

GOVERNMENT OF ODISHA WORKS DEPARTMENT
ODISHA STATE ROADS PROJECT

MONTHLY PROGRESS REPORT

Construction Supervision of Jagatpur Chandbali Road (0/0 km to 99/0 km of MDR and 52/0 km to 45/0 km of SH 9) of Odisha State Roads Project

PACKAGE NO.: OSRP-CW-ICB-OSRP-CW-ICB-P04A2, Nishintakoli-Duhuria Road (25/0 km to 49/0 km of MDR)- Balance works



APRIL-2018

LEA Associates South Asia Pvt. Ltd., New Delhi
in association with
SM Consultants, Bhubaneswar, Odisha



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Chapter 1. Executive Summary

1.1 PROJECT BACKGROUND

The **Odisha Works Department (OWD)** has a medium to long-term comprehensive programme to rehabilitate, upgrade and expand the road network throughout the state to improve accessibility, connectivity and enhance the overall development. It is the pre-eminent state level road authority in Odisha which deals with issues relating to Feasibility Study and preparation of Detailed Project Report including the Route Selection, even for relatively low volume roads.

The **Government of Odisha** has secured a loan from **International Bank for Reconstruction and Development (The World Bank)** towards the cost of **Widening and Strengthening of existing Jagatpur- Chandbali Road Project (106 km)**.

Jagatpur-Chandbali Road Project is part of 825 km of roads under **Phase-I** which aims at promoting trade and regional integration between districts by improving transport communication. The project road **Jagatpur-Chandbali** is a part of the Phase-I road development, which was built several years ago with two lane configuration and currently serves moderate level of traffic. The project involves widening of the existing road which has an average **carriageway width of 5.5 m to 6.8 m and 1.5m. Earthen shoulder on both sides, to a 7.0 m carriageway, 1.5m paved shoulder 1.0 m soft shoulders on both sides.** The expected outcome of the project include reduced transportation time of goods and better connectivity between districts along with improved safety standards; reduced transit time for import and export goods via port

The Jagatpur-Chandbali road was divided into two Packages for the purpose of improvement. 1st package was from Jagatpur to Duhuria and 2nd package was from Duhuria to Chandbali. After termination of the Contract of 1st package, it is divided into two packages, viz., Jagatpur to Nischintakoili (P04A1) and Nischintakoili to Duhuria (P04A2).

1.2 THE PROJECT

The Nischintakoili-Duhuria (Km 25/00 to Km 49/00, MDR) (P04A2) is a part of Jagatpur-Kendrapada–Chandbali - Bhadrak 152 km project corridor. This road section starts from at Chainage 25/00 km of Jagatpur-Chandbali Road, MDR and ends at Duhuria at km 49/00. This section of the road connects Jagatpur an industrial area in Cuttack district and Kendrapada, a district headquarters and a business centre.

The total length of the project road is 24.000 km. The road passes completely through plain terrain. Major stretch of the road is located in the District of Kendrapada. This stretch of the road passes through major settlements at Nishchintakoili, Katikata and Balia.

The **location map** of the project road is shown below in Figure 1-1;

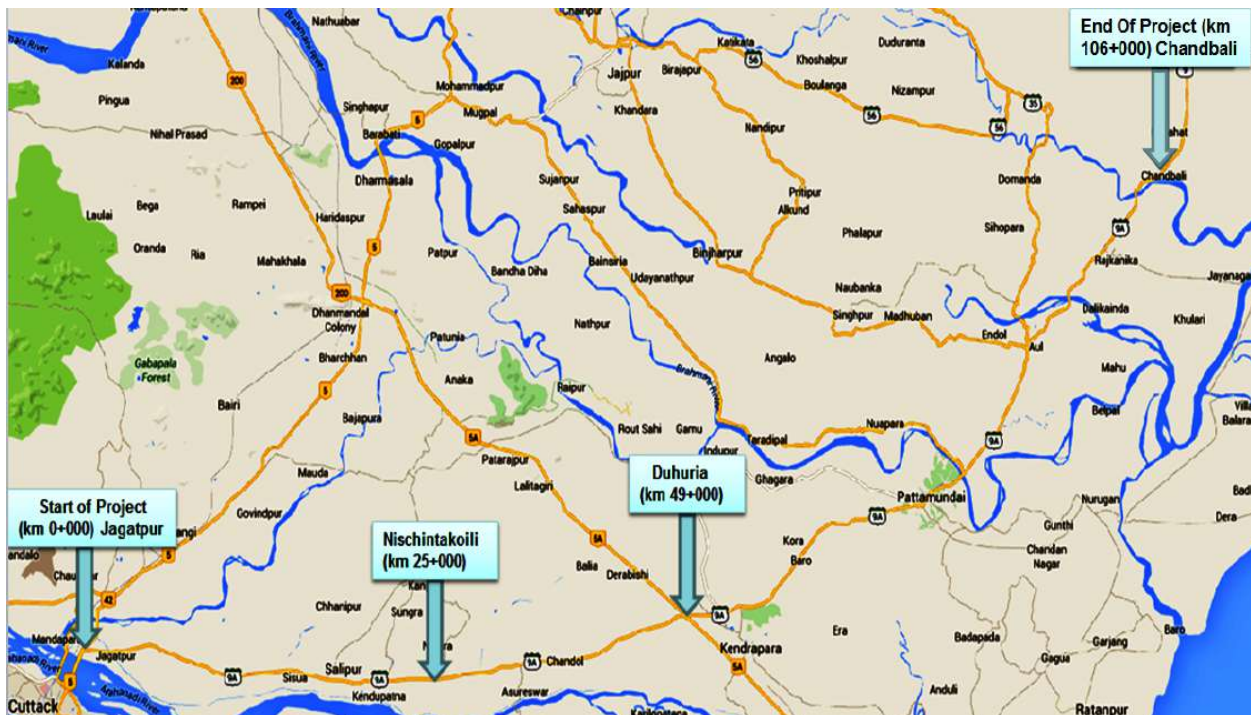


Figure 1-1: Location Map

1.3 CONTRACT MANAGEMENT FRAME WORK

1.3.1 Employer

Mr. Om Prakash Patel, Chief Engineer, DPI & Roads, Odisha
On behalf of Works Department, Government of Odisha

1.3.2 Employer’s Representative

Mr.B C Dash, -Superintending Engineer, Cuttack, R&B Circle, cum Employer’s representative

1.3.3 Engineer

Mr.Deepak Kumar Acting Resident Engineer
Lea Associates South Asia Pvt. Ltd
B1/E-27, Mohan Co Operative Industrial Estate Mathura Road, New Delhi-110 044
Site Office-Near NH-5A Underpass, Duhuria, P.O.-Pandiri, District – Kendrapara, Odisha,
Pin – 754211
Email: lasakendrapara1@lasaindia.com

1.3.4 Contractor

M/s. Varaha Infra Limited,
Umesh Smriti, 6 Jalam Vilas Scheme, Paota B Road,
Jodhpur-342006, Rajasthan, India

Site Office –
Mouza-Kashoti, Plot no.700, Duhuria,
Dist.-Kendrapara, Pin-754211, Odisha



1.4 PROJECT DETAILS

- Contract Value :- Rs.97,89,97,903
- Period of Construction :- 18 months
- Date of Commencement of Work :- 1st January 2016
- Scheduled Date of Completion :- 30th June 2017
- Progress Achieved till this month: - 86.19%

1.5 SALIENT FEATURES

1.5.1 Highways

- Total Length of Project Corridor (MDR) – 24.00 km
- Type of Carriageway Flexible 17.90 km
- Rigid 6.10 km
- Roadway Width 14 m (Revised)
- Carriageway Width 7m+1.5m paved shoulder on both sides
- Bus Bays and Bus Shelter 27 Nos
- Toll Plaza Deleted.
- Junctions 51 Nos

1.5.2 Structures

- Minor Bridges 02 No.
- Box Culverts 11 Nos.
- Hume Pipe Culverts 46 Nos.
- Hume Pipe Culverts with Utility 15 Nos.
- Hume Pipe Culverts with Reptile pass 05 Nos.
- Pipe culverts on access roads 54 Nos.(As per contract)
18 No's to be constructed as per site condition

1.5.3 Crust Details

- Flexible Pavement

Sub-Grade	500 mm
GSB	200 mm
WMM	250 mm
DBM	90 mm
BC	40 mm
- Rigid Pavement

Sub-grade	500 mm
GSB	150 mm
DLC	150 mm
PQC	300 mm

1.6 MILESTONES

The project corridor has been divided into two sections for completion of work. Sections provided in the Contract were rescheduled through Supplementary Agreement as Addendum 1 as furnished below.

Section Name	Length of Section	Stretch of the Section		Scheduled date of completion
		As per original contract	As Rescheduled	
Section I	14 km	Km.35.0 to Km 49.0	14 km in different stretches	28.02.2017
Section II	10 km	Km.25.0 to Km 35.0	10 km in different stretches	30.06.2017 Extended to 31.01.2018



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Chapter 2. Physical Performance and Programme of Work

2.1 ROAD WORK

2.1.1 Linear Progress – Total Length- 24.00 km

Sl. No.	Items	Total Length	Side	Length Completed / In Progress in Lane Km						
				Completed up to Previous Month	Completed During the Month	Total completed	In progress	Cumulative length (completed + In Progress)	Balance Length to be taken up	Length Completed Over Full Width
A	B	C	D	E	F	G=E+F	H	I=G+H	J=C-I	K
1	Embankment/Excavation	24.00	LHS	23.960	0.000	23.960	0.000	23.960	0.040	23.960
		24.00	RHS	23.960	0.000	23.960	0.000	23.960	0.040	
2	Subgrade	24.00	LHS	23.960	0.000	23.960	0.000	23.960	0.040	23.960
		24.00	RHS	23.960	0.000	23.960	0.000	23.960	0.040	
3	GSB	24.00	LHS	23.960	0.000	23.960	0.000	23.960	0.040	23.960
		24.00	RHS	23.960	0.000	23.960	0.000	23.960	0.040	
4	WMM	17.90	LHS	17.890	0.000	17.890	0.000	17.890	0.010	17.890
		17.90	RHS	17.890	0.000	17.890	0.000	17.890	0.010	
5	DBM	17.90	LHS	17.890	0.000	17.890	0.000	17.890	0.010	17.890
		17.90	RHS	17.890	0.000	17.890	0.000	17.890	0.010	
6	BC	17.90	LHS	17.869	0.000	17.869	0.000	17.869	0.031	17.850
		17.90	RHS	17.835	0.000	17.835	0.000	17.835	0.065	
7	DLC	6.100	LHS	6.070	0.000	6.070	0.000	6.070	0.030	6.024
		6.100	RHS	6.100	0.000	6.100	0.000	6.100	0.000	
8	PQC	6.100	LHS	6.026	0.000	6.026	0.000	6.026	0.074	6.010
		6.100	RHS	6.040	0.000	6.040	0.000	6.040	0.060	



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2.1.2 Progress in Quantities

Pie chart showing the weightage of major construction items is shown in Figure 2-1;

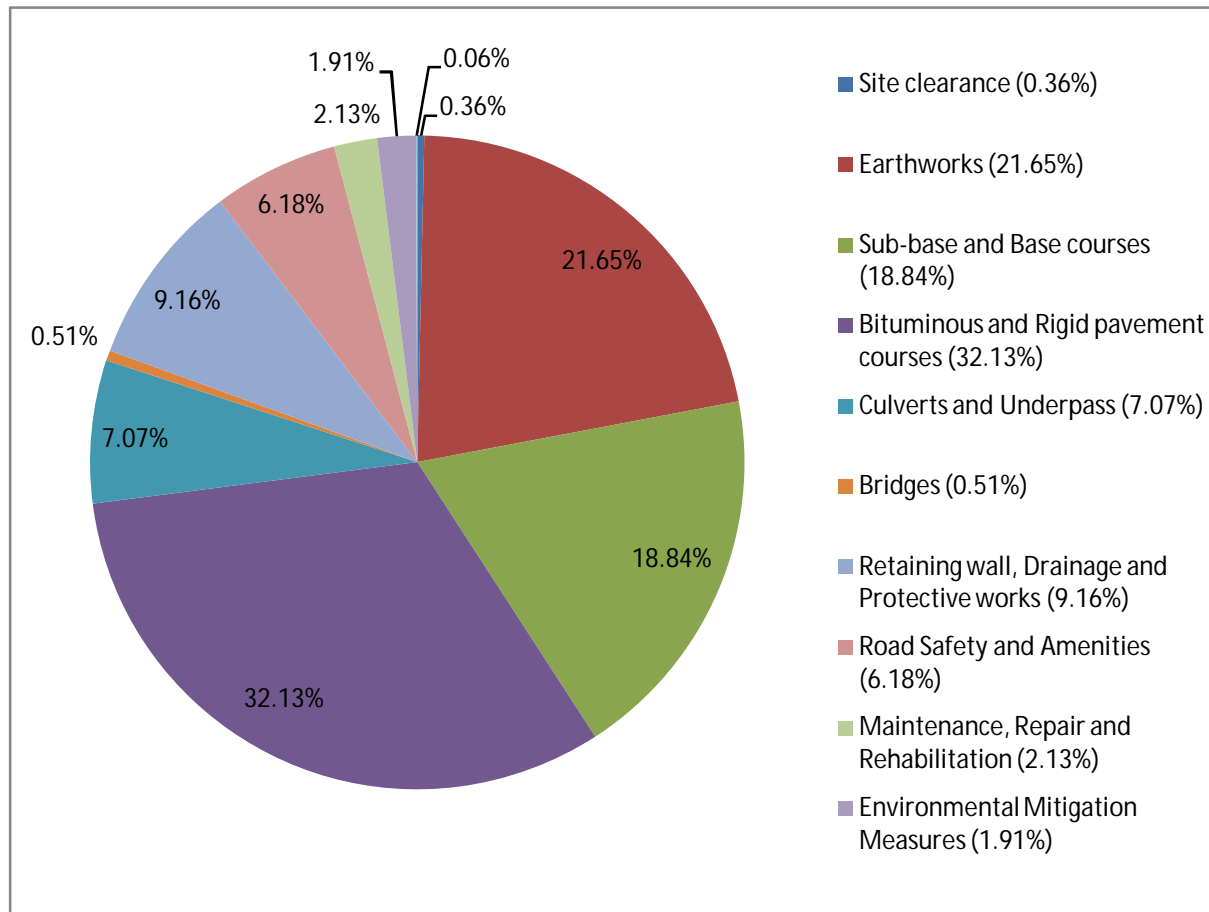


Figure 2-1: Weightage of Major Construction Items



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Box Culvert Deck Slab Concrete at 32+978RHS



Box Culvert Deck Slab Concrete at 32+978 RHS



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Box Culvert Deck Slab Concrete at 38+937 LHS



Box Culvert Deck Slab Concrete at 38+937 LHS



2.3 ROUTINE MAINTENANCE

2.4 THE ROAD IS BEING MAINTAINED BY THE CONTRACTOR AS PER REQUIREMENT Programme of work.

Contractor has not submitted baseline work programme.

A chart showing the time elapsed is given below in Figure 2-2.

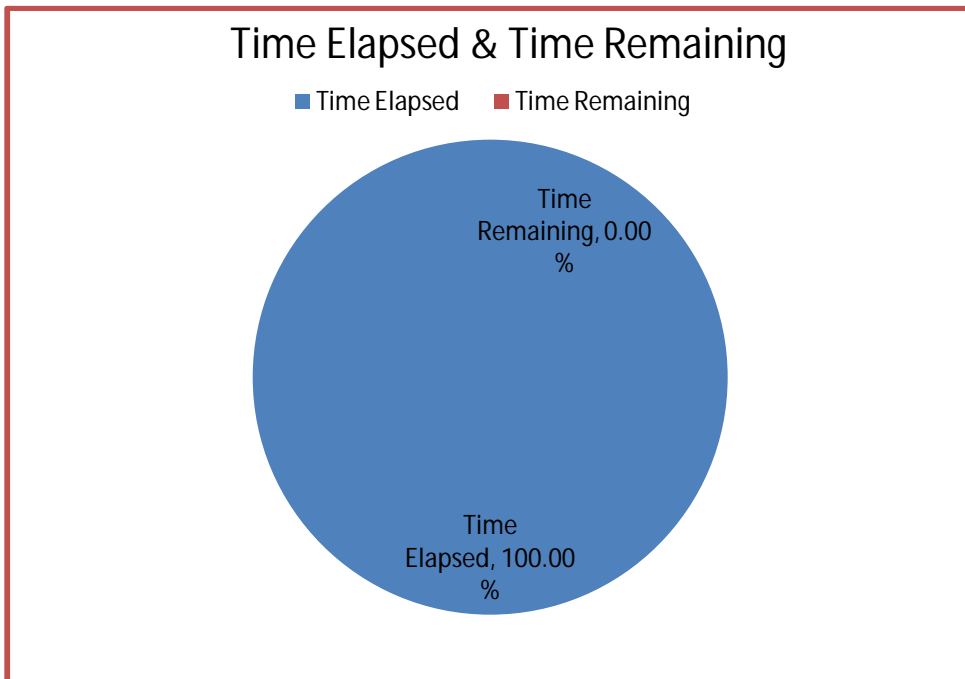
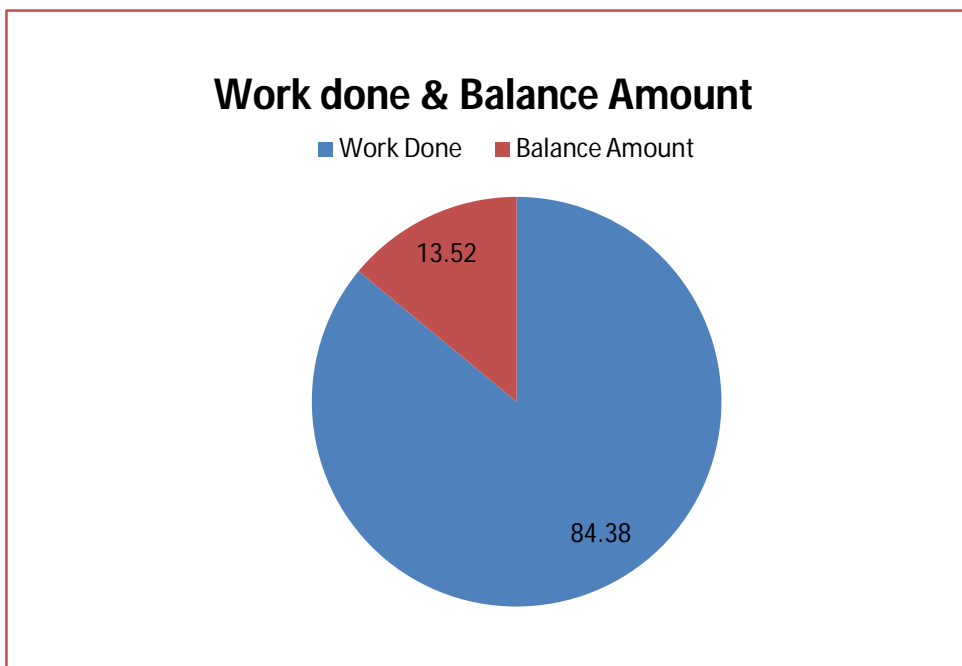


Figure 2-2: Total Duration of the Project (Construction Phase)-18 Months



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2.5 FORECAST FOR NEXT MONTH

Forecast for May 2018

Sl.no.	Description	Unit	Quantity remaining to be executed by the end of this month	Quantity planned to be executed during next month	Approximate Value of work (Rs)	Remarks
1	Embankment in soil	Cum	15206	0	0	
2	Embankment in sand	Cum	3837	0	0	
3	Subgrade	Cum	16221	0	0	
4	GSB	Cum	0	0	0	
5	WMM	Cum	7965	0	0	
6	DBM	Cum	2014	0	0	
7	BC	Cum	939	0	0	
8	DLC	Cum	0	0	0	
9	PQC	Cum	0	0	0	
10	Excavation for structures	Cum	7625	0	0	
11	Granular materials	Cum	1410	0	0	
12	Sand filling	Cum	0	0	0	
13	PCC M 15 levelling course	Cum	1711	0	0	
14	PCC M15 Substructure	Cum	0	0	0	
15	RCC M 20	Cum	45	0	0	
16	RCC M 30	Cum	0	0	0	
17	RCC M 35	Cum	0	0	0	
18	HYSD	MT	216	0	0	
19	HP 1000 mm single row	Rmt	0	0	0	
20	HP 1200 mm single row	Rmt	328	0	0	
21	HP 1200 mm double row	Rmt	44	0	0	
22	Miss. Item, Saucer Drain, Crash Barrier, Road Painting, Turfing etc.				0	
				Amount =	0	

2.6 STATUS OF EXTENSION OF TIME

EOT has been approved by the Employer up to 31.01.18.

Chapter 3. FINANCIAL PERFORMANCE

3.1 FINANCIAL PROGRESS

Financial Progress achieved up to the end of this month is furnished below

1. Contract Amount Rs.97.90 Crores
2. Value of work executed up to 30.04.18
 - a) Gross Amount of Work Rs.84.38 Crores
 - b) Amount of work excluding Price Adjustment Rs.84.38 Crores
 - c) Mobilisation Advance - Nil
 - d) Material advance - Nil
3. Total (b+c+d) - Rs.84.38 Crores
4. Percentage of work executed (2b/1)*100 **86.19%**

3.2 MONTH WISE FINANCIAL PROGRESS

Month-wise Financial progress on work proper excluding Escalation and advances are furnished in Table 3-1 below.

Table 3-1: Month wise Financial Progress

Sl. No.	Month	Base target		Achievement	
		Amount during the month (Rs Cr.)	Percentage during the month	Amount during the month (Rs. Cr.)	% Achieved during the month
1	Jan-16	0	0%	1.90	1.94%
2	Feb-16	0	0%	2.62	2.68%
3	Mar-16	0	0%	4.04	4.13%
4	Apr-16	0	0%	4.89	4.99%
5	May-16	0	0%	4.18	4.27%
6	Jun-16	0	0%	2.28	2.34%
7	Jul-16	0	0%	2.42	2.47%
8	Aug-16	0	0%	1.77	1.81%
9	Sep-16	0	0%	2.31	2.36%
10	Oct-16	0	0%	3.21	3.27%
11	Nov-16	0	0%	5.20	5.32%
12	Dec-16	0	0%	7.70	7.87%
13	Jan-17	0	0%	7.84	8.01%
14	Feb-17	0	0%	5.26	5.37%
15	Mar-17	0	0%	7.64	7.80%
16	Apr-17	0	0%	4.06	4.15%
17	May-17	0	0%	4.78	4.88%
18	Jun-17	0	0%	3.53	3.60%
19	Jul-17	3.43	3.504%	2.68	2.74%
20	Aug-17	1.96	2.002%	2.18	2.22%
21	Sep-17	2.71	2.768%	1.33	1.36%
22	Oct-17	0	0.000%	1.14	1.16%
23	Nov-17	0	0.000%	1.12	1.14%

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24	Dec-17	0	0.000%	0.02	0.02%
25	Jan-18	0	0.000%	0.03	0.03%
26	Feb-18	0	0.000%	0.05	0.05%
27	Mar-18	0	0.000%	0.15	0.15%
28	Apr-18	0	0.000%	0.05	0.05%
	Total	8.10	8.274%	84.38	86.19%

3.3 MOBILIZATION ADVANCE

The Contractor has not been paid the mobilisation advance so far.

3.4 STATEMENT OF IPC

Sl. No.	IPC No.	Month	Gross Amount of IPC (Crores)						
			Value of BOQ Item	Value of Non BOQ Item	Escalation	Secured Advance	Gross amount	Recoveries	Net Amount Paid
1	1	Jan-16	1.90				1.90	0.41	1.49
2	2	Feb-16	2.62				2.62	0.54	2.08
3	3	Mar-16	4.04				4.04	0.77	3.27
4	4	Apr-16	4.88				4.88	0.90	3.98
5	5	May-16	4.18				4.18	0.82	3.36
6	6	Jun-16	2.28				2.28	0.47	1.80
7	7	Jul-16	2.42				2.42	0.48	1.94
8	8	Aug-16	1.77				1.77	0.32	1.45
9	9	Sep-16	2.31				2.31	0.44	1.87
10	10	Oct-16	3.21				3.21	0.60	2.61
11	11	Nov-16	5.20				5.20	0.82	4.38
12	12	Dec-16	7.70				7.70	1.65	6.05
13	13	Jan-17	7.84				7.84	1.43	6.41
14	14	Feb-17	5.26				5.26	0.56	4.70
15	15	Mar-17	7.64				7.64	0.79	6.85
16	16	Apr-17	4.06				4.06	0.46	3.60
17	17	May-17	4.78				4.78	0.48	4.30
18	18	Jun-17	3.53				3.53	0.10	3.43
19	19	Jul-17	2.68				2.68	0.10	2.58
20	20	Aug-17	2.18				2.18	0.08	2.10
21	21	Sep-17	1.33				1.33	0.04	1.29
22	22	Oct-17	1.14				1.14	0.04	1.10
Contractor has not submitted IPC									
		Total	82.96				82.96	12.30	70.64



Chapter 4. Status of Risk

4.1 HANDING OVER OF SECTION

Handing over status of Sections are mentioned below

Section Name	Scheduled date of Handing Over	Actual date of handing over
Section I Km.35.0 to Km.49.0	1-Jan-2016	1-Jan-2016
Section II Km.25.0 to Km.35.0	31-Mar-2016	31-May-2016

4.2 STATUS OF UTILITY SHIFTING

Encumbrances	Number existing till last month	Number removed during this month	Balance remaining for removal
Tree	0	0	0
R & R	0	0	0
Electric pole	0	0	0
Pipe line	0	0	0

4.3 ANY OTHER ISSUE

The progress of work is slow. The major issue for non-completion is for delay in decision by WR Department for providing CD structures over canals. The Contractor has substantially completed the Milestone-I.

4.4 RISK INVOLVED



Chapter 5. Environmental Monitoring and Safety

5.1 ENVIRONMENT MANAGEMENT PLAN

Sl. No.	Environmental Issue / Aspect	Management Measures
1	Tree Cutting	Tree cutting done by other agency.
2	Joint Field Verification	Site visit is done time to time.
3	Location and Installation of Crushers, Hot Mix Plants and Batching Plants	BMP - Plant has been dismantled from camp. HMP/WMM - Consent obtained for HMP/WMM, renewal copy has to be submitted. Consent of Crusher has to be submitted.
4	Construction Camp(s) – Selection, Design and Layout	Approval is accorded for Duhuria camp for office/ laboratory/ store, not for labour camp.
5	Construction Vehicles, Equipment and Machinery	PUC certificates for vehicles yet to be submitted.
6	Identification, Operation and Rehabilitation of Borrow Areas	Approved Samagudia (Ichchapur), kasoti soil borrow area & Manduka Morrum/soil borrow area are in operation.
7	Identification, Operation and Rehabilitation of Stone Quarry	Contractor is procuring material from vendor.
8	Identification, and Operation of Sand Quarry	- Approved Panthapala & Pakshat sand quarries are in operation.
9	Arrangement for Construction Water	- Contractor excavated bore well at camp for water consumption.
10	Clearing and Grubbing	-Action is being taken as per EMP.
11	Stripping, Stacking and Preservation of Top Soil	After stripping stored top soil is used for turfing purposes.
12	Labour Camp Management	Labour camp has not been proposed.
13	Transportation of Construction Materials and Haul Road Management	Maintaining haul road for transportation purposes & covered vehicles are used for material transportation.
14	Worksite Safety Management	Signage's, barricading, delineators are provided at opened construction locations.
15	Accessibility	Any obstruction not reported due to construction work.
16	Disruption to Other Users of Water	Such obstructions have not been occurred while working.
17	Labour Requirements	Labourers engaged are locals.
18	Pollution Management	Pollution monitoring yet to be started, housekeeping is proper.
19	Drainage and Flood Control	Not observed any blockage of cross drainage and provided temporary drainage for water accumulation.
20	Slope Protection and Control of Soil Erosion	Slope protection is done.
21	Waste Management	Scarified/dismantled materials are used in diversion, in haul road maintenance.
22	Chance Found Archaeological Property	No archaeological property found.
23	Demobilisation and Decommissioning	No activity during the month.

5.2 ROAD SAFETY

Efforts are being made to ensure road safety construction.



Chapter 6.Variation and Changes

6.1 SUMMARY OF CHANGE ORDER

Sl. No.	Change Order No.	Description of Change Item	Increase in Cost (INR)	Saving in Cost	Revised Contract Price (INR)	Percentage of Increase/Decrease on Contract Price	Cumulative % of Increase/Decrease of Contract Price	Status of approval by Employer
1	1	To provide HPC @ Hume pipe culvert @ Ch.43+180(1X1.2m dia) in place of box culvert		-1500000	977497903	-0.15%	-0.15%	Approved through PMU-(WB)-159/2015-12111,Dt.16.03.2016
2	2	Replacement of Flexible pavement by Rigid pavement with saucer drain from km.44+800 to Ch. 45+100(0.300 km)	4100000		981597903	0.42%	0.27%	Approved through PMU-(WB)-159/2015-12111,Dt.16.03.2016
3	3	Hume Pipe Culvert @ Ch.38+363 (2x1.0m dia) in place of HPC (1X1.0m dia)	700000		982297903	0.07%	0.34%	Approved through Letter No-555,Dt.05.01.17
4	4	To provide Box culverts in place of Hume Pipe culverts over canal crossings and to increase the span of Box culverts proposed in Contract to provide free flow of water in canals.	15100000		997397903	1.54%	1.88%	Approved through Letter No-554,Dt.05.01.17
5	5	Roadway width to be increased to 14m from the original provision of 12m	54000000		1051397903	5.52%	7.40%	Approved through Letter No-4750,Dt.08.02.17
6	6	Replacement of Flexible pavement by Rigid pavement with saucer drain from Km. 26+500 to Km.27+250. (0.750 km)	10200000		1061597903	1.04%	8.44%	Approved through Letter No-9944,Dt.16.03.17
7	7	Providing HPC culvert of size 1x1m dia at ch.25+425	354000		1061951903	0.04%	8.48%	Approved through Letter No-11684,Dt.27.03.17

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8	8	Additional Hume pipe culvert(1x1.0M dia)	354000		1062305903	0.04%	8.51%	Approved through Letter No-31123,Dt.09.08.17
9	9	Box culvert with additional Pipes of 1200 mm dia on Both sides	354000		1062659903	0.09%	8.57%	Approved through Letter No-31122,Dt.09.08.17
10	10	Deletion of 27 nos of Busbays& passenger shelters		-18200000	1044459903	-1.86%	6.71%	Approved through Letter No-31126,Dt.09.08.17
11	11	Earthfill in shoulders besides saucer drains	400000		1044859903	0.04%	6.74%	Approved through Letter No-31125,Dt.09.08.17
12	12	Box Culver (6x3) converted into Minor Bridge (8x5) Ch.36+873	4800000		1049659903	0.49%	7.23%	Approved through Letter No-31124,Dt.09.08.17
13	13	Construction of Box drain in additional to saucer drain from Km 44+450 to Km 44+850 RHS	3400000		1053059903	0.35%	7.58%	Yet to be Approved
14	14	Revision of Box Culvert at ch.32+978 & 38+937	1200000		1054259903	0.12%	7.70%	Approved through Letter No-1207,Dt.08.01.18
			94962000	-19700000				



Chapter 7. Quality Control and Quality Assurance

7.1 TESTS CONDUCTED

Following tests both at site and at Laboratory have been conducted during the month to ensure Quality control and Quality Assurance.

Sl. No.	Description of Tests conducted	Number of Tests conducted	No. of Tests Failed	Remedial measure adopted
1	Embankment control Tests	0	0	
2	Tests in Sub grade	0	0	
3	Tests in GSB	0	0	
4	Tests in WMM	0	0	
5	Tests in DLC	0	0	
6	Tests in DBM	2	0	
7	Tests in BC	0	0	
8	Coarse aggregate for Structures (Gradation)	3	0	
9	Fine aggregate for Structures (Gradation)	3	0	
10	Cement	0	0	
11	Cube Compression Tests (07days)	24	0	



Chapter 8. Mobilisation

8.1 CONSULTANT'S TEAM

The staff mobilization is being done in consultation with Employer as per the project requirement. The following table depicts the staff mobilization as on date.

S No.	Designation	Name	Joining Date	Remark
1	Highway Engineer cum Acting Resident Engineer	Mr. Deepak Kumar	24-Apr-17	
2	Quantity Surveyor cum Bridge Engineer	Mr. Ravi Bhushan Rehalia	01-Nov-16	
3	Material Engineer	Mr. Niranjan kumar	20-Oct-16	
4	Bridge Engineer	Mr. Manoj Kumar	14-Apr-18	
5	CADD Engineer	Ms. Luin Mohanty	15-Nov-16	
6	Asst. Quantity Surveyor	Mr. Manoj Kumar	10-May-17	
7	Asst. Highway Engineer-1	Mr. Sukant Sahoo	01-Jan-16	
8	Asst. Bridge Engineer-1	Mr. Soumya Sarangi	19-Feb-16	
9	Asst. Material-cum-Quality Engineer-1	Mr. Pramod Ranjan Sutar	27-Jan-16	
10	Asst. Surveyor-1	Mr.Pradeep Kumar Rana	01-Sept-17	
11	Office Manager-cum-Accountant-1	Mr. Jayanta Kumar Sen	01-Aug-14	
12	Computer Operator-cum-Office Assistant-1	Ms. Jyotirmayee Swain	02-Jan-17	
13	Office Attendant/Watchman	Mr.Madhusudan Pradhan	01.Sep-17	
14	Office Attendant/Watchman	Mr. Sachin Kumar Mandal	01-Oct-16	

8.2 CONTRACTOR'S TEAM

The Contractor's Key Mobilisation status is as follows:

Sl. No	Position	Name	Date of Joining
1	Project Manager	Mr. Krisnananda Nayak	05.11.2015
2	Highway Engineer	Mr. Srikanta Rout	04.12.2015
3	Bridge Engineer	Mr. Sushil Kumar Sahu	05.11.2015
4	Material Engineer	Mr. Sanjeeb Choudahary	12.11.2015
5	Equipment Maintenance Engineer	Mr. Chandan Pradhan	14.11.2015
6	Quantity Surveyor	Mr. Rasmi Ranjan Swain	01.10.2016
7	Environment & Safety Manager	TBN	



Monthly Progress Report April-2018-P04A2

8.3 STATUS OF PLANT AND EQUIPMENT OF CONTRACTOR

Sl. No	Description of Equipment/Plant	Min. No. as per Contract (own)	Available at site	Remarks
1	Mechanical Bitumen Sensor Paver	01	01	
2	Motor Grader	02	01	
3	Hydraulic Excavator	02	01	
4	Vibratory Roller (Tandem Roller)	03	01	
5	Pneumatic Tyre Roller	01	01	
6	Transit Mixer	05	01	
7	Front end Loader	03	01	
8	Dozer	01	01	
9	Tipper	30	10	
10	Bitumen sprayer	01	01	
11	Earth Compactor	03	01	
12	Water tanker	05	03	
13	Mechanical Paver	01	0	
14	Concrete Pump	02		
15	Concrete fixed from Paver	01		
Plants				
1	Hot Mix Plant (Batch Mix only)	01	01	
2	Concrete Batch-mix Plant	01	01	At Mouza Kashoti is in operation
3	Cone Crushing Unit	01	01	
4	WMM Plant	01	01	

The following survey instruments are available at site:

Sl. No.	Name of the instrument	Quantity (Nos.)
1	Total station	01
2	Auto level	01



Chapter 9. Visits and Meetings

Site Visits

1. Mr Pradyot Biswas, Associate Director, (LASA) and Mr. G.P. Sahoo, Team Leader (LASA) visited the site on 05.04.2018.
2. Mr Manoranjan Mishra (EE, PMU), Visited the site on 11.04.2018
3. Mr. Manoranjan Mishra (EE, PMU) and Mr. G.P. Sahoo, Team Leader (LASA) Visited the site on 23.04.2018
4. Mr. B .C Tripathy, SE (Roads) Visited the site on 30.04.2018

Meetings: No



Chapter 10. Important Correspondence during the Month

10.1 SUBMISSIONS AND APPROVALS

- Nil

10.2 CORRESPONDENCES

Contractor

- Incoming: Nil
- Outgoing: 01 no

Employer

- Incoming: Nil
- Outgoing: 02 nos.

The list of important correspondences made during the month is furnished as Annexure-4.



Chapter 11. Weather during the Month

Sl. No.	Date	Maximum Temp	Minimum Temp	Rain Fall	Remarks
		°C	°C	(mm)	
1	01-Apr-18	30.40	24.90	Nil	Cloudy & Sunny
2	02-Apr-18	30.60	25.10	Nil	Cloudy & Sunny
3	03-Apr-18	29.80	24.90	2.8	Cloudy & rainy
4	04-Apr-18	29.90	26.40	Nil	Cloudy & Sunny
5	05-Apr-18	29.10	25.60	Nil	Cloudy & Sunny
6	06-Apr-18	28.60	24.80	1.5	Cloudy & Sunny
7	07-Apr-18	28.50	24.40	Nil	Cloudy & Sunny
8	08-Apr-18	29.90	26.20	Nil	Cloudy & Sunny
9	09-Apr-18	28.60	25.60	Nil	Cloudy & Sunny
10	10-Apr-18	33.60	28.40	Nil	Sunny
11	11-Apr-18	33.80	28.90	Nil	Sunny
12	12-Apr-18	30.40	26.40	Nil	Cloudy & Sunny
13	13-Apr-18	31.00	26.70	Nil	Cloudy & Sunny
14	14-Apr-18	31.00	26.80	Nil	Cloudy & Sunny
15	15-Apr-18	33.60	28.00	Nil	Sunny
16	16-Apr-18	35.70	29.40	Nil	Sunny
17	17-Apr-18	36.00	29.10	Nil	Sunny
18	18-Apr-18	36.40	29.20	Nil	Sunny
19	19-Apr-18	36.50	29.20	Nil	Sunny
20	20-Apr-18	36.40	29.10	Nil	Sunny
21	21-Apr-18	35.80	28.90	Nil	Sunny
22	22-Apr-18	36.20	29.40	Nil	Sunny
23	23-Apr-18	36.20	29.40	0.8	Cloudy & rainy
24	24-Apr-18	37.00	29.60	Nil	Sunny
25	25-Apr-18	39.10	29.80	Nil	Sunny
26	26-Apr-18	39.40	29.80	Nil	Sunny
27	27-Apr-18	36.20	28.90	Nil	Sunny
28	28-Apr-18	38.20	29.40	Nil	Sunny
29	29-Apr-18	38.60	28.60	Nil	Sunny
30	30-Apr-18	39.40	29.20	Nil	Sunny

**“Construction for Widening & Strengthening of Existing Carriage Way to 2 lane road from Nischintakoili to Duhuria (Km. 25/000 to 49/000 of MDR 9A)
(Balance work)- Package OSRP - ICB - CW - P04A-2”
SURFACE LAYER CHART - P04A-2 (MDR)**

NISCHINTAKOILI ←

→ DUHURIA

LHS	Chainage	RHS					
		EMB/EXC	SUB.	GSB	WMM.	DBM	BC/PQC
1x1.2	25+000	RUP					
	25+100						
1x1.2	25+200						
1x1.2	25+268	HPC					
	25+300						
	25+400						
2x1.2	25+500						
	25+579	HPC					
	25+600						
	25+700						
	25+800						
	25+900						
1x1.2	25+971	HPC					
	26+000						
2x1.2	26+100						
	26+173	U CLVT					
	26+200						
	26+300						
1Row	26+306	HPC					
	26+400						
	26+500						
1Row	26+550	U CLVT					
	26+600						
1Row	26+685	HPC					
	26+700						
	26+800						
	26+900						
	27+000						
4Row	27+100	HPC					
	27+200						
1Row	27+220	U CLVT					
	27+300						
	27+400						
	27+500						
to be delete	27+600	HPC					
	27+700						
	27+800						
	27+900						
	28+000						
6x3	28+100	BOX					
	28+173						
	28+200						
	28+300						
	28+400						
to be delete	28+500	U CLVT					
	28+600						
	28+700						
	28+800						
	28+900						
	29+000						
	29+100						
1x1.2	29+118	HPC					
	29+200						
1x1.2	29+208	HPC					
	29+300						
	29+400						
1x1.2	29+500	HPC					
	29+600						
	29+700						
	29+800						
	29+900						
1x1.2	29+960	HPC					
	30+000						
	30+100						

LHS	Chainage	RHS					
		EMB/EXC	SUB.	GSB	WMM.	DBM/DLC	BC/PQC
1x1.2	30+100						
	30+200						
1x1.2	30+220	HPC					
	30+300						
	30+400						
	30+500						
	30+600						
1x1.2	30+660	HPC					
	30+700						
	30+800						
	30+900						
	31+000						
2x1.2	31+100	RUP					
	31+200						
	31+300						
1x1.2	31+400						
	31+460	HPC					
	31+500						
	31+600						
1x1.2	31+680	HPC					
	31+700						
	31+800						
	31+900						
	31+950						
1x8	32+000	MBB					
	32+068						
	32+100						
	32+200						
	32+300						
1x1.2	32+340	HPC					
	32+400						
	32+500						
1x1.2	32+580	HPC					
1Row	32+600	HPC					
	32+700						
	32+800						
	32+900						
3x3	32+978	BOX					
	33+000						
	33+100						
	33+200						
	33+300						
1x1.2	33+390	U CLVT					
	33+400						
	33+500						
	33+600						
1x1.2	33+700	HPC					
	33+710						
	33+800						
	33+900						
1x1.2	33+950	HPC					
	34+000						
	34+100						
	34+200						
2x1.2	34+225	HPC					
	34+300						
	34+400						
	34+500						
	34+600						
1x1.2	34+610	HPC					
	34+700						
	34+800						
	34+900						
	35+000						

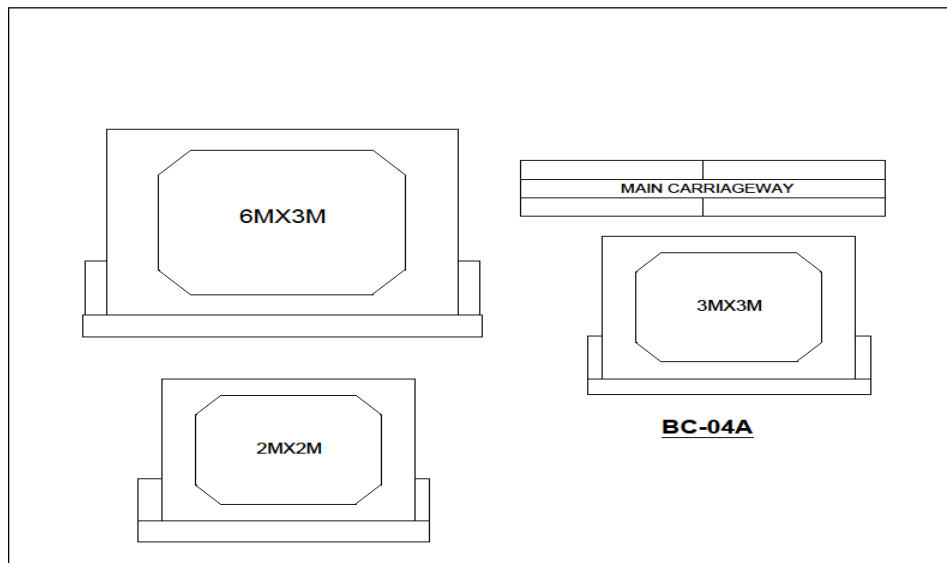
LEGEND FOR WORK COMPLETED & IN PROGRESS

LEGENDS:	Road Work			Structure	
Embankment / Excavation	Yellow	WMM	Brown	DLC	Completed
Subgrade	Red	DBM	Blue	PQC	In Progress
GSB	Light Blue	BC	Dark Blue	E/W in Progress	To be started

Nischintakoli - Duhuria Road Project (Package P04A2)
(km 25+00 TO 49+00)
Progress Report of Box Culverts

Status as on April 2018

Culvert Number	1		2		3		4		5	6		7		8		9		10		11
Chainage	25+971		28+173		32+580		32+978		35+042	36+721		37+195		38+795		38+937		42+528		43+673
Side	L	R	L	R	L	R	L	R	Full Width	L	R	L	R	L	R	L	R	Full Width	Full Width	Full Width
Return Wall																				
Approach Slab			NA				NA										NA		NA	
Slab																				
Side Wall																				
Haunch/ Stater																				
Raft with key																				
PCC																				
Excavation																				



Nischintakoli - Duhuria Road Project (Package P04A2)
(km 25+00 TO 49+00)
Progress Report of Pipe Culverts

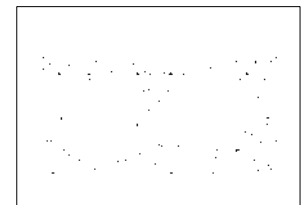
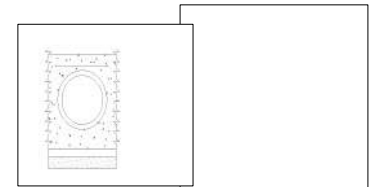
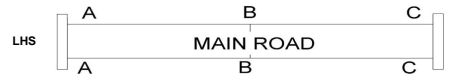
Status as on April 2018

Culvert Number	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34		
Chainage	25+000	25+268	25+425	25+579	26+306	26+550	26+173	26+685	27+100	27+220	27+980	29+208	29+118	29+500	29+960	30+220	30+660	31+100	31+460	31+680	32+340	32+600	33+380	33+710	33+950	34+225	34+610	35+240	35+725	36+000	36+100	36+546	37+580	37+925		
Head Wall	LHS																																			
	RHS																																			
Pipe Laying	LHS																																			
	RHS																																			
Pipe Bed concrete	LHS																																			
	RHS																																			
Pipe Bed filling sand	LHS																																			
	RHS																																			
Pipe bed excavation	LHS																																			
	RHS																																			
Head Wall PCC	LHS																																			
	RHS																																			
Head wall Excavation	LHS																																			
	RHS																																			

Culvert Number	35	36	37	38	39	40	41	42	43	44	45	46	47	48	49	50	51	52	53	54	55	56	57	58	59	60	61	62	63	64	65	66				
Chainage	38+363	39+440	39+740	39+940	40+174	40+440	40+690	40+960	41+267	41+710	41+900	42+310	42+830	42+985	43+180	43+780	44+100	44+450	44+870	45+210	45+500	45+660	45+870	46+180	46+432	46+660	46+966	47+280	47+550	47+805	48+140	48+980				
Head Wall	LHS																																			
	RHS																																			
Pipe Laying	LHS																																			
	RHS																																			
Pipe Bed concrete	LHS																																			
	RHS																																			
Pipe Bed filling sand	LHS																																			
	RHS																																			
Pipe bed excavation	LHS																																			
	RHS																																			
Head Wall PCC	LHS																																			
	RHS																																			
Head wall Excavation	LHS																																			
	RHS																																			

Culvert Number
Chainage
Head Wall
Pipe Laying
Pipe Bed concrete
Pipe Bed filling sand
Pipe bed excavation
Head Wall PCC
Head wall Excavation

- Completed
- In Progress
- Yet to be taken up
- Executed in previous Contract



APPENDIX-2

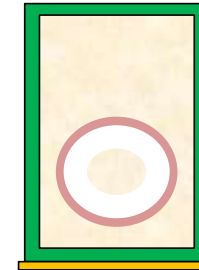
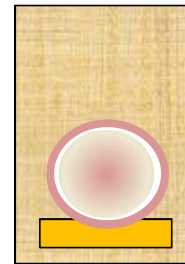
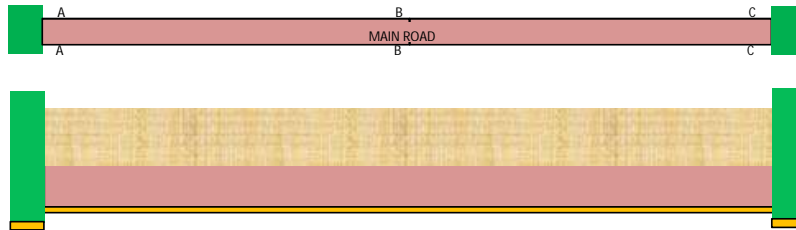
Nischintakoli - Duhuria Road Project (Package P04A2)

(km 25+00 TO 49+00)

Progress Report of Pipe Culverts For Utility Only

Status as on April 2018

Culvert Number		1	2	3	4	5	6	7	8	9	10	11	12	13	14	15
Chainage		26+173	26+550	27+220	29+500	33+390	36+000	37+580	38+363	39+740	40+940	41+680	44+450	45+200	48+150	48+870
Chamber	LHS															
	RHS															
Pipe Laying	LHS															
	RHS															
PCC(Chamber)	LHS															
	RHS															
PCC(Bedding)	LHS															
	RHS															
Sand filling	LHS															
	RHS															

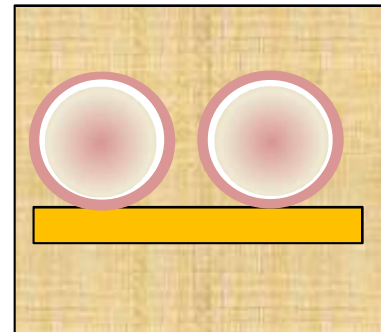
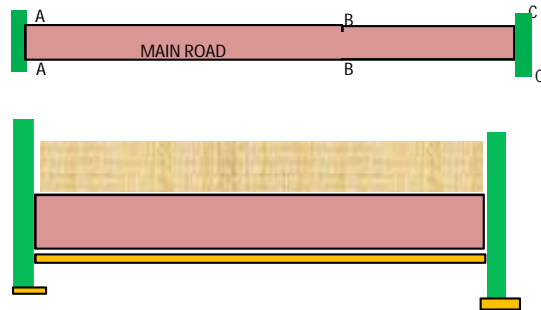


APPENDIX-2

Nischintakoli - Duhuria Road Project (Package P04A)
(km 25+00 TO 49+00)
Progress Report of Reptile Underpass

Status as on April 2018

Culvert Number		1	2	3	4	5
Chainage		25+000	31+100	33+950	40+174	43+780
Head Wall	RHS					
	LHS					
Pipe Laying	RHS					
	LHS					
PCC(Head wall)	RHS					
	LHS					
PCC(Bedding)	RHS					
	LHS					
Excavation	RHS					
	LHS					



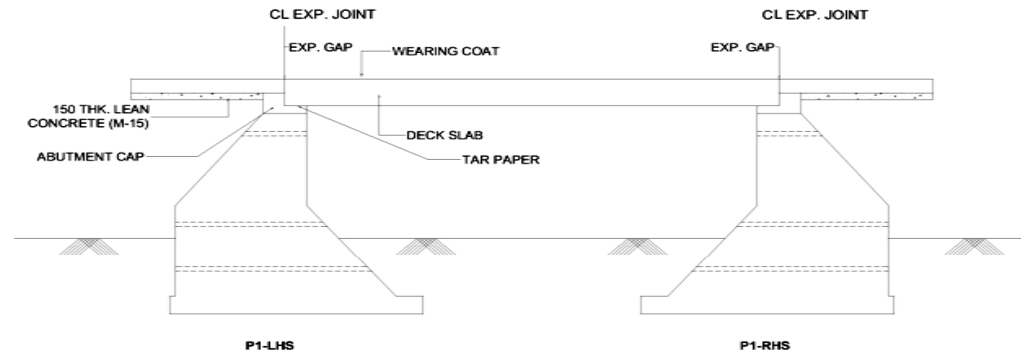
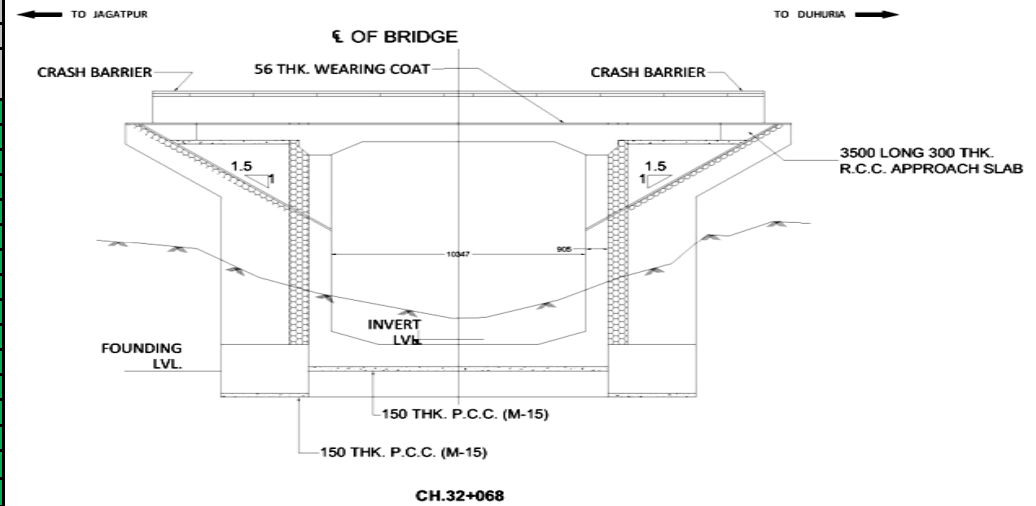
Nischintakoli - Duhuria Road Project (Package P04A)

(km 25+00 To 49+00)

Progress of Minor Bridge (Typical Fig.)

Status as on April 2018

Bridge Number	1		
Chainage	32+068		
	Side	Jagatpur Side	Duhuria Side
Wing Wall	RHS		
	LHS		
Approach Slab	RHS		
	LHS		
Slab	RHS		
	LHS		
Side Wall	RHS		
	LHS		
Haunch/ Stater	RHS		
	LHS		
Raft with key	RHS		
	LHS		
PCC	RHS		
	LHS		
Excavation	RHS		
	LHS		



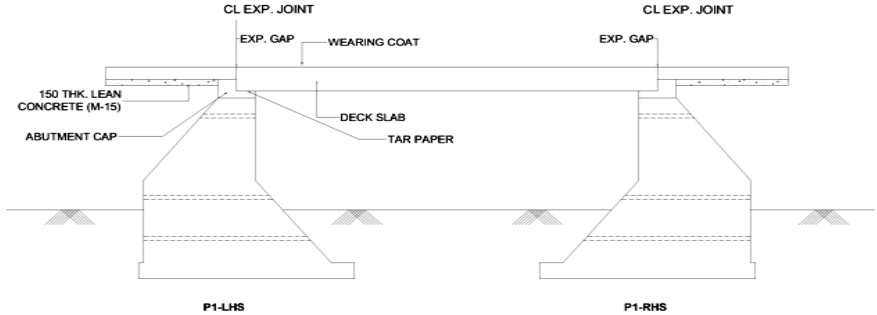
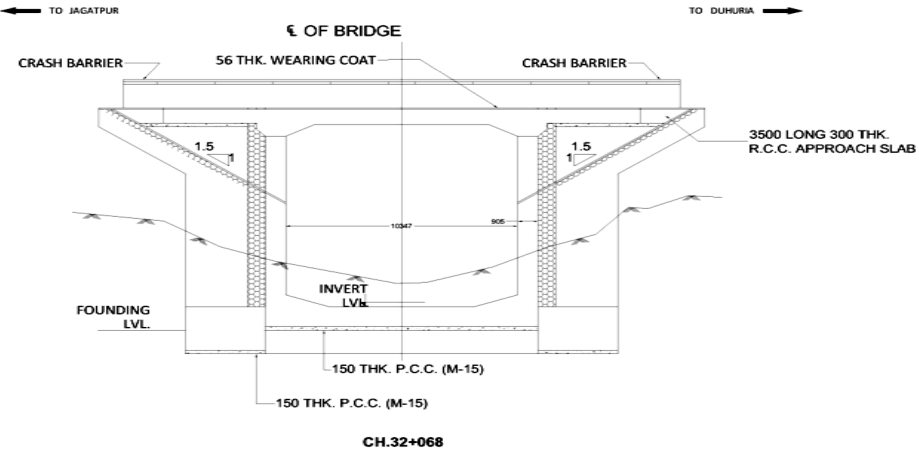
Nischintakoli - Duhuria Road Project (Package P04A)

(km 25+00 To 49+00)

Progress of Minor Bridge (Typical Fig.)

Status as on April 2018

Bridge Number		1	
Chainage		36+873	
	Side	Jagatpur Side	Duhuria Side
Wing Wall	RHS		
	LHS		
Approach Slab	RHS		
	LHS		
Slab	RHS		
	LHS		
Side Wall	RHS		
	LHS		
Haunch/ Stater	RHS		
	LHS		
Raft with key	RHS		
	LHS		
PCC	RHS		
	LHS		
Excavation	RHS		
	LHS		



Nischintakoli - Duhuria Road Project (Package P04A)

(km 25+000 To 49+000)

Progress of Access Road Culvert

Access Road Culvert Number		1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	
Chainage		25+555	26+050	26+695	30+660	30+845	32+580	33+680	33+890	33+923	33+978	34+000	36+260	36+860	38+100	40+730	42+185	42+540	46+260	
Head Wall	LHS																			
	RHS																			
Pipe Laying	LHS																			
	RHS																			
Pipe bed excavation	LHS																			
	RHS																			
Head Wall PCC	LHS																			
	RHS																			
Head wall Excavation	LHS																			
	RHS																			

 Completed

 In Progress

 Yet to be taken up

Construction super vision of Nischintakoili to Duhuria (Km.25/000 to Km.49/000 of MDR)(Balance Work) of SH9 of Odisha state Roads Project.

INCOMING CORRESPONDENCES FOR THE MONTH OF APRIL-2018

Sl. No.	Date	Letter Reference No	Subject	From
CLIENT (ODISHA WORKS DEPARTMENT)				
			Nil	
CONTRACTOR-VARAHA				
			Nil	

Construction Supervision of Nischintakoili to Duhuria (Km.25/000 to Km.49/000 of MDR)(Balance Work) of SH9 of Odisha State Roads Project.				
OUTGOING CORRESPONDENCES FOR THE MONTH OF APRIL-2018				
Sl. No.	Date	Letter Reference No	Subject	To
CLIENT (ODISHA WORKS DEPARTMENT)				
1	29.04.2018	LASA/RE-1/73466/P04A2/716	Submission of 'Monthly Progress Report' for the month of April, 2018 .	OWD
2	29.04.2018	LASA/RE-1/73466/P04A2/718	Submission of 'Monthly Progress Report' for the month of April, 2018 .	OWD
CONTRACTOR-VARAHA				
1	21.04.2018	LASA/RE-1/73466/P04A2/714	Regarding Provide of Road Humps in all the access road	VARAHA