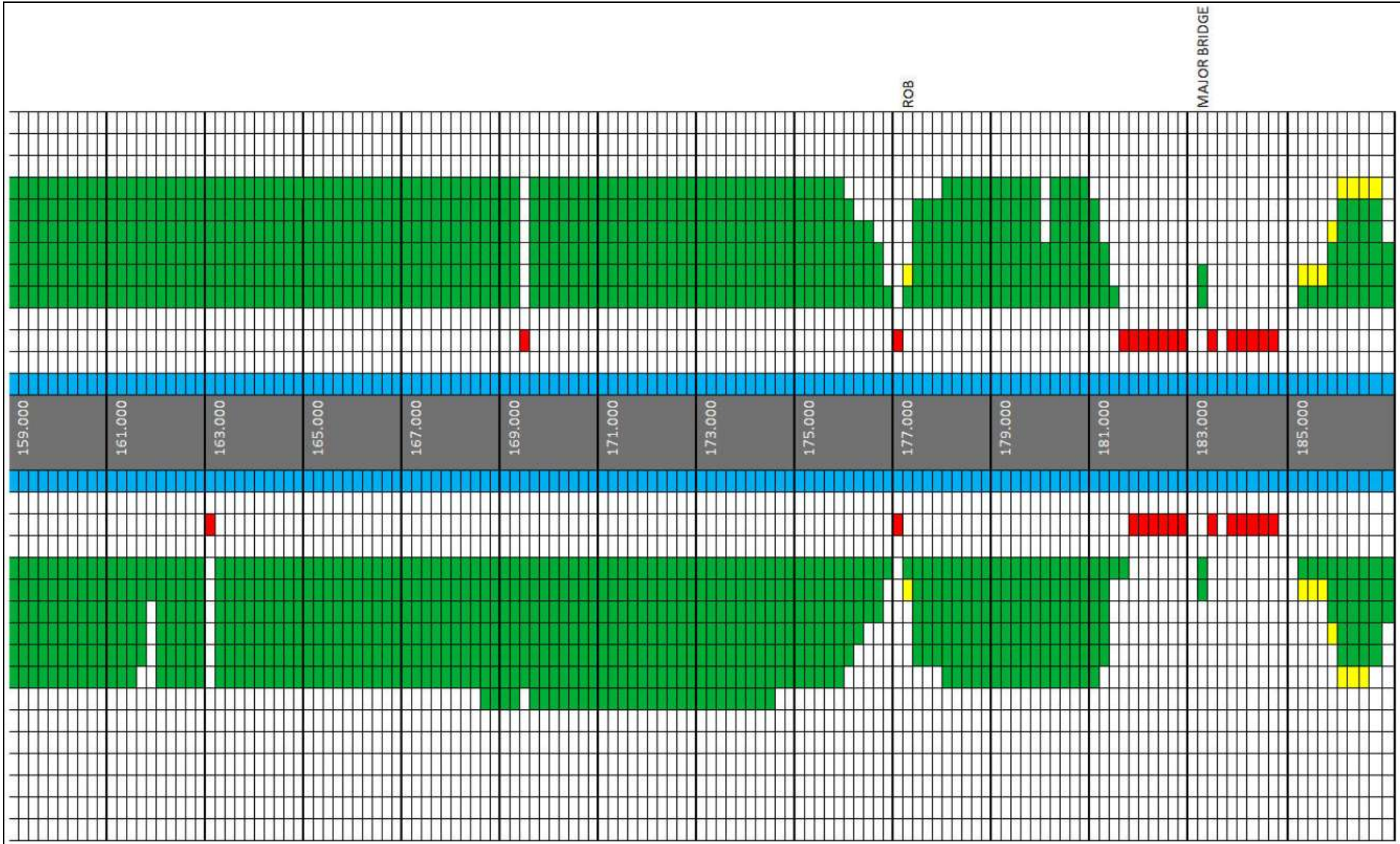
Chainage		Length (Mtr.)			Side	Village Name	Hindrence	Name	Gazatte Year	Plot No.	Status	Award No.	Paid/Unpaid	Remarks
From	To	LHS	RHS	B/S										
							Building	Parwati devi W/o Yogendra	2012	234		41		3G approved payment not done
							Building	Nanhaki devi W/o Panchi sahani	2012	95		46		3G approved payment not done
							Six Man committ ee Land	Ram sakia kuwar W/O Late Adalat Mahto, Lalbabu shani s/o Harman shani, Mohan shani s/o Jai Badhur shani, Muthar Shani S/O Sital shani, Munsii Shani S/O Late Devnandan shani, Ramanand Shani s/o Jiya Lal shani, Shonwa Kuwar W/O Late Devkumar shani, Daroga shani s/o Late Jai badhur shani, Ganga shani, Aruin Kumar, Parwati devi, w/o Yogendra sah, Dinesh shani, Basist shani, Sakhiya Kuwar,Mithu shani, Parma shani, Bhagirath shani and other's	2012	96, 97, 128, 31, 84, 85, 100, 110, 235, 107, 109, 70, 89, 90, 91, 110, 234, 98, 69, 83, 82,	Estimate to be submitted by CALA as per Six man committee report		unpaid	Six man committee change the nature but approval is not done
TOTAL				1850										

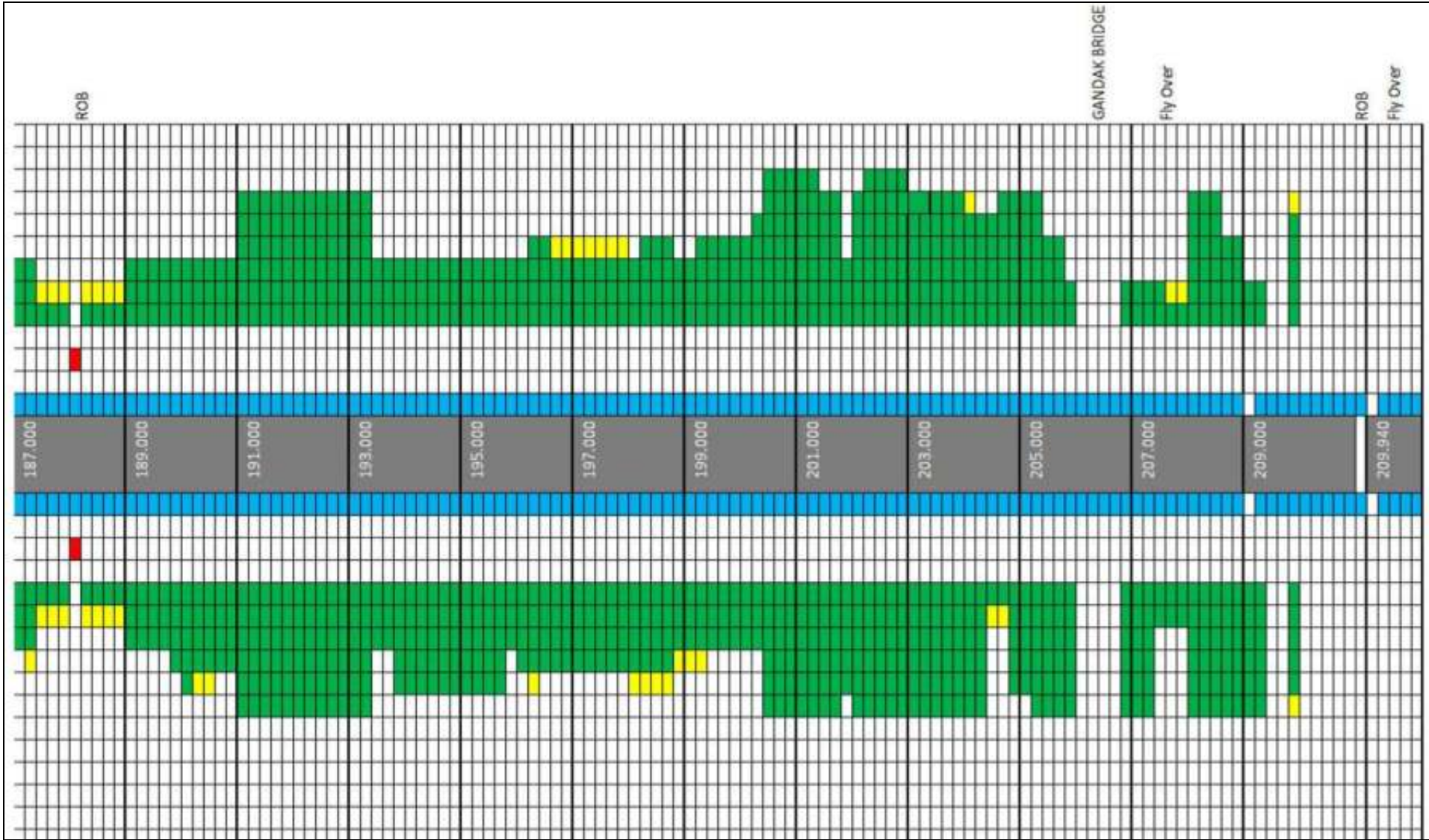
ANNEXURE F – STATUS OF DRAWINGS

Sr. No.	Description of the Drawing	Status of Drawings (in Nos)				Remarks
		Submitted to NHAI/IC	Approved for GFC by NHAI/IC	Remarks / Commented by NHAI/IC	Drawings Under Review with NHAI/IC	
A	HIGHWAYS					
1	Typical Cross Sections	13	13	-	-	
2	Plan & Profile	67	64	-	-	3 Kms under realignment (IC approved letter awaited for approved P&P)
3	Detailed Cross Sections	-	-	-	-	
4	Service Road	10	10	-	-	
5	Major Junction	28	28	-	-	
6	Minor Junction (Typical)	114	114	-	-	
7	Toll Plaza	82	82	-	-	
8	Typical Details of Sign Boards & Road Marking	37	37	-	-	
9	Truck Lay-Bay (Typical)	5	5	-	-	
10	Bus Bay (Typical)	2	2	-	-	
11	Median Opening (Typical)	1	1	-	-	
Total (Highways)		388	385	-	-	
B	STRUCTURES					
1	Drains	29	29	-	-	
2	Major Bridge	56	56	-	-	
3	Flyovers	35	35	-	-	
4	Minor Bridges	82	82	-	-	
5	ROB's	100	100	-	-	
6	Vehicular Underpass	9	9	-	-	
7	Box Culvert	198	198	-	-	
8	RE Wall	39	39	-	-	
9	Retaining Wall	42	42	-	-	
Total (Structures)		590	590	-	-	

ANNEXURE G – PROGRESS CHART OF ROAD WORK



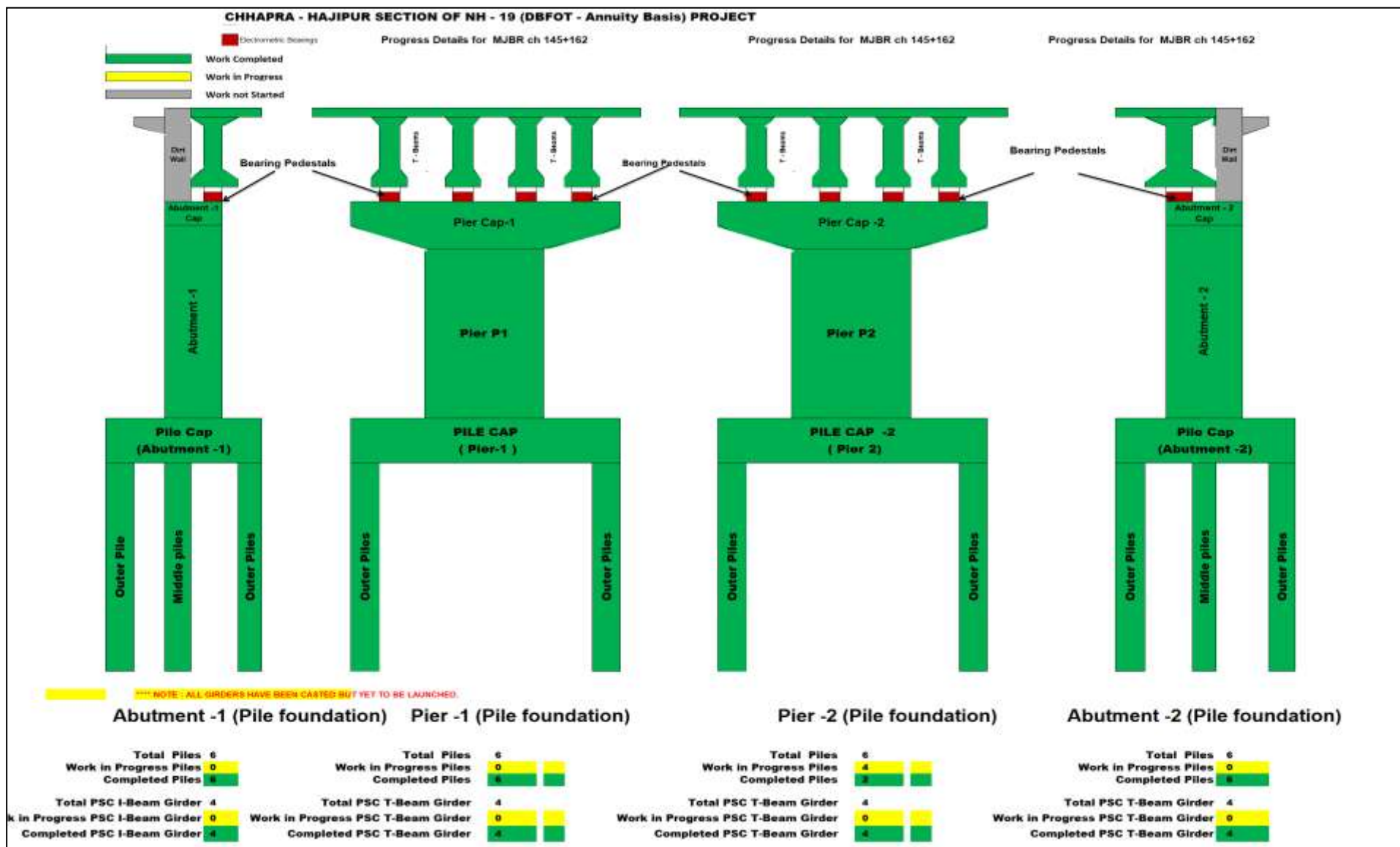


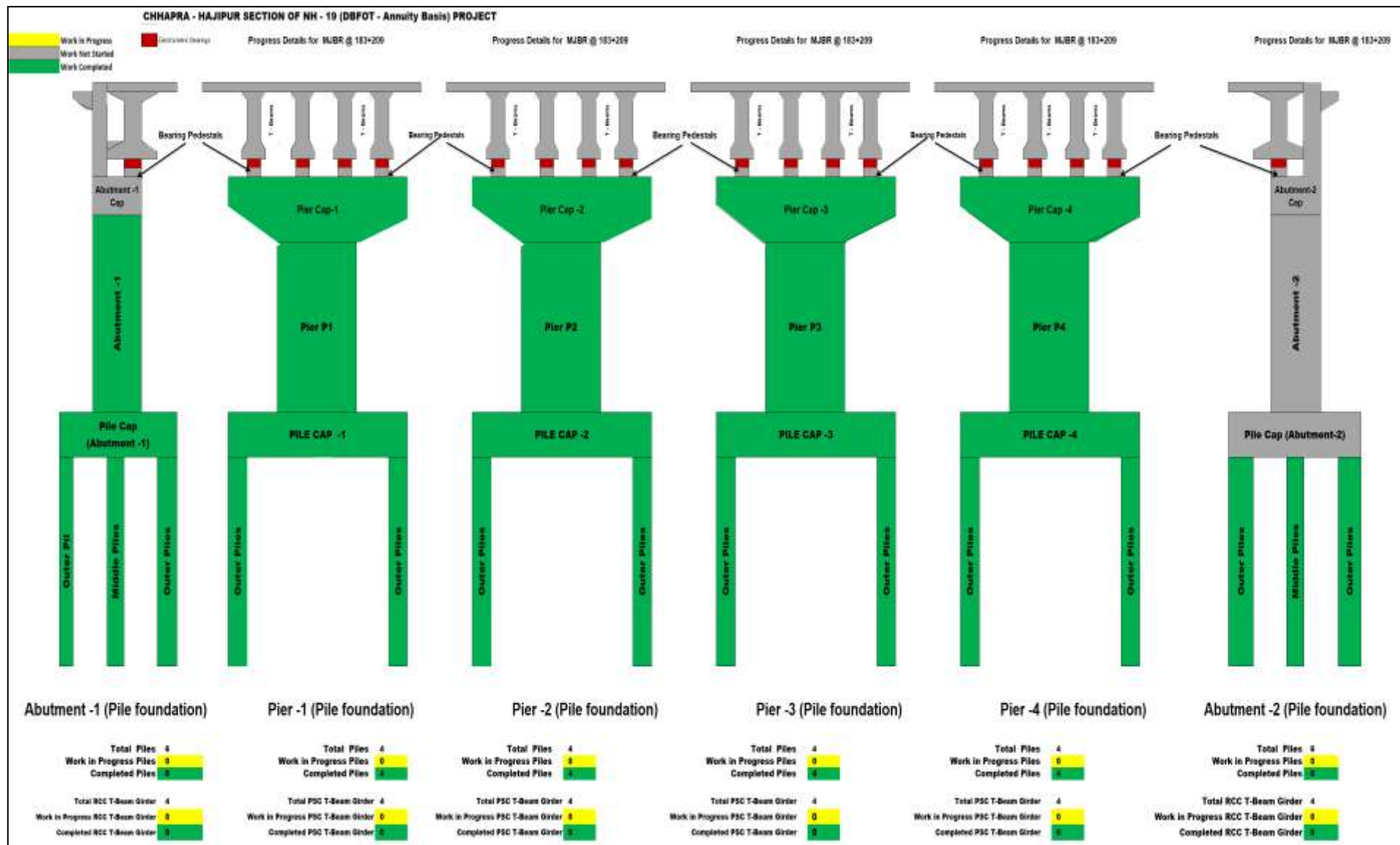


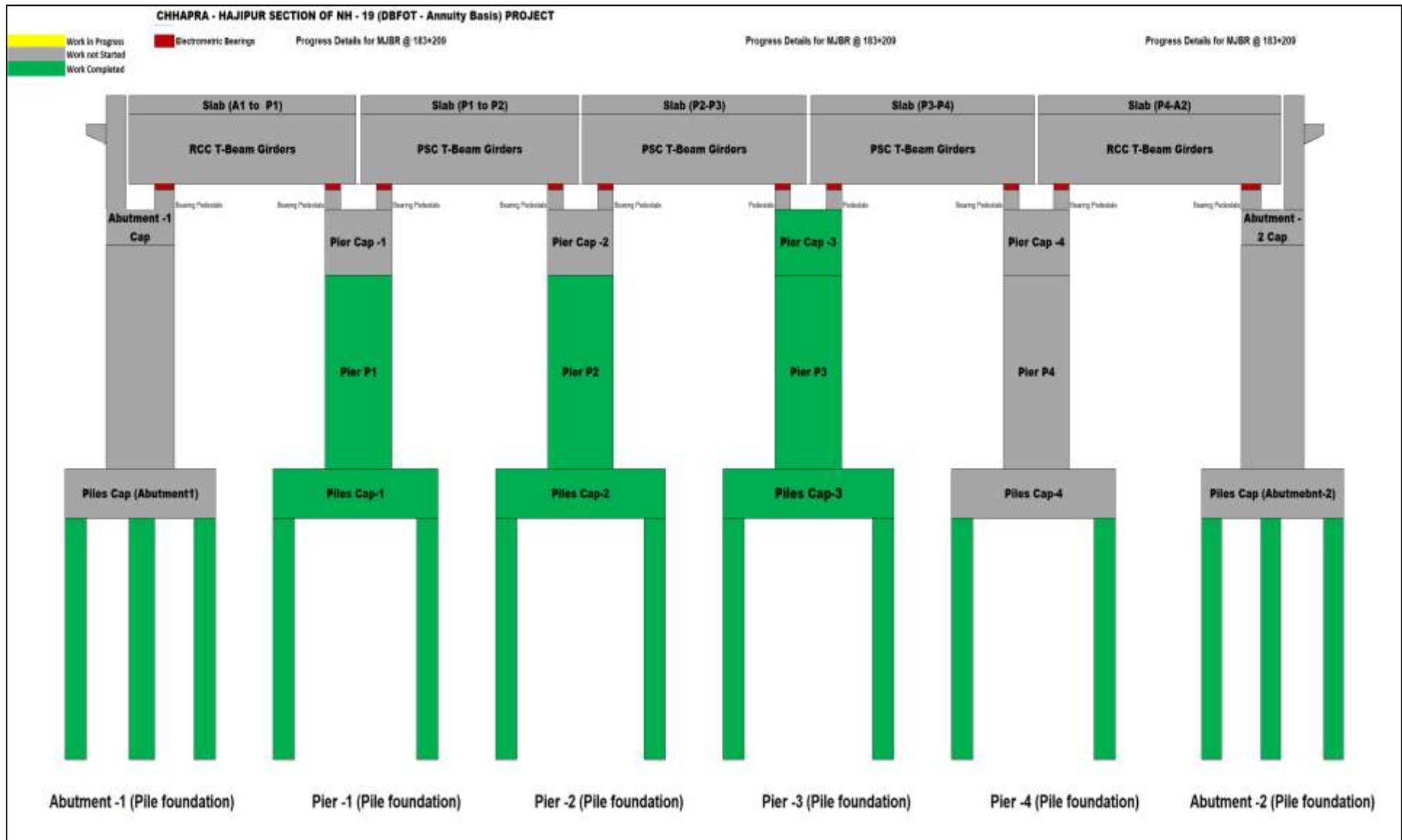
ANNEXURE H – PROGRESS CHART OF MAJOR BRIDGE

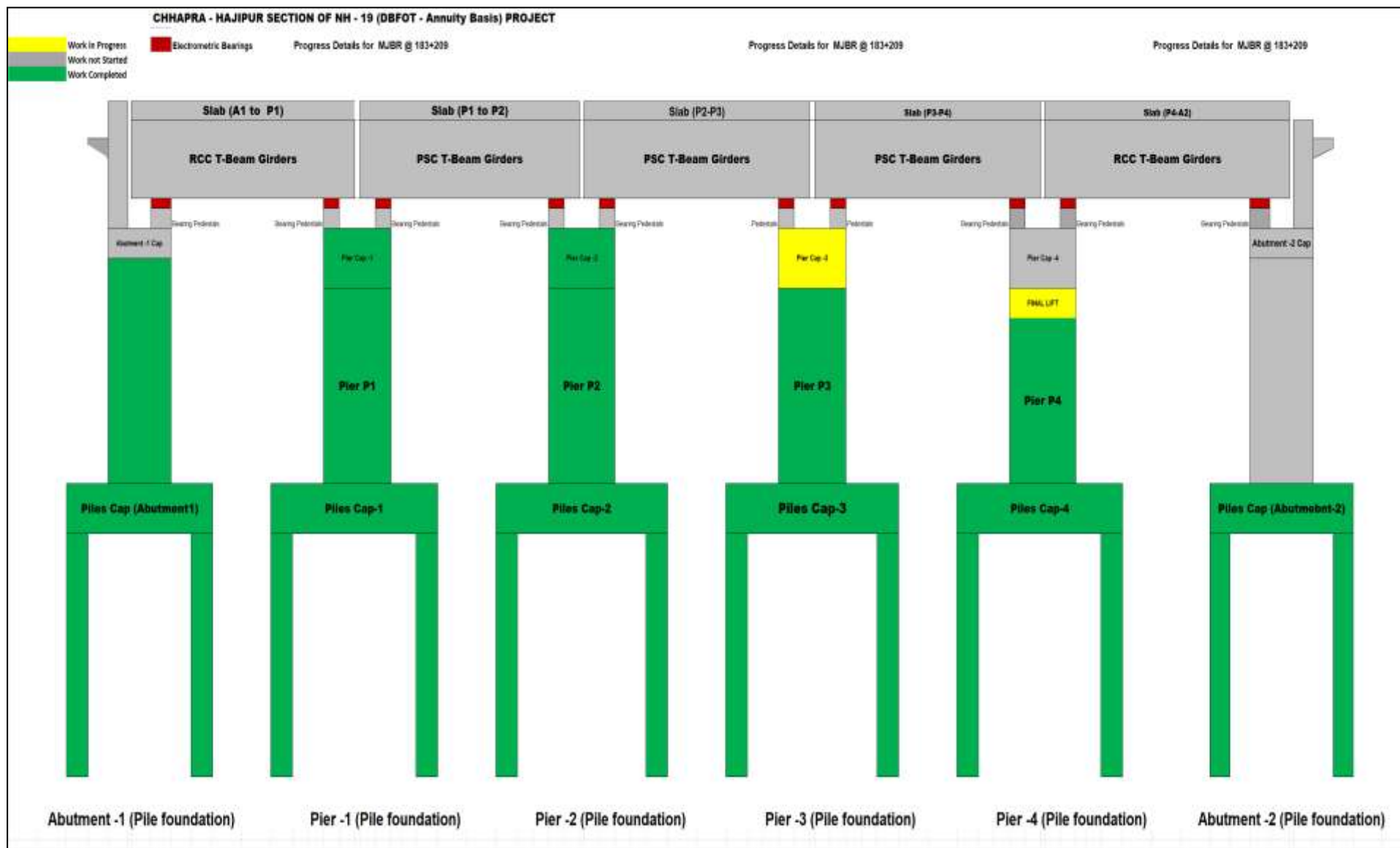
Chainage (Kms)	LHS						LHS	RHS					
	Protection works	Super structure	Abt/Pier Cap	Sub-structure	Foundation	Excavation	Part	Excavation	Foundation	Sub-structure	Abt/Pier Cap	Super structure	Protection works
145+162							Abutment	LHS Side Only (Chhapra Bypass-Two Lane)					
							Piers						
183+209							Abutment						
							Piers						
206+436							Abutment	EXISTING BRIDGE					
							Piers						
Legend : Completed Work in Progress													
Note: Chhapra Bypass (143+200 to 158+200) Two Lane Only (LHS)													

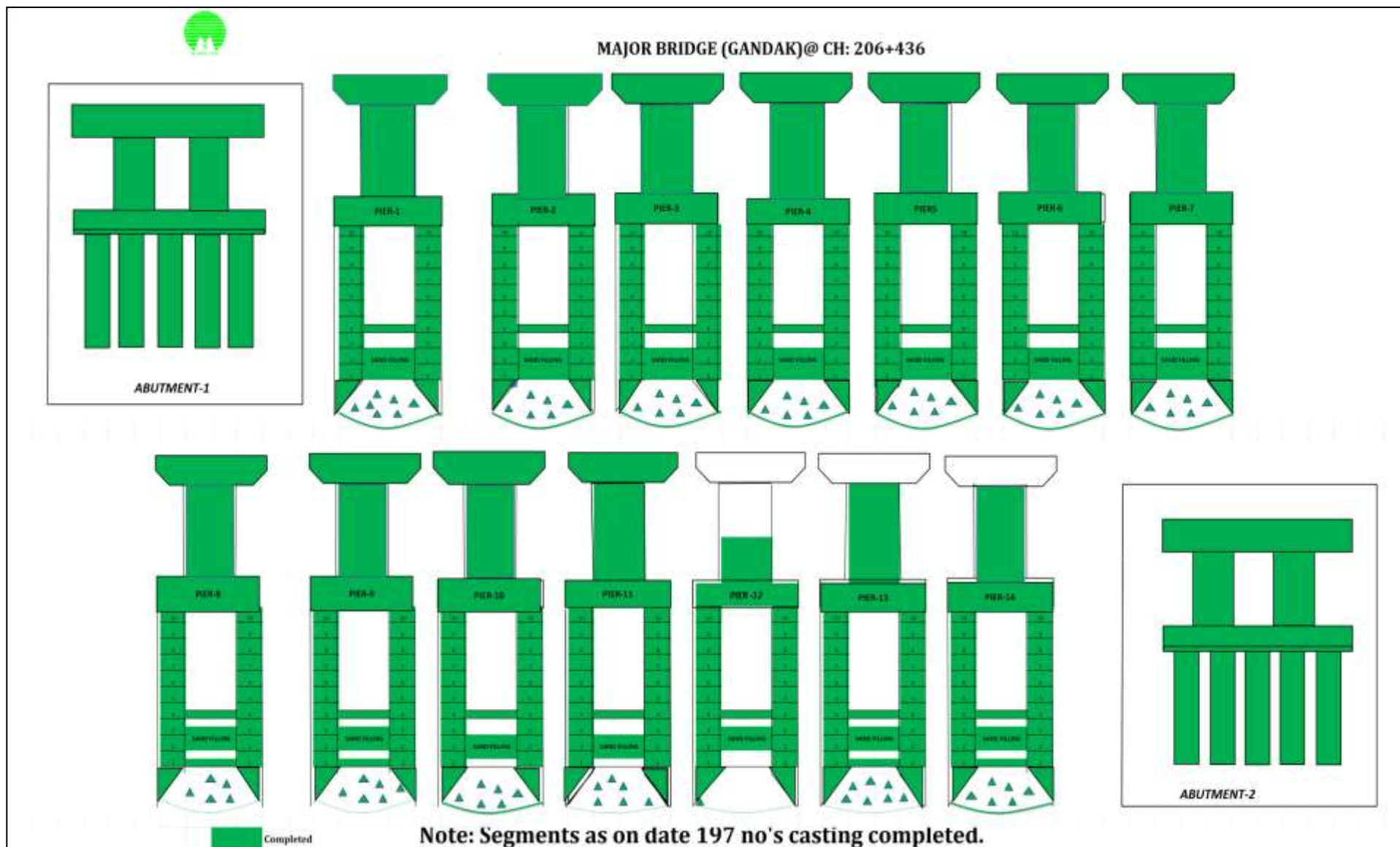
Major Bridge at km 145+162











Chainage (Kms)	LHS						Part	RHS					
	Protection Works	Super Structure	Abutment / Pier Cap	Sub - Structure	Foundation	Excavation		Excavation	Foundation	Sub – Structure	Abutment / Pier Cap	Super Structure	Protection Works
143+508							Abutment Walls						
							Middle Walls						
146+512							Abutment Walls						
							Middle Walls						
148+495							Abutment Walls						
							Middle Walls						
152+430							Abutment Walls						
152+933							Abutment Walls						
							Middle Walls						
153+210							Abutment Walls						
155+365							Abutment Walls						
156+250							Abutment Walls						

Chainage (Kms)	LHS						Part	RHS					
	Protection Works	Super Structure	Abutment / Pier Cap	Sub - Structure	Foundation	Excavation		Excavation	Foundation	Sub - Structure	Abutment / Pier Cap	Super Structure	Protection Works
157+175	5%						Abutment						
157+490	5%						Abutment Walls						
	5%						Middle Walls						
158+864							Abutment Walls						
172+189	EXISTING BRIDGE						Abutment Walls						
							Middle Walls						
185+921							Abutment Walls						
187+037							Abutment Walls						
							Middle Walls						
194+718							Abutment Walls						
							Middle Walls						
203+156							Abutment Walls						

Chainage (Kms)	LHS						Part	RHS					
	Protection Works	Super Structure	Abutment / Pier Cap	Sub - Structure	Foundation	Excavation		Excavation	Foundation	Sub - Structure	Abutment / Pier Cap	Super Structure	Protection Works
							Middle Walls	EXISTING BRIDGE					
204+535	EXISTING BRIDGE						Abutment						
							Piers						

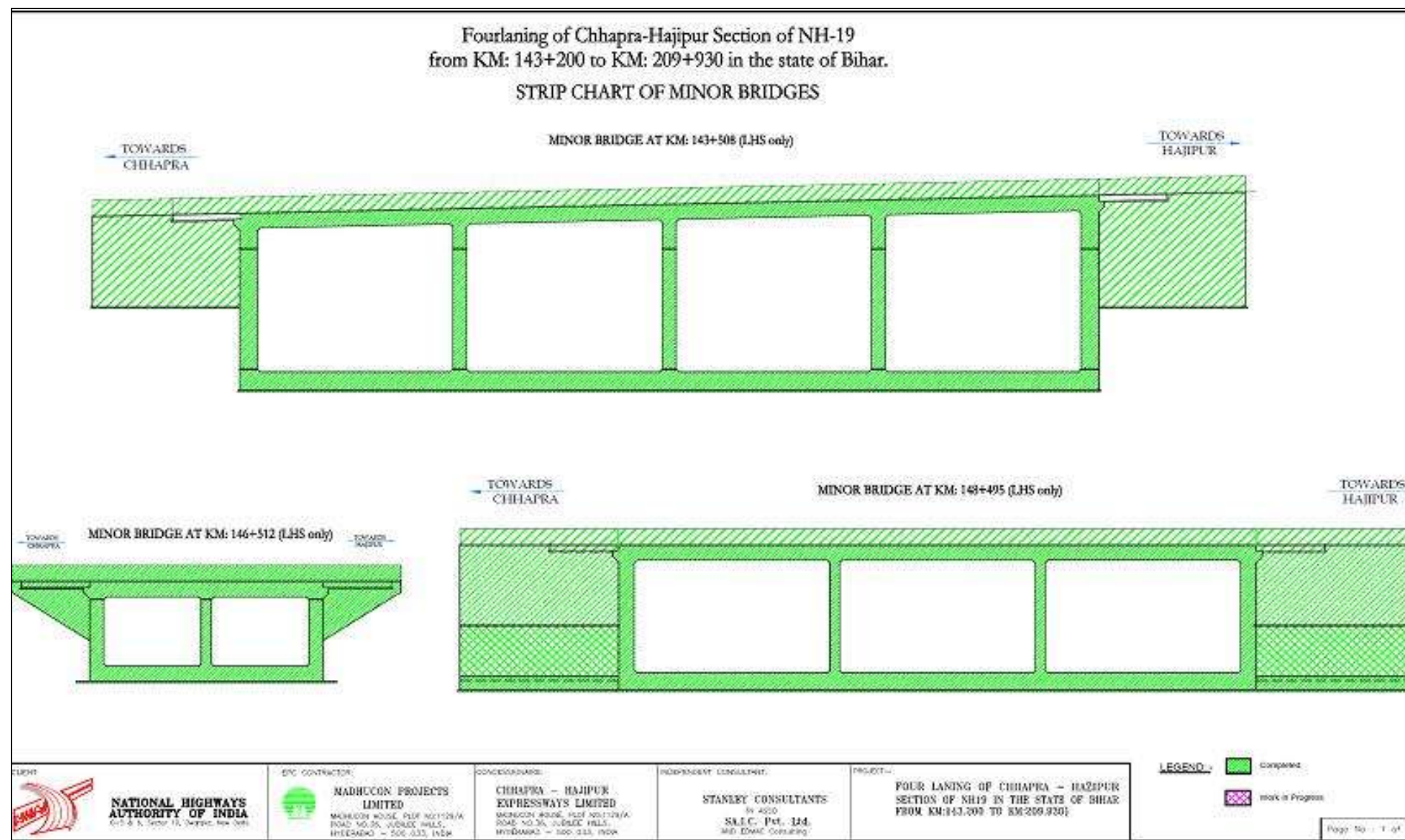
Legend :

Completed

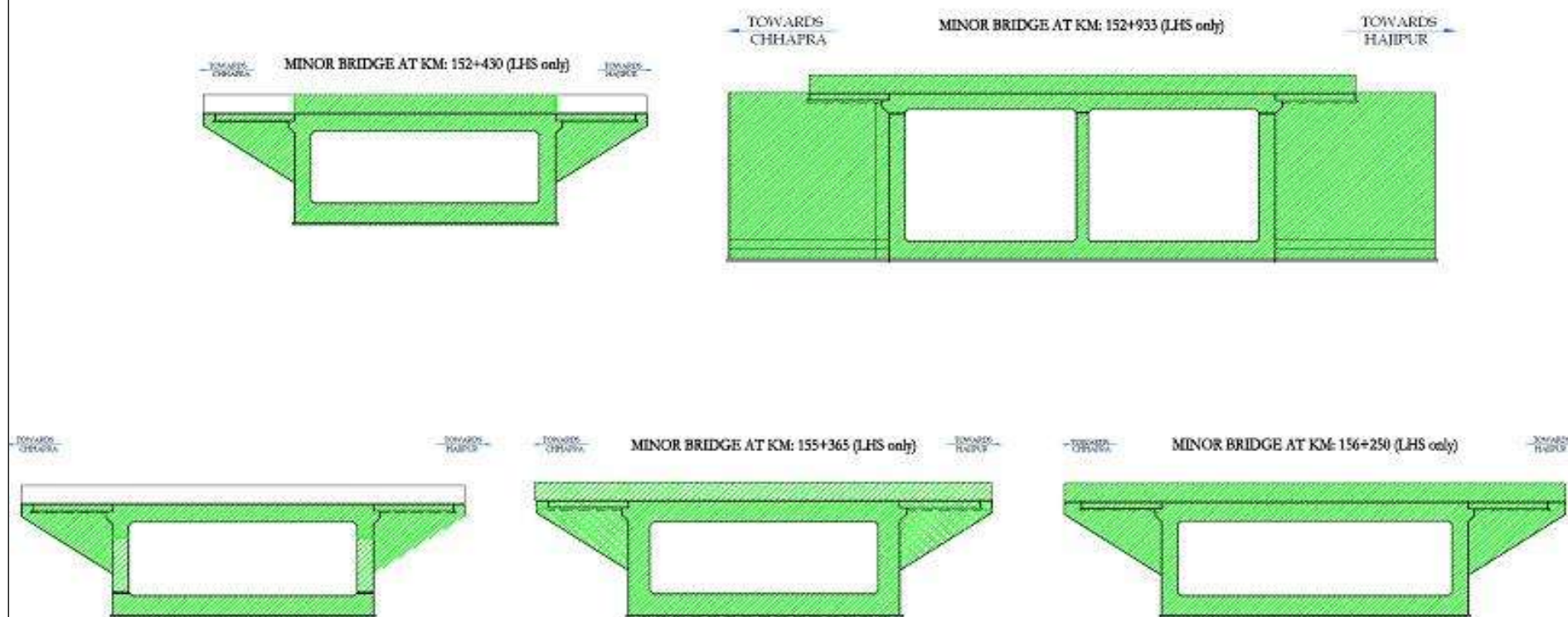


Work in Progress





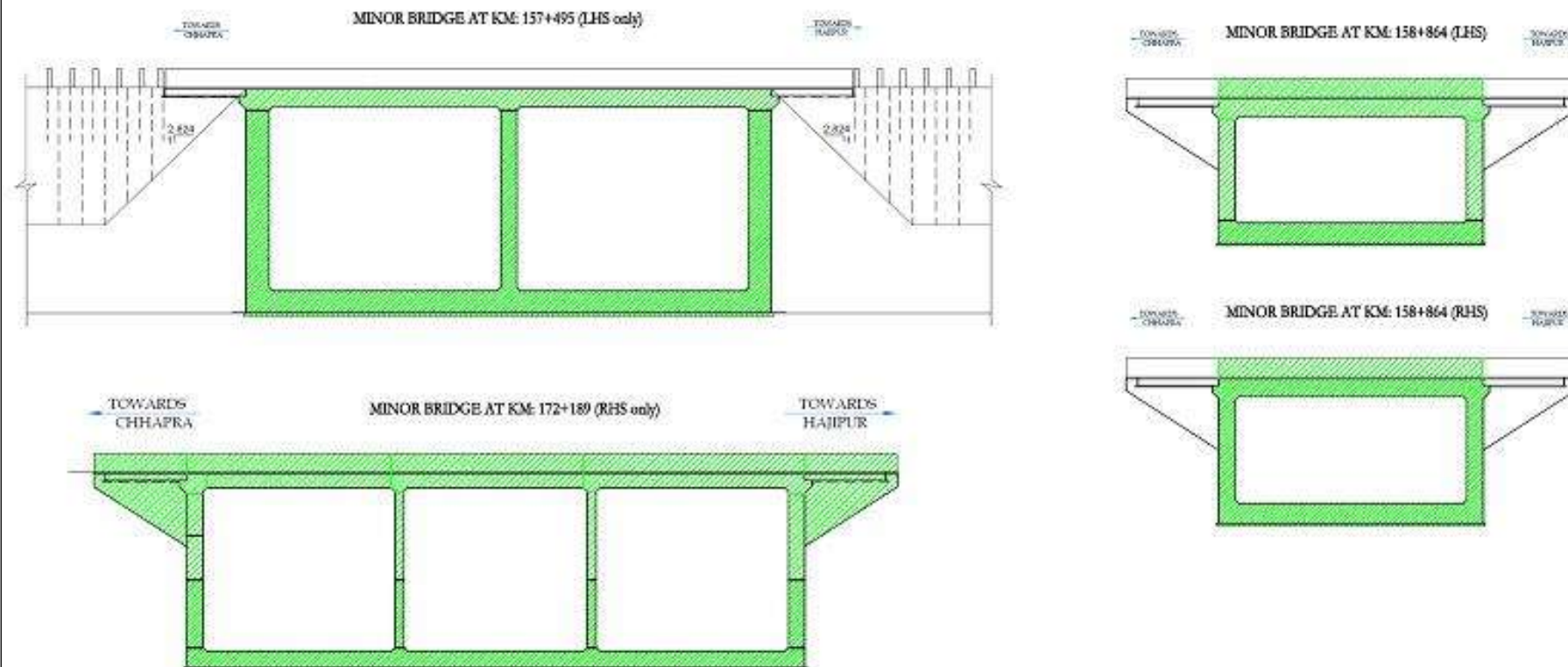
Fourlaning of Chhapra-Hajipur Section of NH-19
from KM: 143+200 to KM: 209+930 in the state of Bihar.
STRIP CHART OF MINOR BRIDGES



 <p>NATIONAL HIGHWAYS AUTHORITY OF INDIA G-13 & 14, Sector 13, Gurgaon, New Delhi</p>	<p>EPC CONTRACTOR:</p> <p> MADHUCOR PROJECTS LIMITED MADHUCOR HOUSE, PLOT NO-129/A ROAD NO. 36, JUBILEE HILLS, HYDERABAD - 500 033, INDIA</p>	<p>CONCESSOR/OWNER:</p> <p>CHHAPRA - HAJIPUR EXPRESSWAYS LIMITED MADHUCOR HOUSE, PLOT NO-129/A ROAD NO. 36, JUBILEE HILLS, HYDERABAD - 500 033, INDIA</p>	<p>INDEPENDENT CONSULTANT:</p> <p>STANLEY CONSULTANTS In AGG S.A.I.C. Pvt. Ltd. AND ASSOC. CONSULTING</p>	<p>PROJECT:-</p> <p>FOUR LANING OF CHHAPRA - HAJIPUR SECTION OF NH-19 IN THE STATE OF BIHAR FROM KM:143.200 TO KM:209.930)</p>	<p>LEGEND:-</p> <p> Completed</p> <p> Work in Progress</p> <p>Page No. : 2</p>
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Fourlaning of Chhapra-Hajipur Section of NH-19
from KM: 143+200 to KM: 209+930 in the state of Bihar.

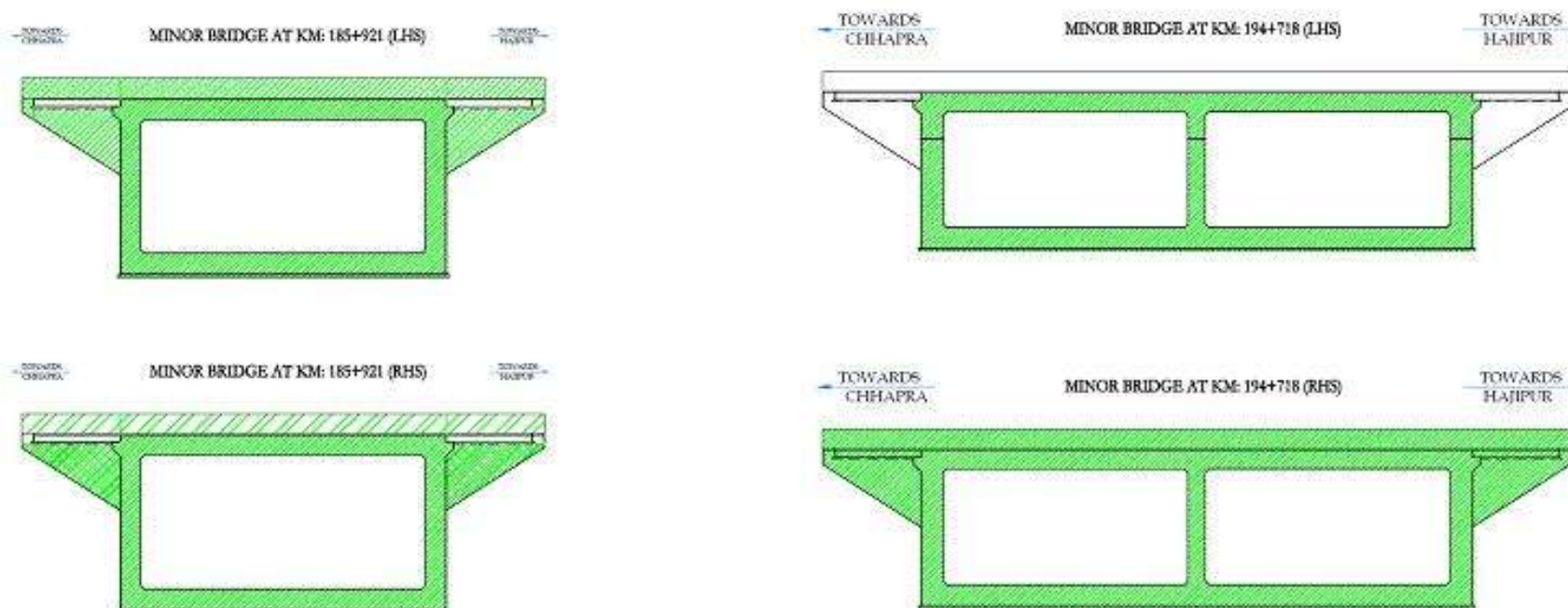
STRIP CHART OF MINOR BRIDGES



<p>CLIENT</p>  <p>NATIONAL HIGHWAYS AUTHORITY OF INDIA G-3 & E, Sector 16, Gurgaon, Haryana</p>	<p>ERC CONTRACTOR</p>  <p>MADHUCOR PROJECTS LIMITED MADHUCOR HOUSE, PLOT NO. 112/2/A ROAD NO. 36, JUBILEE HILLS, HYDERABAD - 500 033, INDIA</p>	<p>CONVEYORANCE</p> <p>CHHAPRA - HAJIPUR EXPRESSWAYS LIMITED MADHUCOR HOUSE, PLOT NO. 112/2/A ROAD NO. 36, JUBILEE HILLS, HYDERABAD - 500 033, INDIA</p>	<p>INDEPENDENT CONSULTANT</p> <p>STANLEY CONSULTANTS IN 4000 S.A.I.C. PVT. LTD. R/R 22nd C, Sec 44, Gurgaon</p>	<p>PROJECT</p> <p>FOUR LANING OF CHHAPRA - HAJIPUR SECTION OF NH19 IN THE STATE OF BIHAR FROM KM:143.200 TO KM:209.930</p>	<p>LEGEND</p> <ul style="list-style-type: none">  Completed  Work in Progress <p>Page No. 15 of 6</p>
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Fourlaning of Chhapra-Hajipur Section of NH-19
from KM: 143+200 to KM: 209+930 in the state of Bihar.

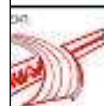
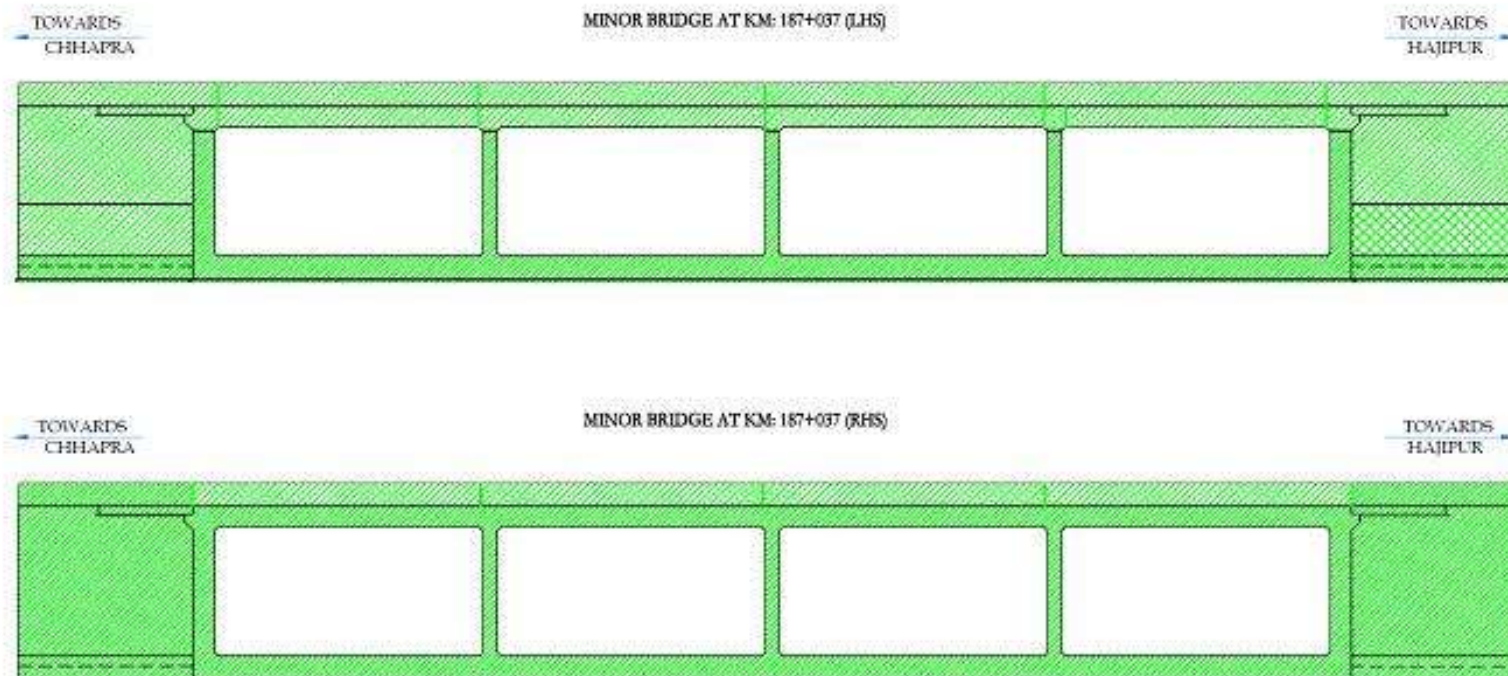
STRIP CHART OF MINOR BRIDGES



<p>CLIENT</p>  <p>NATIONAL HIGHWAYS AUTHORITY OF INDIA G-3, B-6, Sector 10, Gurgaon, Haryana</p>	<p>EPIC CONTRACTOR</p>  <p>MADHUCOR PROJECTS LIMITED MADHUCOR HOUSE, PLOT NO. 1129/A, ROAD NO. 36, AJUBLEE HILLS, HYDRABAD - 500 033, INDIA</p>	<p>CONCESSIONAIRE</p> <p>CHHAPRA - HAJIPUR EXPRESSWAYS LIMITED MADHUCOR HOUSE, PLOT NO. 1129/A, ROAD NO. 36, AJUBLEE HILLS, HYDRABAD - 500 033, INDIA</p>	<p>NEEDPOINT CONSULTANT</p> <p>STANLEY CONSULTANTS IN ASS S.A.I.C. Pvt. Ltd. AND EMAC Consulting</p>	<p>PROJECT</p> <p>FOUR LANING OF CHHAPRA - HAJIPUR SECTION OF NH19 IN THE STATE OF BIHAR FROM KM:143.200 TO KM:209.930</p>	<p>LEGEND:-</p> <p> Completed</p> <p> Work in Progress</p>	<p>Page No. : 4 of 6</p>
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Fourlaning of Chhapra-Hajipur Section of NH-19
from KM: 143+200 to KM: 209+930 in the state of Bihar.

STRIP CHART OF MINOR BRIDGES



**NATIONAL HIGHWAYS
AUTHORITY OF INDIA**
P.O. & P. Secy, T.E. Bhadrak, B.K. (NHAI)



**MADHUCON PROJECTS
LIMITED**
MADHUCON HOUSE, PLOT NO-112/IV/A
ROAD NO-26, JUBILEE HILLS,
HYDERABAD - 500 033, INDIA

CONCESSIONARY:

**CHHAPRA - HAJIPUR
EXPRESSWAYS LIMITED**
MADHUCON HOUSE, PLOT NO-112/IV/A
ROAD NO-26, JUBILEE HILLS,
HYDERABAD - 500 033, INDIA

INDEPENDENT CONSULTANT:

STANLEY CONSULTANTS
P. 4020
S.A.I.C. Pvt. Ltd.
400 820MC Consulting

PROJECT -

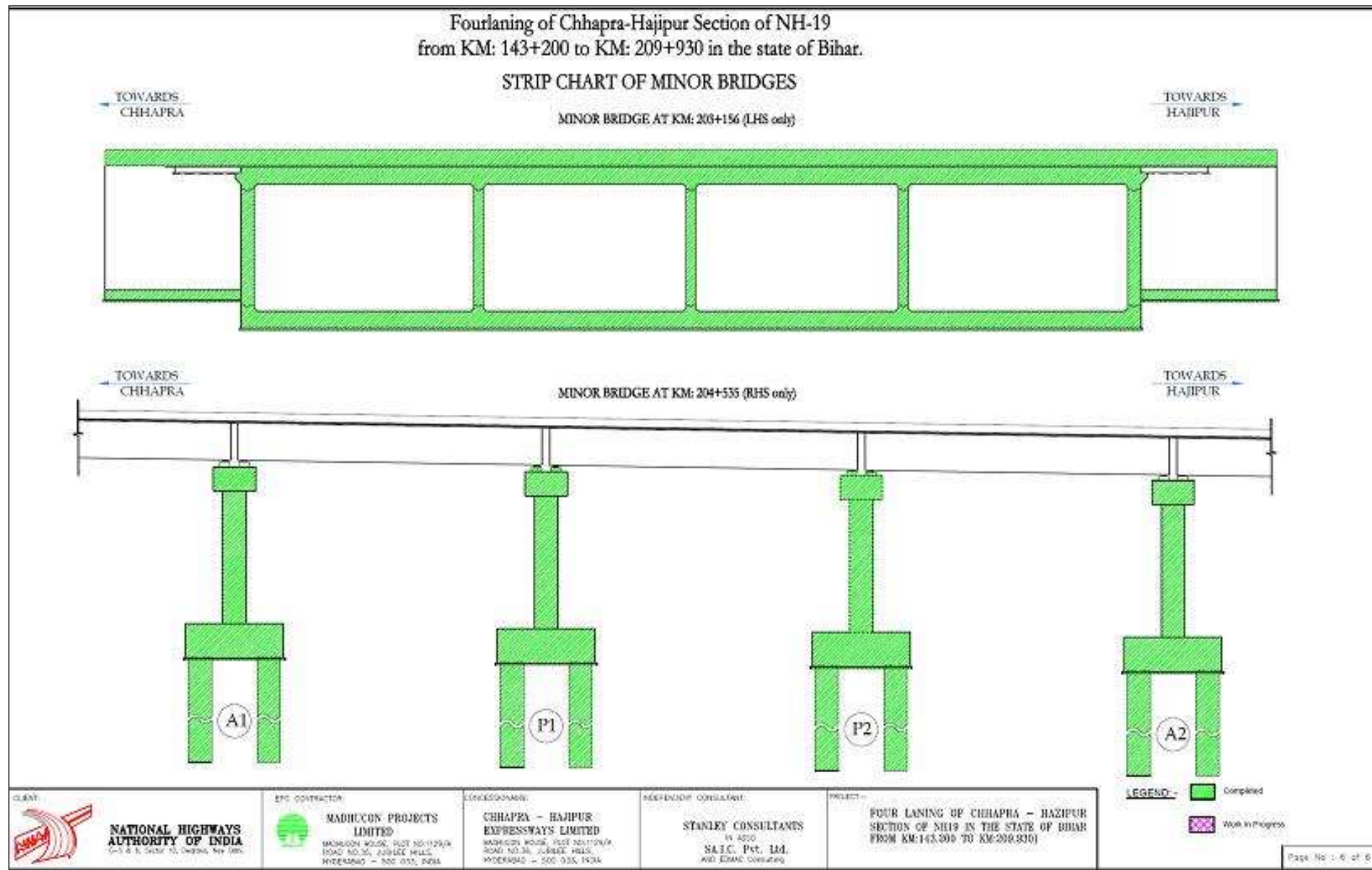
**FOUR LANING OF CHHAPRA - HAJIPUR
SECTION OF NH19 IN THE STATE OF BIHAR
FROM KM:143.200 TO KM:209.930)**

LEGEND:-

Completed

Work in Progress

Page No : 5 of 6



ANNEXURE J – PROGRESS CHART OF ROB, FLYOVER & UNDERPASS

STATUS OF ROB

Chainage (Kms)	LHS							RHS					
	Protection works	Super structure	Abt/Pier Cap	Sub-structure	Foundation	Excavation	Part	Excavation	Foundation	Sub-structure	Abt/Pier Cap	Super structure	Protection works
143+974							Abutment						
							Piers						
150+984							Abutment						
							Piers						
157+860							Abutment						
							Piers						
177+182							Abutment						
							Piers						
209+318							Abutment	EXISTING ROB					
							Piers						

Legend :

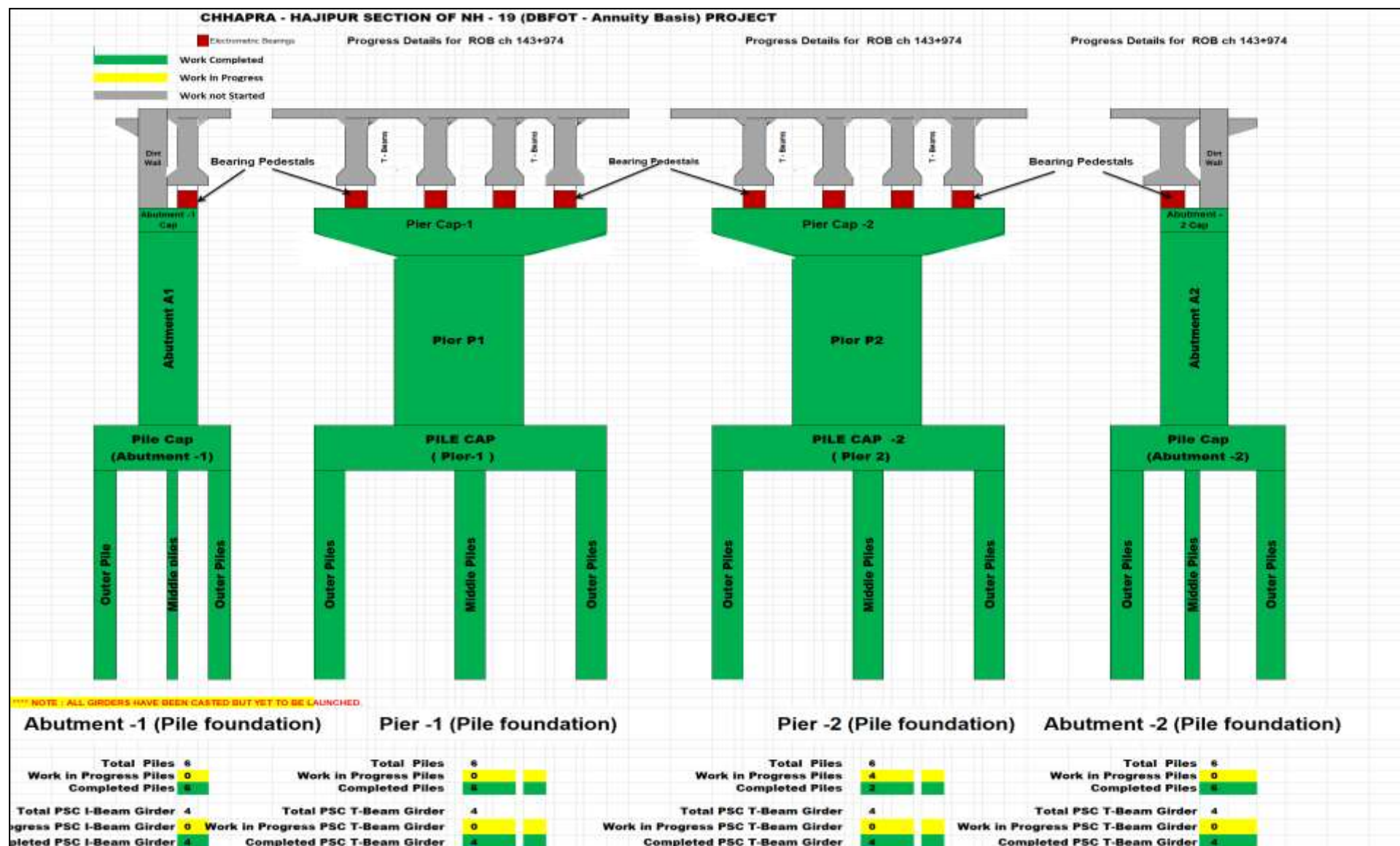
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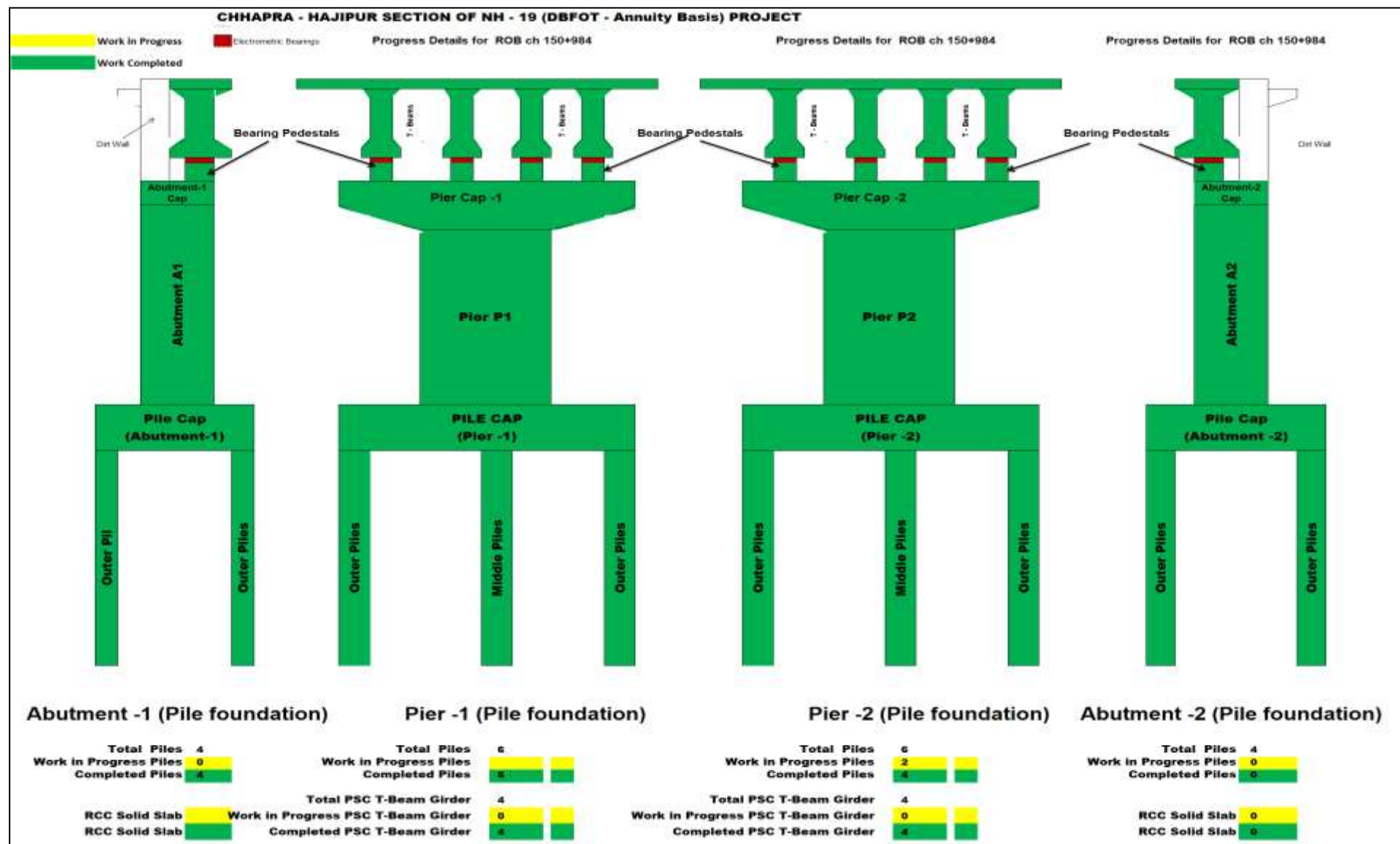


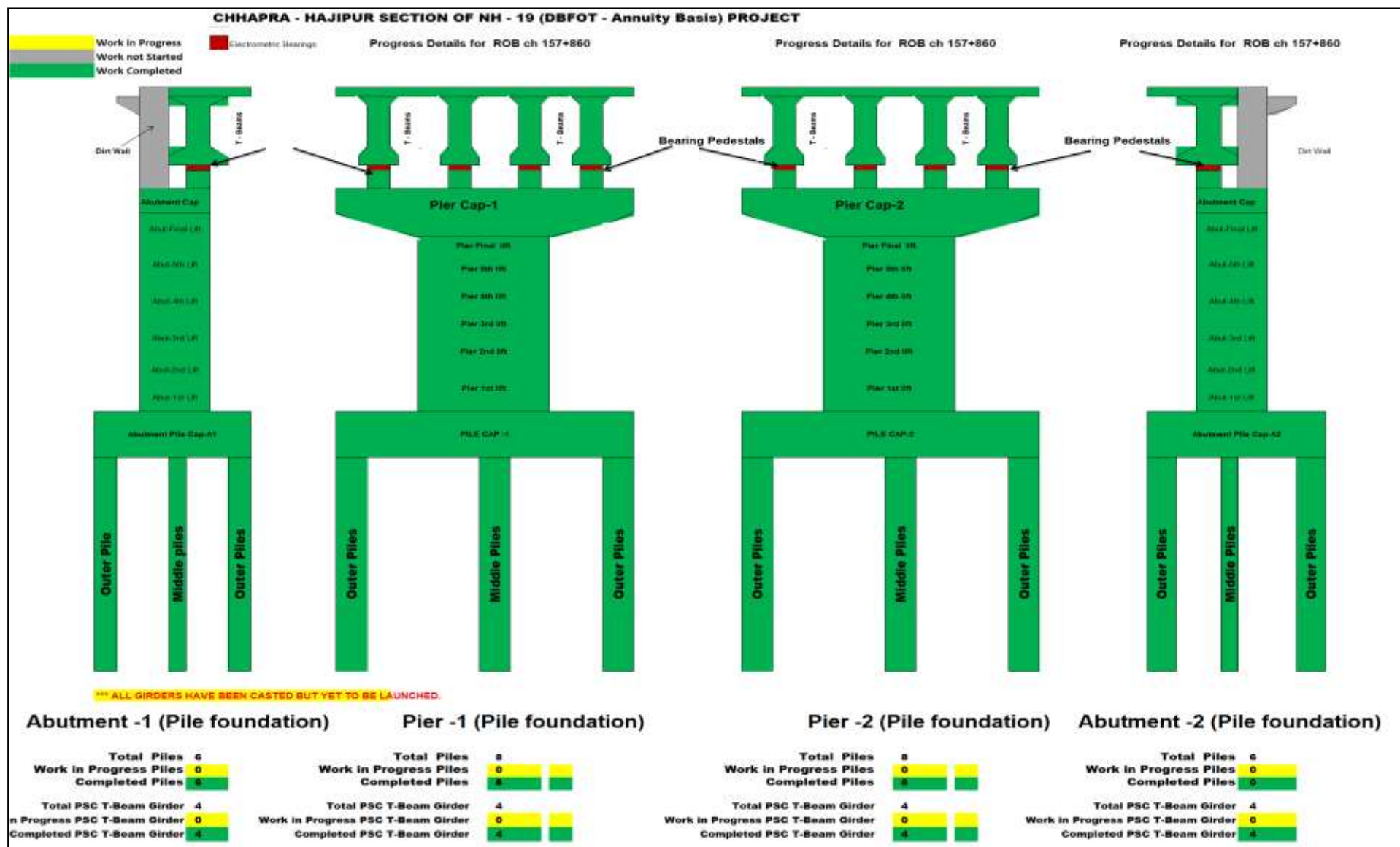
Work in Progress

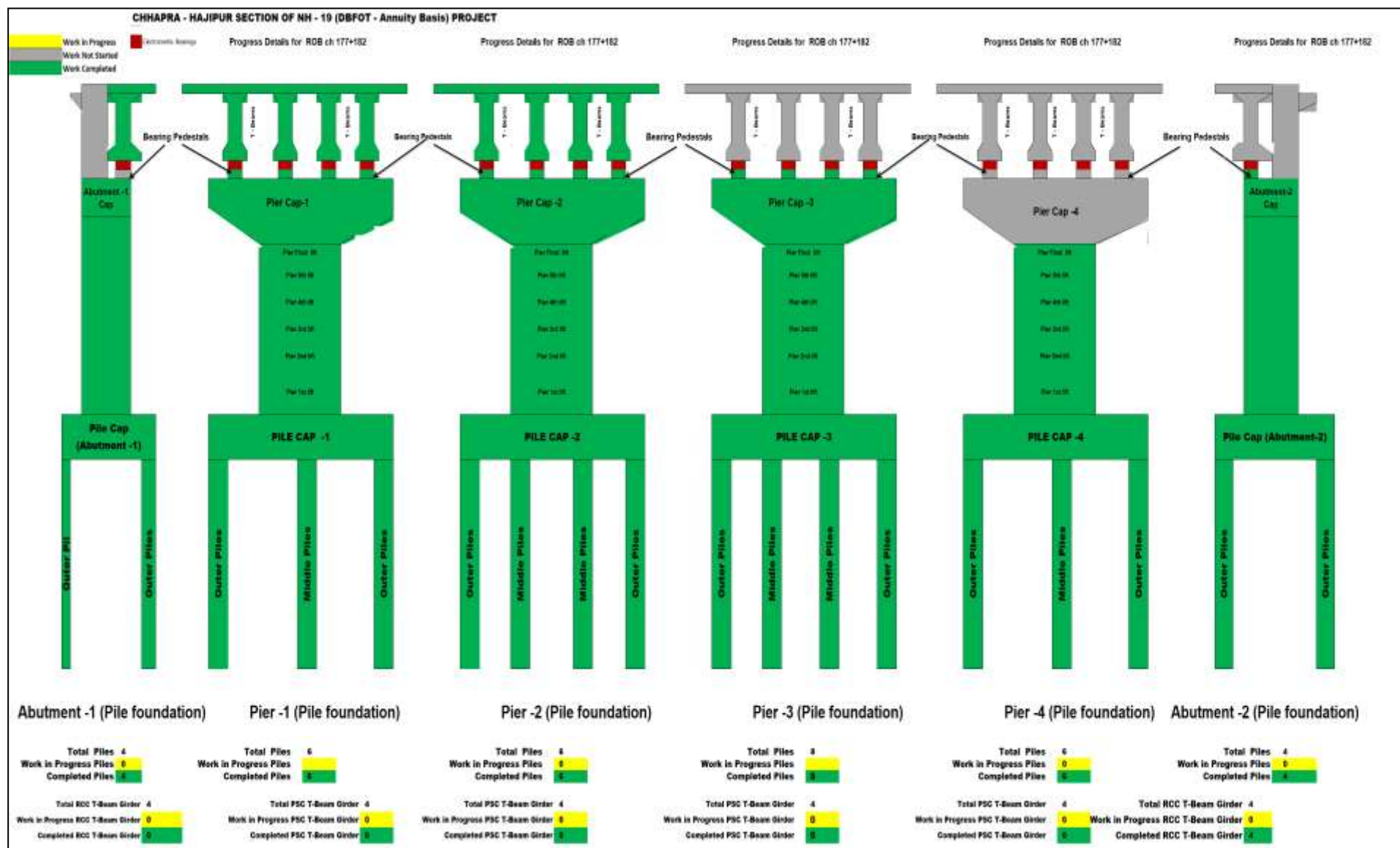


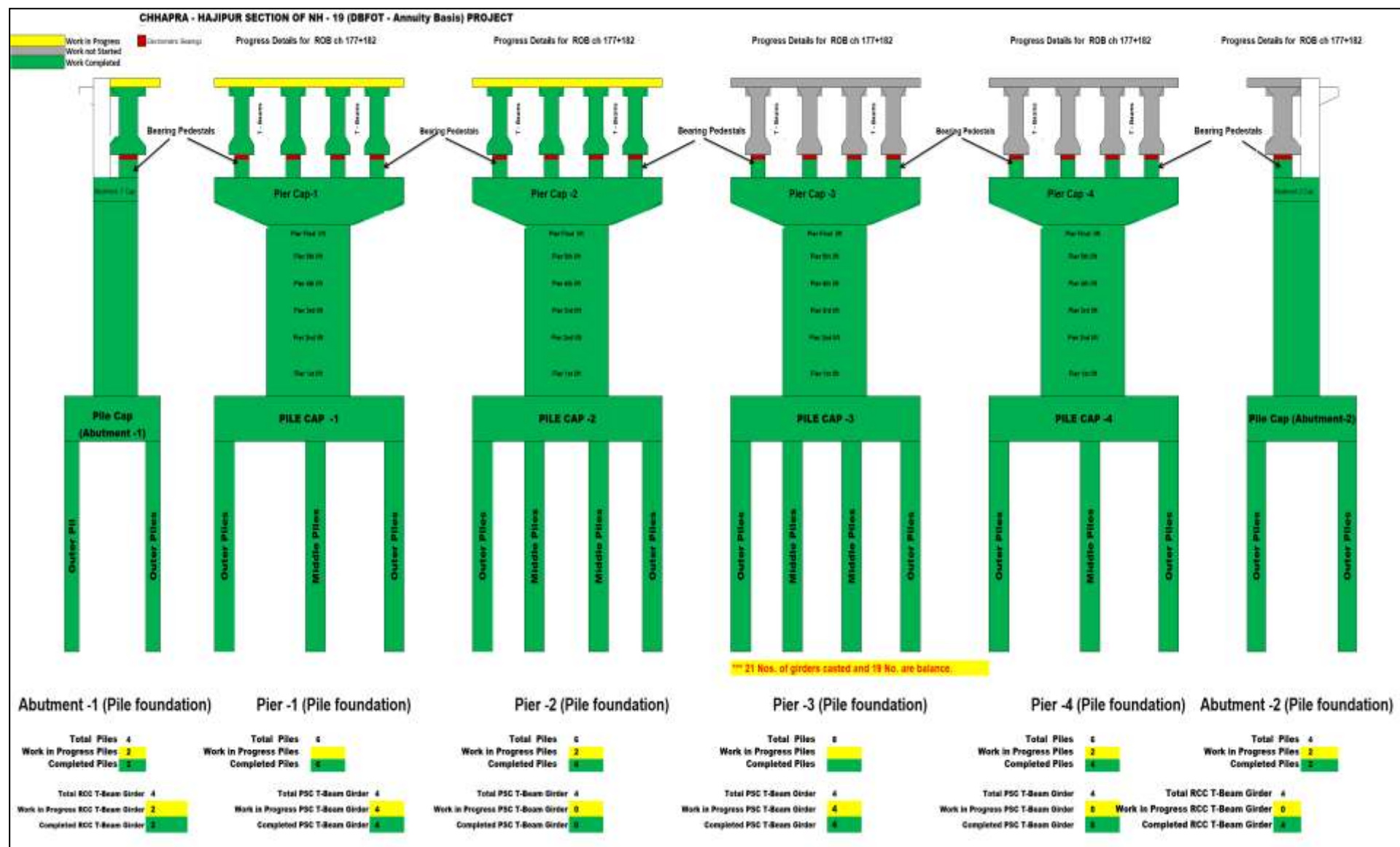
ROB at km 143+974

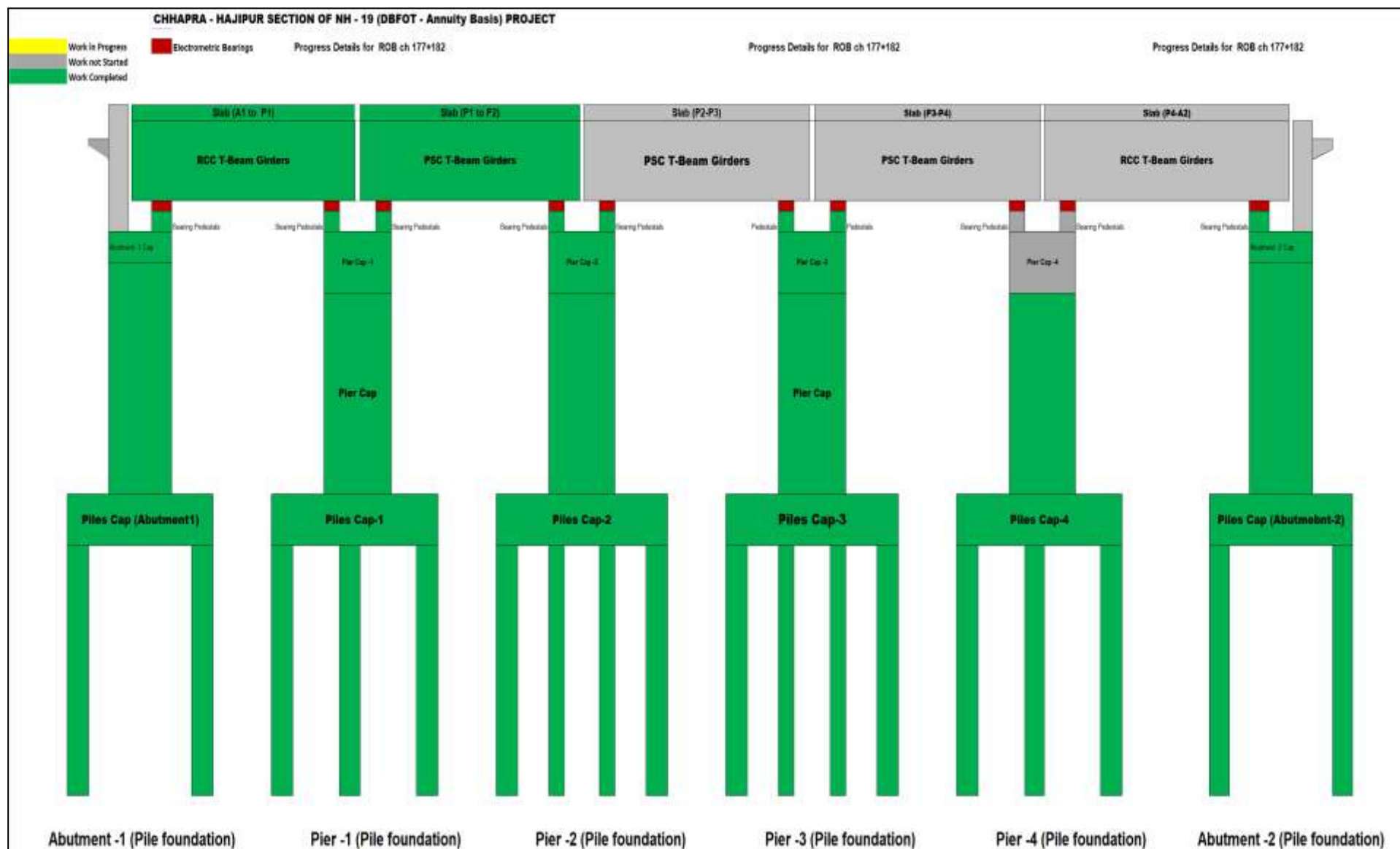


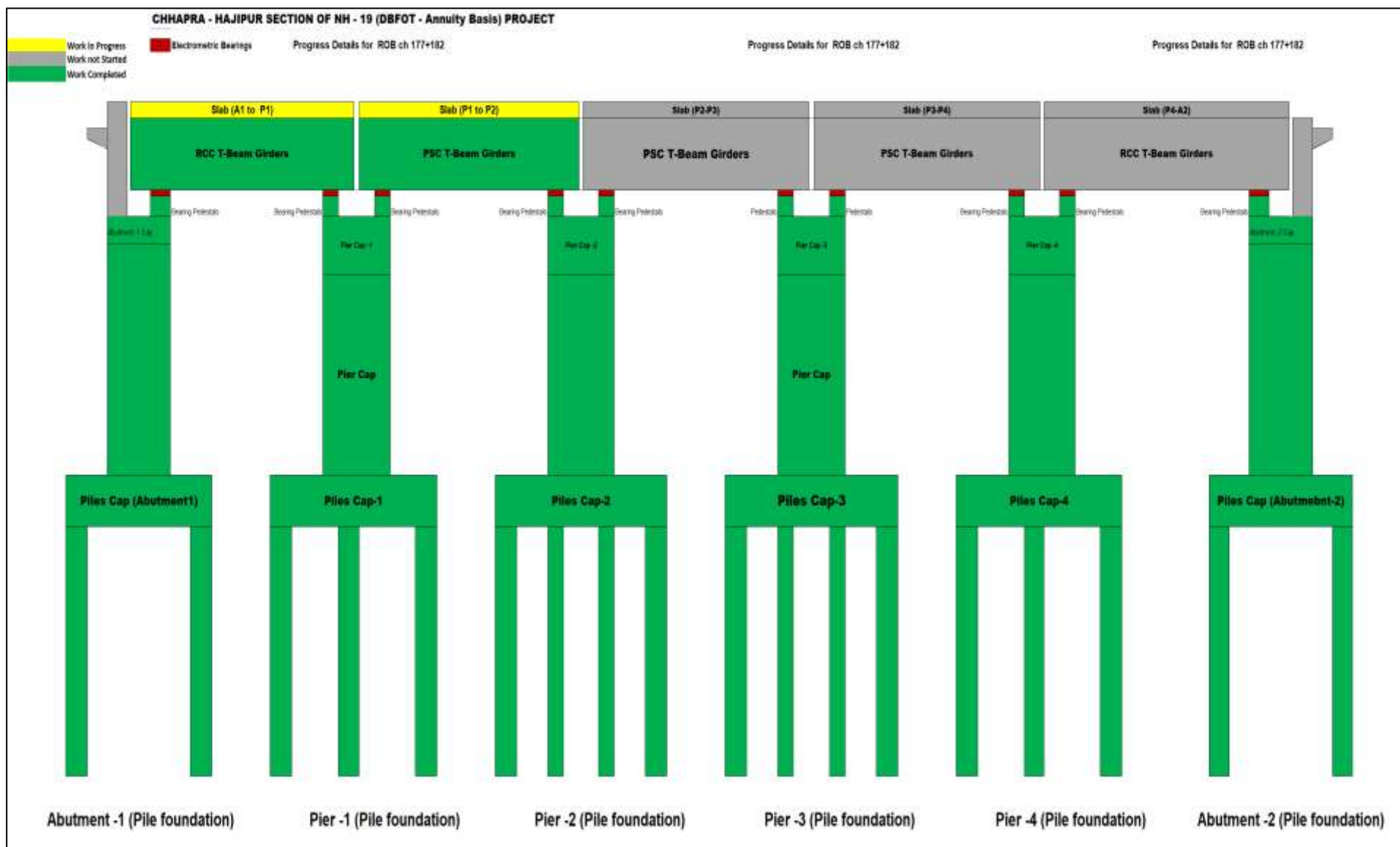




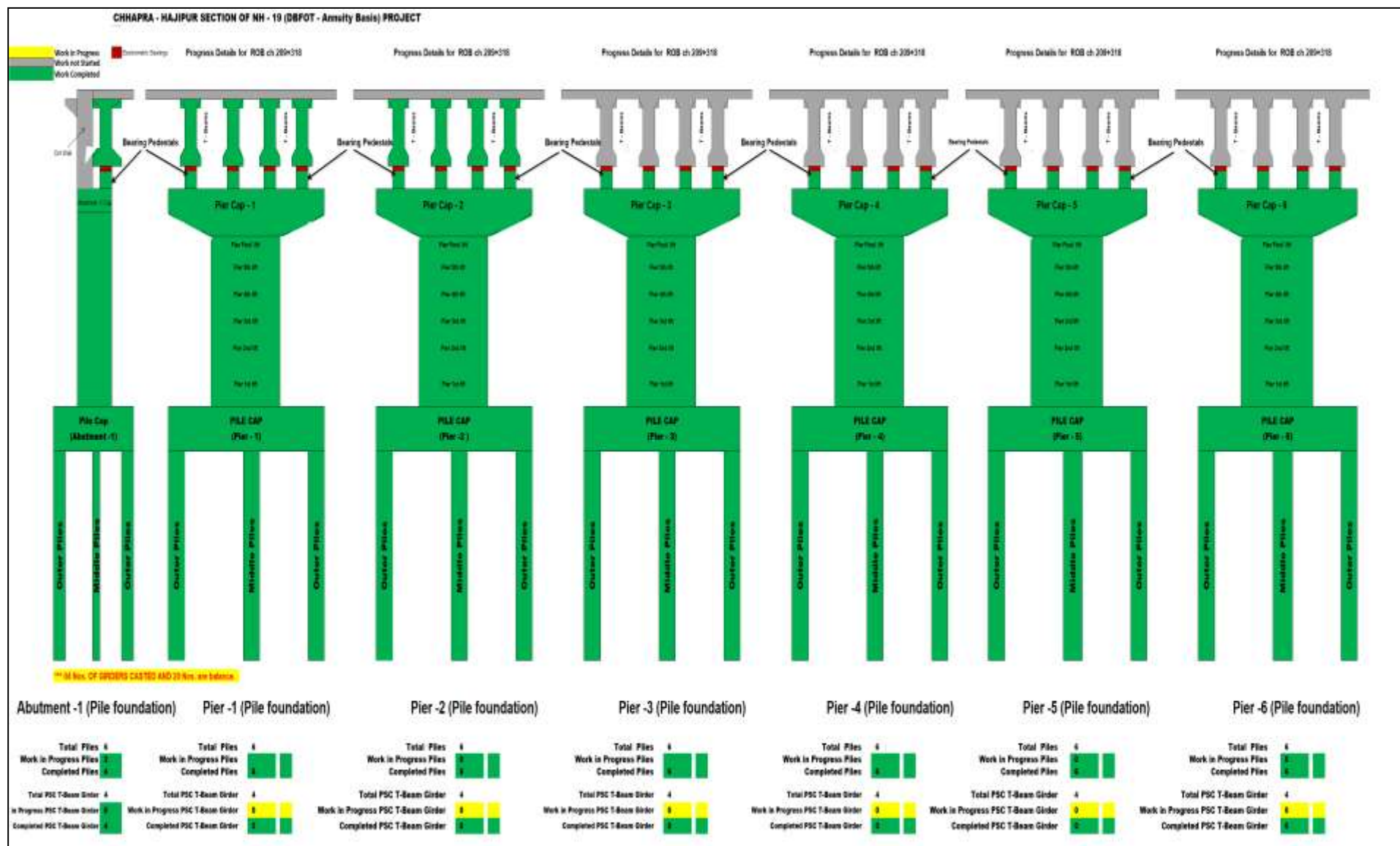


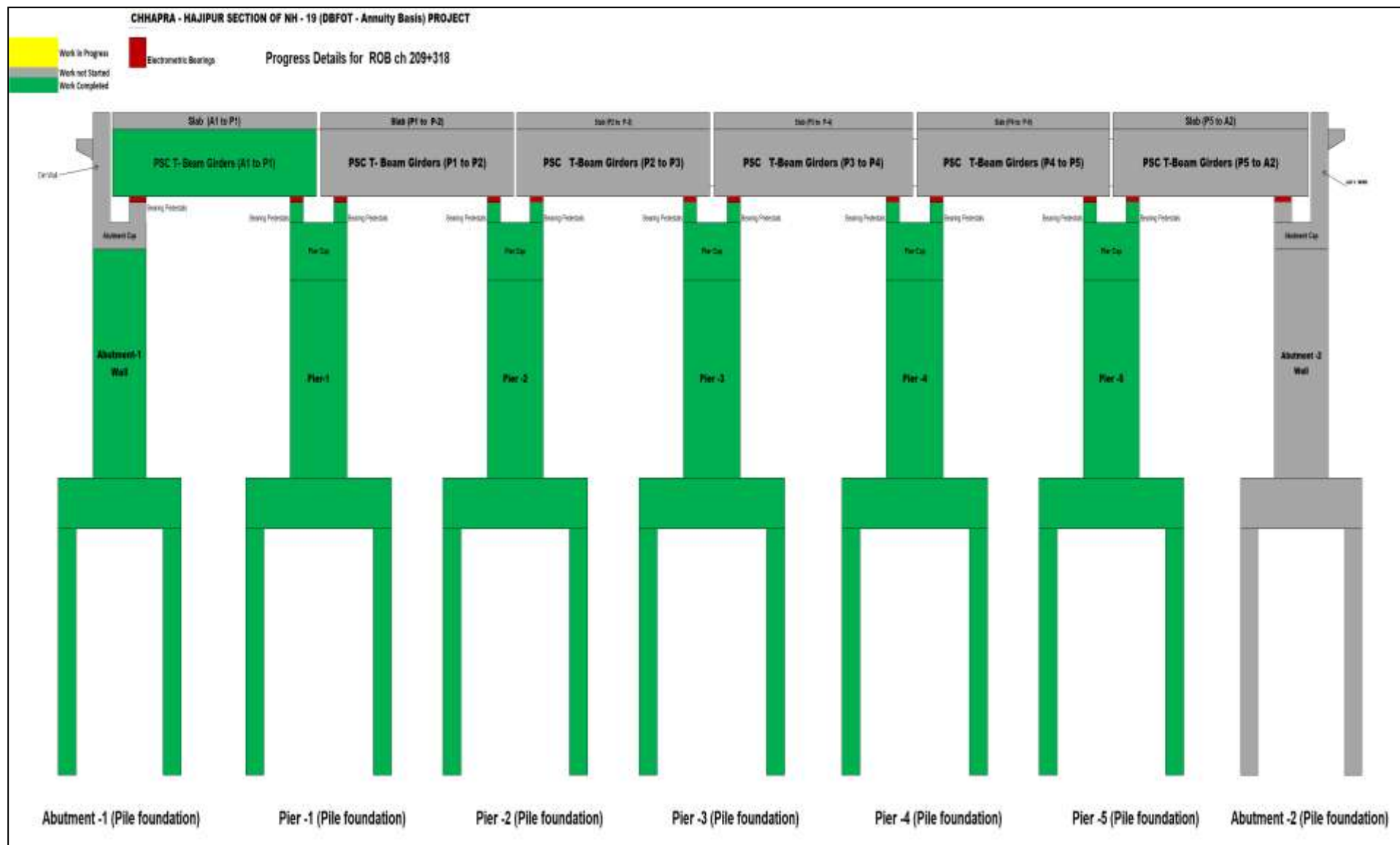






Foundation & Sub Structure

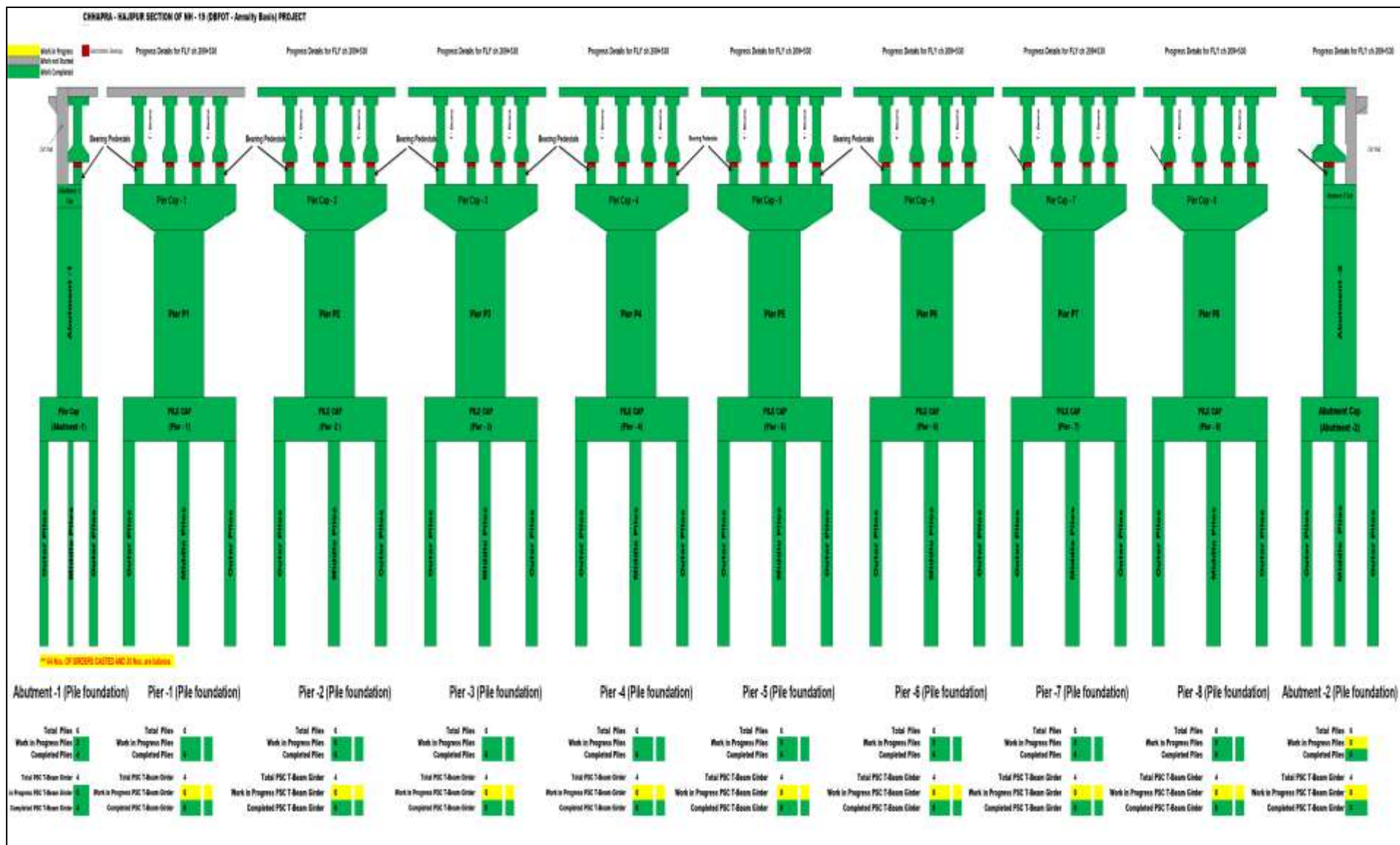




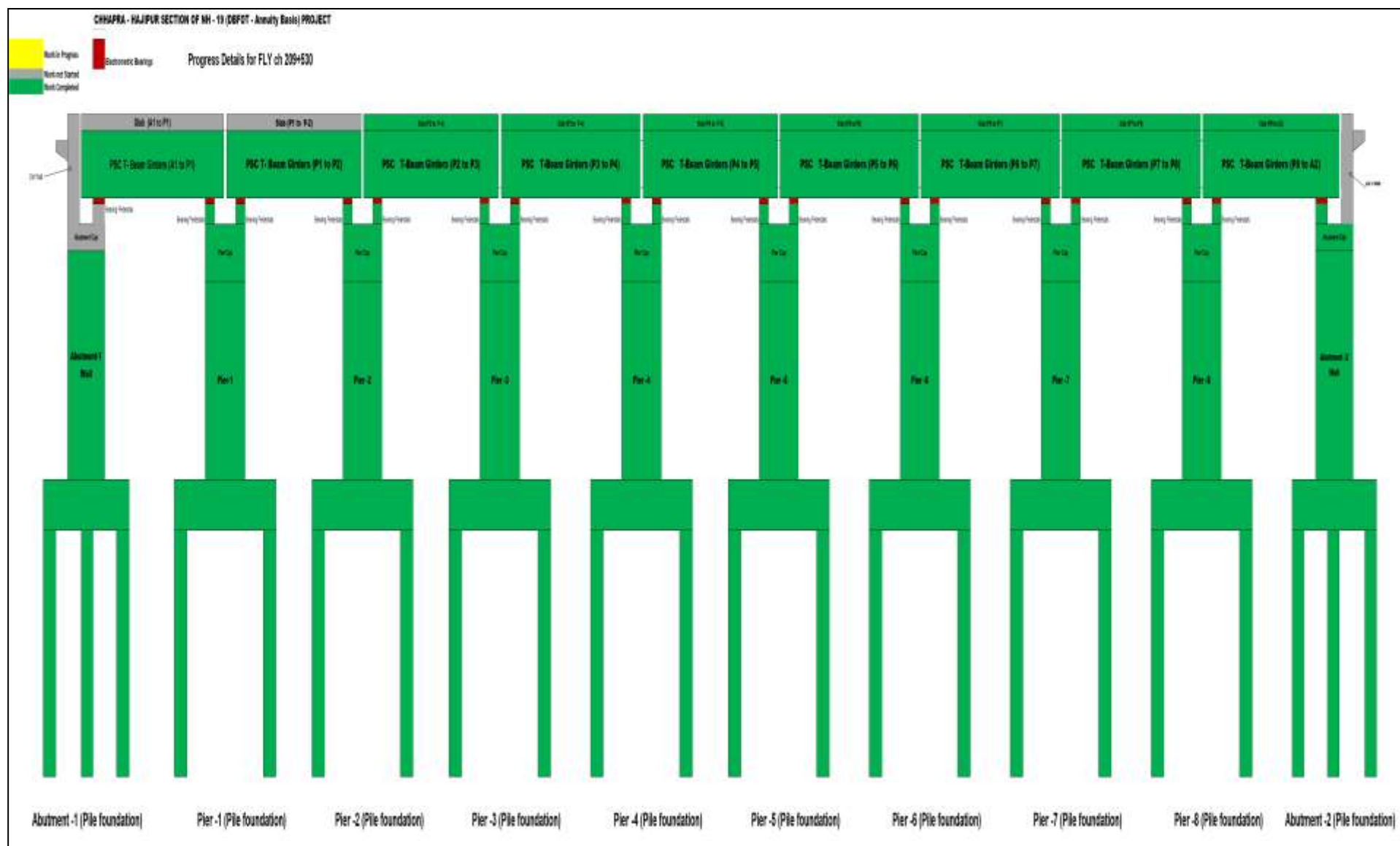
STATUS OF FLYOVER

Chainage (Kms)	LHS							RHS					
	Protection works	Super structure	Abt/Pier Cap	Sub-structure	Foundation	Excavation	Part	Excavation	Foundation	Sub-structure	Abt/Pier Cap	Super structure	Protection works
207+768							Abutment						
							Piers						
209+530							Abutment	EXISTING FLYOVER					
							Piers						
Legend :		Completed					Work in Progress						

Flyover at km 209+530 Foundation & Sub Structure



Super Structure

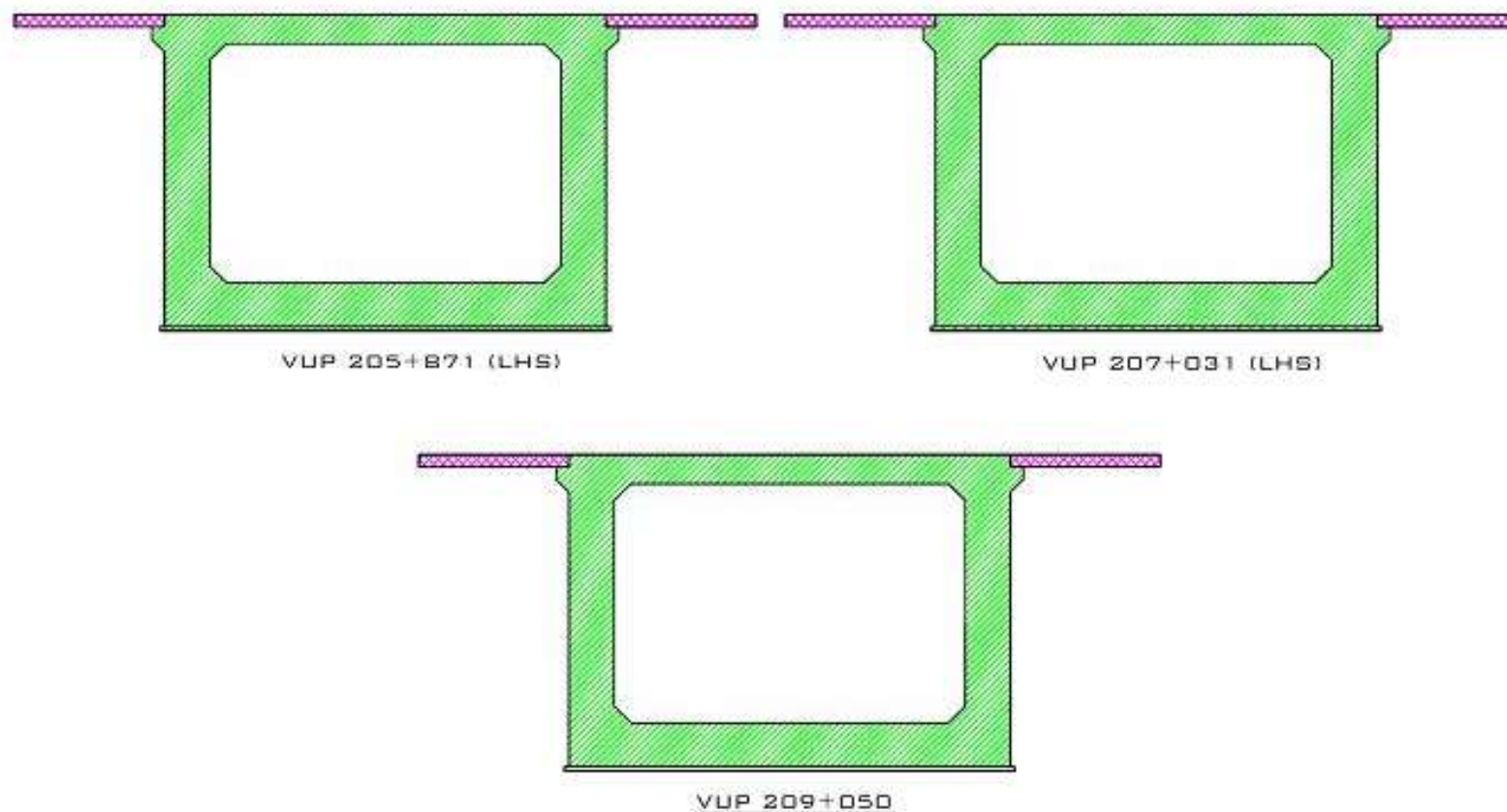


STATUS OF UNDERPASS (VUP & PUP)

Chainage (Kms)	LHS							RHS					
	Protection works	Super structure	Abt/Pier Cap	Sub-structure	Foundation	Excavation	Part	Excavation	Foundation	Sub-structure	Abt/Pier Cap	Super structure	Protection works
205+871								EXISTING VUP					
207+031								EXISTING VUP					
209+050								EXISTING VUP					
176+728													
157+490													
204+377													
207+565													
Legend :		Completed					Work in Progress						

Fourlaning of Chhapra-Hajipur Section of NH-19
from KM: 143+200 to KM: 209+930 in the state of Bihar.

STRIP CHART OF VUP's



<p>CLIENT</p>  <p>NATIONAL HIGHWAYS AUTHORITY OF INDIA 6-5 & 6, SECTOR 70, DWARKA, NEW DELHI</p>	<p>ERC CONTRACTOR</p>  <p>MADHUCAN PROJECTS LIMITED MADHUCAN HOUSE, PLOT NO-1129/A ROAD NO-36, JUBILEE HILLS, HYDRABAD - 500 088, TELANGANA</p>	<p>CONCRETEWORKER</p> <p>CHHAPRA - HAJIPUR EXPRESSWAYS LIMITED MADHUCAN HOUSE, PLOT NO-1129/A ROAD NO-36, JUBILEE HILLS, HYDRABAD - 500 088, TELANGANA</p>	<p>INDEPENDENT CONSULTANT</p> <p>STANLEY CONSULTANTS IN ASSOC SAJ/C, PVT. LMT. AND ASSOC CONSULTANTS</p>	<p>PROJECT:-</p> <p>FOUR LANING OF CHHAPRA - HAJIPUR SECTION OF NH19 IN THE STATE OF BIHAR FROM KM:143.200 TO KM:209.930)</p>	<p>LEGEND</p> <p> Completed</p> <p> Work in Progress</p>
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Page No. 1 of 1

ANNEXURE K – PROGRESS CHART OF BOX CULVERTS

Sr. No.	LHS							Chainage as per Design	RHS							Remarks
	Protection works	Back Fill	Slab	Walls	Base Raft	PCC	Excavation		Excavation	PCC	Base Raft	Walls	Slab	Back Fill	Protection works	
1								144+374	Chhapra By-pass (Only LHS)							
2								144+424								
3								145+590								
4								145+960								
5								146+061								
6								146+315								
7								147+447								
8								148+059								
9								148+225								
10								149+357								
11								149+516								
12								149+673								
13								150+279								
14								150+472								
15								150+696								
16								151+177								

Sr. No.	LHS							Chainage as per Design	RHS							Remarks
	Protection works	Back Fill	Slab	Walls	Base Raft	PCC	Excavation		Excavation	PCC	Base Raft	Walls	Slab	Back Fill	Protection works	
17								151+347								
18								151+495								
19								151+705								
20								152+490								
21								153+770								
22								153+947								
23								153+990								
24								154+216								
25								154+628								
26								155+051								
27								155+866								
28								156+105								
29								156+625								
30								158+892								
31								159+603								
32								159+931								
33								160+345								
34								161+495								

Sr. No.	LHS							Chainage as per Design	RHS							Remarks
	Protection works	Back Fill	Slab	Walls	Base Raft	PCC	Excavation		Excavation	PCC	Base Raft	Walls	Slab	Back Fill	Protection works	
35								161+850								
36								162+517								
37								163+581								
38								163+990								
39								164+642								
40								164+958								
41								165+818								
42								166+183								
43								166+698								
44								167+982								
45								168+770								New culvert
46								169+590								New culvert
47								170+450								New culvert
48								170+815								
49								176+452								
50								176+865								
51								177+421								
52								177+930								

Sr. No.	LHS							Chainage as per Design	RHS							Remarks
	Protection works	Back Fill	Slab	Walls	Base Raft	PCC	Excavation		Excavation	PCC	Base Raft	Walls	Slab	Back Fill	Protection works	
53								178+332								
54								178+832								
55								179+232								
56								179+840								
57								180+251								
58								180+581								
59								180+825								
60								180+975								
61								181+129								
62								181+284								
63								181+335								
64								182+209								Work Stopped by villagers
65								184+050								Work Stopped by villagers
66								184+762								
67								186+145								
68								187+370								
69								187+790								

Sr. No.	LHS							Chainage as per Design	RHS							Remarks
	Protection works	Back Fill	Slab	Walls	Base Raft	PCC	Excavation		Excavation	PCC	Base Raft	Walls	Slab	Back Fill	Protection works	
70								188+287								
71								188+686								
72								189+255								
73								189+955								
74								190+288								
75								190+838								
76								191+072								
77								191+861								
78								191+877								
79								192+238								
80								193+286								
81								193+888								
82								194+388								
83								195+338								
84								195+690								
85								196+187								
86								196+783								
87								197+288								

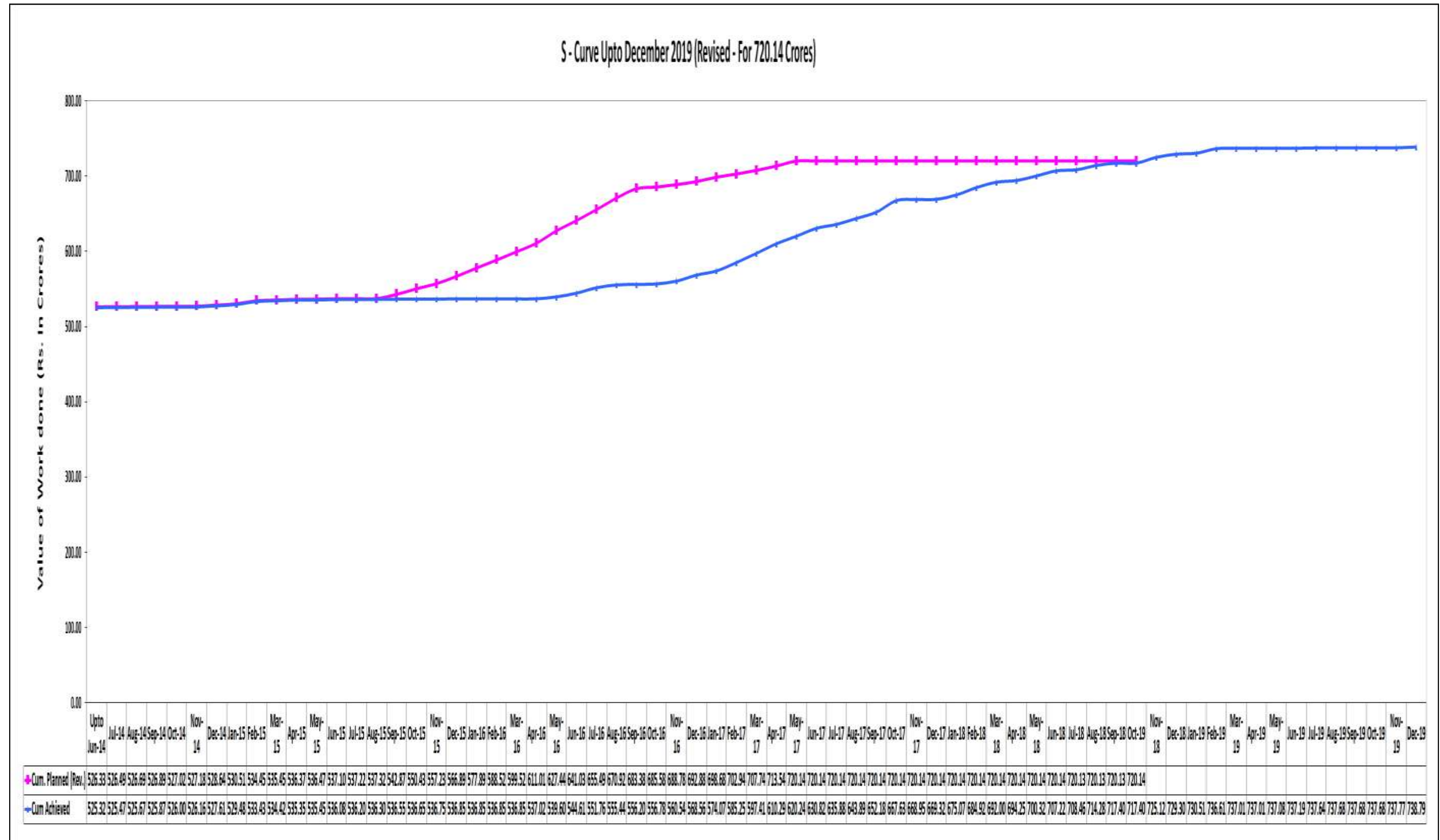
Sr. No.	LHS							Chainage as per Design	RHS							Remarks
	Protection works	Back Fill	Slab	Walls	Base Raft	PCC	Excavation		Excavation	PCC	Base Raft	Walls	Slab	Back Fill	Protection works	
88								198+097								New culvert
89								198+390								
90								199+389								
91								199+826								
92								200+288								
93								200+855								
94								202+616								
95								202+658								
96								203+220								
97								203+398								
98								204+238								
99								204+907								
100								205+085								
Legend :		Completed					Work in Progress									

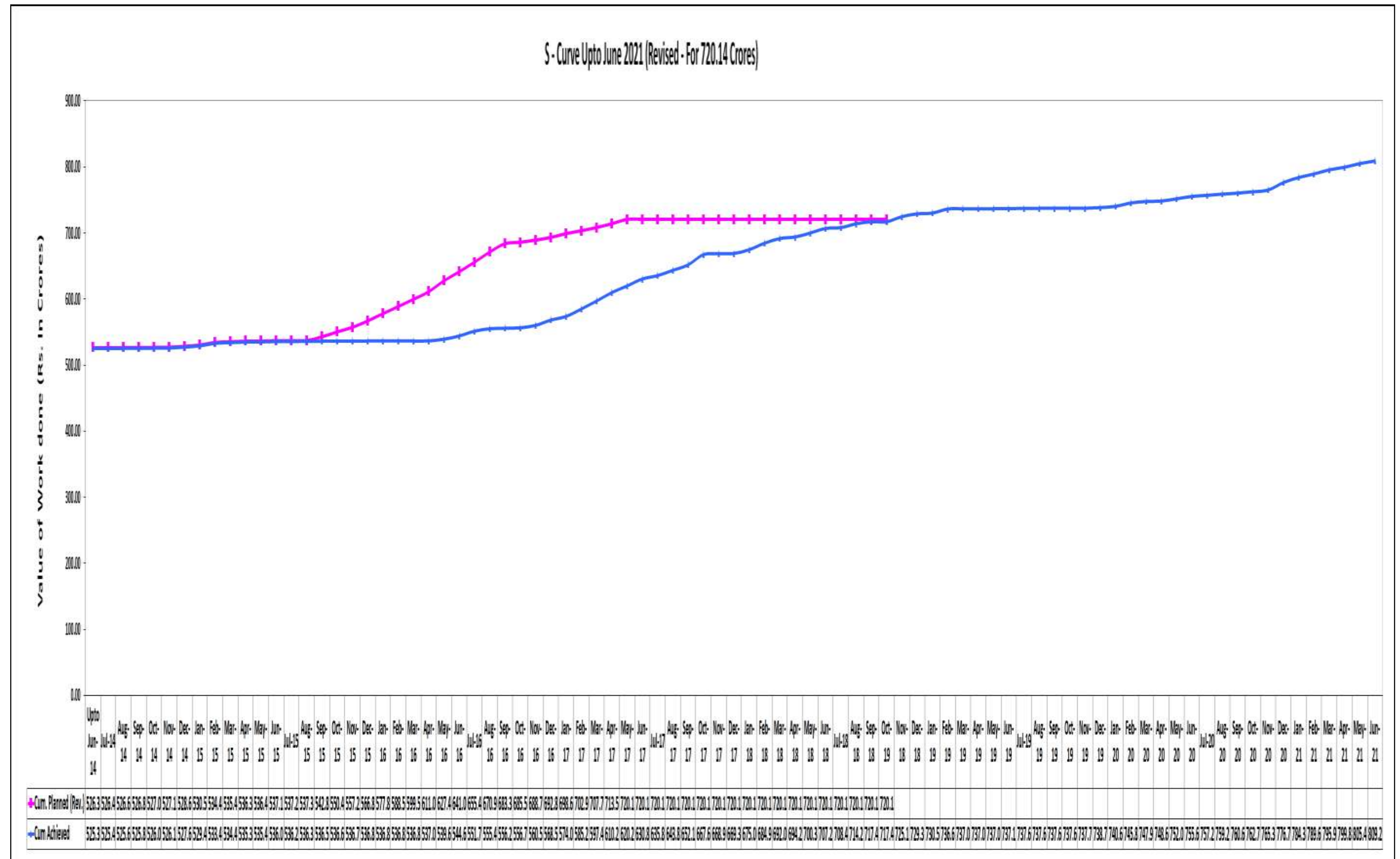
ANNEXURE L – SCHEDULED PROJECT COMPLETION PLAN & S-CURVE

Project Completion Schedule (Revised) wrt EPC cost of Rs 720.14 Crs

	Up to Jun-14	Jul-14	Aug-14	Sep-14	Oct-14	Nov-14	Dec-14	Jan-15	Feb-15	Mar-15	Apr-15	May-15	Jun-15	Jul-15	Aug-15	Sep-15	Oct-15	Nov-15	Dec-15	Jan-16	Feb-16	Mar-16	Apr-16	May-16	Jun-16	Jul-16	Aug-16	Sep-16	Oct-16	Nov-16	Dec-16	Jan-17	Feb-17	Mar-17	Apr-17	May-17	Jun-17	Jul-17	Aug-17	Sep-17	Oct-17	Nov-17	Dec-17	Jan-18	Feb-18	Mar-18	Apr-18	May-18	Jun-18	Jul-18	Aug-18	Sep-18
Revised Planned (Crores)	526.33	526.49	526.69	526.89	527.02	527.18	528.64	530.51	534.45	535.45	536.37	536.47	537.10	537.22	537.32	542.87	550.43	557.23	566.89	577.89	588.52	599.52	611.01	627.44	641.03	655.49	670.92	683.38	685.58	688.78	692.88	698.68	702.94	707.74	713.54	720.14	720.14	720.14	720.14	720.14	720.14	720.14	720.14	720.14	720.14	720.14	720.14	720.14	720.14	720.14	720.14	
Cum. Achieved (Crores)	525.32	525.47	525.67	525.87	526.00	526.16	527.61	529.48	533.43	534.42	535.35	535.45	536.08	536.20	536.30	536.55	536.65	536.75	536.85	536.85	536.85	536.85	537.02	539.60	544.61	551.76	555.45	556.20	556.79	560.54	568.56	574.08	585.26	597.42	610.29	620.25	630.82	635.88	643.89	652.18	667.63	668.95	669.33	675.08	684.92	692.00	694.26	700.32	707.22	708.47	714.28	717.40
Monthly Planned (Crores)	1.53	0.16	0.20	0.20	0.13	0.16	1.46	1.87	3.94	1.00	0.92	0.10	0.63	0.12	0.10	5.55	7.56	6.80	9.66	11.00	10.63	11.00	11.50	16.43	13.59	14.46	15.43	12.46	2.20	3.20	4.10	5.80	4.26	4.80	5.80	6.60	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Monthly Achieved	0.52	0.16	0.20	0.20	0.13	0.16	1.46	1.87	3.94	1.00	0.92	0.10	0.63	0.12	0.10	0.25	0.10	0.10	0.098	0.000	0.000	0.000	0.171	2.579	5.011	7.149	3.687	0.755	0.585	3.754	8.020	5.514	11.181	12.162	12.872	9.957	10.575	5.060	8.011	8.291	15.449	1.318	0.375	5.751	9.844	7.080	2.253	6.067	6.900	1.246	5.815	3.118
% Planned	73.09%	73.11%	73.14%	73.17%	73.18%	73.21%	73.41%	73.67%	74.22%	74.35%	74.48%	74.50%	74.58%	74.60%	74.61%	75.38%	76.43%	77.38%	78.72%	80.25%	81.72%	83.25%	84.85%	87.13%	89.02%	91.02%	93.17%	94.90%	95.20%	95.65%	96.22%	97.02%	97.61%	98.28%	99.08%	100.00%	100.00%	100.00%	100.00%	100.00%	100.00%	100.00%	100.00%	100.00%	100.00%	100.00%	100.00%	100.00%	100.00%	100.00%	100.00%	100.00%
% Achieved	72.95%	72.97%	73.00%	73.02%	73.04%	73.06%	73.22%	73.53%	74.07%	74.21%	74.34%	74.35%	74.44%	74.46%	74.47%	74.51%	74.52%	74.54%	74.55%	74.55%	74.55%	74.57%	74.93%	75.62%	76.62%	77.13%	77.13%	77.24%	77.32%	77.84%	78.95%	79.72%	81.27%	82.96%	84.75%	86.13%	87.80%	88.30%	89.41%	90.56%	92.71%	92.89%	92.95%	93.74%	95.11%	96.09%	96.41%	97.25%	98.21%	98.38%	99.19%	99.62%

S-Curve:





Note: S-Curve wrt the total Revised EPC cost of Rs 925.134 Crores has not been given as Company has not submitted the Work Program wrt said revised EPC cost

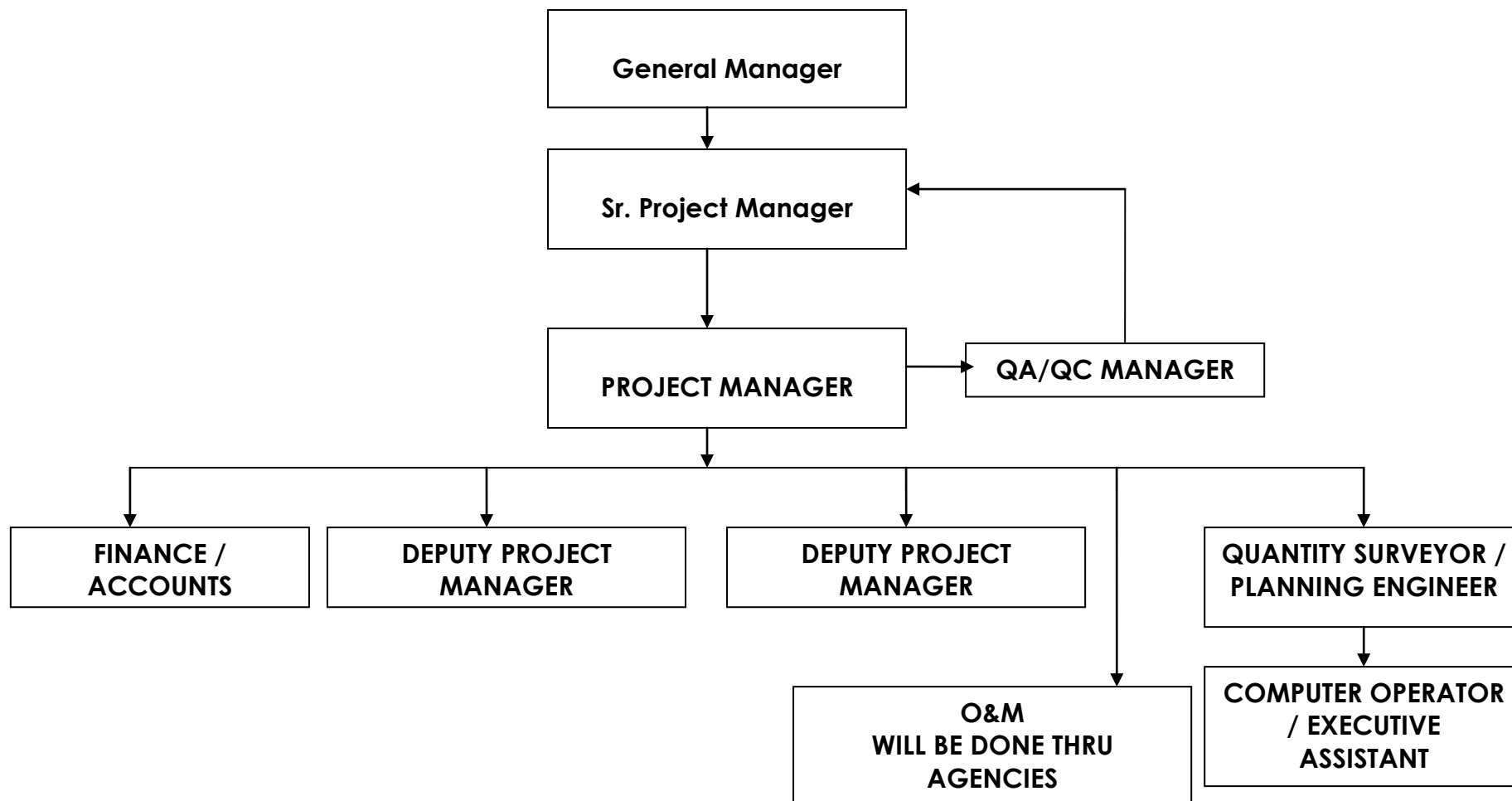
Project Completion Schedule for 51.74 Km (Revised):

PROGRAMME FOR THE COMPLETION OF HIGHWAY WORK FOR 51.74 KM																															
Sl. No.	Description	Unit	Rate	Balance Quantity As on 1 April-16	Balance Amount As on 1 April-16	Total executed qty till June 18	Total executed amount till June 18	Balance Quantity As on 1 July-18	Balance Amount As on 1 July-18	August' 18	Amount in INR	Sep' 18	Amount in INR	Oct'18	Amount in INR	Nov'18	Amount in INR	Dec'18	Amount in INR	Jan'19	Amount in INR	Feb'19	Amount in INR	March'19	Amount in INR	April'19	Amount in INR	May'19	Amount in INR	June'19	Amount in INR
158+250 to 168+000				9.75							0		0		0		0		0		0		0		0						
1	EARTHWORKS	Cum	175	151616	26532800	141615	24782677	10001	1750123		0	500	87506	1000	175012	2000	350025	3000	525037	3500	612543		0		0						
2	GRANULAR SUB BASE	Cum	2516.7	9674.789	24348114	9675	24348114	0	0	0	0	0	0	0	0	0	0	0	0	0	0		0		0						
3	WET MIX MACADAM	Cum	2929.1	7683.10375	22504939	7683	22504939	0	0	0	0	0	0	0	0	0	0	0	0	0	0		0		0						
4	CT Subbase -1	Cum	2748	35835	98474534	12548	34481761	23287	63992773	2329	6399277	2329	6399277	5822	15998193	4657	12798555	4657	12798555	3493	9598916		0		0						
5	CT Subbase -2	Cum	2748	15838	43521947	6110	16790808	9727	26731140		0	973	2673114	2432	6682785	2432	6682785	2918	8019342	973	2673114		0		0						
6	Aggregate Interlayer	Cum	2929.1	14871	43558211	5460	15992524	9411	27565688		0	941	2756569	2353	6891422	2353	6891422	1882	5513138	941	2756569	941	2756569		0						
7	CT Base	Cum	3948	14343	56625891	4942	19512339	9401	37113551		0		0		0		0	1410	5567033	2350	9278388	2820	11134065	2820	11134065						
8	DENSE BITUMINOUS MACADAM	Cum	10242	10128.635	103737480	5480	56124009	4649	47613470		0		0		0		0	697	7142021	1162	11903368	1395	14284041	1395	14284041						
9	BITUMINOUS CONCRETE	Cum	10749	8041.25	86435396	0	0	8041	86435396	804	8643540	1206	12965309	1608	17287079	2010	21608849	2412	25930619		0		0		0						
168+000 to 176+000				8.00							0		0		0		0		0		0		0		0						
1	EARTHWORKS	Cum	175	4400	770000	4279	748846	121	21154		0		0		0		0		0	121	21154		0		0						
2	GRANULAR SUB BASE	Cum	2516.7	6923.03	17422884	6923	17422884	0	0	0	0		0		0		0		0		0		0		0						
3	WET MIX MACADAM	Cum	2929.1	4934	14452411	4809	14086267	125	366143		0	125	366143		0		0		0		0		0		0						
4	DENSE BITUMINOUS MACADAM	Cum	10242	2226.9975	22808908	2093	21436506	134	1372402		0		0		0		0		0	134	1372402		0		0						
5	BITUMINOUS CONCRETE	Cum	10749	4700	50520300	2170	23325330	2530	27194970		0		0		0		0	380	4079246	633	6798743	759	8158491	759	8158491						
176+000 to 181+400				5.40							0		0		0		0		0		0		0		0						
1	EARTHWORKS	Cum	175	290000	50750000	161337	28233975	128663	22516025		0	2573	450321	12866	2251603	38599	6754808	38599	6754808	36026	6304487		0		0						
2	Selected earth fill in RE Wall	Cum	300	100000	30000000	65796	19738800	34204	10261200	3420	1026120	3420	1026120	6841	2052240	6841	2052240	6841	2052240	6841	2052240		0		0						
3	GRANULAR SUB BASE	Cum	2516.7	1818.56	4576690	1819	4576690	0	0	0	0	0	0	0	0	0	0	0	0	0	0		0		0						
4	WET MIX MACADAM	Cum	2929.1	3128.9	9165008	1715	5023487	1414	4141521	141	414152	141	414152	353	1035380	283	828304	283	828304	212	621228		0		0						
5	CT Subbase -1	Cum	2748	4648	12773188	0	0	4648	12773188		0	465	1277319	1162	3193297	1162	3193297	1394	3831956	465	1277319		0		0						
6	CT Subbase -2	Cum	2748	4001	10994748	0	0	4001	10994748		0	400	1099475	1000	2748687	1000	2748687	800	2198950	400	1099475	400	1099475		0						
7	Aggregate Interlayer	Cum	2929.1	3192	9350373	0	0	3192	9350373		0	319	935037	798	2337593	798	2337593	638	1870075	319	935037	319	935037		0						
8	CT Base	Cum	3948	3428	13534540	0	0	3428	13534540		0	343	1353454	857	3383635	857	3383635	686	2706908	343	1353454	343	1353454		0						
9	DENSE BITUMINOUS MACADAM	Cum	10242	5506.896	56401629	2373	24306827	3134	32094802		0		0		0		0	470	4814220	783	8023701	940	9628441	940	9628441						
10	BITUMINOUS CONCRETE	Cum	10749	3500	37621500	0	0	3500	37621500		0		0		0		0	525	5643225	875	9405375	1050	11286450	1050	11286450						
11	RE Wall	sqm	5200	9000	46800000	7008	36441600	1992	10358400	199	1035840	299	1553760	398	2071680	498	2589600	598	3107520		0		0		0						
185+930 to 187+600				1.67							0		0		0		0		0		0		0		0						
1	EARTHWORKS	Cum	175	2500	437500	0	0	2500	437500		0	250	43750	375	65625	500	87500	625	109375	750	131250		0		0						
2	GRANULAR SUB BASE	Cum	2516.7	1787.877	4499471	0	0	1788	4499471	179	449947	179	449947	358	899894	358	899894	358	899894	358	899894		0		0						
3	WET MIX MACADAM	Cum	2929.1	2755.3	8070678	0	0	2755	8070678	276	807068	276	807068	551	1614136	551	1614136	551	1614136	551	1614136		0		0						
4	CT Subbase -1	Cum	2748	1704	4681273	0	0	1704	4681273	170	468127	170	468127	426	1170318	341	936255	341	936255	256	702191		0		0						
5	CT Subbase -2	Cum	2748	1400	3847200	0	0	1400	3847200		0	140	384720	350	961800	350	961800	420	1154160	140	384720		0		0						
6	Aggregate Interlayer	Cum	2929.1	1170	3426838	0	0	1170	3426838		0	117	342684	292	856710	292	856710	234	685368	117	342684	117	342684		0						
7	CT Base	Cum	3948	1256	4960303	0	0	1256	4960303		0		0		0		0	188	744045	314	1240076										

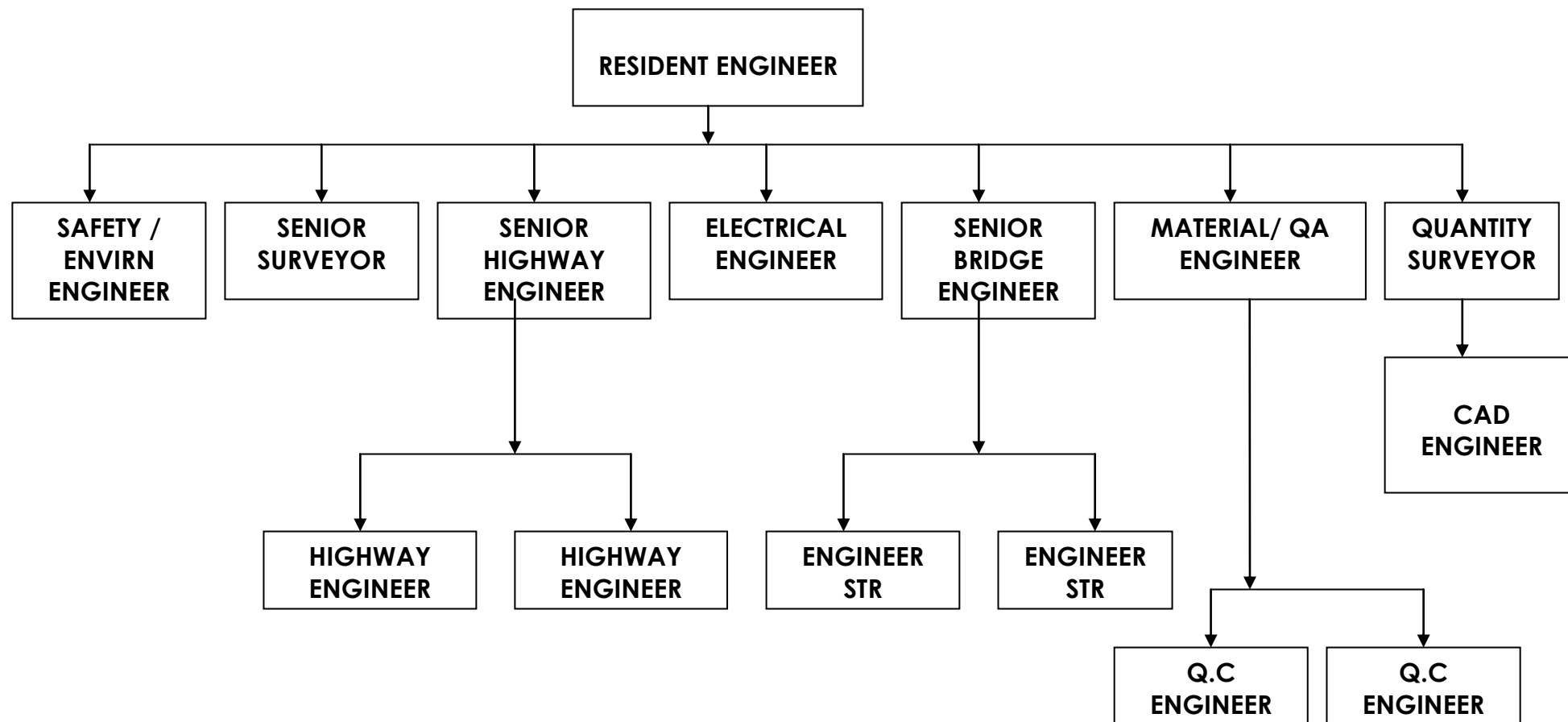
PROGRAMME FOR THE COMPLETION OF HIGHWAY WORK FOR 51.74 KM																															
Sl. No.	Description	Unit	Rate	Balance Quantity As on 1 April-16	Balance Amount As on 1 April-16	Total executed qty till June 18	Total executed amount till June 18	Balance Quantity As on 1 July-18	Balance Amount As on 1 July-18	August' 18	Amount in INR	Sep' 18	Amount in INR	Oct'18	Amount in INR	Nov'18	Amount in INR	Dec'18	Amount in INR	Jan'19	Amount in INR	Feb'19	Amount in INR	Mar h'19	Amount in INR	April'1 9	Amount in INR	May'1 9	Amount in INR	June'1 9	Amount in INR
200+500 to 205+300				4.80							0		0		0		0		0		0		0		0						
1	EARTHWORKS	Cum	175	276914	48459950	276914	48459950	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0						
2	GRANULAR SUB BASE	Cum	2516.7	21068.034	53020990	19168	48238214	1900	4782776	190	478278	190	478278	380	956555	380	956555	380	956555	380	956555	0	0	0	0						
3	WET MIX MACADAM	Cum	2929.1	16084	47112398	14484	42426642	1600	4685756	160	468576	160	468576	320	937151	320	937151	320	937151	320	937151	0	0	0	0						
4	CT Subbase -1	Cum	2748	10463	28752324	10463	28752324	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0							
5	CT Subbase -2	Cum	2748	4865	13369020	4865	13369020	0	0		0	0	0	0	0	0	0	0	0	0	0	0	0	0							
6	Aggregate Interlayer	Cum	2929.1	3740	10955009	3740	10955009	0	0		0	0	0	0	0	0	0	0	0	0	0	0	0	0							
7	CT Base	Cum	3948	4125	16285500	4125	16285500	0	0		0		0	0	0	0	0	0	0	0	0	0	0	0							
8	DENSE BITUMINOUS MACADAM	Cum	10242	8221	84199482	7071	72417392	1150	11782090		0		0		0		0	173	1767313	288	2945522	345	3534627	345	3534627						
9	BITUMINOUS CONCRETE	Cum	10749	3500	37621500	688	7395312	2812	30226188	281	3022619	422	4533928	562	6045238	703	7556547	844	9067856		0		0	0							
205+300 to 209+940				4.64							0		0		0		0		0		0		0		0						
1	EARTHWORKS	Cum	175	182445.4	31927945	159637	27936475	22808	3991470	228	39915	1140	199574	3421	598721	4562	798294	5702	997868	7755	1357100		0	0							
2	Selected earth fill in RE Wall	Cum	300	107250	32175000	52534	15760110	54716	16414890	5472	1641489	5472	1641489	10943	3282978	10943	3282978	10943	3282978	10943	3282978		0	0							
3	GRANULAR SUB BASE	Cum	2516.7	9051	22778252	9051	22778252	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0							
4	WET MIX MACADAM	Cum	2929.1	5550.17	16257263	5550	16257263	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0							
5	CT Subbase -1	Cum	2748	5454	14987504	99	272052	5355	14715452		0	535	1471545	1339	3678863	1339	3678863	1606	4414636	535	1471545		0	0							
6	CT Subbase -2	Cum	2748	3034	8337432	66	181368	2968	8156064		0	297	815606	742	2039016	742	2039016	594	1631213	297	815606	297	815606		0						
7	Aggregate Interlayer	Cum	2929.1	2850	8348069	66	193324	2784	8154745	0	278	815474	696	2038686	696	2038686	557	1630949	278	815474	278	815474		0							
8	CT Base	Cum	3948	3250	12831000	73	288204	3177	12542796		0	318	1254280	794	3135699	794	3135699	635	2508559	318	1254280	318	1254280		0						
9	DENSE BITUMINOUS MACADAM	Cum	10242	5592	57273264	4019	41161267	1573	16111997		0		0		0		0	236	2416800	393	4027999	472	4833599	472	4833599						
10	BITUMINOUS CONCRETE	Cum	10749	2254	24228246	0	0	2254	24228246		0		0		0		0	338	3634237	564	6057062	676	7268474	676	7268474						
11	RE Wall	sqm	5200	12977	67480400	6264	32572800	6713	34907600	671	3490760	1007	5236140	1343	6981520	1678	8726900	2014	10472280		0		0	0							
						0	0	0.00																							
1	Toll plaza, Road furniture, & Miscellaneous work.		0			0	0	0																							
2	Concrete		12000	11021	132252000	6,050	72600000	4971	59652000																						
3	Launching of Segment (Gandak Bridge)		18750	7023	131681250		0	7023	131681250																						
						0																									
1	EARTHWORKS	Cum	175	1610510	281839306	1286606	225156041	323904	56683264.78	50291	8800997	7232	1265638	25046	4383135	67795	11864066	85735	15003700	87804	15365728	0	0	0	0						
2	Selected earth fill in RE Wall	Cum	300	414242	124272600	197570	59271019	216672	65001581	54192	16257512	44361	13308349	49944	14983308	32607	9781976	17784	5335218	17784	5335218	0	0	0	0						
3	GRANULAR SUB BASE	Cum	2517	82141	206721581	78306	197069159	3835	9652422	461	1159977	424	1066647	738	1856449	738	1856449	738	1856449	738	1856449	0	0	0	0						
4	WET MIX MACADAM	Cum	2929	69578	203803538	62611	183397439	6967	20406099	704	2062028	1012	2963244	1383	4052283	1313	3845207	1313	3845207	1242	3638131	0	0	0	0						
5	CT Subbase -1	Cum	2748	71600	196756282	33629	92413374	37970	104342908	3594	9875670	3711	10198259	9166	25188163	7916	21754461	8417	23128893	5167	14198287	0	0	0	0						
6	CT Subbase -2	Cum	2748	39576	108754353	16126	44313036	23450	64441317	1499	4118186	2231	6129933	5577	15324833	5399	14836733	5640	15498519	2408	6618033	697	1915081	0	0						
7	Aggregate Interlayer	Cum	2929	33585	98375862	13505	39558418	20080	58817444	658	1925920	1942	5689152	4856	14222881	4856	14222881	4138	12121731	1942	5689152	1688	4945726	0	0						
8	CT Base	Cum	3948	34843	137561556	13449	53095654	21395	84465902	708	2795113	967	3819173	2418	9547934	2418	9547934	3587	14160205	3721	14688937	4271	16862890	3304	</						

ANNEXURE M – ORGANIZATION CHART OF CONCESSIONAIRE, PMC & EPC CONTRACTOR

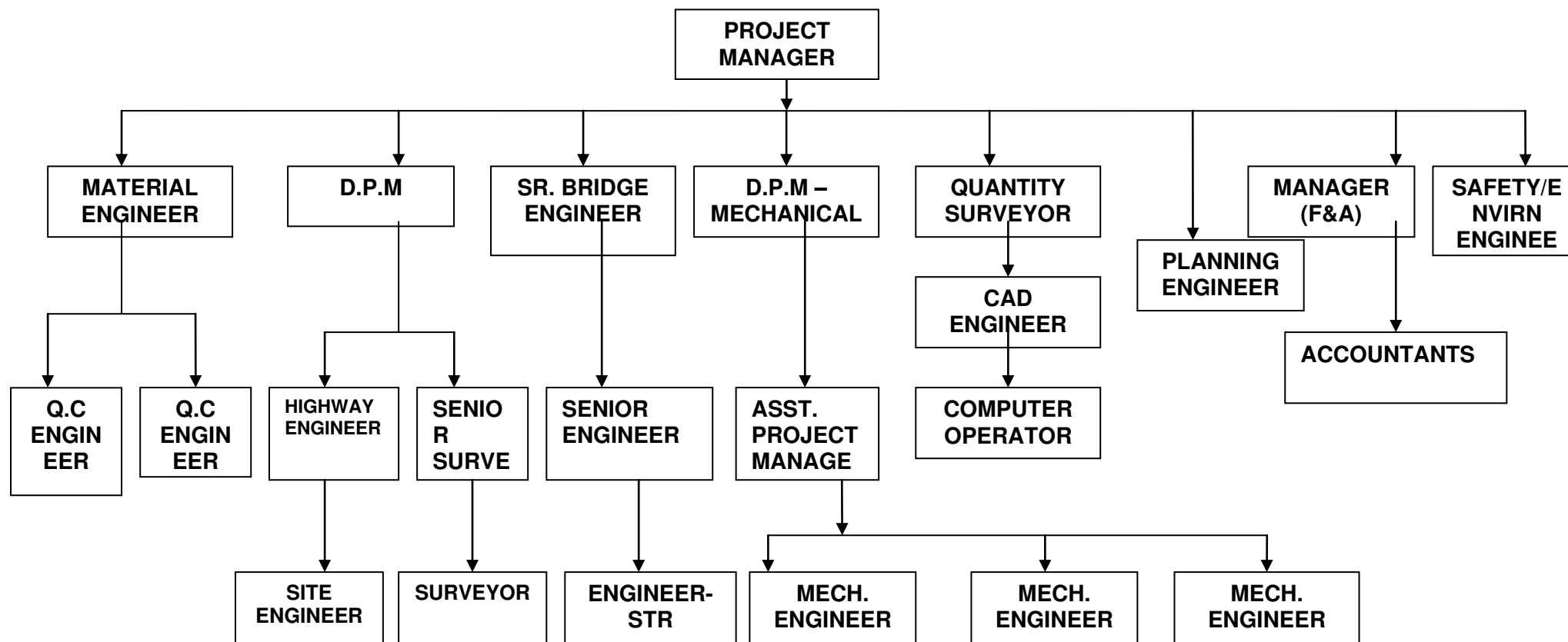
ORGANISATION CHART OF CHHAPRA-HAJIPUR EXPRESSWAYS LIMITED (CONCESSIONAIRE)



ORGANISATION CHART OF PROJECT MANAGEMENT CONSULTANCY



EPC CONTRACTOR ORGANISATION CHAR



ANNEXURE N – QUALITY CONTROL TESTS

Test Performed	Total Tests up to Previous Month			Total Tests during the Month			Total Tests up to end of this month		
	Tested	Passed	Failed	Tested	Passed	Failed	Tested	Passed	Failed
1	2	3	4	5	6	7	8	9	10
Earthwork									
Proctor Test	3482	3482	0	0	0	0	3482	3482	0
Atterberg limits	3638	3638	0	0	0	0	3638	3638	0
Grain Size Analysis	3642	3558	84	0	0	0	3642	3558	84
Free Swell Index	3642	3642	0	0	0	0	3642	3642	0
CBR	464	444	20	0	0	0	464	444	20
Field Density Compaction	13857 7	13799 8	579	1094	1080	14	13967 1	139078	593
Calibration of Rapid Moisture Meter	261	259	2	1	1	0	262	260	2
GSB									
Gradation/Sieve Analysis	1832	1827	5	54	54	0	1886	1881	5
Liquid Limit & PI	1755	1740	15	54	54	0	1809	1794	15
Water Observation	92	92	0	0	0	0	92	92	0
10% Fineness	42	42	0	0	0	0	42	42	0
Max. Dry Density & OMC	224	220	4	0	0	0	224	220	4
CBR	2	2	0	0	0	0	2	2	0
Field Density Compaction	7052	6829	223	254	252	2	7306	7081	225
WET MIX MACADAM									
Individual Aggregate Gradations for mix design	577	576	1	12	12	0	589	588	1
Gradation/Sieve Analysis	1708	1708	0	0	0	0	1708	1708	0
Liquid Limit & PI	1651	1651	0	12	12	0	1663	1663	0
Aggregate Impact Value	1213	1213	0	11	11	0	1224	1224	0
Flakiness & Elongation Index	1171	1168	3	11	11	0	1182	1179	3
Water Absorption	41	41	0	0	0	0	41	41	0
Max. Dry Density & OMC	2	2	0	0	0	0	2	2	0
Field Density Compaction	6958	6882	76	64	60	4	7022	6942	80
DBM									
Gradation	893	833	60	6	6	0	899	839	60
Bitumen content	1164	1164	0	6	6	0	1170	1170	0
Marshall Test	2983	2983	0	18	18	0	3001	3001	0
AIV	1667	1667	0	3	3	0	1670	1670	0
LAA	433	433	0	0	0	0	433	433	0
FI & EI	1666	1666	0	3	3	0	1669	1669	0
Field Density (Core Cutting)	4348	4348	0	23	23	0	4371	4371	0
FINE AGGREGATE									
Gradation / Sieve Analysis	2850	2824	26	35	35	0	2885	2859	26
Silt Content	169	169	0	0	0	0	169	169	0
Fineness modulus	1620	1620	0	35	35	0	1655	1655	0

Test Performed	Total Tests up to Previous Month			Total Tests during the Month			Total Tests up to end of this month		
	Tested	Passed	Failed	Tested	Passed	Failed	Tested	Passed	Failed
Specific Gravity	40	40	0	0	0	0	40	40	0
Bulk Density	87	87	0	0	0	0	87	87	0
Max. Density/Calibration of FDD Sand	454	452	2	0	0	0	454	452	2
COARSE AGGREGATE/STONE									
Gradation / Sieve Analysis	5893	5888	5	105	105	0	5998	5993	5
Aggregate Impact Value Test	2682	2682	0	35	35	0	2717	2717	0
Los Angeles Abrasion Test	84	84	0	0	0	0	84	84	0
Soundness Test	25	25	0	0	0	0	25	25	0
Flakiness Index & Elongation Index	2624	2624	0	35	35	0	2659	2659	0
Specific gravity with water absorption	27	27	0	0	0	0	27	27	0
Water absorption	125	125	0	0	0	0	125	125	0
Bulk Density	10	10	0	0	0	0	10	10	0
CEMENT									
Normal Consistency	109	109	0	0	0	0	109	109	0
Initial & Final setting Time	116	116	0	0	0	0	116	116	0
Fineness of Cement	110	110	0	0	0	0	110	110	0
Soundness of Cement	20	20	0	0	0	0	20	20	0
Mortar Cube Test for Cement (3 Days)	91	91	0	0	0	0	91	91	0
Mortar Cube Test for Cement (7 Days)	90	90	0	0	0	0	90	90	0
Mortar Cube Test for Cement (28 Days)	89	89	0	0	0	0	89	89	0
CONCRETE									
Nominal Mix Design (Lab)	161	156	5	0	0	0	161	156	5
Design Cube Trails	889	889	0	0	0	0	889	889	0
Compressive Strength -3 days (CT-SB)	77	77	0	0	0	0	77	77	0
Compressive Strength -7 days	6875	6450	425	75	75	0	6950	6525	425
Compressive Strength -28 days	14571	13508	1063	142	142	0	14713	13650	1063
Slump	17434	16760	674	119	119	0	17553	16879	674
CT-SB - 1									
Gradation	270	260	10	0	0	0	270	260	10
Compressive Strength -7 days	243	235	8	0	0	0	243	235	8
CT-SB - 2									
Gradation	225	225	0	0	0	0	225	225	0
Compressive Strength -7 days	302	302	0	0	0	0	302	302	0
CT-SUBBASE - 3									

Test Performed	Total Tests up to Previous Month			Total Tests during the Month			Total Tests up to end of this month		
	Tested	Passed	Failed	Tested	Passed	Failed	Tested	Passed	Failed
Gradation	228	228	0	0	0	0	228	228	0
Compressive Strength -7 days	376	376	0	0	0	0	376	376	0
CT-BASE - 4 (INTER LAYER)									
Gradation	200	200	0	0	0	0	200	200	0
Liquid Limit & PI	199	199	0	0	0	0	199	199	0
Flakiness Index & Elongation Index	135	135	0	0	0	0	135	135	0
Aggregate Impact Value Test	135	135	0	0	0	0	135	135	0
DLC									
Gradation	34	34	0	0	0	0	34	34	0
Field density	23	23	0	0	0	0	23	23	0
STONE FOR STRUCTURE									
Water Absorption	0	0	0	0	0	0	0	0	0
Aggregate Impact Value Test	0	0	0	0	0	0	0	0	0
BITUMINOUS TESTS									
Penetration test	453	453	0	3	3	0	456	456	0
Softening point test	448	448	0	3	3	0	451	451	0
Ductility test	430	430	0	3	3	0	433	433	0
Viscosity test	137	137	0	0	0	0	137	137	0
Specific Gravity	29	29	0	0	0	0	29	29	0
Emulsion									
Evaporation test	67	67	0	0	0	0	67	67	0
Storage Stability	16	16	0	0	0	0	16	16	0
Prime Coat									
Rate of spray	2550	2550	0	23	23	0	2573	2573	0
Tack coat									
Rate of spray	4187	4187	0	18	18	0	4205	4205	0
BITUMINOUS CONCRETE									
Gradation	67	67	0	0	0	0	67	67	0
Extraction	131	131	0	0	0	0	131	131	0
Marshall Test	342	342	0	0	0	0	342	342	0
Aggregate Impact Value Test	178	178	0	0	0	0	178	178	0
Flakiness Index & Elongation Index	178	178	0	0	0	0	178	178	0
Calibration of CBR Mould	48	48	0	0	0	0	48	48	0
Calibration of Proctor Mould	5	5	0	0	0	0	5	5	0
Calibration of Container	60	60	0	0	0	0	60	60	0
Calibration of Sand Pouring Cylinder	3	3	0	0	0	0	3	3	0

Test Performed	Total Tests up to Previous Month			Total Tests during the Month			Total Tests up to end of this month		
	Tested	Passed	Failed	Tested	Passed	Failed	Tested	Passed	Failed
3 Nos. Cylinder	13	13	0	0	0	0	13	13	0
5 Nos. Cylinder	11	11	0	0	0	0	11	11	0
HUME PIPES									
NP 4 Pipes	0	0	0				0	0	0

ANNEXURE O – LIST OF PLANT AND MACHINERY

Status of Plant & Machinery Report – June 2021

Sr. No.	Description	Available	Remarks
	PLANT / EQUIPMENTS		
1	Excavators	5	
2	Dozers	3	
3	Loaders	3	
4	Motor Graders	3	
5	Pneumatic Tyred Rollers (PTR)	2	
6	Pavers	3	
7	Vibro Compactors	7	
8	Hydra Crane - 12T	2	
9	IDD 90 Rollers	4	
10	JCB	2	
11	Kerb Cutting Machines	1	
12	Kerb Laying Machines	2	
13	Tippers	46	
14	Trailer	1	
15	Transit Mixer	8	
16	Water Tankers	8	
17	Boom Placer / Concrete Pumps	1	
18	Dewatering Pump	2	
19	LMV's	17	
20	Bitumen Distributor	2	
21	Broomers	2	
22	Concrete Mixer	2	
23	Cranes	0	
24	Crawler Drill	0	
25	Diesel Tanker	2	
26	Generator Sets	17	
27	Staff Bus	2	
28	TATA 407	1	
29	Hydraulic Rig	1	
30	Batching Plant 30 cum	1	
31	Crusher 320 TPH	1	
32	Crusher 200 TPH	2	
33	Hot Mix Plant - 240 TPH	1	
34	WMM Plant	1	
35	Weigh Bridge	2	
	Total	157	

Lab Equipment

LAB EQUIPMENTS			
Sr. No.	Name of Equipment	Quantity	Remarks
1	Cassgrand Apparatus	3 nos.	
2	Cone Penetrometer	1 no	
3	Glass plate 600 x 600 x 10 mm	1 no	
4	Proctor Mould with collar, Base plate -2250cc	12 no	
5	Proctor Mould with collar, Base plate -1000cc	7 no	
6	Proctor Rammer - 4.9kg	11 no	
7	Proctor Rammer - 2.5kg	6 nos.	
8	Sand Pouring Cylinder - 10cm Dia	12 nos.	
9	Sand Pouring Cylinder - 15cm Dia	5 nos.	
10	Sand Pouring Cylinder - 20cm Dia	3 nos.	
11	Rapid Moisture meters	11 nos.	
12	CBR testing machine	2 nos.	
13	CBR moulds	103	
14	CBR plunger	1 no	
15	Surcharge Weights	174	
16	Spacer Disc	13 nos.	
17	Perforated Brass As well plates	112	
18	Proving rings		
	a) 10 KN	1	
	b) 25 KN	2	
	c) 50 KN	3	
19	Dial Gauges	6 nos.	
20	Flakiness& Elongation Indices Gauges	4 nos.	
21	Density Cylinders		
	a) 3 liters	1	
	b) 15 liters	1	
	c) 20 liters	1	
22	Aggregate impact value Test apparatus	3 nos.	
23	Pycnometer Bottles	11 nos.	
24	Density basket	4 nos.	
25	Aggregate Crushing value Mould & cup	2 nos.	
26	Los Angeles Abrasion Machine	1 nos.	
27	Bitumen Penetrometer Apparatus	1 nos.	
28	Bitumen extraction Machine	2 nos.	
29	Marshal Stability testing apparatus	2 nos.	
30	Marshal pedestal	1 nos.	
31	Marshal rammer	4 nos.	
32	Marshal Moulds	32	
33	Ring & Ball apparatus	1 no.	
34	Viscometer with orifice	1 no.	
35	Ductility apparatus	1 nos.	
36	Thermometers		
37	a) Glass Type (0-250°C degree.)	1 nos.	
38	b) Stem thermometer	2 nos.	
39	Vicat apparatus	2 nos.	
40	Le-chatlier's Apparatus	11 nos.	
41	Mortar cube moulds (7.06 x 7.06 x 7.06cm)	17 nos.	

LAB EQUIPMENTS			
Sr. No.	Name of Equipment	Quantity	Remarks
42	Concrete Cube moulds (15 x 15 x 15 cm)	97	
43	Mortar Cube casting vibrating machine	1 nos.	
44	Cube Compression Testing Machine -200 tones	1 nos.	
45	Concrete mixer	1 no.	
46	Slump cones	7 nos.	
47	Pycnometer bottles for cement testing	4 nos.	
48	Water Bath (0°C - 100°C capacity)	4 nos.	
49	Hot Air Oven (0°C - 150°C capacity)	5 nos.	
50	Hot Air Oven (0°C - 300°C capacity)	2 nos.	
51	Stop watches	1 nos.	
52	Rain Gauge	1 nos.	
53	Hot plate	1 no.	
54	Vernier caliper's	1 no.	
55	Moisture tins	56 nos.	
56	Electronic balance (6kg. Cap.)	1 no.	
57	Electronic balance (600gm. Cap.)	1 no.	
58	Electronic balance (30Kg. Cap.)	2 nos.	
59	Mechanical Balance (25 kg. cap.)	1 no.	
60	Mechanical Balance (30 kg. cap.)	1 no.	
61	Enamel Trays	13 nos.	
62	Measuring Jars (100 ml. caps.)	10 nos.	
63	Measuring Jars (500 ml. caps.)	1 no.	
64	Measuring Jars (1000 ml. cap.)	1 no.	
65	IS Sieves - 450mm Dia		
	100 mm	1	
	6.7 mm	1	
	75 mm	2	
	63 mm	2	
	53mm	3	
	45mm	4	
	40mm	1	
	37.5mm	5	
	31.5mm	3	
	25mm	3	
	26.5mm	3	
	22.4mm	3	
	20mm	2	
	19mm	3	
	16mm	2	
	13.2mm	1	
	12.5mm	5	
	11.2mm	3	
	10mm	3	
	9.5mm	2	
	6.3mm	3	
	5.6mm	3	
	4.75mm	2	
	2 mm	1	
66	IS Sieves - 200mm Dia		

LAB EQUIPMENTS			
Sr. No.	Name of Equipment	Quantity	Remarks
	4.75mm	2 no.	
	2.8 mm	1	
	0.355 mm	1	
	0.710 mm	1	
	0.212 mm	1	
	0.140mm	1	
	2.36mm	4 nos.	
	2.0 mm	2 nos.	
	1.7 mm	2 no.	
	1.4 mm	1 no.	
	1.18mm	1 no.	
	1.00 mm	5 no.	
	0.600 mm	6 no.	
	0.425mm	3 no.	
	0.300mm	6 no.	
	0.150 mm	2 no.	
	0.090mm	3 no.	
	0.075mm	7 no.	
67	IS sieves - 250mm Dia)		
	2.8mm	Each - 01 no.	
	20mm		
	16mm		
	25mm		
	50mm		
	40mm		
	12.5mm		
	10mm		
	53mm		
	31.5mm		
	6.3 mm		
68	Straightedge - 3mtrs.	1 no.	
69	Floatable	1 no.	
70	Air Entrain meter	1 no.	
71	Core cutting machine	1 no.	
72	Hygrometer	1 no.	
73	Riffle Box	3 nos.	
74	Electronic balance 85 kg cap.	1 no.	

Status of Man Power Report –June 2021



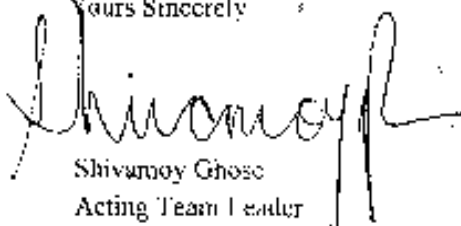
Sl. No.	Designation	Available	Remarks
1	Chief General Manager	1	
2	Chief Project Manager	1	
3	Project Manager	2	
4	Deputy Project Manager	2	
5	Sr. Highway Engineers	5	
6	Sr. Bridge Engineers	6	
7	Material Manager	1	
8	Material Engineer	2	
9	Sr. Quantity Surveyors	2	
10	Quantity Surveyors	5	

Sl. No.	Designation	Available	Remarks
11	Survey Manager	1	
12	Survey Asst. & Associated Staff	15	
13	Sr. Accountant Officer and Associated Staff	10	
14	Senior Engineers	5	
15	Site Engineers	12	
16	Supervisor	25	
17	Mechanical Manager & Associated Engineers	10	
18	Lab Technicians & Asst.	12	
19	Safety In charge & Asst.	2	
20	Planning Engineer	1	
21	Utility Shifting In charge	1	
22	Computer Operator	1	
23	Admin. Officer & Asst. Support Staff	10	
24	Liaison Officer & Associated Staff	5	
25	Store In charge & Asst.	12	
26	Purchaser	2	
27	Skilled Labours	90	
28	Un Skilled Labours	332	
	Total	546	

ANNEXURE P – WEATHER REPORT

Date	Temperature (°C)		Humidity %	Rain Fall (mm)	Remarks
	Minimum	Maximum			
01-Jun-21	22.90	34.0	89%	45 mm	Rainy
02-Jun-21	23.10	36.2	68%	Nil	Sunny
03-Jun-21	22.50	35.20	69%	Nil	Rainy
04-Jun-21	23.30	34.9	72%	Nil	Sunny
05-Jun-21	23.60	34.2	71%	Nil	Sunny
06-Jun-21	22.40	35.6	70%	Nil	Sunny
07-Jun-21	22.10	34.5	74%	Nil	Sunny
08-Jun-21	23.60	37.2	79%	165 mm	Rainy
09-Jun-21	22.50	35.2	75%	Nil	Sunny
10-Jun-21	22.20	36.1	78%	Nil	Sunny
11-Jun-21	23.10	37.2	84%	35 mm	Rainy
12-Jun-21	23.30	37.5	85%	60 mm	Rainy
13-Jun-21	23.60	38.2	86%	80 mm	Rainy
14-Jun-21	22.80	37.5	87%	105 mm	Rainy
15-Jun-21	21.60	32.1	89%	70 mm	Rainy
16-Jun-21	21.50	31.8	90%	95 mm	Rainy
17-Jun-21	22.50	27.0	85%	80 mm	Rainy
18-Jun-21	21.60	29.2	87%	85 mm	Rainy
19-Jun-21	22.80	37.1	90%	86 mm	Rainy
20-Jun-21	23.70	36.0	78%	90 mm	Rainy
21-Jun-21	22.60	34.0	90%	86 mm	Rainy
22-Jun-21	23.60	35.0	85%	Nil	Sunny
23-Jun-21	24.00	36.0	84%	35 mm	Rainy
24-Jun-21	23.60	38.4	84%	25 mm	Rainy
25-Jun-21	24.70	34.0	90%	80 mm	Rainy
26-Jun-21	24.70	37.0	85%	85 mm	Rainy
27-Jun-21	23.00	38.0	80%	86 mm	Rainy
28-Jun-21	24.60	37.6	84%	15 mm	Rainy
29-Jun-21	25.00	38.7	82%	Nil	Sunny
30-Jun-21	23.40	36.8	80%	Nil	Sunny
01-Jun-21	22.90	34.0	89%	45 mm	Rainy

ANNEXURE Q – IC LETTER

 	Stanley Consultants INC. <i>in association with</i> SA Infrastructure Consultants Pvt. Ltd; and EDMAC Consulting
Ref: No.SCI/Chhapra-Hajipur/NH-19/675/2013/680	
Date: 23.08.2013	
To, The Project Director National Highway Authority of India Chhapra-Hajipur Road Project (NH-19) Hajipur, Bihar	
Sub: - Four Laning of Chhapra-Hajipur section of NH-19 from km 143.200 to km 207.200 in state of Bihar under NHDP -III on Design, Build, Finance, Operate and Transfer (DBFOT) Annuity Basis: Physical Progress at site as on 31st July 2013	
Ref:1) NHAI letter no. :-NHAI/PIU/HAJ/CHHA-HAJ/CHEL/2011/1830,dated:-08.08.2013 2) NHAI letter no. :- NHAI/PIU/HAJ/NH-19/HQ-Meeting/2013/1837,dated:08.08.2013	
Respected Sir, We are enclosing herewith a statement showing the physical progress of work as on 31.07.13 .This has been jointly prepared by the concessionaire and certified by the Independent engineer	
Yours Sincerely  Shivamoy Ghose Acting Team Leader CC: V.P, Chhapra-Hajipur Expressway Limited	

Four Laning of Chhapra - Hajipur Section of NH-19 (Km 143+200 to Km. 207+200) in the State of Bihar under NHDP III on DBFOT Annuity Basis

7,20,10,00,000

ABSTRACT

Item No.	Description	% of Activities	Total Amount (Rs.)	% Completion	Works Completed as on July 2021	% of Activities	% of Activities	Balance Work	% of Activities	As per Actual Site Condition (Observations)	% of Activities	As per Actual Site Condition (HOW Available)
1	Design	2.16%	14,40,26,000	100.00%	14,40,26,000.00	2.16%	0.00%		0.00%		0.00%	(4,024)
2	Preliminaries	0.00%	64,61,17,000	98.00%	63,51,54,660.04	8.87%	0.16%	1,29,62,340	0.16%	1,29,62,340	0.00%	(17,704)
3	Site Clearance and Dismantling	0.12%	87,97,400	70.00%	61,59,419.60	0.09%	0.04%	26,39,078	0.07%	16,16,900	0.01%	10,00,690
4	Earth Works	12.66%	91,14,21,067	85.00%	77,47,07,066.81	10.76%	1.90%	13,66,91,506	0.45%	3,24,05,850	1.45%	13,42,35,716
5a	Granular Base Courses and Sub Base Courses (Non-Bituminous)	13.49%	97,14,55,370	90.00%	29,14,96,611.00	4.05%	9.44%	68,00,10,636	4.28%	30,80,63,000	5.10%	37,14,40,749
5b	Granular Base Courses and Sub Base Courses (Non-Bituminous) at site and quarry Bituminous Courses / Cement Concrete Pavement	19.96%	1,43,72,69,350	100.00%	14,12,26,925.18	2.00%	17.06%	1,29,35,38,302	6.17%	40,48,16,002	11.66%	30,86,84,290
6a	Bituminous Courses / Cement Concrete Pavement	0.00%		0.00%		0.00%						
5	Culverts	3.32%	28,22,90,960	80.00%	22,58,12,768.00	3.14%	0.78%	5,64,51,807	0.54%	5,06,40,025	0.25%	7,08,11,274
6A	Major Bridges	12.05%	80,77,56,050	85.00%	72,75,93,152.51	10.34%	1.81%	7,01,12,438	0.01%	8,90,194	1.79%	12,92,52,745
6B	Minor Bridges	0.80%	42,12,76,050	90.00%	37,91,49,745.00	0.27%	0.58%	4,21,17,057	0.08%	5,41,665	0.50%	3,58,02,322
7	ROB'S / ATYUMH / VMS & PUP'S	8.40%	60,46,49,385	80.00%	51,39,51,977.53	7.14%	1.26%	9,06,84,082	0.07%	14,21,172	1.24%	6,92,11,966
8	Drainage and Protection Works	0.58%	68,56,00,582	50.00%	41,37,63,405.00	5.75%	0.81%	27,18,30,740	0.27%	1,96,52,853	3.56%	25,61,77,887
9	Traffic Signs / Road Markings and other Road Appurtenances	1.02%	7,34,53,260	0.00%		0.00%	1.02%	7,34,53,260	0.37%	2,62,67,800	0.65%	4,66,89,590
10	Toll plaza	0.23%	1,66,12,440	80.00%	1,33,05,951.77	0.18%	0.05%	3,26,117	0.00%		0.00%	33,26,117
11	Wayside Amenities & Utilities	0.42%	3,02,45,460	0.00%		0.00%	0.42%	3,02,45,460	0.25%	1,60,03,250	0.37%	1,22,42,210
12	Environmental works	0.25%	1,80,63,250	0.00%		0.00%	0.25%	1,80,63,250	0.12%	57,11,358	0.13%	92,91,852
13	Miscellaneous works	0.15%	1,05,61,950	80.00%	84,41,560.00	0.12%	0.03%	21,60,140	0.01%	2,20,130	0.02%	14,40,010
14	Repair & rehabilitation of structures	0.15%	1,00,61,950	20.00%	21,60,800.00	0.03%	0.10%	80,41,500	0.00%		0.12%	86,41,500
15	Repair & Maintenance of Highway	0.20%	1,88,18,080	40.00%	75,27,581.90	0.10%	0.16%	1,12,90,166	0.00%		0.16%	1,12,90,166
16	NEW ITEMS	0.00%	0,00,00,000	100.00%	3,56,77,117.00	0.50%	0.00%		0.00%		0.00%	
	Total BOQ Items	100.00%	7,20,10,00,282		4,55,28,12,615.41	60.17%	39.83%	2,86,81,70,106	12.94%	93,15,76,570	26.89%	1,93,65,90,521

H. K. Singh
23-08-2021
Project Manager
Chhapra-Hajipur Superhighway

[Signature]

[Signature]



Stanley Consultants INC.

in association with

SA Infrastructure Consultants Pvt. Ltd; and EDMAC Consulting

Ref: No. SCI/Chhapra- Hajipur/NH 19/684/2013/689

Dated: 30.08.2013

To,
The Project Director
Project Implementation Unit,
National Highway Authority of India
Chhapra- Hajipur Road Project (NH-19)
Hajipur, - 844101
Bihar.

Sub: "Independent Engineer services for 4 laning of Chhapra - Hajipur section 2 lane Chhapra Bypass of NH-19 from km 143.200 to km 207.200 in the except state of Bihar under NHDP phase-III on BOT (Annuity) on DBFOT basis"; **Consideration for COD.**

Dear Sir,

This is in reference to the direction given in the minutes of meetings held on 05.08.2013 regarding proposal to be submitted by us for the Consideration of C.O.D.

As per the contract the schedule completion date for this project has expired on 24.07.2013. The concessionaire however could not complete the project in time due to the fact that they were not handed over the total ROW by 26.04.2011 as required as per cl. No. 10.3.4 of the CA. So there is a genuine reason for considering the request of the concessionaire for permitting them to complete the project beyond the scheduled completion date.

This matter was discussed in detail during the meeting held on 5th Aug 2013 when the concessionaire was asked to complete the road in all respect for the length of road already made available to them i.e. 52.44 km including 15.012 km 2-lane of Chhapra bypass.

The contract also has a provision to complete the work during the grace period of 270 days as per cl. No. 12.4.3 of the CA. Since the grace period expires on 19th April 2014 so it is recommended that if the above portion of the road is completed in all respect by 19th April 2014 then the provisional certification may be put up for consideration along with COD.

For the balance length of the road assuming that the encumbrances free ROW is made available to the concessionaire within 2 to 3 months time as assured by the State Government, it can be included in the punch list. This is in compliance with Cl no. 14.3.1 of the CA. The time for completion of the same is 90 days as per Cl. No. 14.4.1 of the CA.

So the balance portion of the road should also be completed within 90 days i.e. by 18th July 2014

Thanking you and assuring our best services at all times.

Yours Sincerely

Project Director

Letter regarding Provisional Completion Certificate



भारतीय राष्ट्रीय राजमार्ग प्राधिकरण
(सड़क परिवहन और राजमार्ग मंत्रालय, भारत सरकार)
National Highways Authority of India
(Ministry of Road Transport and Highways Govt. of India)

परियोजना कार्यालय इकाई - हाजीपुर
Project Implementation Unit - HAJIPUR
शर्मा हाउस, दूसरा तल्ला, रामेश्वी चोक
हाजीपुर - 844 101, बिहार
2nd Floor, Sharma House, Ramashish Chowk
Hajipur - 844 101, BIHAR
फोन / Ph : 06224-274255
फैक्स / Fax : 06224-274256
e-mail : hajipur@nhai.org

No.: NHAI/PIU/HAI/NH-19/CHEL/2011/2353

31 January 2014

To,
Mr. M. Sabri
Project Manager
Chhapra-Hajipur Expressways Ltd.
C/o. Madhucon Projects Ltd. (Base Camp)
NH-19, Vill- Baharbagachi, Near Middle School,
PO+PS - Nayagaon,
Dist.-Saran (Chhapra) - 841 207

Sub: Rehabilitation and up-gradation to 4-laning Chhapra - Hajipur section of NH-19 from km. 143+200 to km 207+200 in the State of Bihar under NHDP - III on Annuity basis: **Provisional Completion Certificate- reg.**

Ref: Review meeting chaired by Member (PPP) on 29.01.2014 at NHAI HQ (Concessionaire requested there to issue a letter from Authority regarding Provisional Completion Certificate to release further funds from lenders).

Sir,

As discussed in the above referred meeting, it is to state that total length of project is 66.74 Km. As per provision of Concession Agreement, the concessionaire is eligible to get Provisional Completion Certificate on completion of at least 75% of road subject to issue of Provisional Completion Certificate by IE on request of concessionaire under clause 14.3.2 (page no. 55) of Concession Agreement.

This is to refer that above provision would be strictly & expeditiously complied by the Authority and upon successful completion of tests, the Independent Engineer shall issue the completion certificate or the provisional completion certificate, as the case may be. (Schedule - I, Clause - 4 page - 202 of CA)

The amount of annuity payable to you shall be in accordance of provision of Concession Agreement read with schedule - G.

Yours faithfully

(Manoj Kumar)
Project Director

Copy to:

- (i) RO, NHAI, Patna
- (ii) CGM (Tech.), Bihar, NHAI, HQ
- (iii) GM (Tech.), Bihar, NHAI, HQ

HP/IE/Drive/Letter 14/January letters/K.K.

Head Office : G-5 & 6, Sector-10, Dwarka, New Delhi - 110075, जी-5 एवं 6, सेक्टर-10, द्वारका, नई दिल्ली - 110 075
दूरभाष / Phone : 91-11-25074100 / 25074200, फैक्स / Fax : 91-11-25093507 / 25093514, Website : www.nhai.org

ANNEXURE R – PHOTOGRAPHS



Dumping of soil for Embankment Top layer @ km 157+910 to km 158+050 LHS in progress



Dumping of soil in progress for Shoulder preparation @ km 158+500 LHS



GSB Top Layer completed @ km 157+600 to km 157+790 LHS



WMM 1st layer in progress @ km 157+500 to km 157+790 LHS



Casting of Raft of Pedestal @ km 157+175 in progress



Laying of DBM 1st layer in progress @ km 207+980 RHS