Building Design Authority (P) Ltd

in joint Venture with

B.N. Consultancy Pvt. Ltd and PLUSH Engineering & architects (P) Ltd Kathmandu.

Monthly Progress Report

Regional Urban Development Project (RUDP)
Project Implementation Unit
Biratnagar, Nepal



August 2018

Biratnagar Metropolitan City (BMC), Nepal



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EXECUTIVE SUMMARY

This Project Monitoring Report mainly covers the Progress achieved in the component of Regional Urban Development Project (RUDP) in Biratnagar Metropolitan City, Nepal. The information has been provided by following Chapters as mentioned below.

- **1. Introduction/ Background-** It provides brief Account of the Project and its Background stating why, how and when the Project was started in Biratnagar Metropolitan City.
- **2. Salient Feature of Contract Package: RUDP/ICB/BRT/2-** It provides brief Account of Contract Data with Major components of works to be carried out.
- **3. Sub Project Components-** It provides brief Account of various Sectors of the Project component summarizing the respective Progress such as Sewer Line, Storm Water Drain, Road side Drain, Roads and Lanes and Electrification Work if any. This Chapter further covers Environment Mitigation Measures and Social Safeguard measures.
- **4. Objective and Scope of Works-** This Chapter briefly describes the expected output of the Project and Scope of Consultant regarding execution of Work.
- 5. Progress of Sub Project Components- This Chapter comprises the status of Work stating what kind of works are being under Progress and how much Progress has been achieved till date. It further elaborates on the status of actual achievement versus the Targeted achievement till date. Having said that, the Progress may get affected by unpredicted events frequently occurring in case of our Country Nepal so such events are also enlisted for viewing the reasons behind affected Progress.
- **6. Details of Pre Cast Activities-** Details of Precast activities are also provided in this Chapter in order to demonstrate the Progress by the Contractor. Since in Urban Sector the Work is required to conduct in speedy manner, Precast work is best alternate to be provided. Hence, the details of Precast activities have been provided in order to determine whether the Contractor is able to meet the Schedule or not.
- 7. **Contractor's Manpower and Contractor's Equipment-** Chapter 7 and Chapter 8 deal with summary of Manpower and Equipment respectively stating whether Resources owned by the Contractor are sufficient for the execution of Contract.

1 PROJECT DESCRIPTION

1.1 INTRODUCTION/BACKGROUND

GoN has negotiated loan with Asian Development Bank for the Regional Urban Development Project (RUDP) in Nepal .The RUDP, in the line with ADB's water and urban operation plans, will construct and upgrade urban infrastructure in eight towns in the Terai Region of Nepal, improve operational effectiveness of these eight municipalities. The project will also build institutional capacity of DUDBC for urban planning, project planning and project preparation in order to proactively shape urbanization in Nepal and implement the National Urban development strategy .Biratnagar is one of the eight municipal towns included in the RUDP. The subcomponent of the RUDP covers the construction and improvement of sewerage, drainage and roads and design of Integrated Solid Waste Management System for Biratnagar Municipality.Building Design Authority (P) Ltd (Nepal) ,B.N. Consultancy Pvt.ltd and PLUS Engineers & Architects (P) Ltd Kathmandu and have entered for a Contract of Consulting Services with Regional Urban Development Project (RUDP), Project Implementation Unit(PIU), Biratnagar Metropolitan City on 28th August 2017.

Regional Urban Development Project (RUDP the Department of Urban Development and Building Construction (DUDBC), under the Ministry of Urban Development(MUD) through the Government of Nepal (GoN) has received the loan from Asian Development Bank (ADB) Loan 47252-NEP.

In line with ADB's Strategy 2020 and based on Nepal's fundamental long term needs and on the GoN's priority, the ADB is continuing to support the Government in (i) improving urban infrastructure; improving access to water supply and sanitation (ii) supporting urban environmental improvement(iii) strengthening the operation and management skills of local governments. The Regional Urban Development Project (RUDP) is forward to promote healthy cities by creating healthier urban environments and was formulated under the PPTA 2010.

2 CONTRACT DATA: - RUDP/ICB/BRT/2

| | General Features | | | | | | | | | |
|--|--|--|--|--|--|--|--|--|--|--|
| Name of Project | Regional Urban Development Project(RUDP) | | | | | | | | | |
| - | Government of Nepal, | | | | | | | | | |
| Executing Agency | Ministry of Urban Development | | | | | | | | | |
| | Department of Urban Development and Building Construction (DUDBC) | | | | | | | | | |
| Implementing Agency | Biratnagar Metropolitan City, Biratnagar | | | | | | | | | |
| Funded By | Asian Development Bank & Government of Nepal | | | | | | | | | |
| Package | Construction and Completion of Sewerage, Drainage, Road, Footpath and Road furniture works | | | | | | | | | |
| Contract No. | RUDP/ICB/BRT/2 | | | | | | | | | |
| Location | Biratnagar Metropolitan City, Biratnagar | | | | | | | | | |
| Consultant | Building Design Authority (P) LTD in Joint Venture With B.N. consultancy Pvt and PLUS Engineers and Architects (P) Ltd Kathmandu. | | | | | | | | | |
| Date of Sign of Design and Supervision Consulting Service | 28th August 2017 | | | | | | | | | |
| Date of Commencement of Design and Supervision Consulting Service | 6th September 2017 | | | | | | | | | |
| Date of Completion | 5th September 2020 | | | | | | | | | |
| Contractor | ZHONGHENG Construction Group International Engineering Co Ltd. Beijing, China. | | | | | | | | | |
| Date of Agreement Made | 10 th October 2017 | | | | | | | | | |
| Date of Commencement | 2 nd November 2017 | | | | | | | | | |
| Date of Completion | 1 st November 2019 | | | | | | | | | |
| Contract Amount including PS and VAT | NRs. 2,611,092,249.63 | | | | | | | | | |
| Progress | | | | | | | | | | |
| Road Rehabilitation (Asphalt) | 19.17% | | | | | | | | | |
| Sewer Line | 40.79% | | | | | | | | | |
| Storm Drain | 97.44 % | | | | | | | | | |
| Road Side Drain | 69.88% | | | | | | | | | |
| Integrated Solid Waste Management (ISWM) Design | Inception Report as well as Stakeholder's Analysis, Communication Strategy and Consultation Plan for Integrated Solid Waste Management (ISWM) has already been submitted. Due to Socio Environment Problem, the consultant is not able to process for design of Integrated Solid Waste Management (ISWM) as per discussion. | | | | | | | | | |
| Physical Progress up to date | Planned: 25.32%, Actual: 27.5%; Lead(+) or Lag(-) by +2.18% S curve attached | | | | | | | | | |
| Financial Progress up to date | In Percentage: 22.84%, In Figure: NRs. 596,339,691.11(including VAT,PS and Price Adjustment) In Words: NRs. Five Hundred Ninety Six Million Three Hundred Thirty Nine Thousand Six Hundred Ninety One and Paisa Eleven Only. | | | | | | | | | |

3. SUMMARY OF PROGRESS STATUS OF ALL MAJOR COMPONENTS

| S.No | Description | Unit | BoQ Quantity | Progress up to date | Remainin g | Progress Status expresse d in % | Remarks |
|-------------------|-------------------|------|-----------------|------------------------|---------------|--|----------------------------|
| 1 | Sewer Line | | | | | | |
| а | HDPE/RCC | m | 20,082.00 | 8,191.00 | 11,891.00 | 40.79% | |
| b | Manhole | No. | 656.00 | 276.00 | 380.00 | 42.07% | |
| С | Sewer Inlet | No. | 1,010.00 | 71.00 | 939.00 | 7.03% | |
| d | House Connection | No. | 3,784.00 | 26.00 | 3,758.00 | 0.69% | |
| | | | | | | | |
| 2 | Storm Water Drain | | | | | | |
| а | RCC Drain | m | 652.89/58 5 | 570.00 | 15.00 | 97.44% | Revised Length =585m |
| b | Piles | No. | 132.00 | 138.00 | (6.00) | 100.00% | Exceede d |
| | | | | | | | |
| 3 | Road | | | | | | |
| а | Subgrade | m | 73,860.00 | 24,377.00 | 49,483.00 | 33.75% | |
| b | Subbase | m | 73,860.00 | 24,153.7 | 49,706.30 | 32.54% | |
| С | Base | m | 73,860.00 | 18,398.1 | 55,461.90 | 26.19% | |
| d | Prime | m | 73,860.00 | 14,167.5 | 59,692.50 | 19.18% | |
| е | Asphalt | т | 73,860.00 | 14,167.5 | 59,692.50 | 19.18% | |
| 4 Road Side Drain | | т | 26,050.00 | 18,204.25 | 7,845.75 | 69.88% | |

3.1 SUB PROJECT COMPONENTS

3.1.1 SEWER LINES

Surveying works going on after identifying the all sewer lines i.e. T1, T2, T3, and T4. Production of manhole cover and precut are also going on at yard. Contractor has started the sewer inlet and house chamber connection works at R2, DSP road, T4Line 1 etc. and work is going on.

Table 1: PROPOSED SEWER LINES

| S. NO. | Description | Unit | Original Quantity |
|-----------|--|------|-------------------|
| 1 | Sewerage Pipe Supply and Installation | m | 20,082.00 |
| | Reinforced Concrete Pipe laying and jointing | | 2241.00 |
| | Line T2 (Secondary) | m | 206.00 |
| | Line T3 (Trunk) | m | 1905.00 |
| | Line T4 (Trunk) | m | 130.00 |
| | HDPE laying and jointing | m | 17,841.00 |
| | Line T1 (Secondary) | m | 1,825.00 |
| | Line T2 (Secondary) | m | 3,927.00 |
| | Line T3 (Secondary) | m | 9,997.00 |
| | Line T4 (Secondary) | m | 2,902.00 |
| 2 | Manhole (Brick / RCC) | no. | 685.00 |
| 3 | Sewer Inlet | no. | 1,010.00 |
| 4 | House Connection | no. | 3,784.00 |
| 5 | Reinstatement of Roads | km | 73.86 |
| 6 | Road side Drain | Km | 26.05 |
| 7 | Storm Water Drain | m | 652.8 |

Table: - 2 PHYSICAL PROGRESS IN SEWER LINES till August, 2018

| | | Во | Q | Up to Pre | e Month | This | month | Total to |) date | |
|----|--------------------|--------------|---------|-----------------|---------|--------|---------|------------|---------|------------|
| SN | Locations | Length | Manhole | Length(m) | Manhole | Length | Manhole | Length (m) | Manhole | Progress % |
| | | (m) | (no) | | (no) | (m) | (no) | | (no) | |
| 1 | Hume pipe(T2) | 206.00 | 6.00 | | | | | | | |
| 2 | Hume pipe(T3) | 1,905.00 | 58.00 | 292.00 | 6.00 | | | 292.00 | 6.00 | |
| 3 | Hume Pipe (T4) | 130.00 | 4.00 | 326.00 | 11.00 | | | 326.00 | 11.00 | |
| | Subtotal in (m) | 2,241.00 | 68.00 | 618.00 | 17.00 | - | - | 618.00 | 17.00 | |
| 1 | HDPE(T1) | 1,825.00 | 57.00 | 1,037.00 | 30.00 | | | 1,037.00 | 30.00 | |
| 2 | HDPE(T2) | 3,927.00 | 147.00 | 2,996.00 | 113.00 | | | 2,996.00 | 113.00 | |
| 3 | HDPE(T3) | 9,997.00 | 316.00 | 2,771.00 | 97.00 | | | 2,771.00 | 97.00 | |
| 4 | HDPE(T4) | 2,092.00 | 68.00 | 769.00 | 19.00 | | | 769.00 | 19.00 | |
| | Subtotal in (m) | 17,841.00 | 588.00 | 7,573.00 | 259.00 | - | - | 7,573.00 | 259.00 | |
| | Total | 20,082.00 | 656.00 | 8,191.00 | 276.00 | - | - | 8,191.00 | 276.00 | 40.79% |
| | Sewer Inlet | BoQ | (no) | Up to Pre Month | | This | month | Total to | date | Progress % |
| 1 | Sewer inlet | 1,010 | 0.00 | | 28.00 | | 43.00 | | 71.00 | 7.03 |
| 2 | House connection | 3,784 | 4.00 | | | | 26.00 | | 26.00 | 0.69 |

3.2 STORM WATER DRAIN

The storm water drain CN2, and CN3 has been provisioned in Regional Urban Development Project (RUDP). The Contractor has already completed the works except some minor works at inlet and outlet which have been stopped due to monsoon. The detail of the progress is shown in the table:

Table:-3 PROPOSED and PHYSICAL PROGRESS in STORM WATER DRAINS TILL August, 2018.

| | | | Le | ngth in m | | | | | Lengt | |
|----|--|------------------|-------------|--------------|---------------|----------------|---------------------|-----|---------------------|----------------------------------|
| | Name of | | | Prog | ress | | Type of Drain | RCC | h of Cover | Rem |
| SN | Drain | Original | Revise d | Previo us | This Month | Cumu lative | | m | ed Drain in m | arks |
| 1 | CN2- CN3(Chyan gh Baari Nala) | 652.89 | 585 | 570 | 0 | 570 | RCC, closed | 570 | 570 | |
| 2 | CN2- CN3(Chyan gh Baari Nala) | 132 nos piles | 138 | 138 | 0 | 138 nos. | | | | Piling works compl eted |
| | Total | | | | | | | | | |

3.3 ROADS AND LANES

Most of the roads/lanes in Biratnagar are in a poor state due to lack of periodic maintenance, and need improvement where as some of the roads are graveled and would benefit from upgrading. In the areas where drainage and sewerage works are proposed there will be significant impact on the existing roads. The Project has considered on design based on reinstatement, rehabilitation and upgrading of existing roads length 73.86 km. The Contractor has started detail survey work for upgrading the deteriorated pavement surface.

Table No:-4 PROPOSED and PHYSICAL PROGRESS of pavement works till August, 2018

| | Roa | | | Le | ngth in | m | | Work Completed | | | | |
|----|----------|------------------------------|--------------|-------------|--------------|-------------------|------|----------------|------|---------|-----|---------|
| SN | d Nu | Name of | Origin | Davisa | Pro | gress | = | Sub- base | Base | Asphalt | RCC | Remarks |
| | mbe r | Road | Origin al | Revise d | Prev ious | This Mont h | Mont | m | m | m | m | Rer |
| 1 | R42 | Bhag wati Marg | 218 | 218 | 218 | | 218 | 218 | 218 | 123 | | |
| 2 | R5 | Colle ge Road | 970 | 970 | 650 | | 650 | 650 | 650 | | | |
| 3 | B2 | Gauri Shan kar Marg | 2777. 83 | 2777.8 3 | 2152 | | 2152 | 2152 | 2152 | 1999.8 | 200 | |
| 4 | R65 | Satgh umti Marg | 282 | 320 | 320 | | 320 | 320 | | | | |

| 5 | R10 7 | | 173 | 215 | 215 | | 215 | 215 | | | |
|----|--------------|-----------------------------|-------------|------|------|-------|-------|------|---------|---------|--|
| 6 | R10 7 a | | 50 | 50 | 50 | | 50 | 50 | | | |
| 7 | R10 4 | VIP Marg | 273 | 273 | 273 | | 273 | 273 | 273 | 273 | |
| 8 | R3A | Madh umar a Marg | 600 | 600 | 600 | | 600 | 600 | 600 | 582 | |
| 9 | B1 | Kanc han Marg | 1172. 94 | 1173 | 1173 | | 1173 | 1173 | 1106 | 1106 | |
| 10 | R21 | Pratib ha Marg | 1320 | 1320 | 950 | | 950 | 950 | 950 | 689.6 | |
| 11 | В3 | Kesh aliya Marg | 1574 | 1574 | 1574 | | 1574 | 1574 | 1627.75 | 1627.75 | |
| 12 | S13 | | 1617 | 1617 | 1417 | | 1417 | 1417 | 1417 | 1433.3 | |
| 13 | R12 | Kanc hha Dai Marg | 1192 | 1192 | 837 | | 837 | 837 | 837 | | |
| 14 | Rani site | Rani | 4023 | 4023 | 2315 | | 2315 | 2315 | 1702 | 1096 | |
| 15 | R16 | Satya Marg | 604 | 604 | 604 | | 604 | 604 | 604 | 542.1 | |
| 16 | R26 | Pasa ng Marg | 617 | 654 | 654 | | 654 | 654 | 654 | 215 | |
| 17 | R28 | Pusta kalay a Marg | 635 | 635 | 635 | | 635 | 635 | 635 | 339.2 | |
| 18 | R27 | Peep al Marg | 810 | 810 | 580 | | 580 | 580 | 580 | 300 | |
| 19 | R25 | Devi Marg | 599 | 580 | 580 | | 580 | 580 | 580 | 561.7 | |
| 20 | R24 | Prabh at Marg | 384.4 1 | 380 | 380 | | 380 | 380 | 380 | 364.95 | |
| 21 | R37 | Bangl amuk hi Marg | 420 | 477 | 477 | | 477 | 477 | 477 | 200.7 | |
| 22 | R7 | Mana kama na Marg | 814 | 814 | 242 | | 242 | 242 | 242 | | |
| 23 | R30 | Shant i Marg | 212 | 212 | | 123.1 | 123.1 | | 123.1 | 123.1 | |
| 24 | R9 | Fadin dra Marg | 123 | 123 | | 119 | 119 | | 119 | 119 | |
| 25 | S11 | Samr at Marg | 660 | 660 | 660 | | 660 | 660 | 504.6 | 504.6 | |

| 26 | R22 | Amar Marg a | 373.1 | 367.65 | 367. 65 | | 367.65 | 367.65 | 367.65 | 367.65 | |
|----|------------------------------|--------------------------------|-------|--------|------------|-------|--------|--------|--------|--------|--|
| 27 | R29 | Shant i Marg | 620 | 620 | | 299 | 299 | 299 | 299 | 299 | |
| 28 | R36 | Gaura v Marg | 218 | 218 | | 220 | 220 | | | | |
| 29 | R33 | Tarun Marg | 285 | 285 | | 171.5 | 171.5 | | | | |
| 30 | R64 | Satya Naray an Marg | 121 | 121 | 121 | | 121 | 121 | | | |
| 31 | R8 | | | 225 | 225 | | 225 | 225 | | | |
| 32 | N36 | | | 190 | 190 | | 190 | 190 | | | |
| 33 | R18 8 | Shakti Marg | - | 120 | 120 | | 120 | 120 | | | |
| 34 | R2 | Main Road | - | 300 | 300 | | 300 | 300 | | | |
| 35 | T3 Line 6A | Pandi tMrgh nath Marg | - | 220 | 220 | | 220 | 220 | | | |
| 36 | T2 Line 24C | Nava Jyoti Marg | 1 | 205 | 205 | | 205 | 205 | | | |
| 37 | T2 Line 24D | Nava Jyoti Marg | - | 210 | 210 | | 210 | 210 | | | |
| 38 | R63 (DS P Roa d) | DSP Road | 420 | 420 | 420 | | 420 | 420 | | | |
| 39 | R90 | Shakti Marg | 450 | 380 | 380 | | 380 | 380 | | | |
| 40 | R77 | Arnik o Marg | 80 | 80 | 80 | | 80 | 80 | | | |
| 41 | R76 | Mitra Marg | 270 | 270 | 270 | | 270 | 270 | | | |
| 42 | R18 3 | Nava Jyoti Marg | 240 | 240 | 240 | | 240 | 240 | | | |
| 43 | T1 L16 B | Xenial Front | 210 | 210 | 210 | | 210 | 210 | | | |
| 44 | T1 L16 A | Xenial South | 140 | 140 | 140 | | 140 | 140 | | | |
| 45 | R11 4 | Dhara nidhar Marg | 560 | 560 | 560 | | 560 | 560 | 560 | 560 | |
| 46 | R11 3 | Kavi Lekh Marg | 740 | 740 | 740 | | 740 | 740 | 740 | 740 | |
| 47 | R5a | | 370 | 370 | 370 | | 370 | 560 | | | |

| | Tota I | | | 2344 4.7 | 932.6 | 24377 | 24153.7 | 18398.1 | 14167.5 | 200 | |
|----|-------------------|-----|-----|-------------|-------|-------|---------|---------|---------|-----|--|
| 48 | Rani site B | 600 | 520 | 520 | | 520 | 740 | | | | |

| | Road | Name of Road | Type* | | Length in m | | | | | | Remar |
|----|----------------|--------------------------|------------------|----------|-------------|----------|---------------|------------|----------|----------------|-------|
| SN | Road Number | | | | Revised | Progress | | | Footpath | | |
| | Number | | | Original | | Previous | This Month | Cumulative | m | M ³ | |
| 1 | B2 | Gauri Shankar Marg | Precast block | 2777.83 | 2777.83 | | 900 | 900 | 900 | | |

Table No:-4.1 Road improvement Works (Work Progress till the date)

| SN | Description | Unit | Proposed | Total Up to Previous Month | This Month | Total Up to this Month | Progress |
|----|-------------|------|-----------|----------------------------------|---------------|------------------------------|----------|
| 1 | Subgrade | m | 73,860.00 | 23,444.7 | 932.60 | 24377.3 | 33.00% |
| 2 | Sub Base | m | 73,860.00 | 23520.1 | 633.60 | 24153.7 | 32.70% |
| 3 | Base | m | 73,860.00 | 18398.1 | - | 18398.1 | 26.19% |
| 4 | Prime | m | 73,860.00 | 14167.5 | - | 14167.5 | 19.18% |
| 5 | Asphalt | m | 73,860.00 | 14167.5 | - | 14167.5 | 19.18% |

3.4 ROAD SIDE DRAIN

Table No:-4a PROPOSED and PHYSICAL PROGRESS of Road side drain works till August, 2018.

| | Road | Name of | Length in m | | | | | Work Completed | | |
|----|----------|-----------------|-------------|-----------|--------------|---------------|--------|----------------|-----|------|
| SN | SN Numbe | | Ori | Ori Revis | Progr | Progress | | Brick | RCC | Rema |
| | r | Road | gin al | ed | Previou s | This Month | Total | m | m | rks |
| 1 | B1 | Kanchan Marg | 0 | 0 | 90 | 0 | 90 | 90 | | |
| 2 | R29 | Shanti Marg | 620 | 620 | 513.4 | | 513.4 | 513.4 | | |
| 3 | N36 | | 0 | 0 | 371.75 | | 371.75 | 371.75 | | |
| 4 | R8 | APF | 540 | 540 | 460 | | 460 | 460 | | |

| 5 | R7 | Pasang Marg and Pipal Marg | 480 | 480 | 180 | 50 | 230 | 230 | |
|-----|------|-------------------------------------|-----|-----|--------|-----|--------|--------|--|
| 6 | R63 | DSP Road | | | 397 | | 397 | 397 | |
| 7.1 | R9 | Baglamu khi path | 240 | 240 | 208 | | 208 | 208 | |
| 7.2 | S13 | | | 110 | 110 | | 110 | 110 | |
| 8 | N33 | Parichay a Marga | 0 | 0 | 70 | | 70 | 70 | |
| 9 | R28 | Pustakal aya Marg | | 640 | 278 | | 278 | 278 | |
| 10 | R90 | Shakti Marg | 620 | 620 | 678.5 | | 678.5 | 678.5 | |
| 11 | R114 | Dharanid har Marg | | 530 | 624.65 | | 624.65 | 624.65 | |
| 12 | R11 | Om Shiv Marg | | | 376.9 | | 376.9 | 376.9 | |
| 13 | R18 | | | 762 | 762 | | 762 | 762 | |
| 14 | R17 | | | 680 | 721.7 | | 721.7 | 721.7 | |
| 15 | R113 | Kavi Lekhnath Marg | 0 | 0 | 312.45 | | 312.45 | 312.45 | |
| 16 | R77 | Arniko Marg | 160 | 160 | 160 | | 160 | 160 | |
| 17 | R76 | Mitra Marg | 540 | 540 | 548.1 | | 548.1 | 548.1 | |
| 18 | N9 | Devi Marga | | 445 | 445 | | 445 | 445 | |
| 19 | N4 | | | 250 | 292.75 | | 292.75 | 292.75 | |
| 20 | R33 | Tarun Marg | | 354 | 332.6 | 100 | 432.6 | 432.6 | |
| 21 | R36 | Gaurav Marg | 450 | 450 | 432.9 | | 432.9 | 432.9 | |
| 22 | R86 | Janpath Marg | 400 | 400 | 367.4 | | 367.4 | 367.4 | |
| 23 | R183 | Nava Jyoti Marg | 440 | 440 | 422.1 | | 422.1 | 422.1 | |
| 24 | R7a | | 132 | 132 | 130 | | 130 | 130 | |
| 25 | Rani | Rani B | | 340 | 699.6 | | 699.6 | 699.6 | |
| 26 | Rani | Rani A | | 200 | 270 | | 270 | 270 | |
| 27 | N3 | | | 450 | 190 | | 190 | 190 | |
| 28 | N5 | | | 76 | 130 | | 130 | 130 | |

| 29 | R21 | Binayak Marga | | 414 | 360 | 30 | 390 | 390 | |
|----|---------------------------------|------------------------------------|-----|-----|--------|-----|--------|--------|--|
| 30 | R2 | Main Road | | | 1135 | 50 | 1185 | 1185 | |
| 31 | Xenial Front (T1L16 B) | | | 440 | 411.35 | | 411.35 | 411.35 | |
| 32 | Xenial South(T 1L16A) | | | | 318.6 | | 318.6 | 318.6 | |
| 33 | R75 | Tintoliya Marga | 135 | 135 | 255 | | 255 | 255 | |
| 34 | R122 | Amar Marga | 268 | 268 | 500.95 | | 500.95 | 500.95 | |
| 35 | N5 | | | 130 | 130 | | 130 | 130 | |
| 36 | R7b | Siddharth a Marga | 110 | 110 | 110 | | 110 | 110 | |
| 37 | R12 | Sukra Path | 830 | 830 | 110 | 130 | 240 | 240 | |
| 38 | R42 | Jahada Marga | 150 | 150 | 150 | | 150 | 150 | |
| 39 | R6 | Shanti Marg | 680 | 680 | 680 | | 680 | 680 | |
| 40 | R21(a) | DharamB adh Junction | 160 | 160 | 160 | | 160 | 160 | |
| 41 | R78 | Binayak Marga | 70 | 70 | 70 | | 70 | 70 | |
| 42 | R188 | Shakti Marg | 120 | 120 | 115.6 | | 115.6 | 115.6 | |
| 43 | R40 | Brahma Kumari Marga | 600 | 600 | 600 | | 600 | 600 | |
| 44 | Rani Site C | | | | 97.5 | | 97.5 | 97.5 | |
| 45 | Ranit Site D | | | | 131.45 | | 131.45 | 131.45 | |
| 46 | T3L21 | Moti Marga | | 800 | 570 | 100 | 670 | 670 | |
| 47 | T3L39 | Gaheli Marga | | 600 | 390 | 130 | 520 | 520 | |
| 48 | T2L27 | Bhumi Prashasa n Junction | 120 | 120 | 90 | 30 | 120 | 120 | |

| 49 | T4 Line 1 | Sailesh Marg | 193 | 193 | | 200 | 200 | 200 | | |
|----|----------------|-----------------|-----|-------|----------|------|----------|----------|-----|--|
| 50 | N2 | | | 75.84 | | 80 | 80 | 80 | | |
| 51 | T2 Line 26E | College Road | 150 | 150 | | 150 | 150 | 150 | | |
| 52 | T2 Line 18C | | 105 | 105 | | 100 | 100 | 100 | | |
| 53 | T2Line 18A | Lord Buddha | 94 | 94 | | 94 | 94 | 94 | | |
| 54 | R6 | Shahi Marg | | 800 | | | | | 920 | |
| | Total | | | | 16960.25 | 1244 | 18204.25 | 18204.25 | 920 | |

3.5 ENVIRONMENTAL ASPECT

The environment has been defined to mean surrounding area including human and natural resources to be affected by execution and after completion of works .the Contractor shall take all precautions for safeguarding the environment during the course of the construction of the works. He shall abide by all prevalent laws, rules and regulations governing pollution and environmental protection mitigation measure specified in the latest publication of "Environmental Management Guidelines" published by the GoN and Projects Environmental management plan.

The Contractor shall prohibit employees from unauthorized use of explosives, poaching wildlife and cutting trees. The contractor shall be responsible for the action of his employees. Environmental protection works, among others, shall also include the following.

Borrow/ quarry sites.

The engineer shall have the power to disallow the method of construction and / or the use of borrow or quarry area, if in this opinion, the stability and safety of the works or any adjacent structure is endangered, or there is undue interference with the natural or artificial drainage or the method or use of area will promote undue erosion.

Disposal of Spoil and Construction Waste.

Material excess of the requirements for permanent works and unsuitable materials shall be disposed off in location and in the manner as agreed with the Engineer. The location of disposal site shall be such as not to promote instability, destruction of properties and public service system. Exposed area of such disposal site shall be suitably dressed and be planted with suitable vegetation.

Provision and maintenance of Camps/Office/Stores/Equipment.

Various works defined under this item are related to provision a maintenance camps for work person and employees, Contractor's site office, stores equipment yards and workshops. The camps must be adequate rain roof, Spacious, airy, and hygienic with proper lighting and material storage facilities. The area shall be kept neat and clean etc.

Provision and maintenance of Toilets.

Provision of toilets for labour and employees shall be made to avoid public nuisance as well as pollution of water courses and air. The Contractor shall construct suitable septic tanks and soak pit along with rooms of pit type latrines. Sufficient water must be provided and maintained in the toilets.



Crushing plants.

Crushing plants shall be located away from the population centers, water intakes, and should not disturb the sensitive echo system. Suitable dust control device shall be filled to be the crusher to control emission of dust from the plant etc.

Hot mix plants and Batching plants.

Hot mix plant and batching plant shall be located away from the population centers. The Contractor shall take every precaution to reduce levels of noise, vibration, dust and emission from his plants. No Bituminous material shall be discharged in to drains, nearby trees vegetation, property shall be protected during spray of bitumen etc.

Occupational Health and Safety Measures

The contractor shall provide personnel protective equipment (PPE) (Helmet, Boots, masks, gloves, jacket, protective glasses etc.) to use. Public notification, safety and warning signs and informative signboards in working sites for work safety shall be provided. The DSC engineer and DSC Environmental safeguard expert supervise and monitor the use of PPEs and other necessary safety measures regularly.

The project is environmental improvement project and mainly constitutes works on sewerage and drainage improvement works in BMC besides others. As per ADB guide lines on Environmental Assessment requirements, this project is classified as Environment Category B. According to Environmental Protection Regulation, 2054 BS, First Revised (2055 BS) schedule-3, IEE is required for Operations of Sewerage Schemes under Schedule 1.h.2.e (pertaining to Rule3). The final report on IEE was submitted and MoUD had approved the IEE on May14, 2013.

Installation of functioning sewers and functioning drainage system including roads/lanes improvement in BMC does not possess any adverse environmental impacts to its surrounding. In fact, these will greatly enhance the living conditions/hygiene of the in habitants and facilitate transportation. Nevertheless, it is imperative to look into positive as well as negative impacts of such infrastructure development works in the urban area.

Training and awareness program regarding health, safety and disease at labour camps and yards on 3 and 4 March 2018 by Safety Prevention Officer Er. Dhiraj Sardar.

A regular monitoring visit by DSC was carried out regularly and a standard site specific environmental monitoring checklist was used to record the present status of the project and verified whether or not the EMP is compiled. A sample of environmental checklist is attached herewith as Annex.

3.6 SOCIAL ASPECT

Regional Urban development Project (RUDP) in Biratnagar has implemented to improve the quality of life and help to achieve higher and more socially inclusive economic growth of people through effective, efficient, and reliable delivery of improved and affordable municipal services. Infrastructure development of drainage and sewerage system as well as roads and lane improvement are the major components of RUDP in Biratnagar Metropolitan City (BMC). Establishment and functioning of Social Safeguard Desk in PIU is a major milestone of social development aspect which has been effective to address all social/ community development issues and concerns with active initiation of the DSC. Local labours have been deployed in civil construction works (i.e. in Road side drain / Sub grading works). The Engineer has issued the format of Social Safeguard Monitoring plan which is attached here with.

Safeguard/ GESI Component

Community Awareness:



Conduct regular Community awareness Consultations within Project Areas to build awareness on Project Objectives, Activities and implementation during site observation, Monitoring and Meetings. Different site visit has been conducted during May, 2018 such as DDC Pre cast yard, Chyangbari Naala Biratnagar-16, Asphalt work at Sai Marg, Sewer Line construction work at Hanumandas Road and Asphalt Plant at Rani Site. Except of Minor, no any major conflict has been found during construction work. The visit was conducted jointly with Environment Safeguard Expert and Social Safeguard Expert.

Grievance Redresses Mechanism:

Total Four minor grievances have been registered in the GRC desk during May, 2018. The GRC committee has been addressed immediately registered Grievances and concerns raised by the concerned Stakeholders including Project beneficiaries.

Gender Equity and Social Inclusion (GESI):

Activities related to GESI has been monitored and supervised in all Construction sites. During site visit female workers were found in significant minority numbers at Construction sites, thus Contractor was instructed as follow:

- i. Encourage to Local female Employment as Labor and skilled man power.
- ii. Manage separate Camp and necessary facilities for female workers to encourage of female Employment.

Status of Social and Environmental Safeguard Measures

The present status to this regard has been reported as below:

During the site visit for Socio Environment monitoring by DSC Environmental and Social Safeguard Expert dated 30th May, 2018 and 31st May, 2018 following issues were discovered.

- i. The use of Personal Protection Equipment (PPE) were in very few usage thus the issue was considered unsatisfactory.
- ii. Proper Barricade was not done as well as caution signs and signals were not sufficiently used in Drainage and Sewer work Locations.

Considering above mentioned issues, the Contractor was instructed to use PPE, Barricades and proper signs and signals at working site. The implementation of Social and Environmental Safegurard measures during this month was found partially satisfactory.

Status of Relocation of Services

Relocation of Electric poles was done at R90, Rani and B1 Road. Similarly, relocation of water supply pipe lines were done at various locations at R6, R2, T3 Line 39, T3 Line 21, N2, and R84

Status of Labour at Site

| LABOU R CLASS | SKILLE D | UNSKILLE D | MAL E | FEMAL E | JANJA TI | DALI T | MUSLI M | MADHE SI | BRAHMIN/CHHE TRI |
|---------------------|-------------|---------------|----------|------------|-------------|-----------|------------|-------------|---------------------|
| LOCAL | 111 | 190 | 294 | 7 | 92 | 50 | 0 | 159 | 0 |
| NON | | | | | | | | | |
| LOCAL | 6 | 0 | 6 | 0 | 6 | | | | |
| INDIAN | 14 | 27 | 41 | 0 | 31 | | 10 | | |
| TOTAL | 131 | 217 | 341 | 7 | 129 | 50 | 10 | 159 | 0 |

3.7 FINANCIAL PLAN

The Sub-project cost will be disbursed in three years starting from FY2074/2075 to 2076/2077

3.7.1 DISBURSEMENT RECORDS IN CONSTRUCTION

Table:-5 DISBURSEMENT RECORDS in CONSTRUCTION

| S.No | Description | Submission date | Submitted Amount(NRs) | Remarks |
|------|-------------|-------------------------------|--------------------------|----------------------|
| | | | | |
| 1 | IPC 01 | 15 th October 2017 | 339,105,000.00 | Mobilisation Advance |
| 2 | IPC02 | 2nd April 2018 | 265,347,611.64 | |
| 3 | IPC 03 | 1 st July 2018 | 330,992,079.47 | |

4 OBJECTIVES AND SCOPE OF WORKS

4.1 OBJECTIVES

The following are the expected physical infrastructure improvement outputs of the project in Biratnagar:

- Drainage and sewerage systems improvement.
- Urban roads and lanes improvement.

Reference to the deliverables identified in the Project, indicates that there are a number of deliverables related specifically to the design aspects of the above infrastructure improvements with construction works.

4.2 SCOPE OF WORKS

The scope of works for consultant's services is fairly detailed in the TOR attached with contract Agreement. The main points are summarized below:

- Detailed Design and Procurement Assistance Phase for integrated solid waste management design (ISWM)
- Monthly progress report and quarterly progress report.
- Semi- annual Environmental monitoring report.
- Semi-annual Safeguard monitoring report.
- Annual progress report including annual Environmental / Social safeguard monitoring report, assets.
- Detailed draft final report for our puts, including to assist the PIU (Employer), status of all supervision and construction works issues, all deliverables under the contacts.
- Sub project completion report, and summary of all other reports, progress and issues under the project.

4.3 ORGANIZATION AND STAFFING

Attached

ORGANIZATION CHART RUDP (ADB Loan No- 47252 Site Office, Biratnagar Er. Giresh Chand **Team Leader** Er. H.K. Mandal CSE Expert/Oty Surveyor CSE Er. Rajan Shrestha ACSE/Oty Surveyor Mr.Deepak Majhee Er.Java Prakash Yadav Er. Pravesh Baral Er. Sanjeev Yadav Mr. Arun Yadav Mr.Rajesh Kr. Yadav Ir. Engineer Ir. Engineer Ir. Engineer Ir. Engineer Otv. Surveyor Ir. Engineer **Intermittent Expert** Er. C. Ghimire - Deputy Team Leader Er. Ashok Ratna Tuladhar - I.S.W.M. Expert - Geotechnical Engineer Er. Lokendra Raj K.C. Er. Manohar Rajbhandary - Structural Engineer Mr. Santosh Kr. Yadav - Office Administration/Account Manager Er. Ganesh Kumar Gautam - P. Expert C.M. Specialist - Finance/Economist Dr. Anoop Shresthacharya Mrs.Neera Pradhan - CAD Operator/draft person Er. Dwarika Phuyal - Env. Specialist Mr. Ranjit Kr. Mandal - Receptionist/Co. Mr. P.B. Shrestha - Social Safeguard Er. Yam Nath Dallakoti - Electrical Engineer Ms. Hem Kumari Dahal (Muna Ghimire) - Office Attendant Er. Dhruba Bahadur Basnet - Mechanical Engineer



4.4 CONSULTANT'S ACTIVITIES IN CONSTRUCTION PHASE

The current staffing of the consultant at project site is as follows:

Table 6: CONSULTANT'S STAFF at Project Site, Biratnagar

| SN | Name | Designation | Joining date | Remarks |
|----|---------------------------------|--|--------------------------------|---|
| 1 | Giresh Chand | Team Leader | 6 th Sep 2017 | |
| 2 | Ashok Ratna Tuladhar | ISWM (Designer) | 6 th Sep 2017 | Intermittent |
| 3 | Dwarika Phuyal | Environmental Safeguard Expert | 1 Nov 2017 | Intermittent |
| 4 | Prakash Bhakata Shrestha | Social Safeguard Monitoring Expert | 26 th dec-2017 | Intermittent |
| 5 | Hare Krishna Mandal | Expert/Quantity surveyor | 1 st Nov 2017 | |
| 6 | J.P Yadav | Construction Supervision Engineer | 1 st March 2018 | Discontinued the service since 25 th April, 2018. |
| 7 | A.K Gupta | Construction Supervision Engineer | 1 st March 2018 | |
| 8 | Nishant K.C. | Construction Supervision Engineer | 2 nd April 2018 | Discontinued the service since 1st August, 2018. |
| 9 | Rajan Shrestha | ACSE/Quantity Surveyor | 7 th Nov 2017 | |
| 10 | Rajesh Kumar Yadav | Junior Engineer-1 | 6 th Sep 2017 | |
| 11 | Sanjeev Yadav | Qty Surveyor | 5 th Nov 2017 | |
| 12 | Santosh Kumar Yadav | Office Administration/Account Manager | 6 th Sep 2017 | |
| 13 | Hem Kumari Dahal (Muna Ghimire) | Office Attendant | 6 th Sep 2017 | |
| 14 | Ranjit Kumar Mandal | Receptionist | 10 th Dec 2017 | |
| 15 | Pravesh Baral | Junior Engineer-2 | 10 th Dec 2017 | |
| 16 | J.P Yadav | Junior Engineer-3 | 1 st March 2018 | |
| 17 | Deepak Majhi | Junior Engineer-4 | 1 st March 2018 | |
| 18 | Arun Kumar Yadav | Junior Engineer-5 | 16 th March 2018 | |



| SN | Name | Designation | Joining date | Remarks |
|----|---------------|---------------------------|---------------------------|---------|
| 19 | Neera Pradhan | CAD operator/Draft Person | 10 th Dec 2017 | |
| 20 | Ramji Ghimire | Driver | 1st Dec-2017 | |

The consultant has been constantly supervising the contractor's work in daily basis. The consultant is mainly focusing in construction management, contract administration and the following activities but not limited as listed below:

- i.Daily Construction supervision/Surveying works etc.
- ii.Quality control, cost control and time control
- iii. Measurement and Certification of Interim Payment Certificates (IPC)
- iv. Modification and design of Road side drain, storm drainage and sewer lines, manholes etc. as per site condition and approve working drawings as discussed/advised by employer.
- v. Supervise construction material testing and sampling
- vi. Monitor Environment Management Plan and its compliance
- vii. Monitor Social safeguard and Resettlement Plan and its compliance
- viii. Prepare Due Diligence Report of the Project
- ix. Maintain correspondences with the Employer and the Contractor
- x. Assisting PIU



5 PROGRESS OF SUB - PROJECT COMPONENTS

5.1 CONSTRUCTION MATERIALS.

As per Clause 1.8.2 Engineer has given early notice to the contractor for identification and sample of all construction material before starting any kind of works. Contractor has identified and submitted their requisition for sampling of materials. Sampling works of all construction materials have completed. Team leader has recommended their letter for required tests for authorized organizations. Some test reports have been submitted by the Contractor which has been tested from outside of authorized organization. Engineer has emphasized production of the pre-cast item like (kerb stone, drain cover slab, manhole etc) for better work progress of the project. The Contractor has established two production yards for pre-cast item (kerb stone, drain cover slab, man whole etc.) and production is going on.

The Contractor has informed to borrow RCC NP-3 pipes from Ithari Hume pipe factory or other location and also requested for three Edge bearing test. It will be tested very soon in presence of consultant TL/PIU and contractor representative.

5.2 TL discussed during monthly progress meeting and given guidance for making certain modification and review on submitted work program and QAP. Contractor agreed for review/modification and resubmission on work program / QAP.

5.2 Progress Achieved Till date

| | Target This Month | | Achievement This Month | | Leading | | Lagging | | _ |
|-----------|-------------------|--------------|---------------------------|-------------|---------|--------------|-------------|-----------------|---------|
| Month | Monthl y | Accumula ted | Monthl y | Accumulated | Monthly | Accumula ted | Monthl y | Accum ulated | Remarks |
| May-18 | 5.17% | 24.88% | 4.57% | 22.07% | | | -0.60% | -2.81% | Lagging |
| June-18 | 0.15% | 25.03% | 2.32% | 24.40% | 2.18% | | | -0.63% | Lagging |
| July-18 | 0.15% | 25.17% | 0.78% | 25.18% | 0.63% | 0.01% | | | Leading |
| August-18 | 0.15% | 25.32% | 2.32% | 27.50% | 2.17% | 2.18% | | | Leading |

5.3 Key Events

The consultant has noted the following key dates for the month of August, 2018.

Table 8: KEY DATES of EVENTS / ACTIVITIES

| S. No. | Date | Activities/Events | Remarks |
|-----------|------------------------------|---|---------|
| | Weather Reports | | |
| 1 | Wednesday, August 1, 2018 | Activities Disturbed due to Rainfall | |
| 2 | Thursday, August 30, 2018 | Activities Disturbed due to Rainfall | |
| | Strike | | |
| 3 | Monday, August 30, 2018 | Bandha called by Netra Bikram Chand,Biplap | |
| | Site visits | | |
| 4 | August 19,2018 | Site visit made by Secretary and DG of DUDBC | |



| S. No. | Date | Activities/Events | Remarks |
|-----------|----------------|--|---------|
| 5 | August 22,2018 | Meeting with PMSC held at TL office followed by site visit and meeting with Employer and contractor | |
| 6 | | Officials of Project Implementation Unit(PIU) have conducted frequent visit to the site during the month of August, 2018 | |
| 7 | | Due to Socio Environment Problem, the consultant is not able to process for design of Integrated Solid Waste Management (ISWM) as per discussion. Employer took initiation to solve the problem of ISWM. | |

Weather Reports sourced by:

 $\underline{https://www.timeanddate.com/weather/nepal/biratnagar/historic?month=6\&year=2018}$

Station Located at Biratnagar Airport



6 DETAILS OF PRE CAST ACTIVITIES.

Table 9: PHYSICAL PROGRESS in PRODUCTION OF PRECAST ITEMS till, August, 2018

| | Physical Progress till August 2018 | | | | | | | | | | |
|------|------------------------------------|----|------------|-------------------------------------|------------------------|---------------------------|----------------|--|--|--|--|
| | | | Prog | ress | | | | | | | |
| S.N. | N. Descripti Un | | BoQ | Up to Previous month (RM.) | This Month (RM.) | Total to Date (RM.) | Remarks | | | | |
| 1 | Precast Slab | No | | 29,606.00 | 2,000.00 | 31,606.00 | Under progress | | | | |
| 2 | Kerb Stone | Rm | 147,729.68 | 53,185.00 | 6,100.00 | 59,285.00 | 40.13% | | | | |

Table 10: PHYSICAL PROGRESS in PRODUCTION OF RCC Hume Pipe at Itahari till, August, 2018

| Physical Progress till August- 2018 | | | | | | | |
|-------------------------------------|-------------|------------------|-------------|-------------------------------------|------------------------|---------------------------|---------|
| | | | Progress | | | | |
| S.N. | Description | Diameter (mm) | BoQ (RM) | Up to Previous month (RM.) | This Month (RM.) | Total to Date (RM.) | Remarks |
| 1 | RCC Pipe | 300 | 336.00 | 336.00 | - | 336.00 | |
| 2 | RCC Pipe | 450 | 681.00 | 681.00 | ı | 681.00 | |
| 3 | RCC Pipe | 500 | 842.00 | 842.00 | - | 842.00 | |
| 4 | RCC Pipe | 600 | 382.00 | 382.00 | - | 382.00 | |
| | Total | | | | | | |



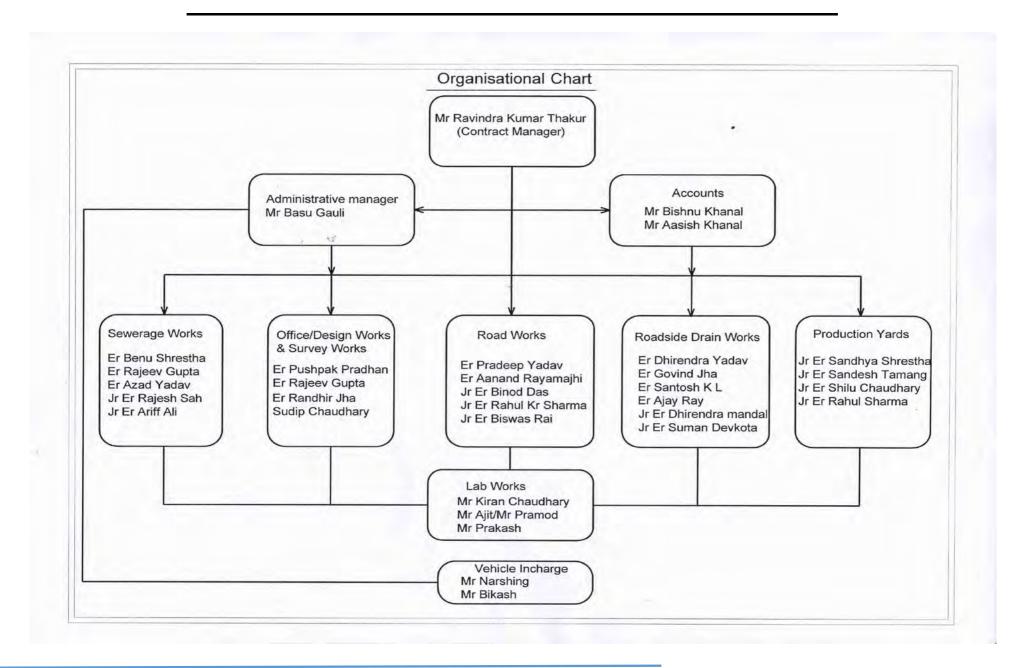
Table 11: PHYSICAL PROGRESS in PRODUCTION OF HDPE Pipe till, August, 2018

| | Physical Progress till August- 2018 | | | | | | | |
|------|-------------------------------------|------------------|-------------|-------------------------------------|------------------------|---------------------------|---------------|--|
| | | | | Progress | | | | |
| S.N. | Description | Diameter (mm) | BoQ (RM) | Up to Previous month (RM.) | This Month (RM.) | Total to Date (RM.) | Remarks | |
| 1 | HDPE Pipe | 110.00 | 1,987.20 | 1,987.20 | - | 1,987.20 | | |
| 2 | HDPE Pipe | 200.00 | 16,656.00 | 10,500.00 | - | 10,500.00 | Under process | |
| 3 | HDPE Pipe | 250.00 | 115.00 | 450.00 | - | 450.00 | | |
| | Total | | | | | | | |

Table 12: PHYSICAL PROGRESS in PRODUCTION OF UPVC Pipe till, August, 2018

| | Physical Progress till August- 2018 | | | | | | | |
|------|-------------------------------------|------------------|-------------|------------------------------------|------------------------|---------------------------|---------|--|
| | | | | Progress | | | | |
| S.N. | Description | Diameter (mm) | BoQ (RM) | Up to Previous month (RM) | This Month (Rm.) | Total to Date (RM.) | Remarks | |
| 1 | UPVC Pipe | 160.00 | 5,050.00 | 4,500.00 | 1 | 4,500.00 | | |
| 2 | UPVC Pipe | 200.00 | 5,050.00 | 4000.00 | - | 4,000.00 | | |







7 CONTRACTOR'S MANPOWER

Table 13: CONTRACTOR'S KEY STAFFS in August, 2018

| S.No | Position | Minimum Number Required as per Contract | ZHONGHENG CONSTRUCTION Group | Remarks |
|------|---|---|------------------------------------|---------|
| 1 | Project/Contract Manager (1 No) 15/10 Yrs (Total/Similar Exp.) | 1 | 1 | |
| 2 | Civil Engineer-10/6 | 2 | 2 | |
| 3 | Sanitary Engineer- (1no.)-12/8 | 1 | - | |
| 4 | Road Engineer- (1no.)-12/8 | 1 | 1 | |
| 5 | Electromechanical Engineer-(1no)-10/5 | 1 | - | |
| 6 | Safety Engineer | - | 1 | |
| 7 | Site Engineer | - | 8 | |
| 8 | Sub- Engineer | - | 18 | |
| 9 | Accountant | - | 2 | |
| 10 | Lab Technician | - | 1 | |
| 11 | Store Keeper | - | 2 | |
| 12 | Vehicle Incharge | - | 2 | |
| 13 | Skilled Labors | | 131 | |
| 14 | Unskilled Labors | | 217 | |



8 CONTRACTOR'S EQUIPMENT

Table 12: CONTRACTOR'S EQUIPMENT

| S.No | Equipment Type and Characteristics | Min Number required as per Contract | ZHONGHENG CONSTRUCTION Group | Remarks |
|------|---|---|------------------------------------|----------------------|
| 1 | Excavator (200 above) | 5 | 1 | Backhoe loader-6nos. |
| 2 | Crane (10 ton capacity) | 3 | - | |
| 3 | Asphalt plant of adequate capacity | 1 | 1 | |
| 4 | Asphalt pavers | 1 | 1 | |
| 5 | Vibrating roller | 2 | 1 | |
| 6 | Pneumatic tyre roller 8 to 10 ton | 2 | 1 | |
| 7 | Smooth wheeled roller 8 to 10 ton | 1 | 3 | |
| 8 | Grader | 1 | 2 | |
| 9 | Track Dozer (120 to 180 HP) | 1 | - | |
| 10 | Bitumen distributor (4 to 6 Kilo litre)- | 1 | 1 | |
| 11 | Water browser (minimum 5000 Litres) | 3 | 4 | |
| 12 | Chips spreader | 1 | - | |
| 13 | Bitumen decanter minimum 4000 Litres. (preheating container) | 2 | 1 | |
| 14 | Air compressor | 2 | 2 | |
| 15 | Tipping Trucks | 15 | 5 | |
| 16 | Service vehicle | 2 | 5 | |
| 17 | Survey equipment (Total station with accessories) | 1 | 1 | |
| 18 | Thedolite | 2 | - | |
| 19 | Levelling | 5 | 14 | |
| 20 | Mobile Generator 15-20 Kva | 3 | 7 | |
| 21 | Mixer Machine | 6 | 7 | |
| 22 | Concrete Batching Plant | 1 | - | |



| S.No | Equipment Type and Characteristics | Min Number required as per Contract | ZHONGHENG CONSTRUCTION Group | Remarks |
|------|------------------------------------|---|------------------------------------|---------|
| 23 | Concrete pump | 1 | - | |
| 24 | Drain cleaner/ Nala cleaner | 2 | - | |
| 25 | Broomer | - | 1 | |
| 26 | Motor Bike | - | 10 | |
| 27 | Plate Compactor | - | 4 | |
| 28 | Water Pump | - | 6 | |

WORK PLAN FOR THE NEXT MONTH

Following are the Contractor's works in the next month program.

- Detail Surveying works at various Road sections.
- Road works
- Precast production works at contractor's yard.
- Side drain works.
- Laying of kerb Stone, cover slab and interlocking tiles.
- Sewer inlet and House Connection works.



ANNEX-1: PHOTOGRAPHS OF AUGUST, 2018





Sewer inlet work at R2



Sewer inlet works at T4 Line 1





Sewer inlet works at R2



Sewer inlet works





TL instructing at T3L23



Drain work at T4 Line 1





Drain works at R12



Drain works at T2Line 18A





Inter locking Tiles at B2



Inter locking Tiles at B2





Kerb stone works at Rani



Discussing with Employer on R2





Relocation of water supply pipes



Joint crushing of cube mould at Lab





Meeting with PMSC at TL Office, Biratnagar.



ANNEX-2: MINUTES OF MEETING AUGUST, 2018

Building Design Authority (P) Ltd



B.N.ConsultancyPvt. Ltd and Plus Engineers & architects (P) Ltd, Kathmandu, Nepal REGIONAL URBAN DEVELOPMENT POJECT (RUDP), ADB Loan No: 47252

Biratnagar Metropolitan city, Biratnagar

MINUTES OF MEETING NO. - 15

Contract: RUDP/ICB/BRT- 02

Date: August 22, 2018

Time: 2:30 PM

Venue: TL Office, Biratnagar

Attendance

Consultant: PMSC

1. Mr. Yagya Bahadur Malla , Road Engineer

- 2. Mr. Mukunda N. Bhaidya, Drainage and Sanitation Engineer
- 3. Mr. Pitamber Rawal Chettri, Monitoring and Evaluation Expert
- 4. Mr Prakash Panday, GESI and Social Development Expert

Consultant: DSC

- 1. Mr. Giresh Chand, Team Leader
- 2. Mr. H K Mandal, Expert/Quantity Surveyor
- 3. Mr. Rajan Shrestha, Engineer/ Quantity Surveyor
- 4. Mr. Deepak Majhee, Jr. Engineer

TL welcomed all participants in the meeting. Following matters were discussed and decided:

| S.N. | Minutes | Action by |
|------|--|------------------|
| 1. | TL, Mr. Chand briefed about the present status of the project as follows: 1) Road – 14.2 Km (Asphalt completed) against target 73.8 Km 2) Road Side Drain- 17.8 Km completed against target 26.05 Km 3) Sewer Line- 8.2 Km against target 20.08 Km 4) Storm Water Drain- 560 m against target 585 m (Revised length) The progress upto 21 August 2018 is 27.35 % against the target of 25.32 % i.e, lead by 2.03%. He further said that the contractor can complete the work in stipulated time if the problem of RoW is cleared. | Employer/ DSC |



Building Design Authority (P) Ltd



B.N.ConsultancyPvt. Ltd and Plus Enguacers & architects (P) Ltd, Kathmandu, Nepal REGIONAL URBAN DEVELOPMENT PROJECT (RUDP), ADB Loan No: 47252

Biratnagar Metropolitan city, Biratnagar

| 2. | PMSC appreciated the Monthly Progress Report (MPR) submitted and suggested to further incorporate followings details to make more informative; Relocation of water supply pipes, electric poles, telephone lines, footpath, capacity building trainings, equal wage payment, IPC | |
|----|--|---------------------------------|
| | submission/Recommendation date, etc TL made clear about all above issues and further agreed to incorporate in incoming MPR as stated. | PMSC/DSC |
| 3. | TL informed that the process of subcontracting is under process as per contract. Regarding manhole, the manhole level is kept to the level of subbase previously anticipating the smooth flow of traffic but now they have been raised as per design. | DSC/ Contractor |
| | PMSC agreed on the same. | |
| 4. | PMSC enquired about the further problems during the work at site. | |
| | TL informed that due to Socio Environmental problem, the design of Integrated Solid Waste Management (ISWM) could not be submitted as per ToR which have already been informed to the Employer (PIU) verbally as well as written. He further informed that the inception report and Stalk holders Analysis, Communication Strategy and Consultation Plan for ISWM have already been submitted. | Employer/ DSC/ Contractor |
| | He also informed the problem of RoW and shut down problem from NEA are hindering to complete the work in stipulated time. | |
| 5. | Finally, the meeting was concluded with joint visit to the site and hold meeting with the employer and the contractor next day (23 rd August 2018 @ 4:00 PM) | PMSC/DSC |



Date: 22-Aug-18

Venue: TL office, Birat

| S.N. | Name | Designation | Organization | Signature |
|------|--|------------------|--------------|-----------|
| 1 | Gibesh Chand | TL | BDA | 8=- |
| 2 | yagya malla | Road Sugine | PMC/RUDP | Janel 4 |
| 3 | Yagya Malla Peterober Rawal Cheller | M& E expert | PMC | Paletts |
| 4 | Mekende N. Baity | 1 Rainge En | /1 | the |
| 5 | Mukeude a. Baiga Brakash Panday | GESI & Social De | , pmc/Rupp | make |
| 6 | Rajan shoesty | Engineer | DSC/BDA | dial |
| 7 | Have Krighma manday | Company of Swage | | Howard- |
| 8 | Deepar Mayhee | fr. Ergoneer | RDA | Deepare |
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| 13 | | | | |
| 14 | 37 | | | |
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| 16 | | | | |
| 17 | | | | |
| 18 | | | | |
| 19 | | | | |
| 20 | | | | |
| 21 | | | | |



ANNEX-3: LABORATORY TEST RESULTS OF AUGUST, 2018 Attached



REGIONAL URBAN DEVELOPMENT PROJECT

Biratnagar Metropolitan City Contract No:- RUDP/ICB/BRT-02 Summary Sheet of Concrete CubeTest Report

| | | | | | 20 | | | Month Year | | | gust 18 |
|------|--------------------|-------------|-------------------|----------------------|--------------------------------|------------------------|-----------|----------------|---------|----------|------------|
| | | | | Lis. | | | T | ype of Materia | 1 | Conc. | Cube |
| S.N. | Location | Lab Ref.no. | Type of Cement | Brand of Cemen | Source of Sand+Agg. | Date of Casting | Date | of Testing | Strengt | h, N/mm2 | Concre |
| 46 | 17.0 | | | t | 128 | Casting | 7 Days | 28 Days | 7 Days | 28 Days | Grade |
| 36 | Madhumara Yard | RUDP-602 | Salimar | OPC | Chisang Khola | 16-Jul-18 | 23-Jul-18 | 13-Aug-18 | | (32:81 | M30 |
| 37 | R-6 | RUDP-603 | Salimar | OPC | Chisang Khola | 17-Jul-18 | 24-Jul-18 | 14-Aug-18 | | (21.07 | M20 |
| 38 | DDC Yard | RUDP-604 | Salimar | OPC | Chisang Khola | 17-Jul-18 | 24-Jul-18 | 14-Aug-18 | | (22.73 | M20 |
| 39 | R-11 | RUDP-605 | Salimar | OPC | Chisang Khola | 17-Jul-18 | 24-Jul-18 | 14-Aug-18 | | (21.98 | M20 |
| 40 | R-21 | RUDP-606 | Salimar | OPC | Chisang Khola | 17-Jul-18 | 24-Jul-18 | 14-Aug-18 | | 22,13 | M20 |
| 41 | R-2 (Branch Roaad) | RUDP-607 | Salimar | OPC | Chisang Khola | 17-Jul-18 | 24-Jul-18 | 14-Aug-18 | | /23:03 | M20 |
| 42 | Madhumara Yard | RUDP-608 | Salimar | OPC | Chisang Khola | 18-Jul-18 | 25-Jul-18 | 15-Aug-18 | | | 13.5 |
| 43 | DDC Yard | RUDP-609 | Salimar | OPC | Chisang Khola | 18-Jul-18 | 25-Jul-18 | 15-Aug-18 | | (32,74 | M30 |
| 44 | R-21 | RUDP-610 | Salimar | OPC | Chisang Khola | 19-Jul-18 | 26-Jul-18 | 16-Aug-18 | - | (32.66 | M30 |
| 45 | R-2 (Branch Roaad) | RUDP-611 | Salimar | OPC | Chisang Khola | 19-Jul-18 | 26-Jul-18 | 16-Aug-18 | - | Z23-56 | M20 |
| 46 | R-11 | RUDP-612 | Salimar | OPC | Chisang Khola | 20-Jul-18 | 27-Jul-18 | 17-Aug-18 | | (23:63 | M20 |
| 47 | Cn2Cn3 | RUDP-613 | Salimar | OPC | Chisang Khola | 21-Jul-18 | 28-Jul-18 | | | 21.90 | M20 |
| 48 | DDC Yard | RUDP-614 | Salimar | OPC | Chisang Khola | 22-Jul-18 | 29-Jul-18 | 18-Aug-18 | | (23:86 | M20 |
| 49 | N-2 | RUDP-615 | Salimar | OPC | Chisang Khola | 23-Jul-18 | | 19-Aug-18 | | (2)67 | M20 |
| 50 | R-6 | RUDP-616 | Salimar | OPC | Chisang Khola | 23-Jul-18 | 30-Jul-18 | 20-Aug-18 | | (23:48 | M20 |
| 51 | R-11 | RUDP-617 | Salimar | OPC | Chisang Khola | 23-Jul-18 23-Jul-18 | 30-Jul-18 | 20-Aug-18 | | 22,95 | M20 |
| 52 | R-6 | RUDP-618 | Salimar | OPC | Chisang Khola | | 30-Jul-18 | 20-Aug-18 | | 22:28 | M20 |
| 53 | R-6 | RUDP-619 | Salimar | OPC | Chisang Khola | 24-Jul-18 | 31-Jul-18 | 21-Aug-18 | | 124.01 | M20 |
| 54 | R-11 | RUDP-620 | Salimar | OPC | | 24-Jul-18 | 31-Jul-18 | 21-Aug-18 | | (23.78 | M20 |
| 55 | DDC Yard | RUDP-621 | Salimar | | Chisang Khola | 24-Jul-18 | 31-Jul-18 | 21-Aug-18 | 1 | (25.93 | M20 |
| 56 | DDC Yard | RUDP-622 | Salimar | | Chisang Khola Chisang Khola | 1-Aug-18 | 8-Aug-18 | 29-Aug-18 | (15,59 | (21.90 | M20 |
| 57 | Madhumara Yard | RUDP-623 | Salimar | | Chisang Khola | 1-Aug-18 | 8-Aug-18 | 29-Aug-18 | 622.05 | (32.81 | M30 |
| 58 | R-6 | RUDP-624 | Salimar | | | 1-Aug-18 | 8-Aug-18 | 29-Aug-18 | (21.52 | 131155 | M30 |
| 59 | Madhumara Yard | RUDP-625 | Salimar | | Chisang Khola | 2-Aug-18 | 9-Aug-18 | 30-Aug-18 | [15:37] | (22,35 | M20 |
| 60 | DDC Yard | RUDP-626 | Salimar | | Chisang Khola | 2-Aug-18 | 9-Aug-18 | 30-Aug-18 | (21:22 | (33.57 | M30 |
| 61 | R-6 | RUDP-627 | Salimar | | Chisang Khola | 2-Aug-18 | 9-Aug-18 | 30-Aug-18 | (21:07 | (32.38 | M30 |
| 62 | R-6 | RUDP-628 | Salimar | | Chisang Khola | 2-Aug-18 | 9-Aug-18 | 30-Aug-18 | (12.12 | (16.41 | M15 |
| 63 | N-2 | RUDP-629 | Salimar | - | Chisang Khola Chisang Khola | 3-Aug-18 | 10-Aug-18 | 31-Aug-18 | (11,97- | (16.48 | M15 |
| 64 | DDC Yard | RUDP-630 | Salimar | | Chisang Khola | 3-Aug-18 | 10-Aug-18 | 31-Aug-18 | (16.93 | (22,65 | M20 |
| 65 | R-6 | RUDP-631 | Salimar | | | 3-Aug-18 | 10-Aug-18 | 31-Aug-18 | (15.66 | (23.03 | M20 |
| 66 | R-6 | RUDP-632 | Salimar | 100000 | Chisang Khola | 3-Aug-18 | 10-Aug-18 | 31-Aug-18 | | (22,95 | M20. |
| 67 | R-6 | RUDP-633 | | | Chisang Khola | 3-Aug-18 | 10-Aug-18 | 37-Aug-18 | (12.49- | 17.08 | M15 |
| 68 | R-6 | | Salimar | | Chisang Khola | 4-Aug-18 | 11-Aug-18 | 1-Sep-18 | CH:30 | | MES |
| 70 | DDC Yard | RUDP-634 | Salimar | | Chisang Khola | 4-Aug-18 | 11 Ang-18 | | (15.89 | | M20. |
| 71 | DDC Yard | RUDP-635 | Salimar | | Chisang Khola | 4-Aug-18 | 11-Aug-18 | 1-Sep-18 | (21.22 | | M30 |
| | | RUDP-636 | Salimar | OPC (| Chisang Khola | 5-Aug-18 | 12-Aug-18 | 2-Sep-18 | (15.37 | | M20 |
| _ | Con | tractor | | | | | Consul | tant | | | |

ZHONGWENG CONSTRUCTION GROUP INTERNATIONAL ENGINEERING CO. LTD

BUILDING DESIGN AUTHORITY (P) LTD IN JOINT VENTURE WITH B.N. CONSULTANCY PVT. LTD AND PLUS ENGINEERS & ARCHITECTS (P) LTD, KATHMANDU, NEPAL

Hadhan

Checked By Engineer

Submitted By

Verified By Contract Manager Qty Engineer/CSE

Approved By

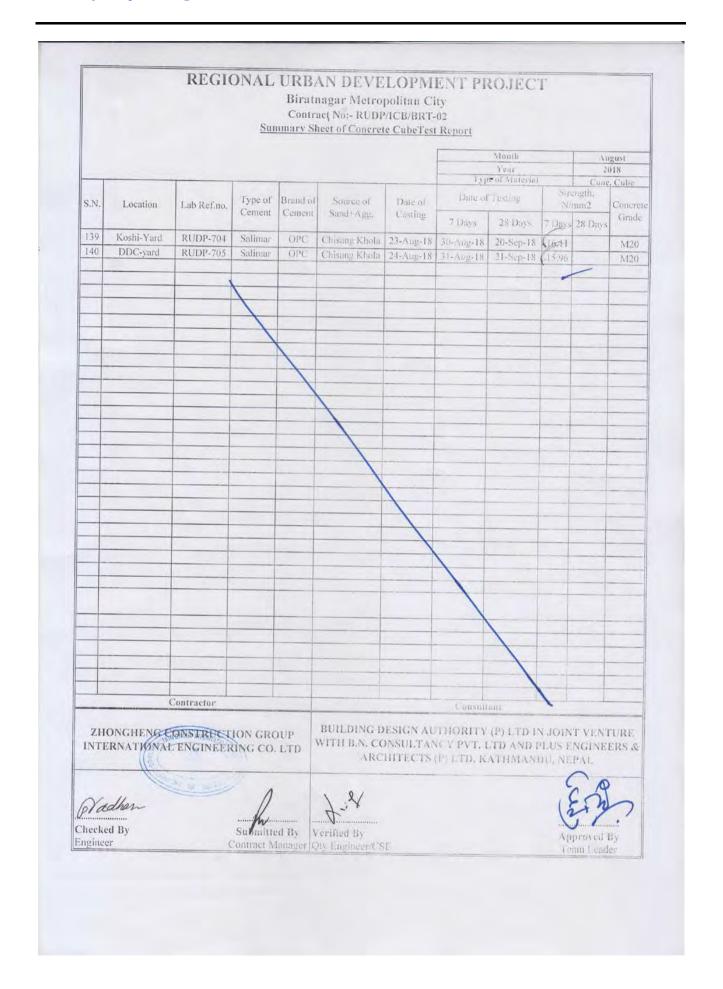


| | | REGIC | | Biratn Contra | AN DEVE agar Metrop ct No:- RUDP/ ect of Concrete | olitan Ci | ty 02 | OJECT | | | |
|-------|-------------------------------|-------------|-------------------|------------------|--|-----------|---------------------|----------------------|---------|----------|--------------|
| | | | | | | | | Month | _ | T A1 | igust |
| | | | | | | | | Year | - | | 018 |
| | | | - | _ | _ | | Ty | pe of Materia | 1 | | . Cube |
| S.N. | Location | Lab Ref.no. | Type of Cement | Brand of | Source of Sand+Agg, | Date of | Date o | fTesting | Strengt | h, N/mm2 | |
| 70 | | | | Cement | Sand Agg, | Casting | 7 Days | 28 Days | 7 Days | 28 Days | Grade |
| 72 | R-2 | RUDP-637 | Salimar | OPC | Chisang Khola | 5-Aug-18 | 12-Aug-18 | 2-Sep-18 | (16.41 | | M20 |
| 73 | R-6 | RUDP-638 | Salimar | OPC | Chisang Khola | 5-Aug-18 | 12-Aug-18 | 2-Sep-18 | (12.35 | | MI5 |
| 74 | Madhumara Yard | RUDP-639 | Salimar | OPC | Chisang Khola | | 12-Aug-18 | 2-Sep-18 | (22-13 | | |
| 75 | N-4 | RUDP-640 | Salimar | OPC | Chisang Khola | | 12-Aug-18 | 2-Sep-18 | (14.99 | | M30 |
| 76 | R-6 | RUDP-641 | Salimar | OPC | Chisang Khola | 6-Aug-18 | 13-Aug-18 | 3-Sep-18 | - | | M20 |
| 77 | DDC-Yard | RUDP-642 | Salimar | OPC | Chisang Khola | | | | (11.30 | | M15 |
| 78 | Madhumara Yard | RUDP-643 | Salimar | OPC | | 6-Aug-18 | 13-Aug-18 | 3-Sep-18 | (15.22 | | M20 |
| 79 | Madhumara Yard | RUDP-644 | | | Chisang Khola | 6-Aug-18 | 13-Aug-18 | 3-Sep-18 | 21.52 | | M30 |
| 80 | DDC-Yard | RUDP-645 | Salimar | OPC | Chisang Khola | 6-Aug-18 | 13-Aug-18 | 3-Sep-18 | (21.90 | | M30 |
| 81 | DDC-Yard | | Salimar | OPC | Chisang Khola | 7-Aug-18 | 14-Aug-18 | 4-Sep-18 | (22.80 | | M30 |
| 82 | | RUDP-646 | Salimar | OPC | Chisang Khola | 7-Aug-18 | 14-Aug-18 | 4-Sep-18 | 15.14 | | M20 |
| - | R-6 | RUDP-647 | Salimar | OPC | Chisang Khola | 7-Aug-18 | 14-Aug-18 | 4-Sep-18 | 01.75 | _ | M15 |
| 83 | R-74 | RUDP-648 | Salimar | OPC | Chisang Khola | 7-Aug-18 | 14-Aug-18 | 4-Sep-18 | 15.07 | | M20 |
| 84 | R-6 | RUDP-649 | Salimar | OPC | Chisang Khola | 8-Aug-18 | 15-Aug-18 | 5-Sep-18 | 12.64 | | M15 |
| 85 | T2L26E | RUDP-650 | Salimar | OPC | Chisang Khola | 8-Aug-18 | 15-Aug-18 | 5-Sep-18 | (1626 | | |
| 86 | T31.23 | RUDP-651 | Salimar | OPC | Chisang Khola | 8-Aug-18 | 15-Aug-18 | 5-Sep-18 | (15.37 | | M20 |
| 87 | Madhumara Yard | RUDP-652 | Salimar | OPC. | Chisang Khola | 8-Aug-18 | 15-Aug-18 | | | | M20 |
| 88 | Madhumara Yard | RUDP-653 | Salimar | OPC | Chisang Khola | 8-Aug-18 | | 5-Sep-18 | (21.75 | | M30 |
| 89 | T2L26E | RUDP-654 | Salimar | OPC | Chisang Khola | | 15-Aug-18 | 5-Sep-18 | 22.50 | | M30 |
| 90 | R-74 | RUDP-655 | Salimar | OPC | | 9-Aug-18 | 16-Aug-18 | 6-Sep-18 | 15.96 | | M20 |
| 91 | R-6 | RUDP-656 | Salimar | OPC | Chisang Khola | 9-Aug-18 | 16-Aug-18 | 6-Sep-18 | (14.55 | | M20 |
| 92 | DDC-Yard | RUDP-657 | Salimar | | Chisang Khola | 9-Aug-18 | 16-Aug-18 | 6-Sep-18- | 11.68 | | M15 |
| 93 | DDC-Yard | RUDP-658 | | OPC | Chisang Khola | 9-Aug-18 | 16-Aug-18 | 6-Sep-18 | (14.62- | | M20 |
| 94 | R-2(Branch Road) | | Salimar | OPC | Chisang Khola | 9-Aug-18 | 16-Aug-18 | 6-Sep-18 | (21.60 | + | M30 |
| 95 | Madhumara Yard | RUDP-659 | Salimar | OPC | Chisang Khola | 9-Aug-18 | 16-Aug-18 | 6-Sep-18 | (14.02 | | M20 |
| | | RUDP-660 | Salimar | OPC | Chisang Khola | 10-Aug-18 | 17-Aug-18 | 7-Sep-18 | (22.13 | | M30 |
| 96 | DDC-Yard | RUDP-661 | Salimar | OPC | Chisang Khola | 10-Aug-18 | 17-Aug-18 | 7-Sep-18 | 22.35 | | M30 |
| 97 | R-6 | RUDP-662 | Salimar | OPC | Chisang Khola | 10-Aug-18 | 17-Aug-18 | 7-Sep-18 [| 12.61 | | M15 |
| 98 | R-2 | RUDP-663 | Salimar | OPC | Chisang Khola | 10-Aug-18 | 17-Aug-18 | 7-Sep-18 | (16.04 | | M20 |
| 99 | R-6 | RUDP-664 | Salimar | OPC | | 11-Aug-18 | 18-Aug-18 | 8-Sep-18 | (12.49 | | M15 |
| 00 | R-74 | RUDP-665 | Salimar | OPC | | 12-Aug-18 | 19-Aug-18 | 9-Sep-18 | (15.14 | | M20 |
| 01 | T2L18A | RUDP-666 | Salimar | OPC | Chisang Khola | 12-Aug-18 | 19-Aug-18 | 9-Sep-18 | 14:47 | | M20 |
| 02 | DDC-Yard | RUDP-667 | Salimar | OPC | Chisang Khola | 13-Aug-18 | - | 10-Sep-18 | 7 | | |
| 03 | R-6 | RUDP-668 | Salimar | OPC | | 15-Aug-18 | 22-Aug-18 | | (15.22 | | M20 |
| 04 | T3L39 | RUDP-669 | Salimar | | | | | 12-Sep-18 | (11.97 | | M15 |
| 05 | R-6 | RUDP-670 | Salimar | | | | 22-Aug-18 | 12-Sep-18 | 14.84 | | M20 |
| | | ntractor | Distribut. | OI C | Crissing Knota | 13-Aug-18 | 22-Aug-18 Consul | | 111.68 | | M15 |
| IN' | CHONGHENG CO TERNATIONAL I | NSTRUCTIC | N GROUNG CO. L | P TD | BUILDING I WITH B.N. CO | ONSULTA | UTHORITY | (P) LTD I LTD AND | PLUS E | NGINEE | URE CRS & |
| hecke | ed By | | Submitte | | /erified By Oty Engineer/CS | | | | An | Proved E | |



| | | REGIO | | Biratn Contra | N DEVEL agar Metrop ct No:- RUDP/ cet of Concrete | olitan City ICB/BRT-0 | y 2 | OJECT | | | |
|------------------|-------------------------------|-------------|---------------------|------------------|--|--------------------------|-------------------------------------|---------------|---------|----------------|--|
| | | | | | | | | Month | - | 1 4. | and the same of th |
| | | | | | | | | Year | | August 2018 | |
| | | _ | | _ | | | Tay | ne of Materia | | | . Cube |
| Care. | | | 70 | Brand | | | Dota | f Testing | Str | ength, | Cuin |
| S.N. | Location | Lab Ref.no. | Type of Cement | of Cement | Source of Sand+Agg, | Date of Casting | 7 Days | 28 Days | | mm2 28 Days | Concret Grade |
| 106 | R-12 | RUDP-671 | Salimar | OPC | Chisang Khola | 15 Aug 10 | | | 1 | 20 Days | |
| 107 | DDC-yard | RUDP-672 | Salimar | OPC | | | | | (14.69 | | M20 |
| 108 | DDC-yard | RUDP-673 | Salimar | OPC | Chisang Khola | | - | | 15,52 | | M20 |
| 109 | Madhumara Yard | RUDP-674 | Salimar | OPC | Chisang Khola | | 22-Aug-18 | | (22.20 | | M30 |
| 110 | R-12 | RUDP-675 | Salimar | | Chisang Khola | | 22-Aug-18 | 12-Sep-18 | 22.88 | | M30 |
| 111 | R-6 | | | OPC | Chisang Khola | - | 22-Aug-18 | 12-Sep-18 | (15.07 | | M20 |
| | | RUDP-676 | Salimar | OPC | Chisang Khola | | 23-Aug-18 | 13-Sep-18 | (12.05 | | M15 |
| 112 | R-12 | RUDP-677 | Salimar | OPC | Chisang Khola | | 23-Aug-18 | 13-Sep-18 | 16.34 | | M20 |
| 113 | R-2 | RUDP-678 | Salimar | OPC | Chisang Khola | 16-Aug-18 | 23-Aug-18 | 13-Sep-18 | 14.69 | | M20 |
| 114 | Madhumara Yard | RUDP-679 | Salimar | OPC | Chisang Khola | | 23-Aug-18 | | (21.90 | | M30 |
| 115 | DDC-yard | RUDP-680 | Salimar | OPC | Chisang Khola | 16-Aug-18 | 23-Aug-18 | | (22.95 | | M30 |
| 116 | R-6 | RUDP-681 | Salimar | OPC | Chisang Khola | 17-Aug-18 | 24-Aug-18 | 14-Sep-18 | (12.57 | | MI5 |
| 117 | T3L21 | RUDP-682 | Salimar | OPC | Chisang Khola | 17-Aug-18 | 24-Aug-18 | 14-Sep-18 | 16:48 | | M20 |
| 118 | DDC-yard | RUDP-683 | Salimar | OPC | Chisang Khola | 17-Aug-18 | 24-Aug-18 | 14-Sep-18 | 15.14 | | M20 |
| 119 | Madhumara-yard | RUDP-684 | Salimar | OPC | Chisang Khola | 18-Aug-18 | 25-Aug-18 | 15-Sep-18 | (22.28 | | |
| 120 | Madhumara-yard | RUDP-685 | Salimar | OPC | Chisang Khola | | 25-Aug-18 | 100000000 | (23.10 | | M30 |
| 121 | T3L39 | RUDP-686 | Salimar | OPC | Chisang Khola | 18-Aug-18 | 25-Aug-18 | 15-Sep-18 | (15:44 | | M30 |
| 122 | R-74 | RUDP-687 | Salimar | OPC | Chisang Khola | 18-Aug-18 | 25-Aug-18 | 15-Sep-18 | 14.69 | | M20 |
| 123 | R-12 | RUDP-688 | Salimar | OPC | Chisang Khola | 18-Aug-18 | 25-Aug-18 | | (15,52 | | M20 |
| 124 | T3L18B | RUDP-689 | Salimar | OPC | Chisang Khola | 19-Aug-18 | 26-Aug-18 | 16-Sep-18 | - | | M20 |
| 125 | R-74 | RUDP-690 | Salimar | OPC | Chisang Khola | | 26-Aug-18 | 16-Sep-18 | (14.69 | - | M20 |
| 126 | R-6 | RUDP-691 | Salimar | OPC | Chisang Khola | | 26-Aug-18 | 16-Sep-18 | 15.07 | | M20 |
| 127 | DDC-yard | RUDP-692 | Salimar | OPC | Chisang Khola | | | | 11.68 | | M15 |
| 128 | DDC-yard | RUDP-693 | Salimar | OPC | Chisang Khola | 19-Aug-18 | 26-Aug-18 | 16-Sep-18 | 16.11 | | M20 |
| 129 | T3L26E | RUDP-694 | Salimar | OPC | Chisang Khola | | 26-Aug-18 | 16-Sep-18 | (21.52 | | M30 |
| 130 | Koshi-Yard | RUDP-695 | Salimar | OPC | Chisang Khola | 20-Aug-18 | 27-Aug-18 | 17-Sep-18 | (15.74 | | M20 |
| 131 | R-12 | RUDP-696 | Salimar | OPC | Chisang Khola | 20-Aug-18 | 27-Aug-18 | 17-Sep-18 | 14.77 | | M20 |
| 132 | R-74 | RUDP-697 | Salimar | OPC | | 200 | 28-Aug-18 | 18-Sep-18 | 115:07 | | M20 |
| | R-2 (Branch Road) | RUDP-698 | Salimar | OPC | Chisang Khola Chisang Khola | | 28-Aug-18 | 18-Sep-18 | 16.19 | | M20 |
| 134 | T3L18A | RUDP-699 | Salimar | OPC | - | 0 10 | 28-Aug-18 | | 15.29 | | M20 |
| 135 | Madhumara-yard | RUDP-700 | Salimar | OPC | | | 28-Aug-18 | | (16.11- | | M20 |
| 136 | DDC-yard | | Salimar | | Chisang Khola | 21-Aug-18 | | | (22.20 | | M30 |
| 137 | | RUDP-701 | | OPC | Chisang Khola | 21-Aug-18 | 28-Aug-18 | 18-Sep-18 | 21.52 | | M30 |
| 138 | Madhumara-yard | RUDP-702 | Salimar | OPC | Chisang Khola | | 30-Aug-18 | | 22.20 | | M30 |
| 120 | DDC-yard | RUDP-703 | Salimar | OPC | Chisang Khola | 23-Aug-18 | 30-Aug-18 | 20-Sep-18 | (15.07 | | M20 |
| _ | ei . | - | | | | | | | | | |
| | Co | ntractor | | | | | Consult | ant | | | |
| IN | CHONGHENG CO TERNATIONAL I | ENGINEERI | ON GROU NG CO. L | P TD | BUILDING I WITH B.N. CO ARC | ONSULTAN | THORITY NCY PVT. I (P) LTD, K | TD AND I | LUS E | NGINE | TURE ERS & |
| heck | dhon | | h | / / | f-ne | | | | | 379 | 2 |
| Checke Engine | ed By | w S | Submitte | | Verified By Qty Engineer/Cs | | (P) LTD, K | ATHMANI | DU, | Ap | Approved I Team Lead |







| | | | Sum | | et No:- RUDP/I | | | | | | |
|------|-----------------------|-------------|-------------------|--------------------|--|------------------------|------------------------|----------------------------------|----------|---------|------------|
| | | | | | | | | Month | | Aus | gust |
| | | | | | | | | Year | | | 18 |
| | | | - | | | | Ty | pe of Materia | | Cone. | Cube |
| S.N. | Location | Lab Ref.no. | Type of Cement | Brand of Cement | Source of Sand+Agg, | Date of Casting | Date o | f Testing | Strength | , N/mm2 | Conc |
| 1 | T21 20 | DAMES AND | 6.0 | | | Samuel | 7 Days | 28 Days | 7 Days | 28 Days | Grad |
| - | T3L39 | RUDP-568 | Salimar | OPC | Chisang Khola | 4-Jul-18 | 11-Jul-18 | 1-Aug-18 | | (20,40 | M20 |
| 2 | Madhumara Yard | RUDP-569 | Salimar | OPC | Chisang Khola | 4-Jul-18 | 11-Jul-18 | 1-Aug-18 | / | 733.67 | M30 |
| 3 | T3L21 | RUDP-570 | Salimar | OPC | Chisang Khola | 4-Jul-18 | 11-Jul-18 | 1-Aug-18 | | (21.45 | M20 |
| 4 | R-6 | RUDP-571 | Salimar | OPC | Chisang Khola | 5-Jul-18 | 12-Jul-18 | 2-Aug-18 | | 17.54 | M15 |
| 5 | R-6 | RUDP-572 | Salimar | OPC | Chisang Khola | 5-Jul-18 | 12-Jul-18 | 2-Aug-18 | | C17.84 | M15 |
| 6 | DDC Yard | RUDP-573 | Salimar | OPC | Chisang Khola | 5-Jul-18 | 12-Jul-18 | 2-Aug-18 | | 22.28 | M20 |
| 7 | Rani-Site | RUDP-574 | Salimar | OPC | Chisang Khola | 5-Jul-18 | 12-Jul-18 | 2-Aug-18 | | 21.98 | M20 |
| .8 | R-2 | RUDP-575 | Salimar | OPC | Chisang Khola | 5-Jul-18 | 12-Jul-18 | 2-Aug-18 | | 21,83 | M20 |
| 9 | T3L21 | RUDP-576 | Salimar | OPC | Chisang Khola | 5-Jul-18 | 12-Jul-18 | 2-Aug-18 | | 122:05 | M20 |
| 10 | R-2 | RUDP-577 | Salimar | OPC | Chisang Khola | 6-Jul-18 | 13-Jul-18 | 3-Aug-18 | | 21.67 | M20 |
| 11 | R-40 | RUDP-578 | Salimar | OPC | Chisang Khola | 6-Jul-18 | 13-Jul-18 | 3-Aug-18 | | (21.90 | M20 |
| 12 | R-7 | RUDP-579 | Salimar | OPC | Chisang Khola | 6-Jul-18 | 13-Jul-18 | 3-Aug-18 | | (21.45 | M20 |
| 13. | R-2 | RUDP-580 | Salimar | OPC | Chisang Khola | 8-Jul-18 | 15-Jul-18 | 5-Aug-18 | | 21.22 | M20 |
| 14. | R-2 | RUDP-581 | Salimar | OPC | Chisang Khola | 9-Jul-18 | 16-Jul-18 | 6-Aug-18 | | 22.28 | M20 |
| 15 | R-6 | RUDP-582 | Salimar | OPC | Chisang Khola | 9-Jul-18 | 16-Jul-18 | 6-Aug-18 | | 17.91 | |
| 16 | DDC Yard | RUDP-583 | Salimar | OPC | Chisang Khola | 9-Jul-18 | 16-Jul-18 | 6-Aug-18 | | | M15 |
| 17 | Madhumara Yard | RUDP-584 | Salimar | OPC | Chisang Khola | 9-Jul-18 | 16-Jul-18 | | | (32,80 | M30 |
| 18 | Madhumara Yard | RUDP-585 | Salimar | OPC | Chisang Khola | | | 6-Aug-18 | | (32.74 | M30 |
| 19 | Rani-Site | RUDP-586 | Salimar | 1000 | | 9-Jul-18 | 16-Jul-18 | 6-Aug-18 | | (34.64 | M30 |
| 20 | R-2 (Branch Roaad) | RUDP-587 | Salimar | OPC OPC | Chisang Khola Chisang Khola | 10-Jul-18 | 17-Jul-18 17-Jul-18 | 7-Aug-18 7-Aug-18 | | 22.13 | M20 M20 |
| 21 | Madhumara Yard | RUDP-588 | Salimar | OPC | Chisang Khola | 10-Jul-18 | 17-Jul-18 | 7-Aug-18 | | 22.65 | Lina |
| 22 | R-2 | RUDP-589 | Salimar | OPC | The state of the s | | | | | 34.54 | M30 |
| 23 | R-6 | RUDP-590 | Salimar | OPC | Chisang Khola Chisang Khola | 11-Jul-18 | 18-Jul-18 | 8-Aug-18 | - | 23.18 | M20 |
| 24 | R-6 | RUDP-591 | Salimar | | Chisang Khola | 11-Jul-18 | 18-Jul-18 | 8-Aug-18 | - 1 | 24.23 | M20 |
| 25 | R-21 | RUDP-592 | Salimar | OPC | Chisang Khola | 12-Jul-18 12-Jul-18 | 19-Jul-18 | 9-Aug-18 | - 1 | 18.61 | M15 |
| 26 | Madhumara Yard | RUDP-593 | Salimar | | Chisang Khola | T-100 | 19-Jul-18 | 9-Aug-18 | (| 23.93 | M20 |
| 27 | R-6 | RUDP-594 | Salimar | | | 12-Jul-18 | 19-Jul-18 | 9-Aug-18 | (| 35.40 | M30 |
| 28 | Rani-Site | | | | Chisang Khola | 12-Jul-18 | 19-Jul-18 | 9-Aug-18 | 1 | 23.48 | M20 |
| | | RUDP-595 | Salimar | | Chisang Khola | 12-Jul-18 | 19-Jul-18 | 9-Aug-18 | | 23.41 | M20 |
| 29 | R-2 | RUDP-596 | Salimar | | Chisang Khola | 14-Jul-18 | 21-Jul-18 | 11-Aug-18 | | (21.60 | M20 |
| 0.0 | DDC Yard | RUDP-597 | Salimar | 100 March 100 | Chisang-Khola | 14-Jul-18 | 21-Jul-18 | 11-Aug-18 | | 62.66 | M30 |
| 12 | DDC Yard | RUDP-598 | Salimar | | Chisang Khola | 15-Jul-18 | 22-Jul-18 | 12-Aug-18 | - | 22.80 | M20 |
| 3 | Rani-Site | RUDP-599 | Salimar | | Chisang Khola | 15-Jul-18 | 22-Jul-18 | 12-Aug-18 | | 23.18 | M20 |
| 34 | Cn2Cn3 | RUDP-600 | Salimar | | Chisang Khola | 16-Jul-18 | | 13-Aug-18 | | 21.45 | M20 |
| 5 | DDC Yard | RUDP-601 | Salimar | OPC | Chisang Khola | 16-Jul-18 | 23-Jul-18 | 13-Aug-18 | | 32.44 | M30 |
| | C | ontractor | | | | | Consult | ant | | | |
| ZINI | HONGHENGO | ENGINEER | ON GRO ING CO. | UP LTD | BUILDING D WITH B.N. C & ARC | ONSULTA | NCY PVT. | (P) LTD II LTD AND KATHMAN | PLUS E | NGINE | URE ERS |
| | dhan ed By | | Submitte | | First | | | | (6) | 84 | 1 |



| | | REGI | | Birati Contra | AN DEV nagar Metr act No!- RUD y Sheet of Mo | opolitan P/ICB/BR | City RT-02 | PROJE | СТ | | | |
|---------------|-------------|------------------------|---|----------------------|---|----------------------|---------------|------------------------------------|--------|----------------------|-------|--|
| | | | | | | Tur Test | Keport | | | | | |
| | | | | | | | | Month | | Au | gust | |
| | | | | | | | | Vear | | 20 | 18 | |
| | | | | | | | Desc | ription of San | iple | Brick | ek Wa | |
| S.N. | Location | Lab Ref.no. | Type of Cement | Brand of Cemen | Source of Sand | Date of Casting | 7 Days | 28 Days | | th, N/mm2 28 Days | T | |
| 36 | R-21 | MR-371 | Salimar | OPC | Chisang Khola | 17-Jul-18 | | | | Zo Liays | Gr | |
| 37 | R-11 | MR-372 | Salimar | OPC | Chisang Khole | The second second | - 1 Sec. 142 | 14-Aug-18 | | 8.27 | 7 | |
| 38 | Rani Site | MR-373 | Salimar | OPC | Chisang Khola | | 20 200 100 | 15-Aug-18 | | 8.40 | 7 | |
| 39 | R-21 | MR-374 | Salimar | OPC | Chisang Khola | - | | 16-Aug-18 | | 8.54 | 7 | |
| 40 | R-11 | MR-375 | Salimar | OPC | | | -0.000 | 16-Aug-18 | | 8.67 | 7. | |
| 41 | Rani Site | MR-376 | Salimar | | Chisang Khola | 20-Jul-18 | 200 | 17-Aug-18 | | 9,60 | 7 | |
| 42 | R-21 | MR-377 | Salimar | OPC | Chisang Khola | 20-Jul-18 | | 17-Aug-18 | | 8.40 | 7 | |
| 43 | R-11 | MR-378 | Salimar | OPC | Chisang Khola | 20-Jul-18 | 27-Jul-18 | 17-Aug-18 | | 8.40 | 7. | |
| 44 | R-21 | MR-379 | Salimar | OPC | Chisang Khola | 20-Jul-18 | | 17-Aug-18 | | 8.40 | 7. | |
| 45 | R-11 | MR-380 | Salimar | OPC | Chisang Khola | 22-Jul-18 | 29-Jul-18 | 19-Aug-18 | | 8.80 | 7. | |
| 46 | R-2 | MR-381 | Salimar | OPC | Chisang Khola | 23-Jul-18 | 30-Jul-18 | 20-Aug-18 | | 9.07 | 7. | |
| 47 | N-2 | MR-382 | Salimar | OPC | Chisang Khola | 23-Jul-18 | 3()-Jul-18 | 20-Aug-18 | | 8.40 | 7. | |
| 48 | R-11 | MR-383 | Salimar | OPC | Chisang Khola | 23-Jul-18 | 30-Jul-18 | 20-Aug-18 | | 8.94 | 7. | |
| 49 | R-11 | MR-384 | Salimar | OPC | Chisang Khola | 24-Jul-18 | 31-Jul-18 | 21-Aug-18 | | 8.80 | 7. | |
| 50 | R-21 | MR-385 | Salimar | OPC | Chisang Khola | 3-Aug-18 | 10-Aug-18 | 31-Aug-18 | 6.00 | 8.40 | 7. | |
| 51 | T3L21 | MR-386 | 100000000000000000000000000000000000000 | OPC | Chisang Khola | 4-Aug-18 | 11-Aug-18 | 1-Sep-18 | 6,27 | / | 7. | |
| 52 | T3L39 | | Salimar | OPC | Chisang Khola | 4-Aug-18 | 11-Aug-18 | 1-Sep-18 | 5.17 | | 7.: | |
| 53 | Rani-Site | MR-387 | Salimar | OPC | Chisang Khola | 4-Aug-18 | 11-Aug-18 | 1-Sep-18 | 6.40 | | 7. | |
| 54 | R-21 | MR-388 | Salimar | OPC | Chisang Khola | 5-Aug-18 | 12-Aug-18 | 2-Sep-18 | 5.87 | | 7.5 | |
| 55 | T3L21 | MR-389 | Salimar | OPC | Chisang Khola | 5-Aug-18 | 12-Aug-18 | 2-Sep-18 | 5.33 | | 7.5 | |
| 56 | T3L39 | MR-390 | Salimar | OPC | Chisang Khola | 5-Aug-18 | 12-Aug-18 | 2-Sep-18 | 6.14 | | 7.5 | |
| 57 | | MR-391 | Salimar | OPC | Chisang Khola | 5-Aug-18 | 12-Aug-18 | 2-Sep-18 | 5.87 | | 7.5 | |
| 8 | T2L26E | MR-392 | Salimar | | Chisang Khola | 5-Aug-18 | 12-Aug-18 | 2-Sep-18 | 6,40 | | 7.5 | |
| 9 | R-21 | MR-393 | Salimar | | Chisang Khola | 6-Aug-18 | 13-Aug-18- | 3-Sep-18 | 6.40 | | 7.5 | |
| 0 | N-2 | MR-394 | Salimar | | Chisang Khola | 6-Aug-18 | 13-Aug-18 | 3-Sep-18 | 5,47 | | 7.5 | |
| - | Rani-Site | MR-395 | Salimar | OPC | Chisang Khola | 6-Aug-18 | 13-Aug-18 | 3-Sep-18 | 6.40 | | 7.5 | |
| 1 | T2L26E | MR-396 | Salimar | OPC | Chisang Khola | 6-Aug-18 | 13-Aug-18 | 3-Sep-18 | 5.87 | | 7.5 | |
| 2 | R-21 | MR-397 | Salimar | OPC | Chisang Khola | 7-Aug-18 | 14-Aug-18 | 4-Sep-18 | 6.27 | | | |
| 3 | N-2 | MR-398 | Salimar | OPC | Chisang Khola | 7-Aug-18 | 14-Aug-18 | 4-Sep-18 | 6.00 | | 7.5 | |
| 1 | Rani-Site | MR-399 | Salimar | OPC | Chisang Khola | 7-Aug-18 | 14-Aug-18 | 4-Sep-18 | 6.54 | - | - | |
| 5 | T2L26E | MR-400 | Salimar | OPC (| Chisang Khola | 7-Aug-18 | 14-Aug-18 | 4-Sep-18 | 5,60 | | 7.5 | |
| 5 | N-2 | MR-401 | Salimar | | Chisang Khola | 8-Aug-18 | 15-Aug-18 | 5-Sep-18 | 6.40 | | 7.5 | |
| 7 | Rani-Site | MR-402 | Salimar | OPC (| Chisang Khola | 8-Aug-18 | 15-Aug-18 | 5-Sep-18 | 5.33 | - | 7.5 | |
| 3 | R-21 | MR-403 | Salimar | | | 8-Aug-18 | 15-Aug-18 | 5-Sep-18 | 5.74 | | 7.5 | |
| | T2L26E | MR-404 | Salimar | | | 8-Aug-18 | 15-Aug-18 | 5-Sep-18 | 6.40 | | 7.5 | |
|) | R-74 | MR-405 | Salimar | OPC (| | 9-Aug-18 | 16-Aug-18 | 6-Sep-18 | 5.60 | | 7.5 | |
| | | Contractor | - | | | | | | | | 2.00 | |
| HO | NGHENG C | CONSTRUCT VAL ENGIN | EERING | OUP CO. | VENTURE | WITH B. ENGINE | N. CONSU | RITY (P) L LTANCY I CHITECTS | PVT. L | TD ANI |) | |
| | Man | *** | h | | Fork | | | | 100 | 1 | 7 | |
| ecke ginee | ed By er | Su Con | bmitted By | | erified By ty Engineer/C | SE | | | | oved By Leader | | |



| | | REGIO | | Contra | AN DEVI nagar Metro net No:- RUDI v Sheet of Mo | politan P/ICB/BR | City T-02 | PROJEC | СТ | | |
|-----|------------------|------------------|-------------------|--------------------|--|---------------------|----------------------|-------------------------------------|-------|-----------|------|
| | | | | | | | | | | | |
| | | | | | | | | Month | | Au | gust |
| | | | | | | | - | Year | | | 118 |
| | | | | | | | Desc | cription of San | ple | _ | Wall |
| S.1 | N. Location | Lab Ref.no | Type of Cement | Bran of Ceme | Source of San | Date of Casting | | of Testing 28 Days | | th, N/mm2 | Тур |
| 1 | R-7 | MR-336 | Salimar | OPC | Chican - 101 1 | | | | Days | 28 Days | Grad |
| 2 | T3L39 | MR-337 | Salimar | OPC | 2.000 | | 12 201-11 | 1 2 1 1 2 1 1 1 | | 8.67 | 7.5 |
| 3 | R-2 | MR-338 | Salimar | OPC | | | 1 2 3 m - 10 | | | 207 | 7.5 |
| 4 | T3L21 | MR-339 | Salimar | OPC | 2 | | 12 3011-10 | 1776 | , | 7.74 | 7.5 |
| 5 | R-90 | MR-340 | Salimar | OPC | Chisang Khola | | 34.500 | 2-Aug-18 | | 8.67 | 7.5 |
| 6 | R-2 | MR-341 | Salimar | OPC | Chisang Khola | | Ch. 2411.17 | 3-Aug-18 | | 9.07 | 7.5 |
| 7 | R-40 | MR-342 | Salimar | OPC | Chisang Khola | | 120 201-111 | | | 8.27 | 7.5 |
| 8 | R-7 | MR-343 | Salimar | OPC | Chicana Khala | | | 100000 | | 8.94 | 7.5 |
| 9 | T3L21 | MR-344 | Salimar | OPC | Chisang Khola | | 13-Jul-18 | | | 8.80 | 7.5 |
| 1.0 | N-2 | MR-345 | Salimar | OPC | Chisang Khola | 7-Jul-18 | 14-Jul-18 | 4-Aug-18 | | 9.07 | 7.5 |
| 11 | R-2 | MR-346 | Salimar | OPC | Chisang Khola | 7-Jul-18 | 14-Jul-18 | 4-Aug-18 | | 8,67 | 7.5 |
| 12 | T3L39 | MR-347 | Salimar | OPC | Chisang Khola | 8-Jul-18 | 15-Jul-18 | 5-Aug-18 | | 9.60 | 7.5 |
| 13 | R-2 | MR-348 | Salimar | OPC | Chisang Khola | 9-Jul-18 | 16-Jul-18 | 6-Aug-18 | | 8.51 | 7.5 |
| 14 | T3L21 | MR-349 | Salimar | OPC | Chisang Khola | 9-Jul-18 | 16-Jul-18 | 6+Aug-18 | | 8.54 | 7.5 |
| 15 | T3L39 | MR-350 | Salimar | | Chisang Khola | 9-Jul-18 | 16-Jul-18 | 6-Aug-18 | | 8.80 | 7.5 |
| 6 | R-2 | MR-351 | Salimar | OPC | Chisang Khola | 9-Jul-18 | 16-Jul-18 | 6-Aug-18 | | 8.27 | 7.5 |
| 7 | Rani Site | MR-352 | Salimar | OPC | Chisang Khola | 10-Jul-18 | 17-Jul-18 | 7-Aug-18 | | 8.67 | 7.5 |
| 8 | Rani Site | MR-353 | Salimar | OPC | Chisang Khola | 10-Jul-18 | 17-Jul-18 | 7-Aug-18 | | 8.40 | 7.5 |
| 9 | T3L39 | MR-354 | Salimar | OPC | Chisang Khola | 11-Jul-18 | 18-Jul-18 | 8-Aug-18 | | 8.00 | 7.5 |
| 0 | R-2(Branch Road) | MR-355 | Salimar | OPC | Chisang Khola | 11-Jul-18 | 18-Jul-18 | 8-Aug-18 | | 8.14 | 7.5 |
| | R-2(Branch Road) | MR-356 | Salimar | OPC | Chisang Khola | 11-Jul-18 | 18-Jul-18 | 8-Aug-18 | | 8.14 | 7.5 |
| 2 | T3L39 | MR-357 | | OPC | Chisang Khola | 11-Jul-18 | 18-Jul-18 | 8-Aug-18 | | 8,40 | 7.5 |
| 3 | Rani Site | MR-358 | Salimar | OPC | Chisang Khola | 11-Jul-18 | 18-Jul-18 | 8-Aug-18 | | 8.67 | 7.5 |
| 4 | R-2 | MR-359 | Salimar | OPC | Chisang Khola | 12-Jul-18 | 19-Jul-18 | 9-Aug-18 | | 8.67 | 7.5 |
| 5 | Rani Site | MR-360 | Salimar | OPC | Chisang Khola | 12-Jul-18 | 19-Jul-18 | 9-Aug-18 | | 8.67 | 7.5 |
| 5 1 | R-2(Branch Road) | MR-361 | Salimar | OPC | Chisang Khola | 13-Jul-38 | 20-Jul-38 | 10-Aug-38 | | 8.94 | 7.5 |
| 7 | Rani Site | MR-362 | Salimar | OPC | Chisang Khola | 14-Jul-18 | 21-Jul-18 | 11-3ug-18 | | | 7.5 |
| 1 1 | R-2(Branch Road) | | Salimar | | Chisang Khola | 14-Jul-18 | 21-Jul-18 | 11-Aug-18 | | | 7.5 |
| 1 | Rani Site | MR-363 MR-364 | Salimar | | Chisang Khola | 14-Jul-18 | 21-Jul-18 | 11-Aug-18 | | - | 7.5 |
| | T3L39 | MR-365 | Salimar | | Chisang Khola | 15-Jul-18 | 22-Jul-18 | 12-Aug-18 | | | |
| 1 | Rani Site | | Salimar | | Chisang Khola | 15-Jul-18 | 22-Jul-18 | 12-Aug-18 | | | 7.5 |
| - | R-2(Branch Road) | MR-366 | Salimar | | | 15-Jul-18 | 22-Jul-18 | 12-Aug-18 | | | 7.5 |
| 1 | R-21 | MR-367 | Salimar | | | 15-Jul-18 | | 12-Aug-18 | | | 7.5 |
| + | Rani Site | MR-368 MR-369 | Salimar | | Chisang Khola | 16-Jul-18 | | 13-Aug-18 | | | 7.5 |
| | R-11 | | Salimar | | Chisang Khola | 6-Jul-18 | | 13-Aug-18 | | - | 7,5 |
| 1 | | MR-370 | Salimar | OPC (| Chisang Khola | 6-Jul-18 | | 13-Aug-18 | | | 7.5 |
| | - | ontractor | | | | | | | | 1.07 | 2 |
| H | ONGHENG CO | INSTRUCT | TION GRO | UP LTD | VENTURE | ENGINE | N. CONSU ERS & AR | RITY (P) LT LTANCY P CHITECTS | VT 17 | TO AND | |
| | | THE PROPERTY | 7 | | | TVA I | THMANDU | NEPAL | 1 | | |
| a | dhan | | 1 | , | X,X | | | 16 | 15 | | 7 |
| ck | ed By er | | bnitted By | | erified By by Engineer/CS | | | 3 | Appro | ved By | |



| | | | | Biratna Contrac | N DEVE agar Metrop a No:- RUDP. Sheet of More | olitan C | ity -02 | | | | |
|------|--------------------------|---------------------|-------------------|--------------------|---|------------------------|---|--|--------|-------------------|------------|
| | | | | | | | | Month | | 1.00 | |
| | | | | | | | | Year | - | Aug | |
| | | | | | | | Daron | | | 20 | |
| | | | | Brand | | | | escription of Sample ite of Testing Strengt | | Brick h, N/mm2 | Wall |
| S.N. | Location | Lab Ref.no. | Type of Cement | of Cemen | Source of Sanc | Date of Casting | 7 Days | 28 Days | | 28 Days | of Grad |
| 71 | T3L23 | MR-406 | Salimar | OPC | Chisang Khola | 9-Aug-18 | 16-Aug-18 | 6-Sep-18 | 201 | | 1000 |
| 72 | T3L26E | MR-407 | Salimar | OPC | Chisang Khola | | 16-Aug-18 | 6-Sep-18 | 6.14 | | 7.5 |
| 73 | T3L39 | MR-408 | Salimar | OPC | Chisang Khola | 4 | 16-Aug-18 | 6-Sep-18 | 6.67 | | 7.5 |
| 74 | Rani-Site | MR-409 | Salimar | OPC | Chisang Khola | | | 7-Sep-18 | 5.74 | | 7.5 |
| 75 | T2L26E | MR-410 | Salimar | OPC | Chisang Khola | | 17-Aug-18 | 7-Sep-18 | 6.27 | | 7.5 |
| 76 | R-74 | MR-411 | Salimar | OPC | Chisang Khola | | 17-Aug-18 | | 5.33 | _ | 7.5 |
| 77 | Rani-Site | MR-412 | Salimar | OPC | Chisang Khola | 11-Aug-18 | 18-Aug-18 | 7-Sep-18 | 6.14 | | 7.5 |
| 78 | T2L26E | MR-413 | Salimar | OPC | Chisang Khola | 11-Aug-18 | | 8-Sep-18 | 6.54 | | 7.5 |
| 79 | R-74 | MR-414 | Salimar | OPC | Chisang Khola | 11-Aug-18 | 18-Aug-18 | 8-Sep-18 | 5,60 | | 7.5 |
| 80 | T3L23 | MR-415 | Salimar | OPC | Chisang Khola | | 18-Aug-18 | 8-Sep-18 | 6.40 | | 7.5 |
| 81 | R-74 | MR-416 | Salimar | OPC | Chisang Khola | 11-Aug-18 12-Aug-18 | 18-Aug-18 | 8-Sep-18 | 5.87 | | 7.5 |
| 82 | R-2 | MR-417 | Salimar | OPC | Chisang Khola | | 19-Aug-18 | 9-Sep-18 | 5.33 | | 7.5 |
| 83 | Rani-Site | MR-418 | Salimar | OPC | Chisang Khola | 12-Aug-18 | 19-Aug-18 | 9-Sep-18 | 6,40 | | 7.5 |
| 84 | T3123 | MR-419 | Salimar | OPC | Chisang Khola | 12-Aug-18 | 19-Aug-18 | 9-Sep-18 | 5.47 | | 7.5 |
| 85 | T3L21 | MR-420 | Salimar | OPC | Chisang Khola | 13-Aug-18 | 20-Aug-18 | 10-Sep-18 | 6.14 | | 7.5 |
| 86 | R-74 | MR-421 | Salimar | OPC | | 13-Aug-18 | 20-Aug-18 | 10-Sep-18 | 6.00 | | 7.5 |
| 87 | R-12 | MR-422 | Salimar | OPC | Chisang Khola | 13-Aug-18 | 20-Aug-18 | 10-Sep-18 | 6.67 | | 7.5 |
| 88 | T3L23 | MR-423 | Salimar | | Chisang Khola | 13-Aug-18 | 20-Aug-18 | 10-Sep-18 | 6.14 | | 7.5 |
| 89 | Rani-Site | MR-424 | Salimar | OPC | Chisang Khola | 14-Aug-18 | 21-Aug-18 | 11-Sep-18 | 5.87 | | 7.5 |
| 90 | R-12 | MR-425 | Salimar | OPC | Chisang Khola | 14-Aug-18 | 21-Aug-18 | 11-Sep-18 | 6.27 | | 7.5 |
| 91 | T3L39 | MR-426 | Salimar | OPC | Chisang Khola | 14-Aug-18 | 21-Aug-18 | 11-Sep-18 | 5.33 | | 7.5 |
|)2 | T3L21 | MR-427 | Salimar | OPC | Chisang Khola | 15-Aug-18 | 22-Aug-18 | 12-Sep-18 | 0.14 | | 7.5 |
| 93 | R-12 | MR-428 | Salimar | OPC | Chisang Khola | 15-Aug-18 | 225Aug-18 | 12-Sep-18 | 5.87 | | 7.5 |
| 94 | T3L23 | MR-429 | Salimar | OPC | Chisang Khola | 15-Aug-18 | 22-Aug-18 | 12-Sep-18 | 6.14 | | 7.5 |
|)5 | R-74 | MR-430 | Salimar | OPC | Chisang Khola | 15-Aug-18 | 22-Aug-18 | 12-Sep-18 | 6.67 | | 7.5 |
| 26 | R-2 | MR-431 | Salimar | OPC | | 15-Aug-18 | 22-Aug-18 | 12-Sep-18 | 5.74 | | 7.5 |
| 7 | R-74 | MR-432 | | OPC' | | 16-Aug-18 | 23-Aug-18 | 13-Sep-18 | 5.87 | | 7.5 |
| 08 | R-12 | | Salimar | OPC | Carlo | 16-Aug-18 | 23-Aug-18 | 13-Sep-18 | 5.74 | | 7.5 |
| 19 | T3L39 | MR-433 MR-434 | Salimar | OPC | | 16-Aug-18 | 23-Aug-18 | 13-Sep-18 | 0.00 | | 7.5 |
| 00 | T3L23 | | Salimar | | Charles and the second second | | 23-Ang-18 | 13-Sep-18 | 5.87 | | 7.5 |
| 01 | T3139 | MR-435 | Salimar | | | 18-Aug-18 | 25-Aug-18 | 15-Sep-18 | 6.14 | | 7.5 |
| 02 | R-12 | MR-436 | Salimar | | | | 25-Aug-18 | 15-Sep-18 | 5.74 | | 7.5 |
| 13 | | MR-437 | Salimar | | | 18-Aug-18 | 25-Aug-18 | 15-Sep-18 | 6.27 | | 7.5 |
| - | R-2 | MR-438 | Salimar | OPC | Chisang Khola | 18-Ang-18 | 25-Aug-18 | 15-Sep-18 | 6.00 | | 7.5 |
|)5 | -2 (Branch Road) R-74 | MR-439 | Salimar | | | 18-Aug-18 | 25-Aug-18 | 15-Sep-18 | 6.40 | | 7.5 |
|)6 | R-74 R-12 | MR-440 | Salimar | | | 18-Aug-18 | 25-Aug-18 | 15-Sep-18 | 6.80 | | 7.5 |
| 101 | K-12 | MR-441 | Salimar | OPC | Chisang Khola | 9-Aug-18 | 26-Aug-18 | 16-Sep-18 | 5.87 | | 7.5 |
| | | Charles and | | | | | | | | | |
| _ | | ontractor | | | | | Consulta | 200 | | | |
| ZHO | ONGHENG CO | DISTRUCT ENGINEE | TION GRO | DUP LTD | VENTURE | WITH B. | N AUTHO N. CONSU ERS & AR UMANDU | LTANCY CHITECT | PVT. L | TD ANI | Ó |
| | Man ed By | Si | Almitted B | y V | L. H | | | | (60) | oved By | |



| | | | | Biratn Contra | N DEVE agar Metro ct No:- RUDP Sheet of Mor | politan C /ICB/BRT | ity -02 | ROJE | CT | | |
|-----|---------------------------|---------------------|-------------------|------------------|--|--|-------------------------------|----------------|-------|----------|--------------------|
| | | | | | | | | Month | | Aug | |
| | | | | | | | | Year | | 20 | |
| - | | | | | | | Desc | ription of San | onlo | Brick | - |
| | | | Towns | Branc | | | | of Testing | - | h. N/mm2 | |
| S.N | | Lab Ref.no. | Type of Cement | Cemen | Source of Sand | Date of Casting | 7 Days | 28 Days | | 28 Days | Type of Grad |
| 10 | 71.10 | MR-442 | Salimar | OPC | Chisang Khola | 19-Aug-18 | 26-Aug-18 | 16 500 70 | | | |
| 108 | | MR-443 | Salimar | OPC | Chisang Khola | | | 1 | | | 7.5 |
| 109 | (sittifeli Routi) | MR-444 | Salimar | OPC | Chisang Khola | | | 1 | | | 7.5 |
| 110 | | MR-445 | Salimar | OPC | Chisang Khola | | | | - | | 7.5 |
| 111 | N-4 | MR-446 | Salimar | OPC | Chisang Khola | | and the same | | 5.74 | | 7,5 |
| 112 | T3L23 | MR-447 | Salimar | OPC | Chisang Khola | | The state in | | 6,40 | | 7.3 |
| 113 | 7.0.00.1 | MR-448 | Salimar | OPC | Chisang Khola | | The state of the state of the | | 6.67 | | 7.5 |
| 114 | *.0.000 | MR-449 | Salimar | OPC | Chisang Khola | - | | 1 | 6.54 | | 7.5 |
| 115 | 15.19 | MR-450 | Salimar | OPC | Chisang Khola | | 27-Aug-18 | 17-Sep-18 | 5.67 | | 7.5 |
| 116 | 31.00 | MR-451 | Salimar | OPC | Chisang Khola | | 27-Aug-18 | 17-Sep-18 | 5:87 | | 7.5 |
| 117 | R-2 (Branch Road) | MR-452 | Salimar | OPC | Chisang Khola | 20-Aug-18 | | 17-Sep-18 | 6.27 | | 7.5 |
| 18 | R-74 | MR-453 | Salimar | OPC | Chisang Khola | 20-Aug-18 | 27-Aug-18 | 17-Sep-18 | 5.87 | | 7.5 |
| 119 | T31.26E | MR-454 | Salimar | OPC | Chisang Khola | 20-Aug-18 | 27-Aug-18 | 17-Sep-18 | 6.67 | | 7.5 |
| 20 | T3123 | MR-455 | Salimar | OPC | Chisang Khola | 20-Aug-18 | 27-Aug-18 | 17-Sep-18 | 5.87 | | 7,5 |
| 21 | T3L21 | MR-456 | Salimar | OPC | Chisang Khola | 21-Aug-18 | 28-Aug-18 | 18-Sep-18 | 6.14 | | 7.5 |
| 22 | R-12 | MR-457 | Salimar | OPC | Chisang Khola | 21-Aug-18 | 28-Aug-18 | 18-Sep-18 | 6.94 | _ | 7.5 |
| 23 | R-7 | MR-458 | Salimar | OPC | Chisang Khola | 21-Aug-18 | 28-Aug-18 | 18-Sep-18 | 5.74 | | 7.5 |
| 24 | R-2 (Branch Road) | MR-459 | Salimar | OPC | Chisang Khola | 21-Aug-18 | 28-Aug-18 | 18-Sep-18 | 6.67 | | 7.5 |
| 25 | R-12 | MR-460 | Salimar | OPC | | 21-Aug-18 | 28-Aug-18 | 18-Sep-18 | 6.14 | | 7.5 |
| 26 | R-7 | MR-461 | Salimar | OPC | Chisang Khola | 21-Aug-18 | 28-Aug-18 | 18-Sep-18 | 5.87 | | 7.5 |
| 27 | R-7 | MR-462 | Salimar | OPC | Chisang Khola | 22-Aug-18 | 29-Aug-18 | 19-Sep-18 | 6.54 | | 7.5 |
| 28 | T2L18A | MR-463 | Salimar | OPC | | 22-Aug-18 | 29-Aug-18 | 19-Sep-18 | 0.94 | | 7.5 |
| 29 | T2L18B | MR-464 | Salimar | OPC | | 22-Aug-18 | 29+Aug-18 | 19-Sep-18 | 5.74 | | 7.5 |
| 30 | R-12 | MR-465 | Salimar | OPC | Contract Con | | 29-Aug-18 | 19-Sep-18 | 5.60 | _ | 7.5 |
| 31 | R-87 | MR-466 | Salimar | OPC | | | 29-Aug-18 | 19-Sep-18 | 5.74 | | 7.5 |
| 32 | R-84 | MR-467 | Salimar | | | The second secon | 29-Aug-18 | 19-Sep-18 | 6.14 | | 7.5 |
| 33 | R-85 | MR-468 | Salimar | | | | 30-Aug-18 | 20-Sep-18 | 5.87 | | 7.5 |
| 34 | R-7 | MR-469 | Salimar | | Contract Con | | 30-Aug-18 | 20-Sep-18 | 0.44 | | 7.5 |
| 5 | R-12 | MR-470 | Salimar | | | | 30-Aug-18 | 26-Sep-18 | 5.74 | | 7.5 |
| 6 | R-87 | MR-471 | Salimar | | | | 30-Aug-18 | 20-8cp-1% | 0.14 | | 7.5 |
| 7 | R-84 | MR-472 | Salimar | | | | 30-Aug-18 | 20-Sép-18 | 5.87 | | 7.5 |
| 8 | T3L23 | MR-473 | Salimar | | | | 30-Aug-18 | 20-Sep-18 | 6.40 | | 7.5 |
| 9 | R-12 | MR-474 | Salimar | | | | | 21-Sep-18 | 6.27 | 118 | 7.5 |
| 0 | R-87 | MR-475 | Salimar | | | | | | 5.74 | | 7.5 |
| 1 | R-84 | MR-476 | Salimar | | | | | | 6.67 | | 7.5 |
| 2 | R-85 | MR-477 | Salimar | | | | | | 0.00 | | 7.5 |
| | | | | OIC I | emonig isnon 2 | 4-Aug-18 | 31-Aug-18 | 21-Sep-18 | 5.00 | | .5 |
| | Co | ntractor | | | | | Consulta | | | | |
| ZH | IONGHENG CO ERNATIONAL | NSTRUCT ENGINEER | ION GRO | UP LTD | VENTURE | WITH BA | V. CONSU | CHITECTS | VT 17 | ED AND | |
| Ya | dhar | | h | | J.o.X | | | | (61 | A. | 2 |
| eck | ed By | Su | britted B | 3.7 | middled D | | | | ~ | -6 | |
| | er | 311 | Committee 131 | Y V | erified By | | | | V. | oved By | |



| | | | | | | | | Month | 1 | Aug | net |
|------|----------|-------------|-------------------|--------------|--|--------------------|---|---------------------------------|----------|---------|------|
| | | | | | | | | Year | | 201 | |
| | | | | | | | Descri | ption of Sam | ple | Brick | |
| | | | T | Brand | | | | Testing | Strength | | Type |
| S.N. | Location | Lab Ref.no. | Type of Cement | of Cement | Source of Sand | Date of Custing | 7 Days | 28 Days | 7 Days | 28 Days | - AF |
| 143 | R-7 | MR-478 | Salimar | OPC | Chisang Khola | 24-Aug-18 | 31-Aug-18 | 21-Sep-18 | 6.40 | - | 7.5 |
| 144 | T3L18A | MR-479 | Salimar | OPC | Chisang Khola | 24-Aug-18 | 31-Aug-18 | 21-Sep-18 | 5.74 | | 7.5 |
| 145 | T2L18B | MR-480 | Salimar | OPC | Chisang Khola | 24-Aug-18 | 31-Aug-18 | 21-Sep-18 | 5.87 | | 7.5 |
| | | | | | | | | | | | |
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| | | | | | | | | | | | |
| | - | Contractor | | | | - | Daniel | Co. e | | | |
| ZHO | NGHENG C | CONSTRUCT | TON GRO | OUP LTD | VENTURE | WITH B. | Consult N AUTHO N. CONSU ERS & AR TIMANDI | RITY (P) I LTANCY CHITECT | PVT. L | TDAN | D |



| | | | REGION | Biratna; Contract ! | DEVELO gar Metropolit No:- RUDP/IC neet Of Monthly | B/BRT-02 | Т | |
|------|-----------------|------------------------|------------------------|--|---|---|--|------------------|
| | | | | | | | Month Year | August 2018 |
| S.N. | Lab Ref.No. | Testing Date | Location of Sample | Source of Brick | Name Of Brick | Water Absorption of Brick(%) | Type of Material Strength of Brick(N/mm²) | Brick Remarks |
| 1 | 41 | 5-Aug-18 | R-21 | Dadarbairya | ACC | 14.92 | 12.99 | |
| 2 | 42 | 5-Aug-18 | T3L39 | Dadarbairya | ACC | 15.24 | 14.37 | |
| 3 | 43 | 5-Aug-18 | T3L39 | Dadarbairya | ACC | 14.49 | 12.89 | |
| 4 | 44 | 5-Aug-18 | T3L21 | Dadarbairya | ACC | 11.79 | 12.42 | |
| 5 | 45 | 6-Aug-18 | Rani Site | Dadarbairya | ACC | 11.65 | 13.06 | |
| 6 | 46 | 7-Aug-18 | Rani Site | Dadarbairya | ACC | 11.69 | 14.16 | |
| 7 | 47 | 7-Aug-18 | R-21 | Dadarbairya | ACC | 13.46 | 12.25 | |
| 8 | 48 | 8-Aug-18 | N-2 | Dadarbairya | ACC | 14.70 | 13.17 | |
| 9 | 49 | 8-Aug-18 | T2L26E | Dadarbairya | ACC | 14.94 | 12.62 | |
| 10 | 50 | 9-Aug-18 | Rani Site | Dadarbairya | ACC | 13.75 | 13.79 | |
| 11 | 51 | 9-Aug-18 | R-74 | Dadarbairya | ACC | 13.84 | 14.63 | |
| 12 | 52 | 9-Aug-18 | N-2 | Dadarbairya | ACC | 12.56 | 13.43 | |
| 13 | 53 | 9-Aug-18 | T3L23 | Dadarbairya | ACC | 12.68 | 12.93 | |
| 14 | 54 | 10-Aug-18 | T3L39 | Dadarbairya | ACC | 13.85 | 13.33 | |
| 15 | 55 | 11-Aug-18 | R-21 | Dadarbairya | ACC | 11.99 | 13.86 | |
| 16 | 56 | 11-Aug-18 | T3L21 | Dadarbairya | ACC | 12.87 | 14,45 | |
| 17 | 57 | 11-Aug-18 | T3L23 | Dadarbairya | ACC | 12.33 | 15.29 | |
| 18 | 58 | 11-Aug-18 | T3L23 | Dadarbairya | ACC | 12.68 | 14.37 | |
| 19 | 59 | 12-Aug-18 | N-4 | Dadarbairya | ACC | 12.82 | 12.74 14.32 | |
| 20 | 60 | 13-Aug-18 13-Aug-18 | R-21 N-2 | Dadarbairya Dadarbairya | ACC ACC | 12.35 13.84 | 15.16 | |
| 22 | 62 | 13-Aug-18 | T2L26E | Dadarbairya | ACC | 12.20 | (13.90 | - |
| 23 | 63 | 13-Aug-18 | Rani Site | Dadarbairya | ACC | 13.87 | 12.61 | |
| 24 | 64 | 15-Aug-18 | R-74 | Dadarbairya | ACC | 13.25 | (13.29 | |
| 25 | 65 | 16-Aug-18 | T3L39 | Dadarbairya | ACC | 13.75 | (24.00 | |
| 26 | 66 | 16-Aug-18 | T3L23 | Dadarbairya | ACC | 12.82 | 13.49 | |
| 27 | 67 | 16-Aug-18 | R-12 | Dadarbairya | ACC | 11.97 | (,12.93 | |
| 28 | 68 | 16-Aug-18 | N-4 | Dadarbairya | ACC | 13.51 | (14.39 | |
| 29 | 69 | 16-Aug-18 | N-2 | Dadarbairya | ACC | 11.87 | (15.60 | |
| 30 | 70 | 17-Aug-18 | R-74 | Dadarbairya | ACC | 12.8 | 12.37 | |
| - | | | Standard Specfication | A STATE OF THE PARTY OF THE PAR | | <20% | >8 to 10 N/mm² | |
| Cor | ments:- | | | | | 1 | | |
| | | 0 | Contractor | | | Consulta | nt | |
| Z | HONGHENG CO | NSTRUCTION GRO | OUP INTERNATIONAL ENG | SINEERING CO. LTD | BUILDING DESIGN | AUTHORITY (P) LTD IN JOINT VENT PLUS ENGINEERS & ARCHITECTS (P | | Y PVT. LTD AND |
| | Yalha ked By | n | Supriite Contract M | | Verified By QTV Engineer/CSE | | Approved By Team Leader | |

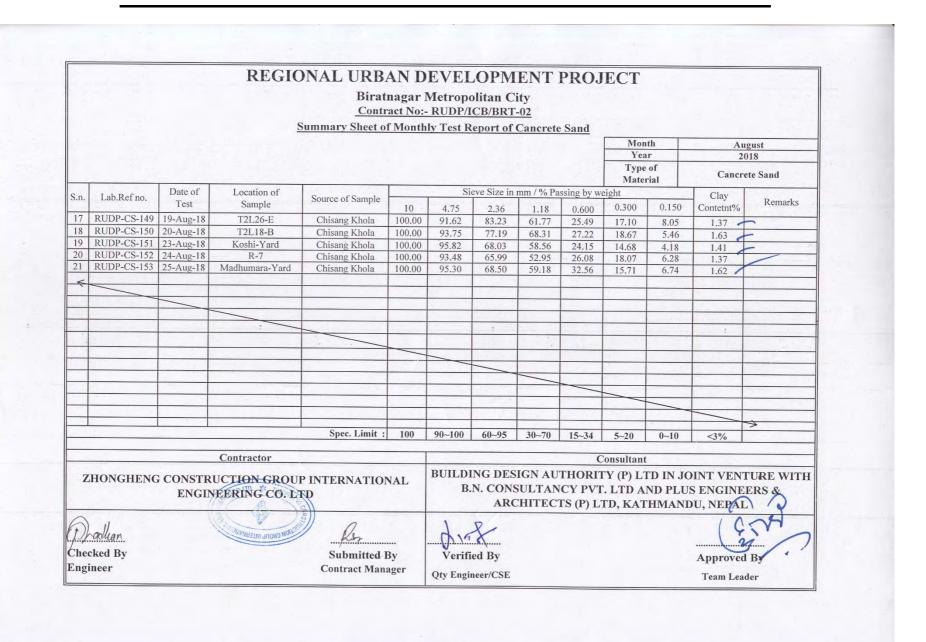


| | | | REGI | Bir Cont | SAN DEVEL atnagar Metropo ract No:- RUDP/ ary Sheet Of Month | ICB/BRT-02 | | |
|------|----------|------------------------|------------------------|----------------------------|---|--|--------------------------|---------------|
| | | | | | | | Month | August |
| | | | | | | | Year Type of Material | 2018 Brick |
| .N. | Lab | Tasting Data | Location of Sample | Source of Brick | Name Of Brick | Water Absorption of Brick(%) | Strength of Brick(N/mm²) | |
| | Ref.No. | | | | | | | Remarks |
| 31 | 71 | 17-Aug-18 | R-2 | Dadarbairya | ACC | 13.49 | 13.38 | |
| 32 | 72 | 17-Aug-18 | N-4 | Dadarbairya Dadarbairya | ACC | 13.90 | 15.84 | _ |
| 4 | 73 74 | 17-Aug-18 18-Aug-18 | R-12 T2L26E | Dadarbairya | ACC | 14.18 | 13.79 | |
| 5 | 75 | | R-7 | | ACC | 14.35 | 12.70 | |
| _ | | 19-Aug-18 | | Dadarbairya | | 12.80 | 14.19 | |
| 6 | 76 | 19-Aug-18 | R-2(Branch Road) | Dadarbairya Dadarbairya | ACC | 12.96 | 13.38 | |
| 37 | 77 | 19-Aug-18 | R-2 T3L39 | Dadarbairya Dadarbairya | ACC | 14.12 | 14.82 | |
| 88 | 78 | 20-Aug-18 20-Aug-18 | T2L23 | Dadarbairya Dadarbairya | ACC | 13.38 | 15.63 | |
| 10 | | | R-12 | Dadarbairya | ACC | 14.57 | | |
| 10 | 80 | 22-Aug-18 | R-12 R-2 | Dadarbairya | ACC | 13.37 | 14.82 13.45 | |
| - | 81 | 22-Aug-18 22-Aug-18 | R-2 | Dadarbairya | ACC | 13.37 | 13.45 | |
| 3 | 82 | 22-Aug-18 22-Aug-18 | R-2(Branch Road) | Dadarbairya | ACC | 12.18 | 14.19 | |
| 14 | 84 | 22-Aug-18 22-Aug-18 | T2L26E | Dadarbairya | ACC | 11.34 | 13.83 | |
| 15 | 85 | 22-Aug-18 22-Aug-18 | T2L18B | Dadarbairya | ACC | 12.92 | 15.31 | |
| 16 | 86 | 22-Aug-18 22-Aug-18 | R-74 | Dadarbairya | ACC . | 11.73 | 13.51 | |
| 17 | 87 | 22-Aug-18 | T2L18A | Dadarbairya | ACC | 11.60 | 12.62 | |
| 18 | 88 | 24-Aug-18 | T2L23 | Dadarbairya | ACC | 11.34 | 13.70 | |
| 19 | 89 | 24-Aug-18 | R-12 | Dadarbairya | ACC | 13.50 | 12.49 | |
| 50 | 90 | 24-Aug-18 | T2L18A | Dadarbairya | ACC | 12.36 | 14.92 | |
| 51 | 91 | 24-Aug-18 | R-7 | Dadarbairya | ACC | 13.77 | 15.37 | |
| 52 | 92 | 25-Aug-18 | T2L18B | Dadarbairya | ACC | 12.17 | 13.86 | |
| 3 | 93 | 25-Aug-18 | R-74 | Dadarbairya | ACC | 13.69 | 13.79 | |
| 54 | 94 | 25-Aug-18 | T3L39 | Dadarbairya | ACC | 13.31 | 12.71 | |
| 55 | 95 | 26-Aug-18 | R-2(Branch Road) | Dadarbairya | ACC | 12.21 | 12.42 | |
| 56 | 96 | 26-Aug-18 | R-7 | Dadarbairya | ACC | 13.97 | 11.96 | |
| | | | | | | | | |
| | | | | | | | | |
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| | | | | | | | | |
| | | ub-Clause No.2 | 502,Standard Specfic | ation Road And Br | idge 2073 | <20% | >8 to 10 N/mm² | |
| om | ments:- | | | | | | | |
| | | | Contractor | | | Consultant | | |
| ZH | ONGHENG | CONSTRUCTION | GROUP INTERNATIONAL | ENGINEERING CO. | BUILDING DESIGN A | UTHORITY (P) LTD IN JOINT VENTURE ENGINEERS & ARCHITECTS (P) LTD, | | D AND PLUS |
| Chec | Vad | | Submitte Contract N | | Verified By QTV Engineer/CSE | | Approved By Team Leader | |



| | | | | | nagar I act No:- | Metropo RUDP/IO | litan Ci CB/BRT- | ty 02 | | ECT | | | |
|------|-------------|-----------|-----------------------------|------------------|---------------------|--------------------|---------------------|------------|-------------|---------------|--------|-------------------------------------|----------|
| | | | | ammary sheet of | 11201111 | y rest it | portor | sancicie | Bana | Mon | th | An | gust |
| | | | | | | | | | | Yea | r | | 018 |
| | | | | | | | | | | Type Mater | | Cancre | ete Sand |
| | | Date of | Location of | | | Sie | eve Size in | mm / % Pas | ssing by we | eight | | Clay | |
| S.n. | Lab.Ref no. | Test | Sample | Source of Sample | 10 | 4.75 | 2.36 | 1.18 | 0.600 | 0.300 | 0.150 | Contetnt% | Remarks |
| 1 | RUDP-CS-133 | 1-Aug-18 | DDC-Yard | Chisang Khola | 100.00 | 93.46 | 71.22 | 31.71 | 23.60 | 9.84 | 4.50 | 1.87 | A |
| 2 | RUDP-CS-134 | 2-Aug-18 | Rani Sie | Chisang Khola | 100.00 | 95.46 | 66.80 | 48.85 | 30.39 | 13.82 | 3.67 | 1.29 | |
| 3 | RUDP-CS-135 | 3-Aug-18 | Madhumara-Yard | Chisang Khola | 100.00 | 94.47 | 80.13 | 31.94 | 20.82 | 10.81 | 4.33 | 1.57 | |
| 4 | RUDP-CS-136 | 3-Aug-18 | R-11 | Chisang Khola | 100.00 | 91.88 | 69.74 | 33.83 | 22.14 | 14.03 | 5.19 | 1.90 | |
| 5 | RUDP-CS-137 | 4-Aug-18 | T3L39 | Chisang Khola | 100.00 | 94.84 | 64.03 | 32.57 | 20.95 | 10.04 | 3.87 | 1.80 | |
| 6 | RUDP-CS-138 | 5-Aug-18 | R-6 | Chisang Khola | 100.00 | 93.11 | 69.66 | 39.33 | 28.35 | 15.66 | 4.74 | 1.89 | |
| 7 | RUDP-CS-139 | 6-Aug-18 | R-2(Branch Road) | Chisang Khola | 100.00 | 92.06 | 73.37 | 33.45 | 23.68 | 16.51 | 5.62 | 1.42 | |
| 8 | RUDP-CS-140 | 6-Aug-18 | N-2 | Chisang Khola | 100.00 | 95.47 | 81.28 | 35.81 | 26.84 | 15.47 | 4.89 | 1.42 | |
| 9 | RUDP-CS-141 | 9-Aug-18 | N-4 | Chisang Khola | 100.00 | 92.61 | 65.44 | 34.90 | 17.69 | 12.71 | 4.59 | 2.07 | |
| 0 | RUDP-CS-142 | 11-Aug-18 | R-12 | Chisang Khola | 100.00 | 93.76 | 67.94 | 37.05 | 29.57 | 17.46 | 3.15 | 1.61 | |
| 11 | RUDP-CS-143 | 12-Aug-18 | R-2 | Chisang Khola | 100.00 | 93.28 | 72.33 | 35.57 | 27.43 | 14.07 | 6.01 | 1.91 | |
| 12 | RUDP-CS-144 | 12-Aug-18 | R-74 | Chisang Khola | 100.00 | 93.28 | 72.33 | 35.57 | 27.43 | 14.07 | 6.01 | 1.35 | - |
| 3 | RUDP-CS-145 | 13-Aug-18 | R-36 | Chisang Khola | 100.00 | 92.65 | 80.56 | 46.52 | 22.34 | 9.48 | 4.45 | 1.49 | |
| 4 | RUDP-CS-146 | 14-Aug-18 | T3L21 | Chisang Khola | 100.00 | 91.86 | 76.52 | 82.64 | 27.48 | 17.34 | 8.01 | 1.54 | |
| 15 | RUDP-CS-147 | 15-Aug-18 | T3L18-A | Chisang Khola | 100.00 | 95.08 | 87.54 | 67.31 | 26.38 | 13.38 | 3.38 | 1.59 | |
| 6 | RUDP-CS-148 | 16-Aug-18 | T3L23 | Chisang Khola | 100.00 | 94.23 | 85.17 | 64.90 | 23.29 | 9.93 | 2.89 | 1.95 | |
| | | 101148 10 | 10020 | omoung renou | 100.00 | y 1.25 | 05.17 | .01.50 | 23.27 | 7.75 | 2.07 | 1.55 | |
| | | 2 | | Spec. Limit: | 100 | 90~100 | 60~95 | 30~70 | 15~34 | 5~20 | 0~10 | <3% | / |
| | | | | atti | | | | | | | | | |
| | | | Contractor | | - | | | | | Consultant | t | | ė i |
| 7 | CHONGHENO | | NEERING CO. L | | NAL | | N. CON | SULTAN | CY PVI | LTD A | ND PLU | OINT VENT IS ENGINE DU, NERAL | ERS & |
| | achan | 1/3 | THE STON GROUP INTERNATIONS | Submitted By | | Verified | Ry | | | | | Approved | By |
| | neer | | | Contract Mana | ger | Otv Engin | | | | | | Team Lea | |







REGIONAL URBAN DEVELOPMENT PROJECT Biratnagar Metropolitan City Contract No:- RUDP/ICB/BRT-02 SUMMARY SHEET OF CEMENT TEST Month August Year 2018 Consistancy & Setting Time Type of Date of Testing Strength N/mm² Soundnes Fineness Date of S.N. Ref.no **Tetsing Date** cement s(mm) (%) Casting Normal Cons.(% Initial(Min) | Final (min) 28 Days 7 Days 28 Days 7 days Remarks 10 Salimar OPC 8-Jul-18 15-Jul-18 (47.02 5-Aug-18 11 Salimar OPC 8-Jul-18 15-Jul-18 5-Aug-18 (48.05 3 12 Salimar OPC 12-Jul-18 19-Jul-18 9-Aug-18 (45.79 13 (28-25 Salimar OPC 3-Aug-18 (94 (209 (2,25 2.37 4-Aug-18 11-Aug-18 1-Sep-18 35.02 (29.25 5 14 Salimar OPC 7-Aug-18 104 (2.21 210 3.04 8-Aug-18 15-Aug-18 5-Sep-18 35.52 15 Salimar OPC 15-Aug-18 (30.10 108 225 1.51 2.89 16-Aug-18 23-Aug-18 13-Sep-18 36.93 7 16 Salimar OPC 12-Aug-18 (29.75 105 221 (2,36 2.40 19-Aug-18 26-Aug-18 16-Sep-18 36.43 17 Salimar OPC 20-Aug-18 (28.50 113 229 (236 2.97 21-Aug-18 21-Aug-18 18-Sep-18 37.43 9 18 Salimar OPC 21-Aug-18 (34.50 110 235 (194 2.35 22-Aug-18 22-Aug-18 19-Sep-18 38.84 10 19 Salimar OPC 22-Aug-18 (28.75 104 210 (2.04 3.49 20-Aug-18 23-Aug-18 17-Sep-18 35.22 11 20 Salimar OPC 23-Aug-18 30.25 99 203 2.16 3.28 24-Aug-18 31-Aug-18 21-Sep-18 34.62 Sp.Limit: 26-33(%) Min-45 (Max-600) <10 <10 >33 >43 Comments:-Contractor Consultant BUILDING DESIGN AUTHORITY (P) LTD IN JOINT VENTURE WITH B.N. ZHONGHENG CONSTRUCTION GROUP INTERNATIONAL CONSULTANCY PVT. LTD AND PLUS ENGINEERS & ARCHITECTS (P) LTD, ENGINEERING CO. LYD KATHMANDU, NEPAL Checked By Submitted By Verified By Approved By Engineer Contract Manager QTY Engineer/CSE Team Leader



| | | | REGIONA | L URBAN Biratnaga | r Metr | opolita | n City | | ROJE | CT | | | |
|------|-------------------|-----------|--|----------------------|----------|--------------|-------------------|---------|-----------|-----------|----------|-------------------------------------|----------|
| | | | | Contract N | lo:- RUI | P/ICB/I | BRT-02 | | | | | | |
| | | | Sum | mary Sheet of M | onthly T | est Rene | ort of 2 | 0mm A | σσ. | | | | |
| | | | - | | | | | | Mo | nth | | | - |
| | | | | | | | | | Ye | | | Augi 201 | |
| | | | | | | | | | | | | | |
| | 1 | | The state of the s | | | | - | 2 | Type of I | Material | Garage . | 20 mm | Agg |
| S.n. | Lab.Ref no. | Date of | Location of | Source of Sample | | ize in mm | / % Pas | sing by | L.A.A.% | Fl and I | CT O/ | 1 X X X 0/ | |
| | | Testing | Sample | Source of Sample | 40 | 20 | 10 | 4.75 | L.A.A. 70 | Fl and I | E1 % | A.I.Y.% | Remarks |
| 1 | RUDP-CA-133 | 1-Aug-18 | Madhumara-Yard | Chisang Khola | 100.00 | 97.07 | 40.06 | 3.83 | 28.76 | (19/20/1 | 7.53 | (20:36 | |
| 2 | RUDP-CA-134 | 2-Aug-18 | DDC-Yard | Chisang Khola | 100.00 | 97.63 | 30.04 | 2.92 | 29.56 | 21,20/1 | 7.72 | 19.89 | |
| 3 | RUDP-CA-135 | 4-Aug-18 | RaniSite | Chisang Khola | 100.00 | 97.11 | 35.81 | 4.57 | 27.78 | (19.96/1 | 8.29 | 21.50 | |
| 4 | RUDP-CA-136 | 5-Aug-18 | R-11 | Chisang Khola | 100.00 | 96.39 | 35.59 | 4.03 | (25.98 | /20.14/1 | | 21.84 | |
| 5 | RUDP-CA-137 | 6-Aug-18 | T3L39 | Chisang Khola | 100.00 | 97.66 | 39.12 | 1.93 | 30,20 | /22.60/1 | | 19.56 | |
| 6 | RUDP-CA-138 | 8-Aug-18 | - R-6 | Chisang Khola | 100.00 | 97.01 | 34.67 | 3.54 | 32.22 | 21.39/1 | 9.51 | 19:36 | |
| 7 | RUDP-CA-139 | 8-Aug-18 | R-2(Branch Road) | Chisang Khola | 100.00 | 96.98 | 39.91 | 4.08 | 27.50 | (21.46/2) | | (19.31 | |
| 8 | RUDP-CA-140 | 10-Aug-18 | N-2 | Chisang Khola | 100.00 | 96.14 | 35.50 | 2.01 | 29.96 | (20.41/1 | | 09.03 | |
| 9 | RUDP-CA-141 | 10-Aug-18 | N-4 | Chisang Khola | 100.00 | 97.15 | 38.68 | 2.69 | 39.90 | 28.44/1 | | 19:38 | |
| 10 | RUDP-CA-142 | 11-Aug-18 | R-12 | Chisang Khola | 100.00 | 96.98 | 33.95 | 2.13 | (32,04 | 20.14/1 | | /20.66 | |
| 11 | RUDP-CA-143 | 12-Aug-18 | R-2 | Chisang Khola | 100.00 | 98.16 | 37.95 | 2.54 | /29192 | (20.58/19 | | 20.09 | |
| 12 | RUDP-CA-144 | 13-Aug-18 | : R-74 | Chisang Khola | 100.00 | 98.56 | 41.27 | 4.56 | 30.48 | (22.07/18 | | (20.38 | |
| 13 | RUDP-CA-145 | 13-Aug-18 | R-36 | Chisang Khola | 100.00 | 98.31 | 43.41 | 2.10 | 26.96 | (20.54/18 | 7.00 | (21.40 | - |
| 14 | RUDP-CA-146 | 14-Aug-18 | T3L21 | Chisang Khola | 100.00 | 97.88 | 33.87 | 3.64 | 127.96 | (21.08/18 | | 19.93 | |
| 15 | RUDP-CA-147 | 15-Aug-18 | T2L18-A | Chisang Khola | 100.00 | 98.58 | 32.94 | 2.64 | 26,90 | 21.72/19 | | 29.46 | - |
| 16 | RUDP-CA-148 | 17-Aug-18 | T3L23 | Chisang Khola | 100.00 | 96.96 | 31.54 | 1.51 | 1 | (23,14/1 | | (21.58 | |
| 17 | RUDP-CA-149 | 18-Aug-18 | T2L26-E | Chisang Khola | 100.00 | 98.34 | 31.84 | 3.30 | (29.72 | 21.25/18 | | 19.79 | |
| 18 | RUDP-CA-150 | 20-Aug-18 | T3L18-B | Chisang Khola | 100.00 | 96.87 | 29.85 | 4.08 | 30.38 | /22.03/18 | | (20.62 | - |
| | | | | | | | | | | | | 3 20.02 | |
| | | | | Spec. Limit: | 100 | 95~100 | 25~55 | 0~10 | <35 | < 25 | | < 25 | |
| | | | | | | | | | | | - | / | |
| | | | Contractor | | | | | | Coi | nsultant | | | |
| | ZHONGHEN | | UCTION GROUP DEERING CO. LTD | | L | BUIL WITH | B.N. CO | ONSULT | TANCY PV | T. LTD | AND | IN JOINT V PLUS ENG IDU, NEPA | INEERS & |
| - | Yadhan cked By | | TOWNERWAY WORD WORD | Submitted By | ×1. | | erified Engineer/ | 2 | | | | Approve Team Le | - |



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|------------|---------------|----------------------|------------------------------|------------------|-----------|-----------|----------|------------------|-----------|---------------|----------|---------|
| | | | | Biratnagar | Metro | politan | City | | | | | |
| | | | | Contract No | - RUDI | /ICB/BI | RT-02 | | | | | |
| | | | Summ | ary Sheet of Mor | thly Te | st Repor | t of 20n | nm Agg | | | | |
| | | | | | | | | | Mon | | Augus | |
| | | | | | | | | | Yes | | 2018 | |
| The second | | | and the second | | | | | | Type of N | Material | 20 mm | Agg |
| S.n. | Lab.Ref no. | Date of | Location of | Source of Sample | | ize in mm | | | L.A.A.% | Fland EI % | A.I.Y.% | Remarks |
| 19 | RUDP-CA-151 | Testing 21-Aug-18 | Sample Koshi-yard | Chisang Khola | 100.00 | 96.35 | 26.99 | 4.75 1.72 | (29.58 | (2).06/19.44 | 21.80 | |
| 20 | RUDP-CA-151 | 24-Aug-18 | R-7 | Chisang Khola | 100.00 | 96.35 | 31.31 | 1.72 | (30.50 | 20.92/17.27 | 19.74 | |
| 21 | RUDP-CA-153 | 26-Aug-18 | Madhumara-Yard | Chisang Khola | 100.00 | 96.93 | 36.17 | 2.30 | 27.58 | 20.13/16.44 | 20.23 | |
| | | | | | | 70.70 | 00117 | 2100 | 27.00 | (20.13/10.11 | 120.25 | |
| | | | | | | W. Taran | | | | Mr. Asian San | 18/11 | |
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| | | | | | | | | | | | | |
| | | | | Spec. Limit : | 100 | 95~100 | 25 55 | 0~10 | <35 | < 25 | - 25 | |
| | | 1-1-1-1 | | Spec. Limit . | 100 | 95~100 | 25~55 | 0~10 | <35 | < 25 | < 25 | |
| | | 1 | Contractor | | | | | | Consu | ltant | | |
| | 1 - 1 - 1 - 1 | | | | | BU | ILDING | DESIG | | ORITY (P) L | TD IN JO | DINT ' |
| | ZHONGHENO | CONSTRU | ICTION GROUP | INTERNATION | NAL | | | | | SULTANCY | | |
| | | | EERING CO.LT | | | | | | | RCHITECTS | | |
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| | 1 11 | 100 | COLUMBRICH ENDER INTERNATION | 1 | | 1 | 0, | | | , | .00 | H |
| | Yadhan | | | M | | di | KX. | | | | 189 | V/ |
| | cked By | | | Submitted | By | Verifie | d By | | | | Approve | By' |
| | ineer | | | Contract Mana | iger | Qty Engi | ineer/CS | E | | | Team Lea | |
| _ | | | | | | - | | | | | | |



ANNEX-4: SOCIAL SAFEGUARD MONITORING /ENVIRONMENTAL MONITORING FORMATS Attached



| 1.4 | Use of private land and agreement with land owners | movement Yes | |
|------------|--|-------------------------|--|
| 5 | Air, Noise and Water Pollution | Water sprinkled by | |
| 5.1 | Dust emission and Noise pollution sites | tanker on such sites. | |
| 5.2 | Water quality monitoring result and locations | ok | |
| 5.3 | Block age of natural drainages ,water logging, drain water discharge into farmland/risky areas | Not Applicable | |
| 6 | • Quarrying of construction materials and Plants Installment | | |
| 6.1 | Quarry/borrow operation sites | Not Applicable | |
| 6.2 | Crusher plant and Asphalt plant operation restoration | Asphalt Plant | |
| 7 | Impact/Disruption of Private properties | | |
| 7.1 | Building structures | Not Applicable | |
| 7.2 | Other utilities | Not Applicable | |
| 8 | Impact/disruption of public | | |
| 0.1 | infrastructures | Not Applicable | |
| 8.1 | Irrigation canal | Not Applicable | |
| 8.2 | Water supply pipe Access road | | |
| 8.3 | TO THE OWNER OF THE OWNER | Not Applicable | |
| 8.5 | Electric/Telephone pole | Not Applicable | |
| | Others | Not Applicable | |
| 9.1 | Sites for cultural and religious values Cultural and religious sensitive spots (if any) | Not Applicable | |
| 10 | Forest and vegetation | | |
| 10.1 | Number of trees removal | 01 | |
| 10.2 | No of tree plantation (Roadside) | Not Applicable | |
| 11 | Accident cases and records | No any records | |
| 12 12.1 | Employment to local people Men and women | Yes, both men and women | |
| 12.2 | Child labor (if any) | No | |
| 13 | Establishment of Safeguard desk and meeting | Yes | |
| 14 | Grievances from local people and addressed | Yes | |





Regional Urban Development Project(RUDP)

Social Safeguard Monitoring

Inventory of Social Facilities

1.General information

Subproject: -RUDP/ICB/BRT/2

Month/Year: - Aug 2018

Name of Contractor: -ZHONGGHENG Construction

| Type of Worker | s | | Camp-1 | Camp-2 | Camp-3 | Camp-4 | Camp-5 | Camp-6 | Camp-7 | Camp-8 | Camp-9 | Camp-10 | Remarks |
|------------------|-----------|-------------|---------|------------|--------|----------|---------|---------|--------|---------|---------|---------|---------|
| Local | | Male | 68 | 35 | 25 | 18 | 19 | 18 | 17 | 22 | 19 | 9 | |
| Local | | Female | 0 | 2 | 5 | 0 | 0 | 2 | 4 | 0 | 0 | 0 | |
| Non-Loc | al | Male | 5 | 16 | 23 | 23 | 18 | 21 | 13 | 8 | 19 | 16 | |
| NOII-LOC | ai | Female | 1 | 2 | 3 | 5 | 0 | 3 | 1 | 0 | 0 | 0 | |
| Child Lab | | Male | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | |
| Child Labo | our | Female | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | |
| 3. Source and a | dequacy | of drinkin | g wate | r facility | in the | labour c | amp(us | e code) | | | | | |
| Sources | | camp-1 | Camp-2 | Camp-3 | Camp-4 | Camp-5 | Camp-6 | Camp-7 | Camp-8 | Camp-9 | Camp-10 | Re | marks |
| a. Piped water | | 2 | 2 | 2 | | | 2 | 2 | 2 | 2 | | | |
| b.Well/Spring | | 2 | 2 | 2 | 2 | 2 | | | 4 | - 2 | 2 | | |
| c.Tanker | | | | | | | × | | | | | | |
| d | | | | | | | | | | | | | |
| Code: | | | | | | | | | | | | | |
| Insufficient-1 | | Sufficient | -2 | Plenty- | 3 | | | | | | | | |
| 4. Type and nur | mber of t | oilets in t | he labo | ur cam | (write | down th | ne numl | ber) | | | | | |
| Туре | Camp-1 | Camp-2 | Camp-3 | Camp-4 | Camp-5 | Camp-6 | Camp-7 | Camp-8 | Camp-9 | Camp-10 | | Remark | s |
| a.Pit Latrine | | | - | | 1 | | | | 1 | | | | |
| b.Pan | 4 | 2 | 2 | 1 | | 1 | 1 | 1 | 7 | 1 | | | |
| c.Open | | | | | | | | | | | | | |
| d | | | | | | | | | | | | | |
| 5. Energy used i | n labour | camp (tic | k mark | | | | | | | | | | |
| Sources of Ener | Camp-1 | Camp-2 | Camp-3 | Camp-4 | Camp-5 | Camp-6 | Camp-7 | Camp-8 | Camp-9 | Camp-10 | | Remark | 5 |
| a. Firewood | | | | | | | | | | | | | |
| b.Kerosene | | | | | | | | | | | | | |
| c. L.P Gas | ٧ | ٧ | ٧ | ٧ | ٧ | ٧ | ٧ | ٧ | ٧ | ٧ | - | | |





Regional Urban Development Project (RUDP) Social Safeguard Monitoring Status of Key Social Issues Compliance

Subproject Road:-RUDP/ICB/BRT/2

Month/Year: Aug 2018

Name of Contractor :-ZHONGGHENG Construction GroupInternational Engineering Co pvt Beijing Chaina.

Contract Package: RUDP/ICB/BRT/2

| | | Co | mpliance Sta | itus | | | |
|-----|--|------|--------------|------|------------------------|--------------------|----------|
| S.N | Key Social Issuse | Full | Partial | None | Implementing Agency | Note of Remarks | Deadline |
| 1 | Availability of drinking water services | ٧ | | | | | |
| 2 | Availability of toilet facility in campsite | ٧ | | | | | |
| 3 | Legal source of fuel wood use | | | ٧ | | | |
| 4 | Legal document of fuel wood source | | | ٧ | | | |
| 5 | Use of safety accessories | ٧ | | | | | |
| 6 | Availability of first aid facility | ٧ | | * | | | |
| 7 | Basic wage rate to construction workers | ٧ | | | | | |
| 8 | Equal wage rate to male and female workers | | \ | | | | |
| 9 | Compensation of temporarily occupied land | ٧ | | | | | |
| 10 | Compensation of temporarily occupied buildings | ٧ | | | | | |
| 11 | Legal document of temporarily occupied assets | ٧ | | | | | |
| 12 | Non use of child labour in construction activities | ٧ | | | | | |



Verified by:

Monitored by:



<u>Environmental Monitoring Format</u> Regional Urban Development Project (RUDP)/Biratnagar

Name of Sub Project: RUDP/ Biratnagar Contract Package: RUDP/ICB/BRT/02

Sub-project Component: - Road Lanes Improvement/ Sewerage Drainage

Month: August 2018

| - | 1. | _ | | | | ٠ |
|---|----|---|---|---|-----|---|
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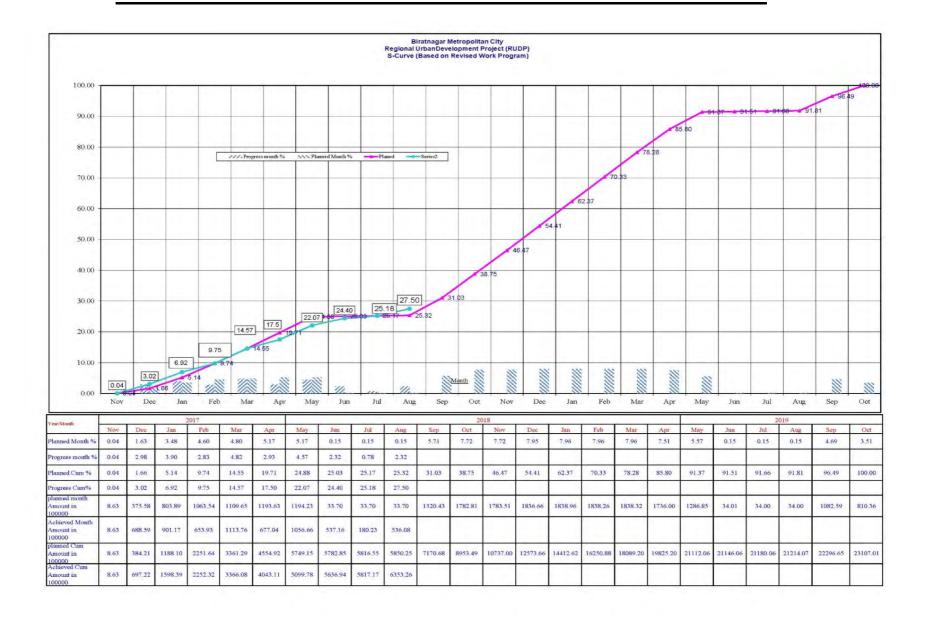
| SN | . Activity | Description/Present Status (Compliance/Partially Compliance/Non Compliance | Remarks/ Corrective actions for Non- Compliance |
|----------|---|--|---|
| 1.1 | Training Health, Safety and EMP trainings and awareness | Yes | |
| 1.2 | Others awareness and skill trainings | No | |
| 2 2.1 | Occupational health and safety Insurance for workers | Yes | |
| 2.2 | Personal Protective Equipment (PPE) provided to labors and is using (helmet, facemasks, muffles, gloves, boots, jacket, goggles etc.) | Daily Provided | |
| 2.3 | Public notification Safety and warning signs and informative signboards in working sites for work safety | Yes Provided | |
| 2.4 | Use of barricades, caution tape and flag | Daily Used | |
| 3 | Campsite management | DDC, Kanchanbari, | |
| 3.1 | Location | Shanti CHowk, Rani | |
| 3.2 | First aid facilities available at camp and worksites | Yes | |
| 3.3 | Drinking water supply and sanitation facilities/ pit latrines | | |
| 3.4 | Waste Disposal and Management facilities | Tap water/ Hand Pump Yes | |
| 3.5 | Type of fuel used for cooking | L.P.G | |
| 4 | Spoil and Construction material Management | | |
| 4.1 | Cut and fill balance maintained or not, Reuse of spoil materials | Cut & Fill balance maintained | |
| 4.2 | Use of safe spoil disposal locations | Not Applicable | |
| 4.3 | Disturbance to Pedestrian and traffic movement | No any disturbance to pedestrians & traffic | |





ANNEX-5: S-CURVE Attached







MASTER PLAN OF RUDP PROJECT



