

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



May-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;

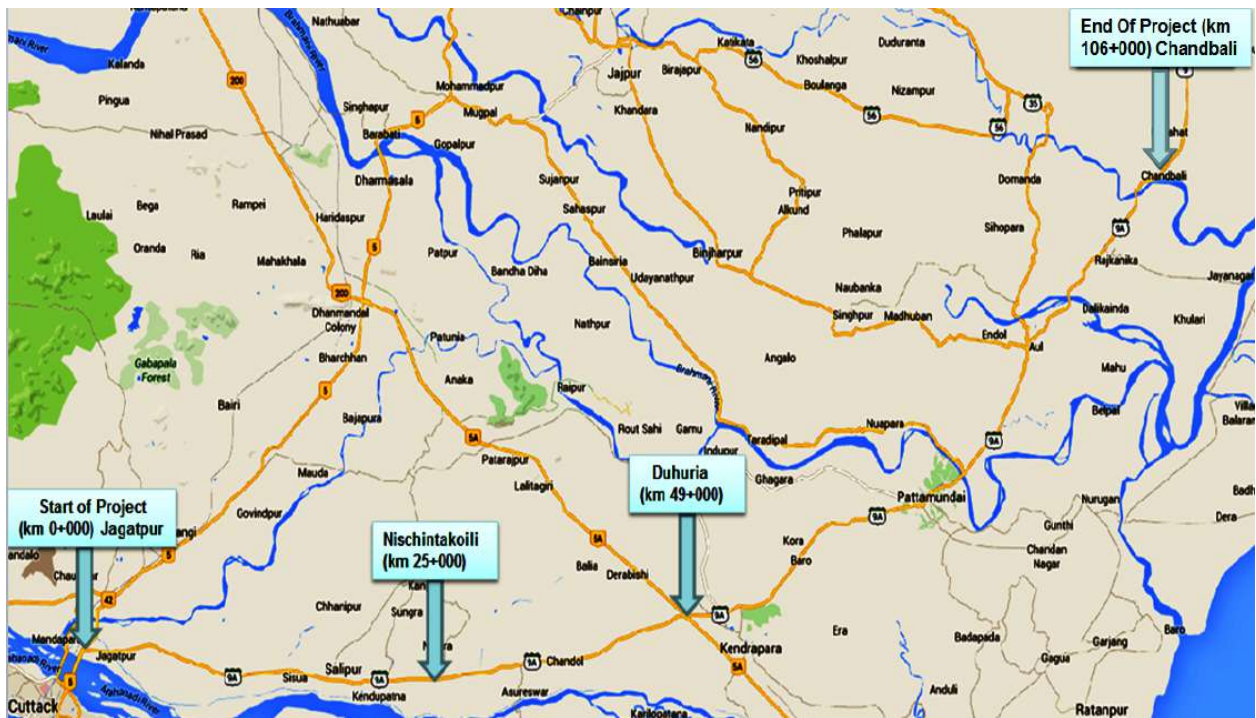


Figure 1-1: Location Map

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: - 86.33%

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 |



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 | LHS | 23.960 | 0.040 | 24.000 | 0.000 | 24.000 | 0.000 | 24.00 |
| | | 24 | RHS | 23.960 | 0.040 | 24.000 | 0.000 | 24.000 | 0.000 | |
| 2 | Subgrade | 24 | LHS | 23.960 | 0.040 | 24.000 | 0.000 | 24.000 | 0.000 | 24.00 |
| | | 24 | RHS | 23.960 | 0.040 | 24.000 | 0.000 | 24.000 | 0.000 | |
| 3 | GSB | 24 | LHS | 23.960 | 0.040 | 24.000 | 0.000 | 24.000 | 0.000 | 24.00 |
| | | 24 | RHS | 23.960 | 0.040 | 24.000 | 0.000 | 24.000 | 0.000 | |
| 4 | WMM | 17.9 | LHS | 17.890 | 0.010 | 17.900 | 0.000 | 17.900 | 0.000 | 17.90 |
| | | 17.9 | RHS | 17.890 | 0.010 | 17.900 | 0.000 | 17.900 | 0.000 | |
| 5 | DBM | 17.9 | LHS | 17.890 | 0.010 | 17.900 | 0.000 | 17.900 | 0.000 | 17.90 |
| | | 17.9 | RHS | 17.890 | 0.010 | 17.900 | 0.000 | 17.900 | 0.000 | |
| 6 | BC | 17.9 | LHS | 17.869 | 0.031 | 17.900 | 0.000 | 17.900 | 0.000 | 17.90 |
| | | 17.9 | RHS | 17.835 | 0.065 | 17.900 | 0.000 | 17.900 | 0.000 | |
| 7 | DLC | 6.1 | LHS | 6.070 | 0.030 | 6.100 | 0.000 | 6.100 | 0.000 | 6.10 |
| | | 6.1 | RHS | 6.100 | 0.000 | 6.100 | 0.000 | 6.100 | 0.000 | |
| 8 | PQC | 6.1 | LHS | 6.026 | 0.074 | 6.100 | 0.000 | 6.100 | 0.000 | 6.10 |
| | | 6.1 | RHS | 6.040 | 0.060 | 6.100 | 0.000 | 6.100 | 0.000 | |



Monthly Progress Report May-2018-P04A2

2.1.2 Progress in Quantities

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

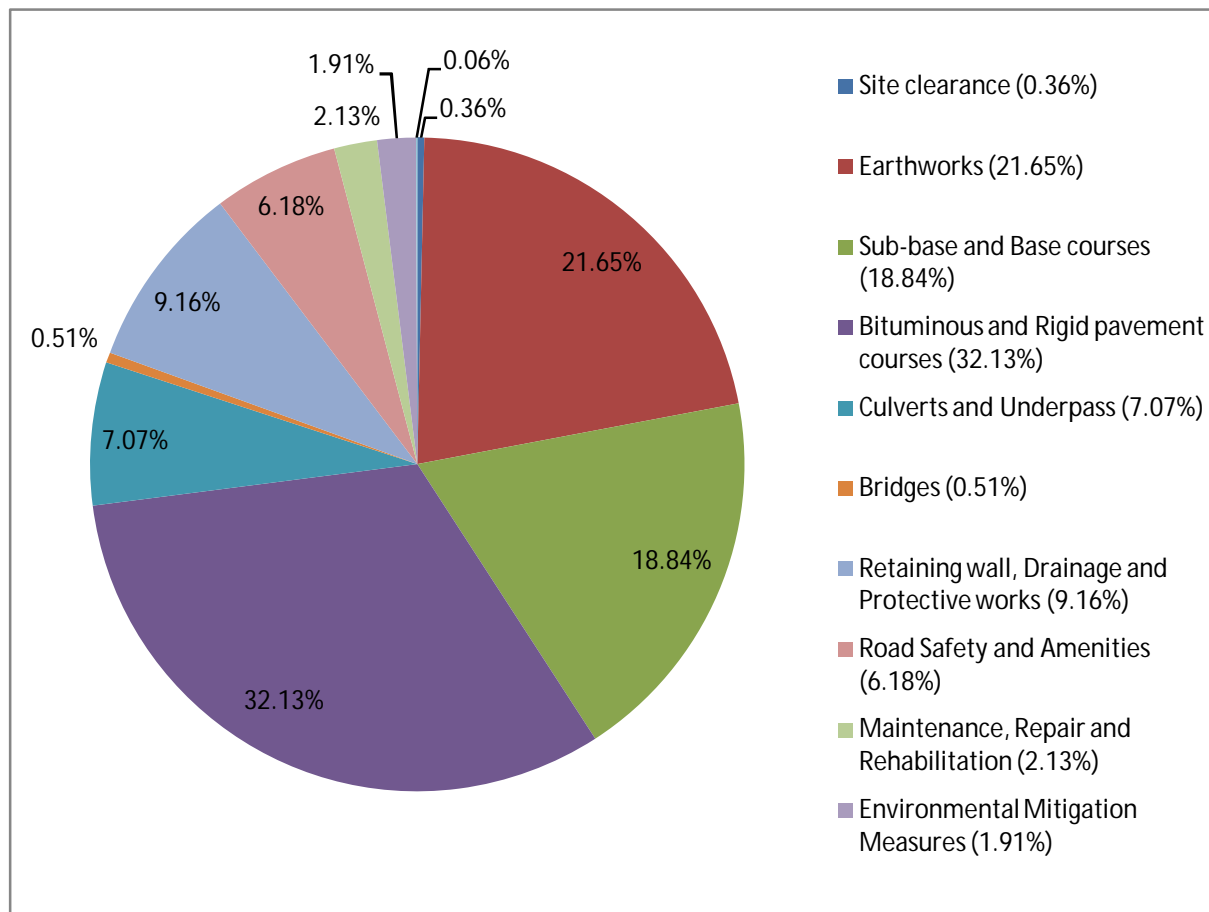


Figure 2-1: Weightage of Major Construction Items



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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 | 11 | 0 | 11 | 0 | 11 | 0 | 11 |
| 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 |



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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.

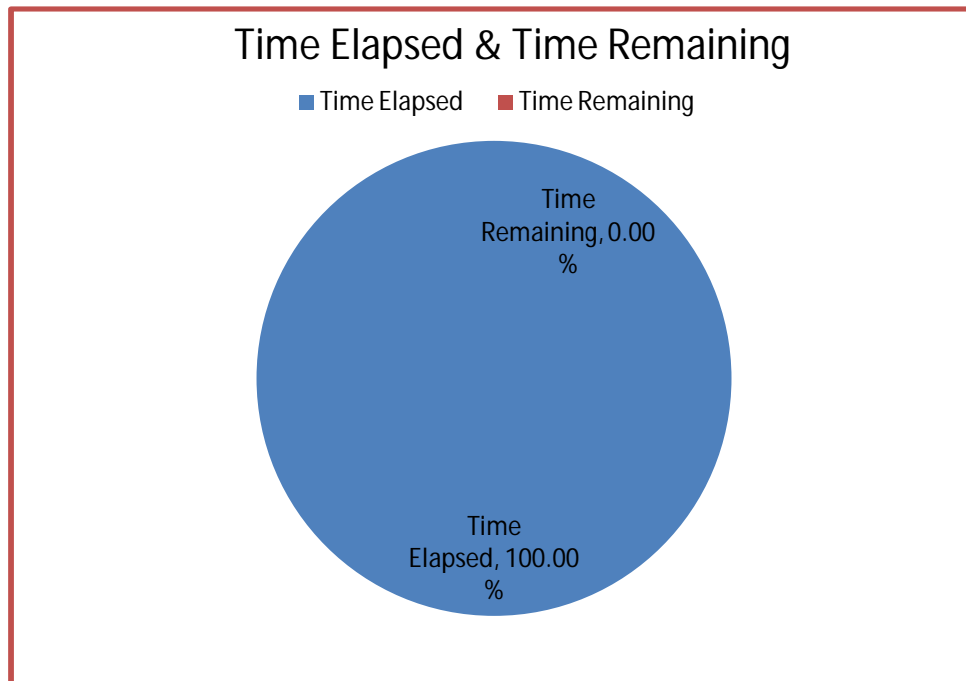
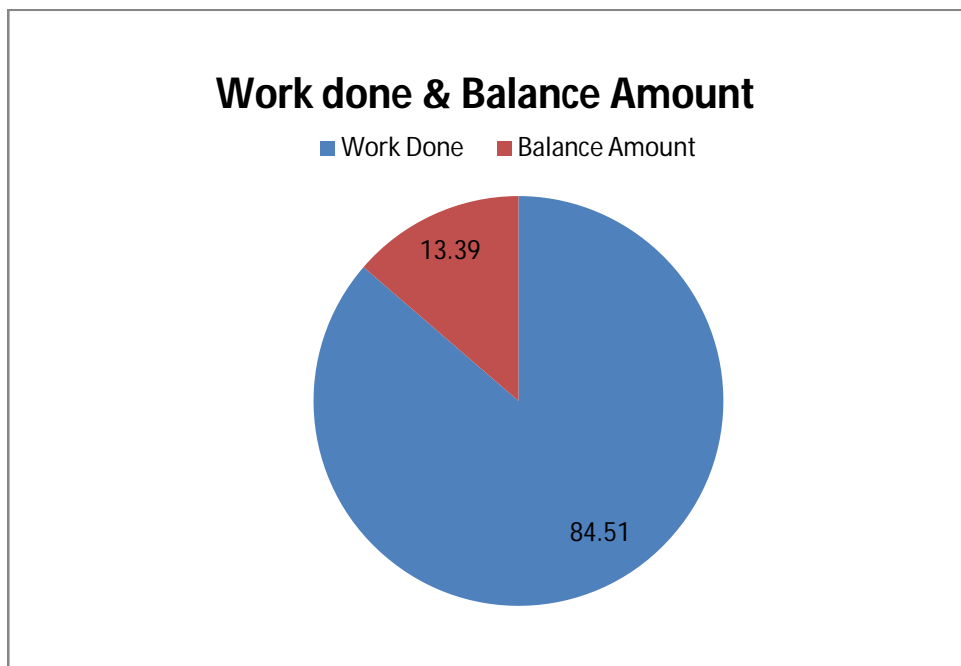


Figure 2-2: Total Duration of the Project (Construction Phase)-18 Months



Monthly Progress Report Jan- 2016

Construction Supervision of Widening & Strengthening 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

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2.5 FORECAST FOR NEXT MONTH

Forecast for June 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 | 7866 | 0 | 0 | |
| 6 | DBM | Cum | 1973 | 0 | 0 | |
| 7 | BC | Cum | 876 | 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.

Monthly Progress Report Jan- 2016

Construction Supervision of Widening & Strengthening 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

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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.84.51Crores
 - b) Amount of work excluding Price Adjustment Rs.84.51Crores
 - c) Mobilisation Advance - Nil
 - d) Material advance - Nil
3. Total (b+c+d) - Rs.84.51Crores
4. Percentage of work executed (2b/1)*100 **86.33%**

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% |

Monthly Progress Report Jan- 2016

Construction Supervision of Widening & Strengthening 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

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| | | | | | |
|----|--------------|-------------|---------------|--------------|---------------|
| 23 | Nov-17 | 0 | 0.000% | 1.12 | 1.14% |
| 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% |
| 29 | May-18 | 0 | 0.000% | 0.13 | 0.15% |
| | Total | 8.10 | 8.274% | 84.51 | 86.33% |

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 |

Monthly Progress Report Jan- 2016

Construction Supervision of Widening & Strengthening 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

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3.5 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 |

3.6 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 |

3.7 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.

3.8 RISK INVOLVED



Chapter 4. Environmental Monitoring and Safety

4.1 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. |

4.2 ROAD SAFETY

Efforts are being made to ensure road safety construction.



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(1X1.2m 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 6. Quality Control and Quality Assurance

6.1 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 | 2 | 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 7. Mobilisation

7.1 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 | |

7.2 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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7.3 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 MouzaKashoti 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 8. Visits and Meetings

Site Visits

1. Mr Manoranjan Mishra (EE, PMU), Mr. Bimal Chandra Dash, SE cum Employer's Representative, Mr G.P. Sahoo, Team Leader (LASA) Visited the site on 11.05.2018

Meetings

1. Meeting with Chief Secretary -Works, Mr. Manoranjan Mishra (EE, PMU), and Mr. G.P. Sahoo, Team Leader (LASA) on 23.05.2018.



Chapter 9.Important Correspondence during the Month

9.1 SUBMISSIONS AND APPROVALS

- Nil

9.2 CORRESPONDENCES

Contractor

- Incoming: Nil
- Outgoing: 01 no

Employer

- Incoming: Nil
- Outgoing: Nil.

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



Chapter 10. Weather during the Month

| Sl. No. | Date | Maximum Temp | Minimum Temp | Rain Fall | Remarks |
|---------|-----------|--------------|--------------|-----------|----------------|
| | | °C | °C | (mm) | |
| 1 | 01-May-18 | 37.20 | 29.60 | Nil | Sunny |
| 2 | 02-May-18 | 37.10 | 29.10 | Nil | Sunny |
| 3 | 03-May-18 | 36.80 | 28.90 | Nil | Sunny |
| 4 | 04-May-18 | 37.40 | 29.40 | Nil | Sunny |
| 5 | 05-May-18 | 37.60 | 29.40 | Nil | Sunny |
| 6 | 06-May-18 | 36.40 | 28.90 | Nil | Sunny |
| 7 | 07-May-18 | 36.70 | 28.90 | Nil | Sunny |
| 8 | 08-May-18 | 38.20 | 29.50 | Nil | Sunny |
| 9 | 09-May-18 | 37.40 | 28.80 | Nil | Sunny |
| 10 | 10-May-18 | 38.00 | 29.20 | Nil | Sunny |
| 11 | 11-May-18 | 38.10 | 29.20 | Nil | Sunny |
| 12 | 12-May-18 | 37.50 | 28.80 | Nil | Sunny |
| 13 | 13-May-18 | 37.00 | 28.60 | Nil | Sunny |
| 14 | 14-May-18 | 33.10 | 28.40 | 4.50 | Rainy |
| 15 | 15-May-18 | 37.50 | 28.80 | Nil | Cloudy & Sunny |
| 16 | 16-May-18 | 39.60 | 24.90 | 8.00 | Rainy |
| 17 | 17-May-18 | 38.40 | 25.80 | Nil | Cloudy & Sunny |
| 18 | 18-May-18 | 39.20 | 24.60 | 2.00 | Rainy |
| 19 | 19-May-18 | 37.60 | 24.80 | Nil | Cloudy & Sunny |
| 20 | 20-May-18 | 38.50 | 24.30 | 7.50 | Rainy |
| 21 | 21-May-18 | 37.60 | 24.80 | Nil | Cloudy & Sunny |
| 22 | 22-May-18 | 38.20 | 26.70 | Nil | Cloudy & Sunny |
| 23 | 23-May-18 | 37.60 | 24.80 | 12.00 | Rainy |
| 24 | 24-May-18 | 38.40 | 27.50 | Nil | Sunny |
| 25 | 25-May-18 | 37.50 | 25.60 | Nil | Cloudy & Sunny |
| 26 | 26-May-18 | 38.10 | 28.40 | Nil | Sunny |
| 27 | 27-May-18 | 36.40 | 28.10 | Nil | Sunny |
| 28 | 28-May-18 | 37.60 | 28.50 | Nil | Sunny |
| 29 | 29-May-18 | 37.30 | 30.10 | Nil | Sunny |
| 30 | 30-May-18 | 38.10 | 30.00 | Nil | Sunny |
| 31 | 31-May-18 | 37.60 | 29.80 | 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 | BC/PQC | Chainage | RHS | EMB/EXC |
|-----|--------|----------|--------|---------|
| | DBM | | | SUB. |
| | | 25+000 | RUP | |
| | | 25+100 | | |
| | | 25+200 | | |
| | | 25+268 | HPC | |
| | | 25+300 | | |
| | | 25+400 | | |
| | | 25+500 | | |
| | | 25+579 | HPC | |
| | | 25+600 | | |
| | | 25+700 | | |
| | | 25+800 | | |
| | | 25+900 | | |
| | | 25+971 | HPC | |
| | | 26+000 | | |
| | | 26+100 | | |
| | | 26+173 | U CLVT | |
| | | 26+200 | | |
| | | 26+300 | | |
| | | 26+306 | HPC | |
| | | 26+400 | | |
| | | 26+500 | | |
| | | 26+550 | U CLVT | |
| | | 26+600 | | |
| | | 26+685 | HPC | |
| | | 26+700 | | |
| | | 26+800 | | |
| | | 26+900 | | |
| | | 27+000 | | |
| | | 27+100 | HPC | |
| | | 27+200 | | |
| | | 27+220 | U CLVT | |
| | | 27+300 | | |
| | | 27+400 | | |
| | | 27+500 | | |
| | | 27+600 | HPC | |
| | | 27+700 | | |
| | | 27+800 | | |
| | | 27+900 | | |
| | | 28+000 | | |
| | | 28+100 | | |
| | | 28+173 | BOX | |
| | | 28+200 | | |
| | | 28+300 | | |
| | | 28+400 | | |
| | | 28+500 | U CLVT | |
| | | 28+600 | | |
| | | 28+700 | | |
| | | 28+800 | | |
| | | 28+900 | | |
| | | 29+000 | | |
| | | 29+100 | | |
| | | 29+118 | HPC | |
| | | 29+200 | | |
| | | 29+208 | HPC | |
| | | 29+300 | | |
| | | 29+400 | | |
| | | 29+500 | HPC | |
| | | 29+600 | | |
| | | 29+700 | | |
| | | 29+800 | | |
| | | 29+900 | | |
| | | 29+960 | HPC | |
| | | 30+000 | | |
| | | 30+100 | | |

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

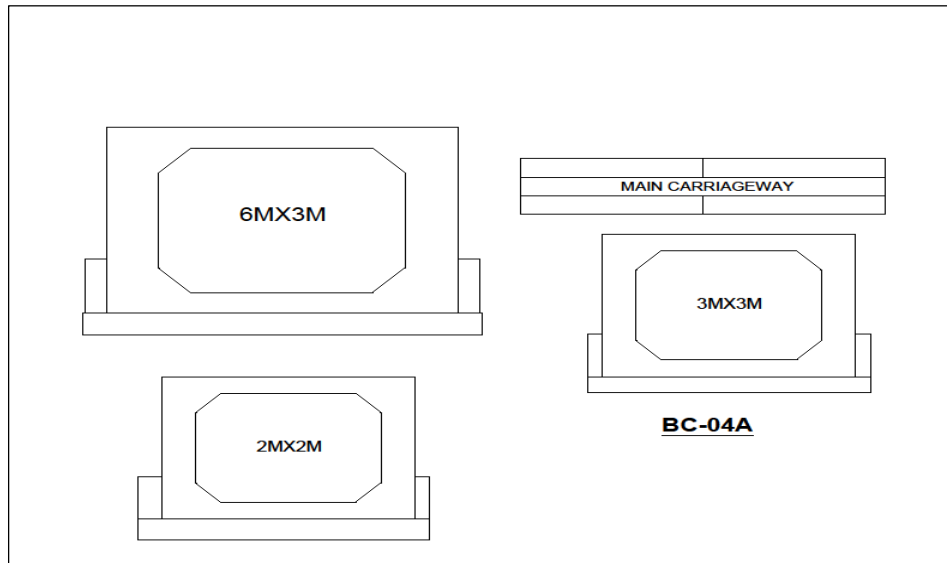
LEGEND FOR WORK COMPLETED & IN PROGRESS

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

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

Status as on May 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 | |
| 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

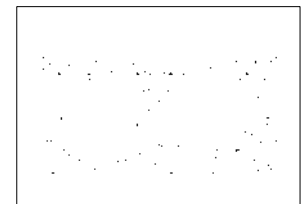
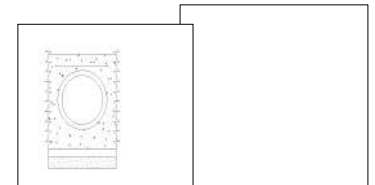
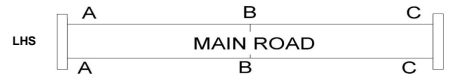
Status as on May 2018

| 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

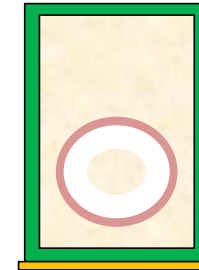
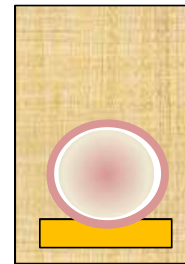
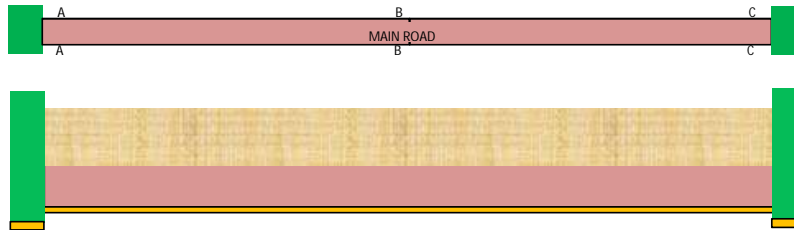
Nischintakoli - Duhuria Road Project (Package P04A2)

(km 25+00 TO 49+00)

Progress Report of Pipe Culverts For Utility Only

Status as on May 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

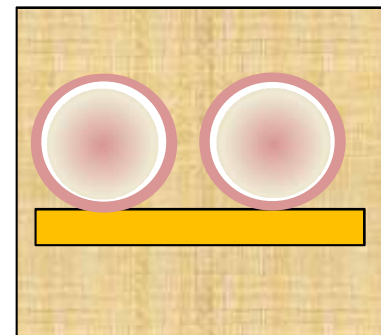
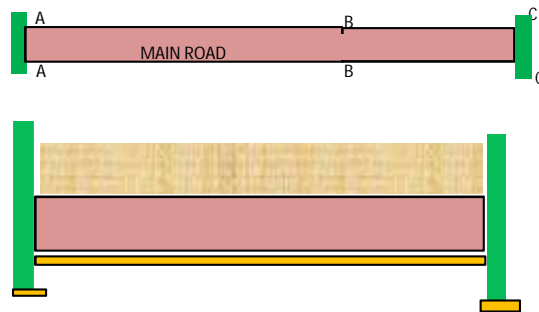
Nischintakoli - Duhuria Road Project (Package P04A)

(km 25+00 TO 49+00)

Progress Report of Reptile Underpass

Status as on May 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 | | | | | |



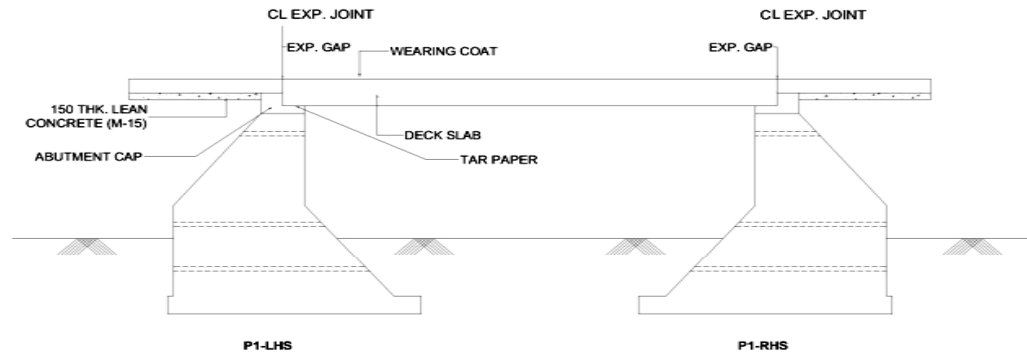
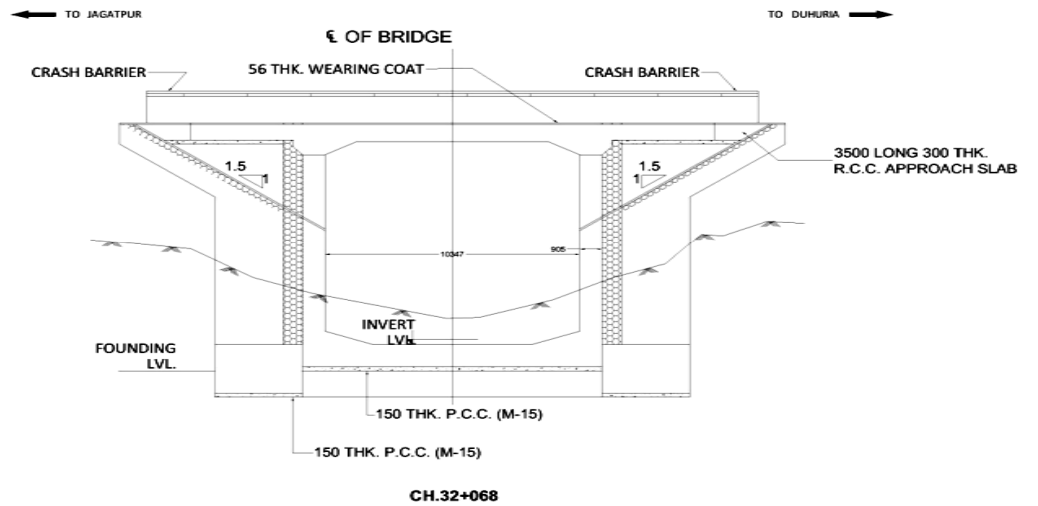
Nischintakoli - Duhuria Road Project (Package P04A)

(km 25+00 To 49+00)

Progress of Minor Bridge (Typical Fig.)

Status as on May 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 | | |



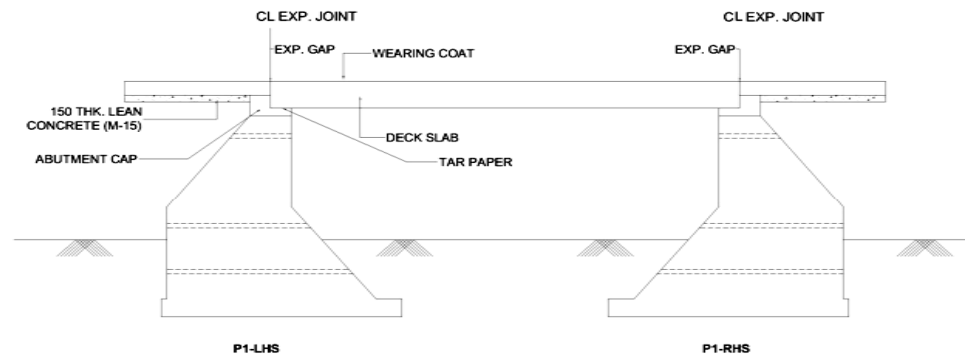
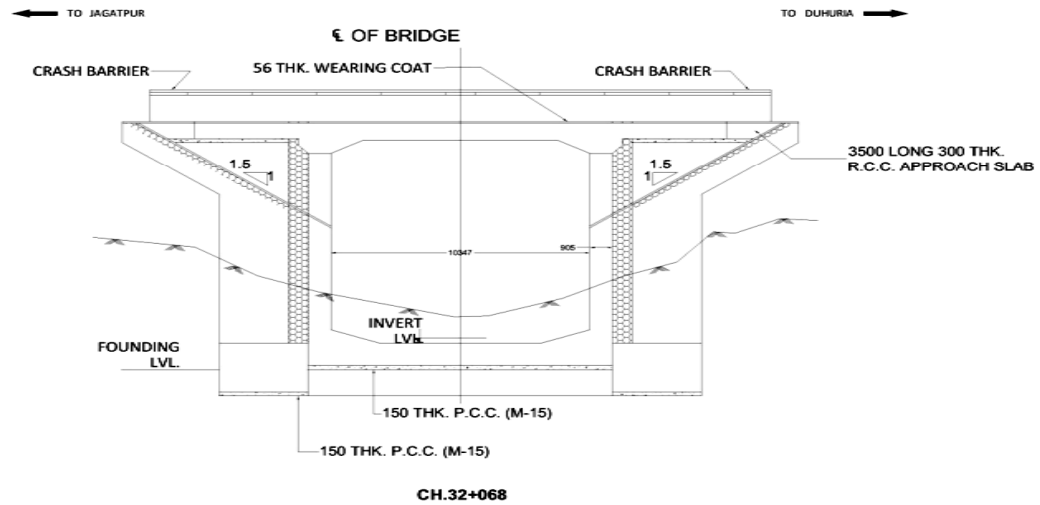
Nischintakoli - Duhuria Road Project (Package P04A)

(km 25+00 To 49+00)

Progress of Minor Bridge (Typical Fig.)

Status as on May 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 | | |



Status as on May 2018

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 MAY-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 MAY-2018 | | | | |
| Sl. No. | Date | Letter Reference No | Subject | To |
| CLIENT (ODISHA WORKS DEPARTMENT) | | | | |
| | | | Nil | OWD |
| CONTRACTOR-VARAHA | | | | |
| 1 | 03.05.2018 | LASA/RE-1/73466/P04A2/719 | Regarding cracks & ravelling(on surface) of PQC observed at few locations. | VARAHA |