

MANDAL TOLA TO PODDAR TOLA.  
MMCSY-SC

**Measurement Book**

Schedule XLV-Form No. 134

R.W.D. KATHAR DIVISION

SAMELL SUB-DIVISION

(No-1997)

M/S NEHA ENTERPRISES

| Particulars                           | Details of actual measurement |    |    |    | Contents of area |
|---------------------------------------|-------------------------------|----|----|----|------------------|
|                                       | No.                           | L. | B. | D. |                  |
| Name of work:- Const. and Maintenance |                               |    |    |    |                  |
| of road from Mandel tola to           |                               |    |    |    |                  |
| Peddar tola in sameli block           |                               |    |    |    |                  |
| Name of Agency:- M/s Naha Enterprises |                               |    |    |    |                  |
| Agreement:- 65 SBD 2020-21            |                               |    |    |    |                  |
| Date of work:- 17.03.2020             |                               |    |    |    |                  |
| Date of completion:- work in progress |                               |    |    |    |                  |
| Abstract of Cost                      |                               |    |    |    |                  |
|                                       |                               |    |    |    |                  |
|                                       |                               |    |    |    |                  |
| Date of entry:- 22.2.2021             |                               |    |    |    |                  |

|     |                        |  |  |  |  |
|-----|------------------------|--|--|--|--|
| 21. | For setting of working |  |  |  |  |
|     | benchmark/reference    |  |  |  |  |
|     | pillars                |  |  |  |  |
|     | Benchmark pillars      |  |  |  |  |
|     | Qty vide TMB P-1       |  |  |  |  |
|     | 2:1 Qty = 2 Nos        |  |  |  |  |
|     | @ 4049.29 each = 8098  |  |  |  |  |
|     | Reference pillars      |  |  |  |  |
|     | Qty vide TMB P-1       |  |  |  |  |
|     | 2:1 Qty = 4 Nos        |  |  |  |  |
|     | @ 1857.15 each = 7428  |  |  |  |  |
|     | c/o = 15526            |  |  |  |  |
|     |                        |  |  |  |  |
|     |                        |  |  |  |  |
|     |                        |  |  |  |  |

Continuation

| Particulars | Details of actual measurement                                                           |    |    |       | Contents of area |
|-------------|-----------------------------------------------------------------------------------------|----|----|-------|------------------|
|             | No.                                                                                     | L. | B. | D.    |                  |
|             |                                                                                         |    |    | B.F = | 155.26           |
| 2/2.        | Cleaning and grubbing road land including uprooting wild vegetation                     |    |    |       |                  |
|             | Qty vide TMB P-2                                                                        |    |    |       |                  |
|             | 2.0 Qty = 0.81 Ha                                                                       |    |    |       |                  |
|             | ② 52.970.33 / Ha = 42905                                                                |    |    |       |                  |
| 3/3.        | Box cutting - From top for roadway in soil using manual means for carrying of cut earth |    |    |       |                  |

|      |                                                                                                      |  |  |  |  |
|------|------------------------------------------------------------------------------------------------------|--|--|--|--|
|      | Qty vide TMB P-2                                                                                     |  |  |  |  |
|      | 2.0 Qty = 29.63 m <sup>3</sup>                                                                       |  |  |  |  |
|      | ② 75.57 / m <sup>3</sup> = 2239                                                                      |  |  |  |  |
| 4/4. | Const. of embankment with approved material deposited from road way cutting and excavation from area |  |  |  |  |
|      | Qty vide TMB P-3                                                                                     |  |  |  |  |
|      | 2.0 Qty = 17.78 m <sup>3</sup>                                                                       |  |  |  |  |
|      | ② 26.68 / m <sup>3</sup> = 474                                                                       |  |  |  |  |
| 5/5. | Const. of embankment with approved material obtained from borrow pits with a load                    |  |  |  |  |

Continuation 402 61144

| Particulars                     | Details of actual measurement |    |    |     | Contents of area |
|---------------------------------|-------------------------------|----|----|-----|------------------|
|                                 | No.                           | L. | B. | D.  |                  |
|                                 |                               |    |    | B.F | 61144            |
| up to 1000 m                    |                               |    |    |     |                  |
| Qty vide TMBP-3                 |                               |    |    |     |                  |
| 2-c Qty = 243.5 m <sup>3</sup>  |                               |    |    |     |                  |
| @ 143.2/m <sup>3</sup>          |                               |    |    |     | 38163            |
|                                 |                               |    |    |     | 94873            |
| 6/6. Const. of embankment       |                               |    |    |     |                  |
| with approved material          |                               |    |    |     |                  |
| obtained from borrow            |                               |    |    |     |                  |
| pits lead up to                 |                               |    |    |     |                  |
| 1000 m                          |                               |    |    |     |                  |
| Qty vide TMBP-3                 |                               |    |    |     |                  |
| 2-c Qty = 243.27 m <sup>3</sup> |                               |    |    |     |                  |

|                                  |  |  |  |  |        |
|----------------------------------|--|--|--|--|--------|
|                                  |  |  |  |  |        |
|                                  |  |  |  |  |        |
| 7/7. Const. of subgrade &        |  |  |  |  |        |
| earthen shoulders                |  |  |  |  |        |
| with approved                    |  |  |  |  |        |
| material obtained                |  |  |  |  |        |
| from borrow pits                 |  |  |  |  |        |
| lead up to 1000 m                |  |  |  |  |        |
| Qty vide TMBP-4                  |  |  |  |  |        |
| 2-c Qty = 1746.15 m <sup>3</sup> |  |  |  |  |        |
| @ 192.04/m <sup>3</sup>          |  |  |  |  | 335331 |

|                        |  |  |  |  |  |
|------------------------|--|--|--|--|--|
| 8/8. Const. of USB for |  |  |  |  |  |
| by providing well      |  |  |  |  |  |
| graded material        |  |  |  |  |  |
| spreading in uniform   |  |  |  |  |  |
| layers                 |  |  |  |  |  |

Cp = 480977

| Particulars | Details of actual measurement |    |    |                                                                  | Contents of area |
|-------------|-------------------------------|----|----|------------------------------------------------------------------|------------------|
|             | No.                           | L. | B. | D.                                                               |                  |
|             |                               |    |    | Net B.F =                                                        | 480947<br>315317 |
|             |                               |    |    | Qty vide TMB P-5 ✓                                               |                  |
|             |                               |    |    | 2-c Qty = 606.8 m <sup>3</sup>                                   |                  |
|             |                               |    |    | @ 2661.31/m <sup>3</sup> =                                       | 1614883          |
| 9/16        |                               |    |    | Providing and fixing of typical MMBSS                            |                  |
|             |                               |    |    | informatory sign board with logo.                                |                  |
|             |                               |    |    | Qty vide TMB P-14                                                |                  |
|             |                               |    |    | 2-c Qty = 3 Nos ✓                                                |                  |
|             |                               |    |    | @ 9711.63 each =                                                 | 29135            |
| 7/12        |                               |    |    | Conc. of 1m reinforced                                           |                  |
|             |                               |    |    | Qty vide TMB P-9 ✓                                               |                  |
|             |                               |    |    | 2-c Qty = 156.06 m <sup>3</sup>                                  |                  |
|             |                               |    |    | @ 6536.41/m <sup>3</sup> =                                       | 1020072          |
| 11/23       |                               |    |    | E/W in excavation for foundation of structure                    |                  |
|             |                               |    |    | Qty vide TMB P-6 ✓                                               |                  |
|             |                               |    |    | 2-c Qty = 30.25 m <sup>3</sup>                                   |                  |
|             |                               |    |    | @ 279.09/m <sup>3</sup> =                                        | 8442             |
| 12/24       |                               |    |    | Providing pcc M15 concrete for plain concrete in open foundation |                  |

| Particulars                            | Details of actual measurement |    |    |      | Contents of area |
|----------------------------------------|-------------------------------|----|----|------|------------------|
|                                        | No.                           | L. | B. | D.   |                  |
|                                        |                               |    |    | B.F. | 3153479          |
| Qty vide TMB P-6                       |                               |    |    |      |                  |
| 2-c Qty = 4.9 m <sup>3</sup>           |                               |    |    |      |                  |
| @ 5497.37/m <sup>3</sup>               |                               |    |    |      | 26946            |
| 13/25. P/v plain cement                |                               |    |    |      |                  |
| Concrete M20 on sub-structure          |                               |    |    |      |                  |
| Qty vide TMB                           |                               |    |    |      |                  |
| B/P/P-7 2-c Qty = 17.77 m <sup>3</sup> |                               |    |    |      |                  |
| B/P/P-7 2-c Qty = 15.74 m <sup>3</sup> |                               |    |    |      |                  |
| Total Qty = 33.51 m <sup>3</sup>       |                               |    |    |      |                  |
| @ 6323.03/m <sup>3</sup>               |                               |    |    |      | 211885           |

|                                 |  |  |  |  |               |
|---------------------------------|--|--|--|--|---------------|
| 14/26. P/v and laying           |  |  |  |  |               |
| RCC pipe ND-3 for               |  |  |  |  |               |
| Culvert on first class          |  |  |  |  |               |
| bedding                         |  |  |  |  |               |
| Qty vide TMB P-7                |  |  |  |  |               |
| Qty = 7.5 m <sup>3</sup>        |  |  |  |  |               |
| @ 3863.03/m <sup>3</sup>        |  |  |  |  | 28972         |
| 15/28. E/10 in excavation       |  |  |  |  |               |
| for foundation of               |  |  |  |  |               |
| structures up to 2.0 m          |  |  |  |  |               |
| depth                           |  |  |  |  |               |
| Qty vide TMB P-8                |  |  |  |  |               |
| 2-c Qty = 223.55 m <sup>3</sup> |  |  |  |  |               |
| @ 279.09/m <sup>3</sup>         |  |  |  |  | 62391         |
| Continuation                    |  |  |  |  | C/O = 3483673 |

| Particulars | Details of actual measurement                                                                                                                                          |    |          | Contents of area |
|-------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----|----------|------------------|
|             | No.                                                                                                                                                                    | L. | B.<br>D. |                  |
|             |                                                                                                                                                                        |    | B.F =    | 3483673          |
| 16/29.      | Provide pcc M15<br>grade concrete<br>for plain concrete<br>in open foundation<br><br>Qty vide TMB P-8<br>2 c Qty = 15.85 m <sup>3</sup> /<br>⑤ 54.99 /m <sup>3</sup> = |    |          | 87165            |
| 17/30.      | P/v Concrete for pcc/<br>RCC M20 in foundation<br><br>Qty vide T.M.B                                                                                                   |    |          |                  |
| B/F/P-10    | 2 c Qty = 4.5 m <sup>3</sup> /                                                                                                                                         |    |          |                  |
| B/F/P-10    | 2 c Qty = 63.33 m <sup>3</sup> /                                                                                                                                       |    |          |                  |

|        |                                                |        |
|--------|------------------------------------------------|--------|
|        | Limit of Qty = 67.81 m <sup>2</sup>            |        |
|        | Limit of Qty = 66.8 m <sup>2</sup>             |        |
|        | ⑥ 6123.68 / m <sup>2</sup> =                   | 40306  |
| 18/31. | S/P/P HYSD bar reinforcement in foundation     |        |
|        | Qty vide TMBP-9                                |        |
|        | 2.e Qty = 0.20 MT                              |        |
|        | ⑥ 51,684.78 / MT =                             | 10337  |
| 19/32. | P/v plain cement concrete M20 in substructure, |        |
|        | Qty vide TMBP-11                               |        |
|        | 2.e Qty = 32.5 m <sup>3</sup>                  |        |
|        | ⑥ 6323.03 / m <sup>3</sup> =                   | 205498 |

| Particulars | Details of actual measurement    |    |    |      | Contents of area |
|-------------|----------------------------------|----|----|------|------------------|
|             | No.                              | L. | B. | D.   |                  |
|             |                                  |    |    | B.F2 | 4195734.         |
| 20/34       | Providing RCC M 25               |    |    |      |                  |
|             | in Substructure                  |    |    |      |                  |
|             | Qty vide TMBP                    |    |    |      |                  |
| B/P/P-11    | 2-c Qty = 7.63 m <sup>3</sup>    |    |    |      |                  |
| B/P/P-11    | 2-c Qty = 12.69 m <sup>3</sup>   |    |    |      |                  |
|             | Total Qty = 20.32 m <sup>3</sup> |    |    |      |                  |
|             | @ 6953.25/m <sup>3</sup> =       |    |    |      | 141220           |
| 21/35       | S/F/P HYSD bars -                |    |    |      |                  |
|             | reinforcement in                 |    |    |      |                  |
|             | Substructure.                    |    |    |      |                  |
|             | Qty vide TMBP                    |    |    |      |                  |

|          |                        |  |  |  |        |
|----------|------------------------|--|--|--|--------|
| B/P/P-10 | 2-c Qty = 1762.33 kg   |  |  |  |        |
| B/P/P-11 | 2-c Qty = 515.28 kg    |  |  |  |        |
|          | Total Qty = 2277.62 kg |  |  |  |        |
|          | or 2.28 MT             |  |  |  |        |
|          | @ 51830.76/MT =        |  |  |  | 118174 |

|       |                                |  |  |  |       |
|-------|--------------------------------|--|--|--|-------|
| 22/36 | Backfilling behind             |  |  |  |       |
|       | Abutment wing walls            |  |  |  |       |
|       | & return wall                  |  |  |  |       |
|       | Qty vide TMBP-13/              |  |  |  |       |
|       | 2-c Qty = 65.96 m <sup>3</sup> |  |  |  |       |
|       | @ 752.08/m <sup>3</sup> =      |  |  |  | 49607 |

|       |                      |  |  |  |  |
|-------|----------------------|--|--|--|--|
| 23/37 | Providing and laying |  |  |  |  |
|       | filter media with    |  |  |  |  |
|       | granular crushed     |  |  |  |  |
|       | aggregates           |  |  |  |  |

cb = 4504905

| Particulars | Details of actual measurement |    |    |    | Contents of area                  |
|-------------|-------------------------------|----|----|----|-----------------------------------|
|             | No.                           | L. | B. | D. |                                   |
|             |                               |    |    |    | B.F = 4504805                     |
|             |                               |    |    |    | Qty vide TMBP-13                  |
|             |                               |    |    |    | 2-c Qty = 39.64 m <sup>3</sup>    |
|             |                               |    |    |    | @ 2561.53/m <sup>3</sup> = 141179 |
| 24/38.      |                               |    |    |    | P/v and laying re-                |
|             |                               |    |    |    | inforced cement                   |
|             |                               |    |    |    | Concrete M30 in                   |
|             |                               |    |    |    | superstructure                    |
|             |                               |    |    |    | Qty vide TMBP-13                  |
|             |                               |    |    |    | 2-c Qty = 7.63 m <sup>3</sup>     |
|             |                               |    |    |    | @ 7526.46/m <sup>3</sup> = 57427  |
|             |                               |    |    |    |                                   |
|             |                               |    |    |    |                                   |
| 25.         |                               |    |    |    | S/F R.M.C.D. 240                  |
|             |                               |    |    |    | reinforcement in                  |
|             |                               |    |    |    | superstructures                   |
|             |                               |    |    |    | Qty vide TMBP-12                  |
|             |                               |    |    |    | 2-c Qty = 0.701 MT                |
|             |                               |    |    |    | @ 52960.69/MT = 37125             |
| 26/40.      |                               |    |    |    | P/v reinforced/plain              |
|             |                               |    |    |    | cement concrete M20               |
|             |                               |    |    |    | grade in parapet                  |
|             |                               |    |    |    | wall.                             |
|             |                               |    |    |    | Qty vide TMBP-14                  |
|             |                               |    |    |    | 2-c Qty = 2.4 m <sup>3</sup>      |
|             |                               |    |    |    | @ 6323.03/m <sup>3</sup> = 15175  |
|             |                               |    |    |    | C/O = 4755711                     |

Continuation

[illegible]

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