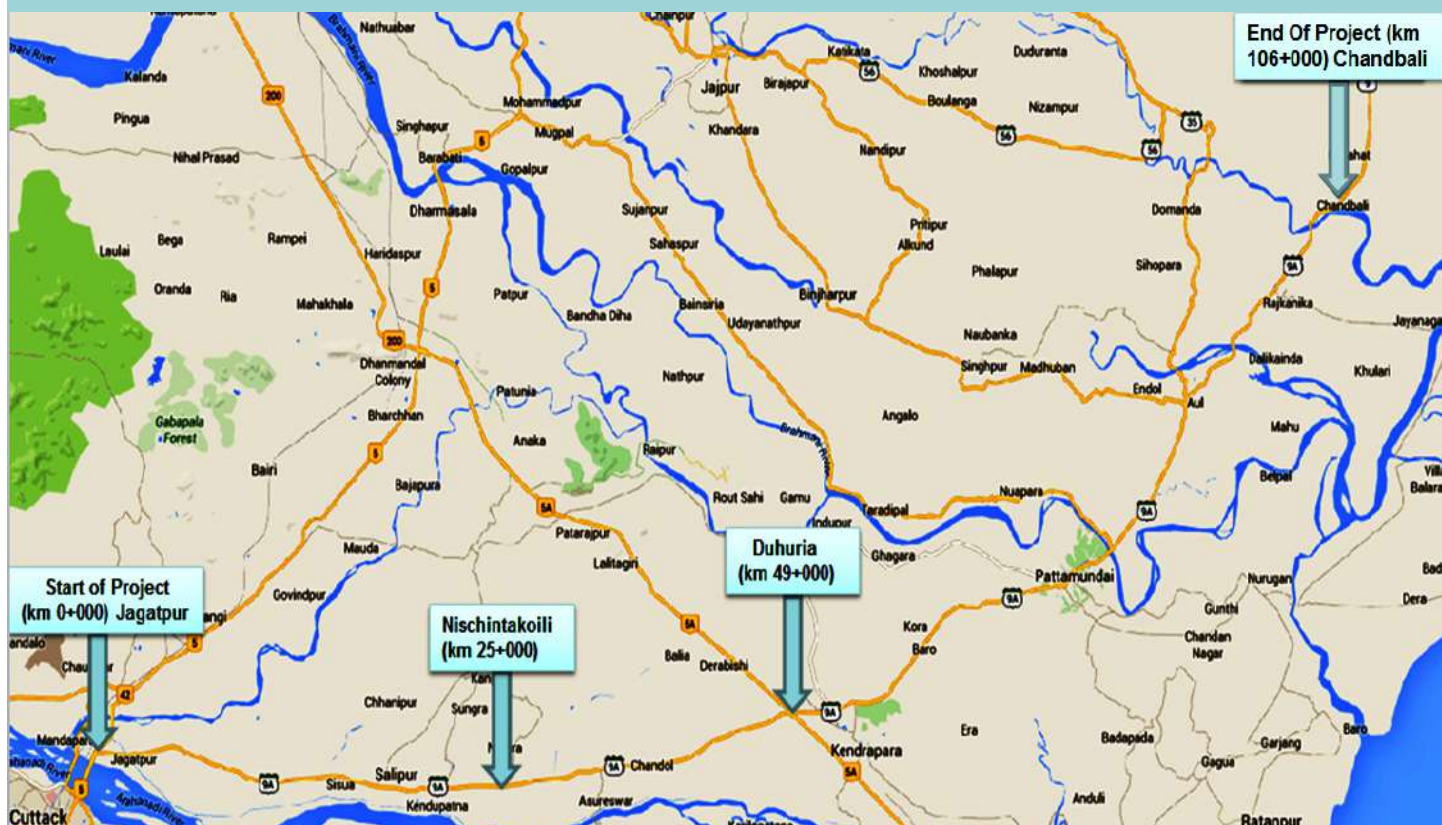


GOVERNMENT OF ODISHA WORKS DEPARTMENT
ODISHA STATE ROADS PROJECT

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



MARCH-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;

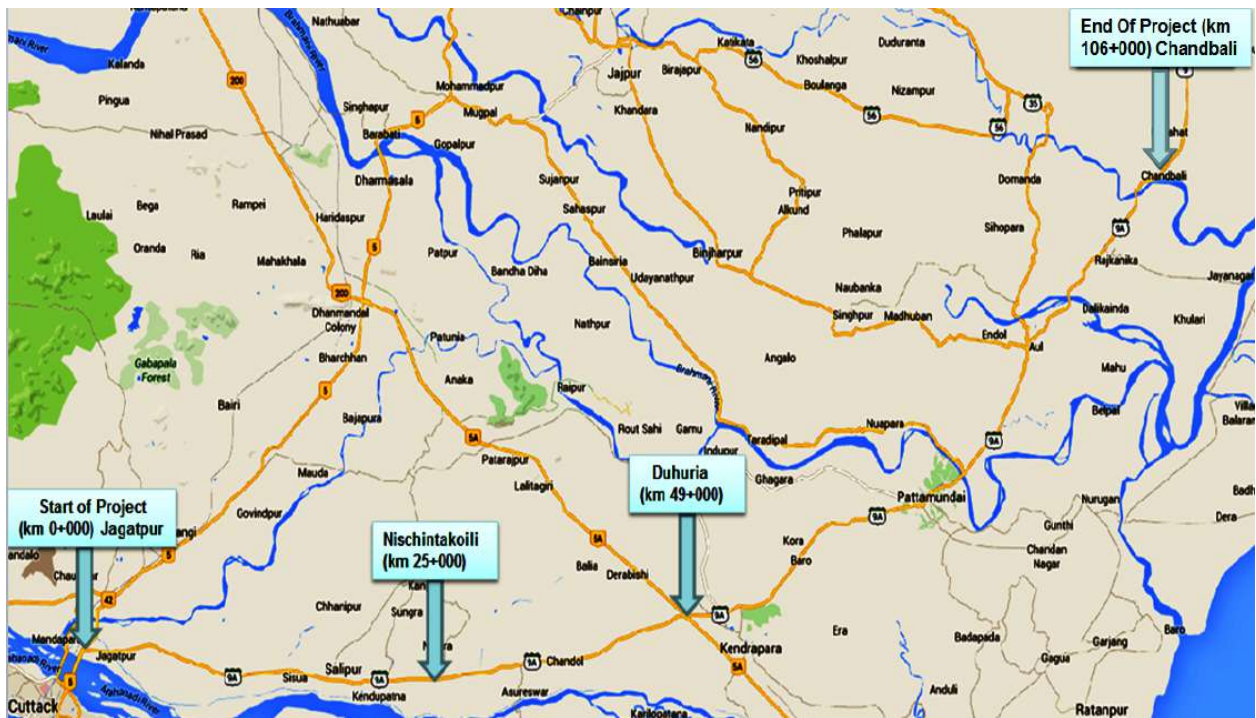


Figure 1-1: Location Map

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: - 86.14%

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



Monthly Progress Report March-2018-P04A2

Chapter 2. Physical Performance and Programme of Work

2.1 ROAD WORK

2.1.1 Linear Progress – Total Length- 24.00 km

SI 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	23.910	0.050	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	23.910	0.050	23.960	0.000	23.960	0.040	23.960
		24.00	RHS	23.950	0.010	23.960	0.000	23.960	0.040	
3	GSB	24.00	LHS	23.891	0.069	23.960	0.000	23.960	0.040	23.960
		24.00	RHS	23.927	0.033	23.960	0.000	23.960	0.040	
4	WMM	17.90	LHS	17.869	0.021	17.890	0.000	17.890	0.010	17.890
		17.90	RHS	17.865	0.025	17.890	0.000	17.890	0.010	
5	DBM	17.90	LHS	17.869	0.021	17.890	0.000	17.890	0.010	17.890
		17.90	RHS	17.865	0.025	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;

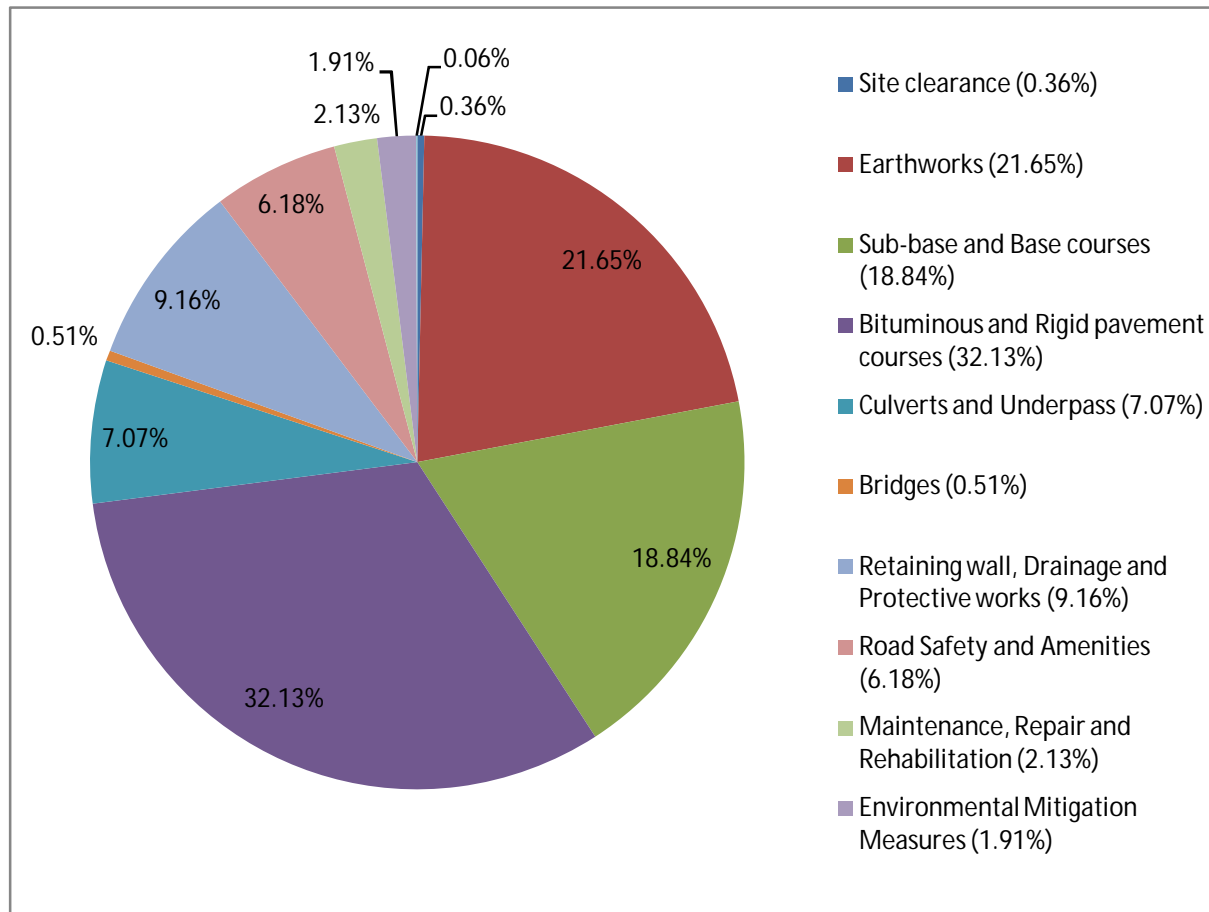


Figure 2-1: Weightage of Major Construction Items



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Progress in Quantities

Sl. No.	Description	Unit	Total Quantity as per BOQ	Quantity Executed			Balance Quantity to be executed	Remarks
				Up to previous month	During this month	Total		
1	Embankment in soil	Cum	65123	49917	0	49917	15206	
2	Embankment in sand	Cum	177616	173779	0	173779	3837	
3	Subgrade	Cum	199939	183718	0	183718	16221	
4	GSB	Cum	65795	68261	159	68420	0	
5	WMM	Cum	54739	46697	77	46774	7965	
6	DBM	Cum	18266	16224	14	16238	2029	
7	BC	Cum	8122	7183	0	7183	939	
8	DLC	Cum	8524	9614	0	9614	0	
9	PQC	Cum	17048	18936	0	18936	0	
10	Excavation for structures	Cum	27268	19637	6	19643	7625	
11	Granular materials	Cum	1410	0	0	0	1410	
12	Sand filling	Cum	2924	7967	0	7967	0	
13	PCC M 15 leveling course	Cum	2988	1271	6	1277	1711	
14	PCC M15 Substructure	Cum	1914	2282	7	2289	0	
15	RCC M 20	Cum	2713	2507	104	2611	102	
16	RCC M 30	Cum	24	244	0	244	0	
17	RCC M 35	Cum	250	836	0	836	0	
18	HYSD	MT	393	168	6	174	219	
19	HP 1000 mm single row	Rmt	523	575	0	575	0	
20	HP 1200 mm single row	Rmt	848	505	15	520	328	
21	HP 1200 mm double row	Rmt	278	234	0	234	44	



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2.2 PROGRESS OF CD WORKS AND STRUCTURE

Sl. No.	Items	Total nos. to be executed	Side	No. Completed / In Progress (Half Width) in number						Number Completed Over Full Width
				Completed upto Previous Month	Completed During the Month	Completed up to date	In progress	Cumulative No. (Completed + In Progress)	Balance Number to be taken up	
A	B	C	D	E	F	G=E+F	H	I=G+H	J=C-I	K
1	Minor Bridges New	2	BS	2	0	2	0	2	0	2
2	Minor Bridges Widening	0	LHS	0	0	0	0	0	0	0
		0	RHS	0	0	0	0	0	0	0
3	Box Culverts	11	BS	9	0	9	2	11	0	9
4	Hume Pipe Culvert main road	46	LHS	46	0	46	0	46	0	46
		46	RHS	46	0	46	0	46	0	
5	Hume Pipe Culvert with utility	15	LHS	15	0	15	0	15	0	15
		15	RHS	15	0	15	0	15	0	
6	Hume Pipe Culvert with reptile underpass	5	LHS	5	0	5	0	5	0	5
		5	RHS	5	0	5	0	5	0	
7	Access road pipe culvert	18	BS	18	0	18	0	18	0	18



Box Culvert Deck Slab Concrete at 32+978LHS



Box Culvert Deck Slab Concrete at 32+978 LHS



Box Culvert Deck Slab Concrete at 38+937 RHS



Box Culvert Deck Slab Concrete at 38+937 RHS



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.

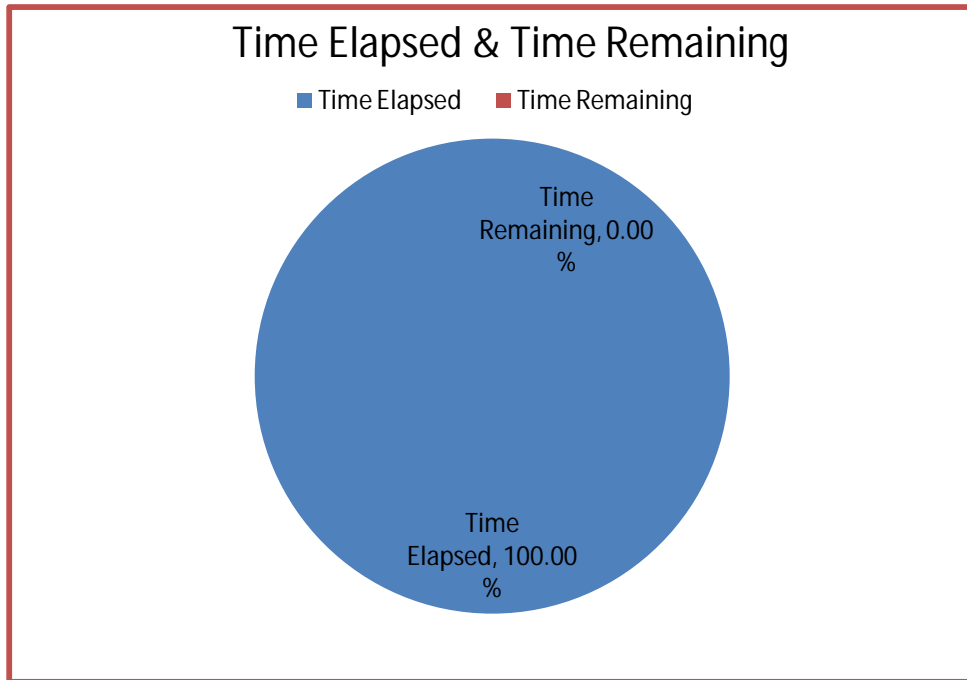
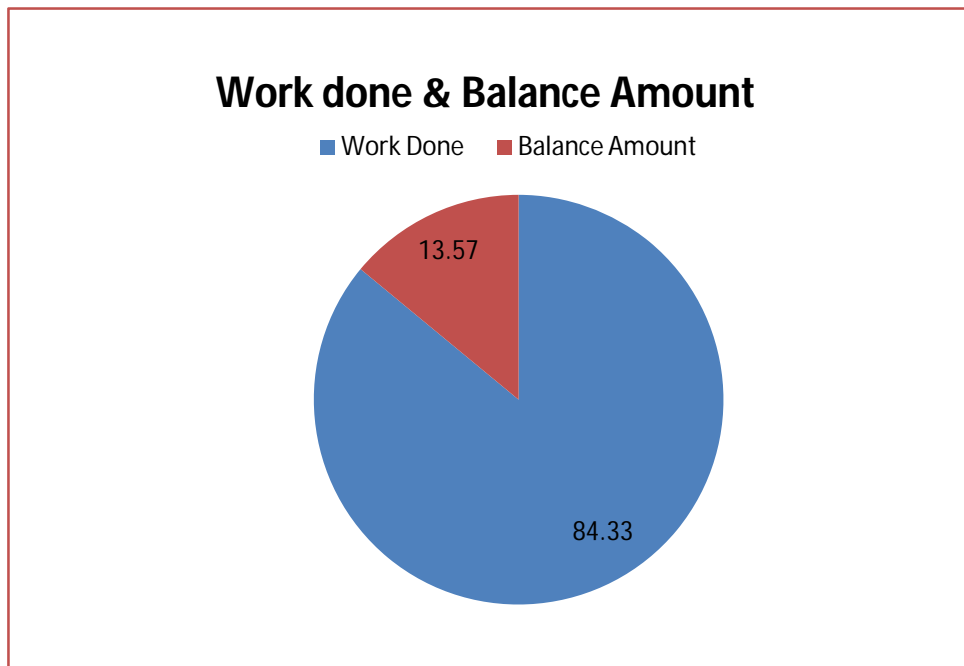


Figure 2-2: Total Duration of the Project (Construction Phase)-18 Months



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2.5 FORECAST FOR NEXT MONTH

Forecast for April2018

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	2029	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	102	0	0	
16	RCC M 30	Cum	0	0	0	
17	RCC M 35	Cum	0	0	0	
18	HYSD	MT	219	0	0	
19	HP 1000 mm single row	Rmt	0	0	0	
20	HP 1200 mm single row	Rmt	343	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 31.03.18
 - a) Gross Amount of Work Rs.84.33 Crores
 - b) Amount of work excluding Price Adjustment Rs.84.33 Crores
 - c) Mobilisation Advance - Nil
 - d) Material advance - Nil
3. Total (b+c+d) - Rs.84.33 Crores
4. Percentage of work executed (2b/1)*100 **86.14%**

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 (Cr.)	Percentage during the month	Amount during the month (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	5.31%
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%	1.14	1.16%
23	Nov-17	0	0%	1.12	1.14%
24	Dec-17	0	0%	0.02	0.02%
25	Jan-18	0	0%	0.03	0.03%
26	Feb-18	0	0%	0.05	0.05%
27	Mar-18	0	0%	0.15	0.15%
	Total	8.10	8.274%	84.33	86.14%

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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 Culvet 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	6	0	
4	Tests in WMM	6	0	
5	Tests in DLC	0	0	
6	Tests in DBM	1	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 (28days)	27	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 April 2017	
2	Quantity Surveyor cum Bridge Engineer	Mr. Ravi Bhushan Rehalia	01-Nov-16	
3	Material Engineer	Mr. Niranjan kumar	20-Oct-16	
4	CADD Engineer	Ms. Luin Mohanty	15-Nov-16	
5	Asst. Quantity Surveyor	Mr. Manoj Kumar	10-May-17	
6	Asst. Highway Engineer-1	Mr. Sukant Sahoo	01-Jan-16	
7	Asst. Bridge Engineer-1	Mr. Soumya Sarangi	19-Feb-16	
8	Asst. Material-cum-Quality Engineer-1	Mr. Pramod Ranjan Sutar	27-Jan-16	
9	Asst. Surveyor-1	Mr. Pradeep Kumar Rana	01-Sept-17	
10	Office Manager-cum-Accountant-1	Mr. Jayanta Kumar Sen	01-Aug-14	
11	Computer Operator-cum-Office Assistant-1	Ms. Jyotirmayee Swain	02-Jan-17	
12	Office Attendant/Watchman	Mr. Madhusudan Pradhan	01.Sep-17	
13	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	



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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 Manoranjan Mishra (EE, PMU), Mr. A. R. Sihna (AEE, R & B) and Mr. G.P. Sahoo, Team Leader (LASA) visited the site on 12.03.2018.
2. Mr. Bimal Chandra Dash, SE cum Employer's Representative (Cuttack), Mr. A. R. Sihna (AEE, R & B)(Cuttack), visited the site on 23.03.18
3. Mr. Manoranjan Mishra (EE, PMU), Mr. A. R. Sihna (AEE, R & B)(Cuttack) and Mr. G.P. Sahoo, Team Leader (LASA) Visited the site on 30.03.2018

Meetings

1. Meeting with Engineer-in-Chief cum Secretary, Mr. Om Prakash Patel (Chief Engineer, DPI & Roads, Bhubaneswar), Mr. Manoranjan Mishra (EE, PMU), Mr. Bimal Chandra dash (SE, R&B Cuttack), Mr. A. R. Sihna (AEE, R & B) and Mr. G.P. Sahoo, Team Leader (LASA) on 06.03.2018.
2. Meeting with Engineer-in-Chief cum Secretary, Mr. Om Prakash Patel (Chief Engineer, DPI & Roads, Bhubaneswar), Mr. Manoranjan Mishra (EE, PMU), Mr. Bimal Chandra dash (SE, R&B Cuttack), Mr. A. R. Sihna (AEE, R & B) and Mr. G.P. Sahoo, Team Leader (LASA) on 17.03.2018.
3. Meeting with Engineer-in-Chief cum Secretary, Mr. Om Prakash Patel (Chief Engineer, DPI & Roads, Bhubaneswar), Mr. Manoranjan Mishra (EE, PMU), Mr. Bimal Chandra dash (SE, R&B Cuttack), Mr. A. R. Sihna (AEE, R & B) and Mr. G.P. Sahoo, Team Leader (LASA) on 24.03.2018.



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: 01 no.

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-Mar-18	33.10	27.20	Nil	Sunny
2	02-Mar-18	34.00	27.60	Nil	Sunny
3	03-Mar-18	33.50	28.40	Nil	Sunny
4	04-Mar-18	33.90	28.20	Nil	Sunny
5	05-Mar-18	32.80	28.90	Nil	Sunny
6	06-Mar-18	33.30	28.90	Nil	Sunny
7	07-Mar-18	33.60	29.00	Nil	Sunny
8	08-Mar-18	31.40	28.70	Nil	Sunny
9	09-Mar-18	31.50	28.70	Nil	Sunny
10	10-Mar-18	31.20	27.80	Nil	Sunny
11	11-Mar-18	31.40	28.20	Nil	Sunny
12	12-Mar-18	31.40	28.20	Nil	Sunny
13	13-Mar-18	30.30	27.50	Nil	Sunny
14	14-Mar-18	30.00	24.50	Nil	Sunny
15	15-Mar-18	28.70	23.90	Nil	Cloudy & Sunny
16	16-Mar-18	28.30	23.70	Nil	Cloudy & Sunny
17	17-Mar-18	29.60	24.50	Nil	Cloudy & Sunny
18	18-Mar-18	30.40	26.10	Nil	Sunny
19	19-Mar-18	31.60	27.10	Nil	Sunny
20	20-Mar-18	34.50	27.80	Nil	Sunny
21	21-Mar-18	29.60	27.70	Nil	Sunny
22	22-Mar-18	30.50	27.30	Nil	Sunny
23	23-Mar-18	29.80	26.90	Nil	Sunny
24	24-Mar-18	30.90	28.20	Nil	Sunny
25	25-Mar-18	31.80	28.40	Nil	Sunny
26	26-Mar-18	31.70	28.40	Nil	Sunny
27	27-Mar-18	32.00	28.60	Nil	Sunny
28	28-Mar-18	31.80	28.70	Nil	Sunny
29	29-Mar-18	34.60	29.10	Nil	Sunny
30	30-Mar-18	34.60	29.30	Nil	Sunny
31	31-Mar-18	30.10	26.40	Nil	Cloudy & Sunny

Monthly Progress Report Jan 2016-P04A1 & P04A2

Construction for Widening & Strengthening of existing carriageway to 2-lane Road from Nishchintakoili to Duhuria (Km. 25/0 to Km. 49/0 of MDR-Balance Works) Under Odisha State Roads Projects

ODISHA WORKS
DEPARTMENT



**“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	Road Work						RHS	Chainage
		EMB/EXC	SUB.	GSB	WMM.	DBM	BC/PQC		
BC/PQC	25+000	RUP					EMB/EXC	25+000	
DBM	25+100						SUB.	25+100	
WMM.	25+200	HPC					GSB	25+200	
GSB	25+268						WMM.	25+268	
SUB.	25+300						DBM	25+300	
EMB/EXC	25+400						BC/PQC	25+400	
	25+500	HPC						25+500	
	25+579							25+579	
	25+600	HPC						25+600	
	25+700							25+700	
	25+800							25+800	
	25+900							25+900	
	25+971	HPC						25+971	
	26+000							26+000	
	26+100							26+100	
	26+173	U CLVT						26+173	
	26+200							26+200	
	26+300							26+300	
	26+306	HPC						26+306	
	26+400							26+400	
	26+500							26+500	
	26+550	U CLVT						26+550	
	26+600							26+600	
	26+685	HPC						26+685	
	26+700							26+700	
	26+800							26+800	
	26+900							26+900	
	27+000							27+000	
	27+100	HPC						27+100	
	27+200							27+200	
	27+220	U CLVT						27+220	
	27+300							27+300	
	27+400							27+400	
	27+500							27+500	
	27+600	HPC						27+600	
	27+700							27+700	
	27+800							27+800	
	27+900							27+900	
	28+000							28+000	
	28+100							28+100	
	28+173	BOX						28+173	
	28+200							28+200	
	28+300							28+300	
	28+400							28+400	
	28+500	U CLVT						28+500	
	28+600							28+600	
	28+700							28+700	
	28+800							28+800	
	28+900							28+900	
	29+000							29+000	
	29+100							29+100	
	29+118	HPC						29+118	
	29+200							29+200	
	29+208	HPC						29+208	
	29+300							29+300	
	29+400							29+400	
	29+500	HPC						29+500	
	29+600							29+600	
	29+700							29+700	
	29+800							29+800	
	29+900							29+900	
	29+960	HPC						29+960	
	30+000							30+000	
	30+100							30+100	

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

**“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	BC/PQC	DBM	WMM	GSB	SUB.	EMB./EXC	Chainage	RHS	BC/PQC	DBM/DLC	WMM	GSB	SUB.	EMB./EXC
							35+000							
							35+042							
							35+100							
							35+200							
							35+240							
							35+300							
							35+400							
							35+500							
							35+600							
							35+700							
							35+725							
							35+800							
							35+900							
							36+000							
							36+100							
							36+200							
							36+300							
							36+320							
							36+400							
							36+500							
							36+546							
							36+600							
							36+700							
							36+721							
							36+800							
							36+873							
							36+900							
							37+000							
							37+100							
							37+195							
							37+200							
							37+300							
							37+400							
							37+500							
							37+580							
							37+600							
							37+700							
							37+800							
							37+900							
							37+925							
							38+000							
							38+100							
							38+200							
							38+300							
							38+363							
							38+400							
							38+500							
							38+600							
							38+700							
							38+795							
							38+800							
							38+900							
							38+937							
							39+000							
							39+100							
							39+200							
							39+300							
							39+400							
							39+500							
							39+600							
							39+700							
							39+740							
							39+800							
							39+900							
							39+940							
							40+000							

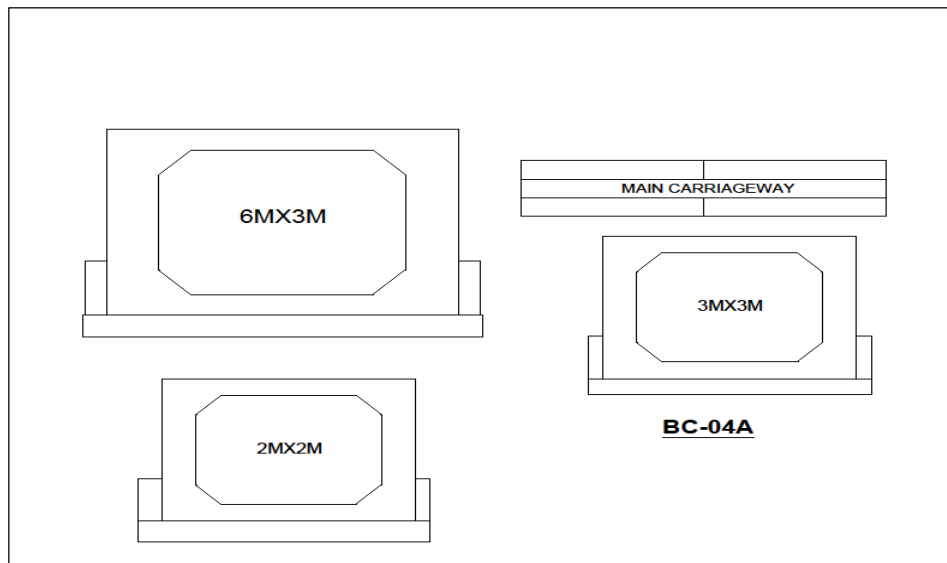
LHS	BC/PQC	DBM/DLC	WMM	GSB	SUB.	EMB./EXC	Chainage	RHS	BC/PQC	DBM/DLC	WMM	GSB	SUB.	EMB./EXC
							40+100							
							40+174							
							40+200							
							40+300							
							40+400							
							40+440							
							40+500							
							40+600							
							40+700							
							40+770							
							40+800							
							40+900							
							40+940							
							41+000							
							41+100							
							41+200							
							41+267							
							41+300							
							41+400							
							41+400							
							41+500							
							41+600							
							41+680							
							41+700							
							41+800							
							41+900							
							42+000							
							42+100							
							42+200							
							42+300							
							42+310							
							42+400							
							42+500							
							42+528							
							42+600							
							42+700							
							42+800							
							42+830							
							42+900							
							42+985							
							43+000							
							43+100							
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							43+200							
							43+300							
							43+400							
							43+500							
							43+600							
							43+673							
							43+700							
							43+780							
							43+800							
							43+900							
							44+000							
							44+100							
							44+200							
							44+300							
							44+400							
							44+450							
							44+500							
							44+600							
							44+700							
							44+800							
							44+880							
							44+900							
							45+000							

APPENDIX-2

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

Status as on March 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	L	R	Full Width	Full Width		
Return Wall	█	█	█	█	█	█	█	█	█	█	█	█	█	█	█	█	█	█	█	█	█	█	█
Approach Slab	█	█	█	█	█	█	█	█	█	█	█	█	█	█	█	█	█	█	█	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

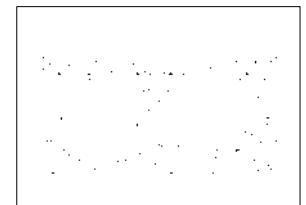
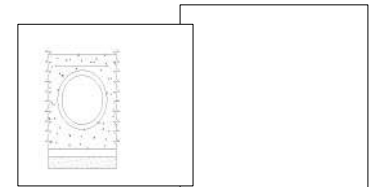
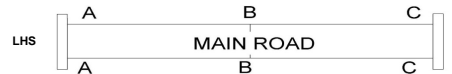
Status as on March 2018

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+260	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	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

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



APPENDIX-2

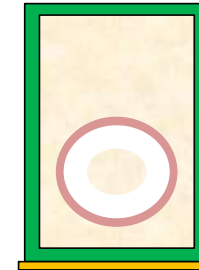
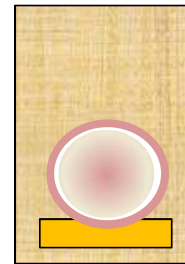
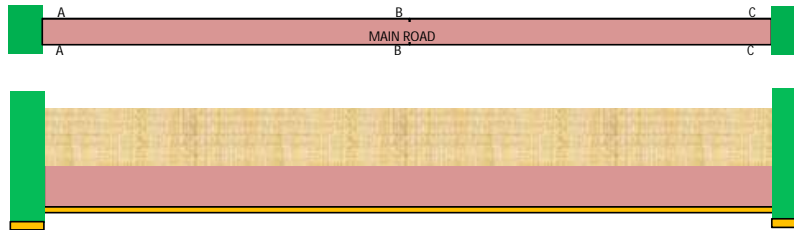
Nischintakoli - Duhuria Road Project (Package P04A2)

(km 25+00 TO 49+00)

Progress Report of Pipe Culverts For Utility Only

Status as on March 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															

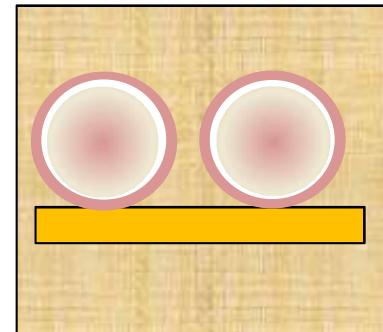
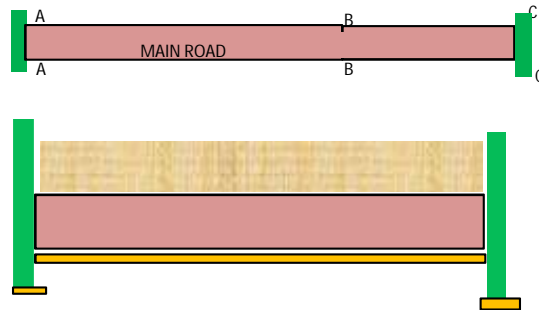


APPENDIX-2

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

Status as on March 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					



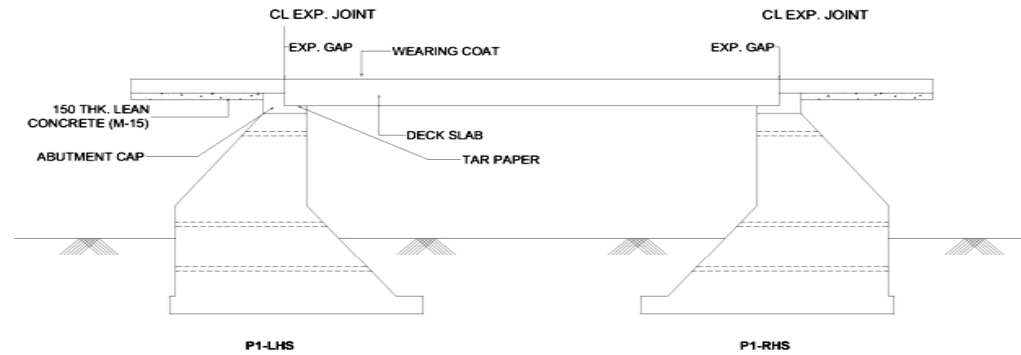
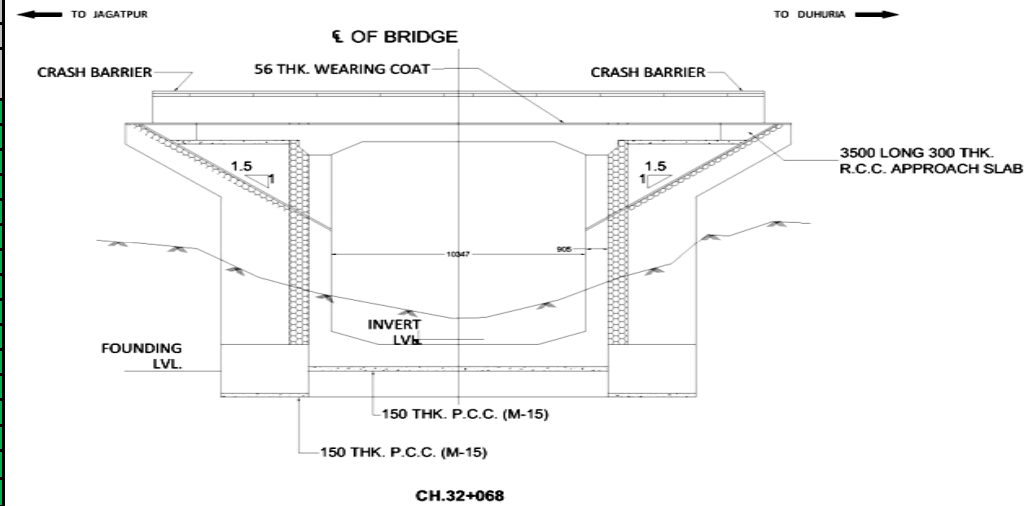
Nischintakoli - Duhuria Road Project (Package P04A)

(km 25+00 To 49+00)

Progress of Minor Bridge (Typical Fig.)

Status as on March 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		



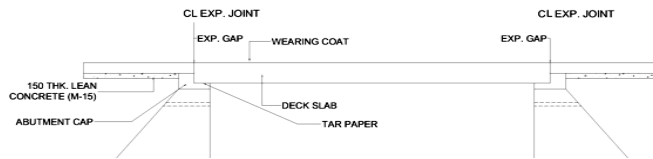
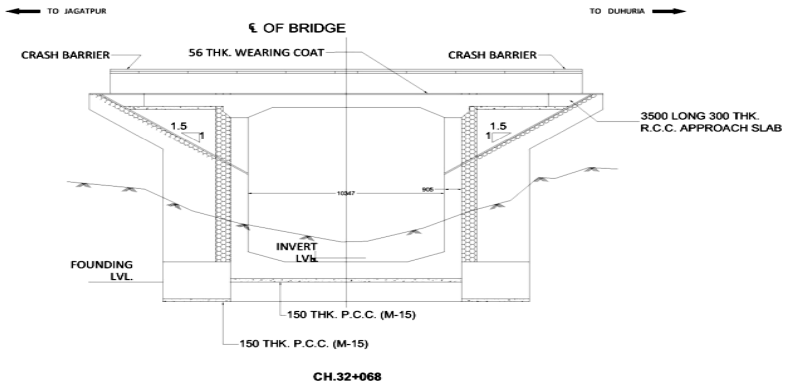
Nischintakoli - Duhuria Road Project (Package P04A)

(km 25+00 To 49+00)

Progress of Minor Bridge (Typical Fig.)

Status as on March 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 MARCH-2018

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

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.				
OUTGOING CORRESPONDENCES FOR THE MONTH OF MARCH-2018				
Sl. No.	Date	Letter Reference No	Subject	To
CLIENT (ODISHA WORKS DEPARTMENT)				
1	29.03.2018	LASA/RE-1/73466/P04A2/711	Submission of 'Monthly Progress Report' for the month of February, 2018 .	OWD
CONTRACTOR-VARAHA				
1	05.03.2018	LASA/RE-1/73466/P04A2/704	Regarding Sliding of Bituminous concrete .	VARAHA