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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;

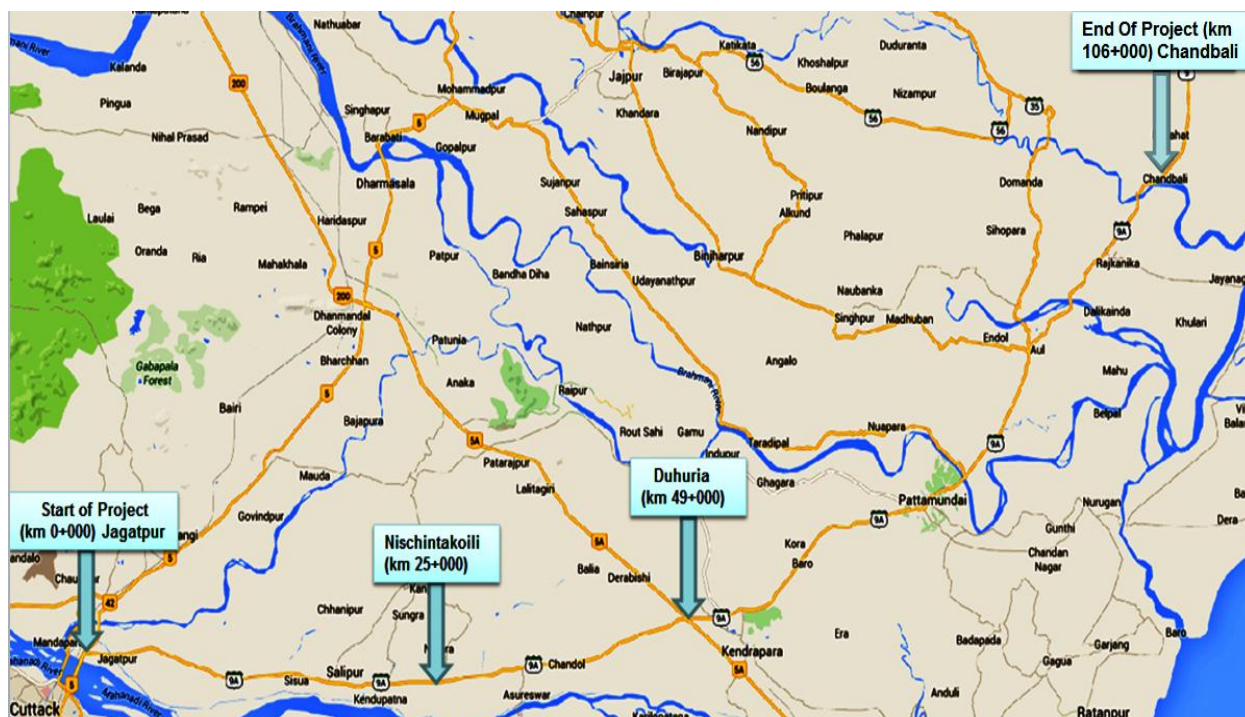


Figure 1-1: Location Map

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, Employer's representative-cum-Superintending Engineer, Cuttack, R&B Circle,

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
- Anticipated Date of Completion 31st December 2017
- Progress Achieved till this month :- 83.57%

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 06.10 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 Culvert s 46 Nos
- Hume Pipe Culverts with Utility 15 Nos
- Hume Pipe Culverts with Reptile pass 05 Nos
- Pipe culverts on access roads 54 Nos

1.5.3 Crust Details

- Flexible Pavement
 - Sub-Grade 500 mm
 - GSB 200 mm
 - WMM 250 mm
 - DBM 90mm
 - 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	11 km in different stretches	30.06.2017

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Widening & Strengthening of Existing Carriageway to 2-Lane Road From Nischintakoili to Duhuria (25/000 km to 49/000 km of MDR) of Odisha State Roads Project

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DEPARTMENT



Chapter 2. Work Summary of the Quarter

2.1 ROAD WORK

2.1.1 Linear Progress – Total Length- 24kms

SI No.	Items	Total Length	Side	Length Completed/In Progress in lane (km)						
				Completed upto previous Quarter	Completed during Quarter under report	Completed upto date	In Progress	Total	Balance Length to be taken up.	Length completed over full width
A	B	C	D	E	F	G	H	I	J	K
1	Embankment/Excavation	24.000	LHS	23.870	0.040	23.910	0.000	23.910	0.090	23.910
		24.000	RHS	23.910	0.050	23.960	0.000	23.960	0.040	
2	Subgrade	24.000	LHS	23.870	0.040	23.910	0.000	23.910	0.090	23.910
		24.000	RHS	23.910	0.040	23.950	0.000	23.950	0.050	
3	GSB	24.000	LHS	23.821	0.070	23.891	0.000	23.891	0.109	23.888
		24.000	RHS	23.857	0.070	23.927	0.000	23.927	0.073	
4	WMM	17.900	LHS	17.785	0.084	17.869	0.000	17.869	0.031	17.855
		17.900	RHS	17.738	0.127	17.865	0.000	17.865	0.035	
5	DBM	17.900	LHS	16.941	0.928	17.869	0.000	17.869	0.031	17.855
		17.900	RHS	17.725	0.140	17.865	0.000	17.865	0.035	
6	BC	17.900	LHS	7.285	10.584	17.869	0.000	17.869	0.031	17.819
		17.900	RHS	6.991	10.844	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	5.982	0.044	6.026	0.000	6.026	0.074	6.010
		6.100	RHS	6.060	0.000	6.060	0.000	6.060	0.040	

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2.1.2 Progress in Quantities

Sl. No.	Description	Unit	Total Quantity as per BOQ	Quantity executed			Balance Quantity to be executed
				Up to previous Quarter	During this Quarter July-17 to Sept.-17	Total	
1	Embankment in soil	Cum	65123	49652	264	49917	15206
2	Embankment in sand	Cum	177616	172855	924	173779	3837
3	Subgrade	Cum	199939	171308	6114	177423	22516
4	GSB	Cum	65795	67177	212	67389	0
5	WMM	Cum	54739	45376	205	45581	9158
6	DBM	Cum	18266	15531	460	15991	2275
7	BC	Cum	8122	2833	4232	7065	1057
8	DLC	Cum	8524	9614	0	9614	0
9	PQC	Cum	17048	18884	52	18936	0
10	Excavation for structures	Cum	27268	18792	164	18956	8312
11	Granular materials	Cum	1410	0	0	0	1410
12	Sand filling	Cum	2924	7650	19	7669	0
13	PCC M 15 leveling course	Cum	2988	1188	54	1242	1746
14	PCC M15 Substructure	Cum	1914	2099	89	2188	0
15	RCC M 20	Cum	2713	2406	7	2413	300
16	RCC M 30	Cum	24	118	126	244	0
17	RCC M 35	Cum	250	754	82	836	0
18	HYSO	MT	393	157	5	162	231
19	HP 1000 mm single row	Rmt	523	430	50	480	43
20	HP 1200 mm single row	Rmt	848	505	0	505	343
21	HP 1200 mm double row	Rmt	278	234	0	234	45

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Progress of CD Works and Structure

SI No.	Structure Type	Total No. to be executed	Completed	To be completed	Progress & Achievements				No. to be taken up
					Completed upto Last Quarter	Completed during Quarter under report	In Progress	Total	
1	Minor Bridge (New)	2	2	0	0	2	0	2	0
2	Minor Bridge (Widening)		0	0	0	0	0	0	0
3	Box Culvert	11	8	3	8	0	3	11	0
4	HPC Main Road	46	46	0	0	46	0	46	0
5	HPC with Utility	15	15	0	0	15	0	15	0
6	HPC With RUP	5	5	0	0	5	0	5	0
7	Access road pipe Culvert	54	3	51	0	3	2	5	49

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BC Laying at 33+760 to 34+600 LHS



Metal Beam Crash Barrier at 34+794 to 34+850 LHS

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Access Road Culvert at 33+923 RHS



Access Road Culvert at 33+890 RHS



Chapter 3. Status of Cost Elements

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 30.09.2017 -	
a) Gross Amount of Work	Rs.81.81 Crores
b) Amount of work excluding Price Adjustment	Rs.81.81 Crores
c) Mobilisation Advance -	Nil
d) Material advance -	Nil
Percentage of work executed (2b/1)*100	83.57 %

3.2 QUARTERWISE PHYSICAL PROGRESS

Quarter wise physical progress on work proper excluding price adjustment and advances is furnished in Table 3-1 below.

Table 3-1: Quarter-wise Physical Progress

Sl. No.	Quarter	Target as base Programme (Crores)	Achievement during respective quarters	% w.wr.t Contract Price	Cumulative Achievement	% w.wr.t Contract Price
			Cost of Work Executed (Crores)		Cumulative Cost of Work (Crores)	
	2015-2017					
1	4 th Quarter Jan-Mar16	7.45	8.56	8.74%	8.560	8.75%
	2016-2017					
1	1 st Quarter April-June16	12.04	11.33	11.59%	19.890	20.34%
2	2 nd Quarter July-Sept16	9.83	6.50	6.65%	26.390	26.99%
3	3 rd Quarter Oct-Dec16	19.53	16.11	16.43%	42.500	43.42%
4	4 th Quarter Jan-17-Mar17	27.02	20.74	21.18%	63.240	64.60%
	2017-2018					
1	1 st Quarter April-June17	22.04	12.38	12.65%	75.620	77.25%
2	2 nd Quarter July-Sept.17	8.10	6.19	6.32%	81.810	83.57%

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3.2 MOBILIZATION ADVANCE

No mobilisation advance has been claimed by the Contractor till date.

3.3 COST ELEMENT FOR THE QUARTER

The cost element for the quarter based on the monthly programme submitted by the Contractor is given below.

a. Planned Value for the Quarter (PV)	-	8.10 Cr.
b. Earned Value during the Quarter (EV)	-	6.19 Cr.
c. Schedule Variance (EV –PV)	-	1.91 Cr.
d. Schedule Performance Index (EV/PV)	-	0.764



Chapter 4. Project Programme

4.1 PROGRAMME OF HANDING OVER OF SITES

Handing over status of Sections is mentioned below

Section Name	Scheduled date of Handing Over	Actual date of handing over	Encumbrances if any	Likely date of handing over /removal of encumbrances
Section I	1-Jan-2016	1-Jan-2016		
Section II	31-Mar-2016	30-May-2016	R&R-1No	

4.2 WORK PROGRAMME

a. Original programme

Contractor has not submitted the Work Programme.

b. Updated programme

Updated work programme has not been submitted by the Contractor even after several reminders.

4.3 PHYSICAL TARGET AND COST FORECAST FORTHE NEXT QUARTER

A. PHYSICAL TARGET

Contractor has not submitted for the Next Quarter work programme.

Sl. No.	Description of Item	Linear Target in km /No.				Quantity Target in Cum / No			
		Oct-17	Nov-17	Dec-17	Total	Oct-17	Nov-17	Dec-17	Total
1	Earthwork in Embankment	0	0	0	0	0	0	0	0
2	Subgrade/Shoulder	8	0	0	8	1131	0	0	1131
3	GSB	0	0	0	0	0	0	0	0
4	WMM	0	0	0	0	0	0	0	0
5	DBM	0	0	0	0	0	0	0	0
6	BC	0	0	0	0	0	0	0	0
7	DLC	0	0	0	0	0	0	0	0
8	PQC	0	0	0	0	0	0	0	0

B. FINANCIAL TARGET

Contractor has not submitted for financial Target

Month	Target (Rs. Crores)	% of Contract Amount
Oct-17	0.81	0.83
Nov-17	0	0
Dec-17	0	0
Total	0	0

4.4 SHEDULE BASE LINE AND PROGRESS – S CURVE

- | | |
|----------------------------------------------------|-----------------|
| a. Budget at Completion (BAC):- | Rs.97.90 Crores |
| b. Estimate at completion (BAC+Price Adjustment):- | Rs.97.90 Crores |
| c. Time to Complete :- | 18months |



Chapter 5. Variation and Changes

5.1 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(1X1.2 m 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 PMU-(WB)-159/2015-12111,Dt.16.03.2016
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-555,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-554,Dt.05.01.17

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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-4750,Dt.08.02.17
7	7	Providing HPC culvert of size 1x1m dia at ch.25+425	354000		1061951903	0.04%	8.48%	Approved through Letter No-9944,Dt.16.03.17
8	8	Additional Hume pipe culvert(1x1.0M dia)	354000		1062305903	0.04%	8.51%	Approved through Letter No-11684,Dt.27.03.17
9	9	Box culvert with additional Pipes of 1200 mm dia on Both sides	354000		1062659903	0.09%	8.57%	Approved through Letter No-31123,Dt.09.08.17
10	10	Deletion of 27 nos of Busbays & passenger shelters		-18200000	1044459903	-1.86%	6.71%	Approved through Letter No-31122,Dt.09.08.17
11	11	Earthfill in shoulders besides saucer drains	400000		1044859903	0.04%	6.74%	Approved through Letter No-31126,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-31125,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%	Approved through Letter No-31124,Dt.09.08.17
			93762000	-19700000				



Chapter 6. Lessons Learnt

The following events may affect the project completion in schedule time.

6.1 LAND ACQUISITION AND REMOVAL OF ENCUMBRANCES

The removal of encumbrances and utility shifting is complete

6.2 TIMELY MOBILISATION OF MAN AND MACHINERIES

Resource based work programme and timely updated work programme are to be submitted for monitoring the progress. The Contractor has to mobilise his own plants and equipment.



Chapter 7. Important Events During the Quarter

Visits:

1. Mr. Manoranjan Mishra, EE, PMU and Team Leader visited the site on 21.07.17
2. Mr. Manoranjan Mishra, EE, PMU and Team Leader visited the site on 10.08.17
3. Mr. Bimal Chandra dash, SE, Mr. Manoranjan Mishra, EE, and PMU visited the site on 22.08.17

Meetings:

1. Meeting with Team leader on review of Progress held at Nirman soudha, Bhubaneswar on 21.08.17
2. Meeting with Collector, Kendrapara for review of the project on dated 15.09.2017
3. Meeting with Executive Engineer (R&B), Kendrapara for review of the project on dated 18.09.2017