

cont. Jitendra Kumar

Name of work:- Re-weir Canal to Karmahar to Damsale

M M Unsy (sc)

Schedule XLV-Form No. 134

Executive Engineer. R.W.D. Works

DIVISION  
lekar

Assistant Engineer. R.W.D. work

SUB-DIVISION  
lekar

Measurement Book

950

Certified that this P.B. Contains  
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Avinash Kumar, S.D.O. R.W.D.  
Works Sub-Division Tekari.

825/1122

Executive Engineer /  
R.W.D. Works Division  
A. Tekari  
25-01-22

Sch. XLV-Form No. 134

Executive Engineer. R.W.D. Division  
Tekari  
Assistant Engineer R.W.D. Sub-Division  
Tekari

**Measurement Book**

No. 950

Name of Officer \_\_\_\_\_

Date of first entry \_\_\_\_\_

Date of last entry \_\_\_\_\_



1st on RA/C bill

1.

Name of work -

Situation of work -

Agency by which work is executed -  
Date of

Date of measurement -

No. and date of agreement.  
(These four lines are for the use of the

(These four lines should be repeated at the commencement of the measurements relating to each work).

| Particulars                                        | Details of actual measurement |    |    |    | Contents of area       |
|----------------------------------------------------|-------------------------------|----|----|----|------------------------|
|                                                    | No.                           | L. | B. | D. |                        |
| Name of work - Rewai canal to Kumhar tali Dam tali |                               |    |    |    |                        |
| Agency - Jitendra kumar                            |                               |    |    |    |                        |
| Agreement no - 37/SBD/mmasy-sc/2021-22             |                               |    |    |    |                        |
| Date of start of work - 24/01/2022                 |                               |    |    |    |                        |
| Date of completion - 23/10/2022                    |                               |    |    |    |                        |
| Measurement                                        |                               |    |    |    |                        |
| (1) const. of reference & working bench mark       |                               |    |    |    |                        |
| — do —                                             |                               |    |    |    | ent = 0.677 km         |
| (2) const. of reference pillar                     |                               |    |    |    |                        |
| — do —                                             |                               |    |    |    | ent = 0.677 km         |
| 3. clearing & grubbing road land                   |                               |    |    |    |                        |
| 27 x 25 x 7.0 = 472.5 m <sup>2</sup>               |                               |    |    |    |                        |
|                                                    |                               |    |    |    | = 0.47 hect            |
| (4) const. of embankment with approved material    |                               |    |    |    |                        |
| — do —                                             |                               |    |    |    |                        |
| road upto 1000m                                    |                               |    |    |    |                        |
| 9 x 25 x 7 x 0.5 = 787.5 m <sup>3</sup>            |                               |    |    |    |                        |
| Limit to 783.82 m <sup>3</sup>                     |                               |    |    |    |                        |
| Continuation                                       |                               |    |    |    | 783.819 m <sup>3</sup> |

| Particulars                                      | Details of actual measurement |    |    |          | Contents of area               |
|--------------------------------------------------|-------------------------------|----|----|----------|--------------------------------|
|                                                  | No.                           | L. | B. | D.       |                                |
| ⑤ const. of embankment with approved material    |                               |    |    |          |                                |
| — — — do — — —                                   |                               |    |    |          |                                |
| up to 100m uad                                   |                               |    |    |          |                                |
| 21 X 25 X 7 X 0.50 =                             |                               |    |    |          | 1837.50m <sup>3</sup>          |
|                                                  |                               |    |    | Limit to | 1828.91m <sup>3</sup>          |
| ⑥ const. of subgrade & earthen shoulder          |                               |    |    |          |                                |
| — — — do — — —                                   |                               |    |    |          |                                |
| as per tech. specification                       |                               |    |    |          |                                |
| 23 X 25 X 7 X 0.35 =                             |                               |    |    |          | 1408.75m <sup>3</sup>          |
| <del>2 X 22 X 25 X 1.0 X 0.22</del>              |                               |    |    |          | <del>220.00m<sup>3</sup></del> |
| 2 X 22 X 25 X 1.10 X 0.25 =                      |                               |    |    |          | 302.50m <sup>3</sup>           |
|                                                  |                               |    |    | Total    | 1711.25m <sup>3</sup>          |
| ⑦ const. of granular subbase                     |                               |    |    |          |                                |
| — — — do — — —                                   |                               |    |    |          |                                |
| 22 X 25 X 4.05 X 0.20 =                          |                               |    |    |          | 445.50m <sup>3</sup>           |
| 1 X 18 X 4.05 X 0.20 =                           |                               |    |    |          | 14.58m <sup>3</sup>            |
|                                                  |                               |    |    |          | 460.08m <sup>3</sup>           |
| 2 X 25 X 3.50 X 0.10 =                           |                               |    |    |          | 17.50m <sup>3</sup>            |
| 1 X 25 X 3.2 X 0.10 =                            |                               |    |    |          | 8m <sup>3</sup>                |
|                                                  |                               |    |    | Total    | 485.58m <sup>3</sup>           |
| ⑧ Earthwork in excavation of found. — — do — — — |                               |    |    |          |                                |
| 2 X 6.30 X 1.4 X 1.5 =                           |                               |    |    |          | 26.46m <sup>3</sup>            |
| 1 X 5.9 X 1.5 X 0.30 =                           |                               |    |    |          | 2.66m <sup>3</sup>             |
| 2 X 7.6 X 2.3 X 1.60 =                           |                               |    |    |          | 55.94m <sup>3</sup>            |
| 4 X 1.6 X 2.097 X 1.60 =                         |                               |    |    |          | 21.47m <sup>3</sup>            |
|                                                  |                               |    |    | Total    | 106.53m <sup>3</sup>           |

Continuation

## Sch. XLV-Form No. 134

| Particulars                                                       | Details of actual measurement |    |          |    | Contents of area     |
|-------------------------------------------------------------------|-------------------------------|----|----------|----|----------------------|
|                                                                   | No.                           | L. | B.       | D. |                      |
| ⑨ Providing concrete for plain/reinforced concrete in open found. |                               |    |          |    |                      |
|                                                                   |                               |    |          |    | $2.646 \text{ m}^3$  |
| 2X 6.30 X 1.4 X 0.15 =                                            |                               |    |          |    | $2.65 \text{ m}^3$   |
| 2X 7.6 X 2.3 X 0.20 =                                             |                               |    |          |    | $6.992 \text{ m}^3$  |
| 4X 1.6 X 2.097 X 0.20 =                                           |                               |    |          |    | $2.684 \text{ m}^3$  |
|                                                                   |                               |    | Total    |    | $12.322 \text{ m}^3$ |
|                                                                   |                               |    | Limit to |    | $12.320 \text{ m}^3$ |
| ⑩ Providing concrete for plain/reinforced concrete in open found. |                               |    |          |    |                      |
|                                                                   |                               |    |          |    |                      |
| 2X 6 X 1.025 X 1.35 =                                             |                               |    |          |    | $16.610 \text{ m}^3$ |
| 1X 5.9 X 1.50 X 0.25 =                                            |                               |    |          |    | $2.210 \text{ m}^3$  |
| 2X 6.8 X 1.80 X 1.40 =                                            |                               |    |          |    | $34.27 \text{ m}^3$  |
| 4X 1.6 X 1.597 X 1.40 =                                           |                               |    |          |    | $14.31 \text{ m}^3$  |
|                                                                   |                               |    | Total    |    | $67.40 \text{ m}^3$  |
| ⑪ Plain/reinforced cement concrete in substructure                |                               |    |          |    |                      |
|                                                                   |                               |    |          |    |                      |
| 2X 6 X 0.533 X 1.8 =                                              |                               |    |          |    | $11.52 \text{ m}^3$  |
| 2X 6 X 0.40 X 0.60 =                                              |                               |    |          |    | $2.88 \text{ m}^3$   |
| Reduct ② 2X 3.14                                                  |                               |    |          |    |                      |
| ② 2 X 0.785 X 1.2 X 1.2 X 0.6 =                                   |                               |    |          |    | $1.356 \text{ m}^3$  |
| ④ 2 X 6.8 X 1.8 X 1.40 =                                          |                               |    |          |    | $34.27 \text{ m}^3$  |
| ④ 4 X 1.6 X 1.597 X 1.40 =                                        |                               |    |          |    | $14.31 \text{ m}^3$  |

|              |                       |  |       |  |                      |
|--------------|-----------------------|--|-------|--|----------------------|
| Continuation |                       |  |       |  | Total                |
| ①            | 2X 6 X 1.0 X 1.8 =    |  |       |  | $21.60 \text{ m}^3$  |
|              | 4X 2X 0.749 X 2.090 = |  |       |  | $12.52 \text{ m}^3$  |
|              |                       |  | Total |  | $47.164 \text{ m}^3$ |
|              | Limit to              |  |       |  | $47.11 \text{ m}^3$  |

| Particulars                                                                               | Details of actual measurement |                |        |       | Contents of area    |
|-------------------------------------------------------------------------------------------|-------------------------------|----------------|--------|-------|---------------------|
|                                                                                           | No.                           | L.             | B.     | D.    |                     |
| (12) Providing & laying cement concrete knee pipe — — do — —                              |                               |                |        |       |                     |
|                                                                                           | 3X                            | 2.5            |        | =     | 7.5 Rm              |
| (13) Filling in foundation trenches — — do — —                                            |                               |                |        |       |                     |
|                                                                                           | 2X6                           | X 0.405        |        | =     | 4.860m <sup>3</sup> |
|                                                                                           | 1X6.30                        | X 1.5 X 0.9    | =      |       | 8.510m <sup>3</sup> |
| Deduct                                                                                    |                               |                |        |       |                     |
| (=) 1X6.30 X 0.91                                                                         |                               |                |        | = (5) | 5.730m <sup>3</sup> |
|                                                                                           |                               |                | Total  |       | 7.64m <sup>3</sup>  |
| (14) Plain/reinforced cement concrete in substructure — — — do — —                        |                               |                |        |       |                     |
|                                                                                           | 4X2.3                         | X 0.40 X 0.150 | =      |       | 0.55m <sup>3</sup>  |
|                                                                                           | 2X6.0                         | X 0.70 X 0.20  | =      |       | 1.68m <sup>3</sup>  |
|                                                                                           | 2X6.0                         | X 0.40 X 0.240 | =      |       | 1.15m <sup>3</sup>  |
|                                                                                           | 2X2.6                         | X 0.450 X 0.30 | =      |       | 0.70m <sup>3</sup>  |
|                                                                                           | 4X0.40                        | X 0.40 X 0.60  | =      |       | 0.38m <sup>3</sup>  |
|                                                                                           |                               |                | Total  |       | 4.46m <sup>3</sup>  |
| (15) Providing & laying reinforced cement concrete in superstructure do — —               |                               |                |        |       |                     |
|                                                                                           | 1X2.6                         | X 6.0 X 2.40   | =      |       | 3.74m <sup>3</sup>  |
| (16) supplying, fitting and placing HYSD bar reinforcement in superstructure — — — do — — |                               |                |        |       |                     |
| slab                                                                                      |                               |                |        |       |                     |
| 12mm bar (Bottom main bar)                                                                |                               |                |        |       |                     |
|                                                                                           | 71                            | X 2.536        | X 0.89 | =     | 160.250kg           |

Continuation

## Sch. XLV-Form No. 134

| Particulars                                                      | Details of actual measurement |               |       |       | Contents of area |
|------------------------------------------------------------------|-------------------------------|---------------|-------|-------|------------------|
|                                                                  | No.                           | L.            | B.    | D.    |                  |
| 10 mm bar                                                        |                               |               |       |       |                  |
|                                                                  | 11X                           | 6             | 0.62  | =     | 40.92kg          |
|                                                                  | <del>21X</del>                | <del>6X</del> |       |       |                  |
|                                                                  | 21X                           | 1.788         | 0.62  | =     | 23.28kg          |
|                                                                  | 11X                           | 6             | 0.62  | =     | 40.92kg          |
| 12 mm Cop, wall & Drivewall                                      |                               |               |       |       |                  |
| 12 mm bar                                                        | 24X                           | 6             | 0.89  | =     | 128.160          |
| 8 mm bar                                                         | 62X                           | 1.6           | 0.395 | =     | 39.184kg         |
| 12 mm bar                                                        | 8X                            | 6             | 0.895 | =     | 42.720kg         |
| 8 mm bar                                                         | 62X                           | 1.9           | 0.395 | =     | 104.842kg        |
| 12 mm bar                                                        | 8X                            | 2.6           | 0.89  | =     | 18.572kg         |
| 8 mm bar                                                         | 42X                           | 1.9           | 0.395 | =     | 31.521kg         |
| 5% cutting & bending                                             |                               |               |       | =     | 31.515kg         |
|                                                                  |                               |               |       | Total | 661.824kg        |
|                                                                  |                               |               |       |       | = 0.662MT        |
| (17) Back filling behind abutment - do -                         |                               |               |       |       |                  |
|                                                                  | 2X                            | 2.0           | 4.504 | 1.8   | = 16.22          |
| Trench filling - do -                                            |                               |               |       |       | 19.16            |
|                                                                  |                               |               |       | Total | 35.38            |
| (18) Providing weep holes - do -                                 |                               |               |       |       |                  |
|                                                                  |                               |               |       | ent = | 36 No.           |
| (19) Providing & fixing of masonry informative sign board - do - |                               |               |       |       |                  |
|                                                                  |                               |               |       | ent = | 2 No.            |

Continuation

G. Singh  
03/02/23  
JE

# Abstract of cost

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Sch. XLV Form No. 134

| Particulars                                                             | Details of actual measurement |         |    |      | Contents of area |
|-------------------------------------------------------------------------|-------------------------------|---------|----|------|------------------|
|                                                                         | No.                           | L.      | B. | D.   |                  |
| 1. const. of reference & working bench mark - do -                      |                               |         |    |      |                  |
| ent =                                                                   | 0.677 km                      | P - (1) |    |      |                  |
| itm - (1) @ Rs 3754.65 =                                                |                               |         |    | Rs   | 2542.            |
| (2) const. of reference pillar - do -                                   |                               |         |    |      |                  |
| ent =                                                                   | 0.677 km                      | P - (1) |    |      |                  |
| itm - (2) @ Rs 1705.74 =                                                |                               |         |    | Rs   | 1155.            |
| (3) clearing & grubbing road & canal - do -                             |                               |         |    |      |                  |
| ent =                                                                   | 0.47 hect                     | P - (1) |    |      |                  |
| itm - (3) @ Rs 52998.20 =                                               |                               |         |    |      |                  |
|                                                                         |                               |         |    | = Rs | 24909.           |
| (4) const. of embankment with approved material upto 1000 m lead - do - |                               |         |    |      |                  |
| ent =                                                                   | 783.82 m <sup>3</sup>         |         |    |      |                  |
|                                                                         | 783.819 m <sup>3</sup>        |         |    |      |                  |
| P - (1) itm - (4)                                                       |                               |         |    |      |                  |
| @ Rs 192.03 =                                                           |                               |         |    | Rs   | 150517.          |
| (5) const. of embankment with approved material up to 100 m lead - do - |                               |         |    |      |                  |
| ent =                                                                   | 1828.91 m <sup>3</sup>        | P - (2) |    |      |                  |
| itm - (5) @ Rs 154.58 =                                                 |                               |         |    |      |                  |
| Continuation                                                            |                               |         |    |      | Rs 282713.       |

## Sch. XLV-Form No. 134

| Particulars                                                             | Details of actual measurement |    |    |      | Contents of area |
|-------------------------------------------------------------------------|-------------------------------|----|----|------|------------------|
|                                                                         | No.                           | L. | B. | D.   |                  |
| ⑥ const. of subgrade & earthen shoulder                                 |                               |    |    |      |                  |
| — do —                                                                  |                               |    |    |      |                  |
| amt = 1711.25 m <sup>3</sup> P-(2)                                      |                               |    |    |      |                  |
| itm - ⑥ @ Rs 176.64                                                     |                               |    |    |      |                  |
|                                                                         |                               |    |    | = Rs | 302275=          |
| ⑦ const. of granular subbase - do -                                     |                               |    |    |      |                  |
| amt = 485.58 m <sup>3</sup> P-(2)                                       |                               |    |    |      |                  |
| itm - ⑦ @ Rs 1741.81                                                    |                               |    |    |      |                  |
|                                                                         |                               |    |    | = Rs | 845788=          |
| ⑧ Earth work in excavation - do -                                       |                               |    |    |      |                  |
| — do —                                                                  |                               |    |    |      |                  |
| amt = 106.53 m <sup>3</sup> P-(2)                                       |                               |    |    |      |                  |
| itm - ⑧ @ Rs 305.42                                                     |                               |    |    |      |                  |
|                                                                         |                               |    |    | = Rs | 32536=           |
| ⑨ Providing concrete for plain/reinforced concrete in open found - do - |                               |    |    |      |                  |
| amt = 12.320 m <sup>3</sup> P-(3)                                       |                               |    |    |      |                  |
| itm - ⑨ @ Rs 4438.66                                                    |                               |    |    |      |                  |
|                                                                         |                               |    |    | = Rs | 54684=           |
| ⑩ Providing concrete for plain/reinforced concrete in open found - do - |                               |    |    |      |                  |
| amt = 67.40 m <sup>3</sup> P-(3)                                        |                               |    |    |      |                  |
| itm - ⑩ @ Rs 4919.10                                                    |                               |    |    |      |                  |
| Continuation                                                            |                               |    |    | = Rs | 331547=          |

## Sch. XLV-Form No. 134

| Particulars                                                          | Details of actual measurement |    |    |      | Contents of area |
|----------------------------------------------------------------------|-------------------------------|----|----|------|------------------|
|                                                                      | No.                           | L. | B. | D.   |                  |
| (11) Plain/reinforced cement concrete in substructure                |                               |    |    |      |                  |
| — — do — —                                                           |                               |    |    |      |                  |
| ent = 47.160 m <sup>3</sup> P-(3)                                    |                               |    |    |      |                  |
| itm - (11) @ Rs 139.15                                               |                               |    |    |      |                  |
|                                                                      |                               |    |    | = Rs | 242362 =         |
| (12) Providing & laying cement concrete lime pipe — — do — —         |                               |    |    |      |                  |
| ent = 7.58 m P-(4)                                                   |                               |    |    |      |                  |
| itm - (12) @ Rs 3758.93                                              |                               |    |    |      |                  |
|                                                                      |                               |    |    | = Rs | 28192 =          |
| (13) Filling in found. trenches                                      |                               |    |    |      |                  |
| — — do — —                                                           |                               |    |    |      |                  |
| ent = 7.64 m <sup>3</sup> P-(4)                                      |                               |    |    |      |                  |
| itm - (13) @ Rs 522.31                                               |                               |    |    |      |                  |
|                                                                      |                               |    |    | = Rs | 3990 =           |
| (14) Plain/reinforced cement concrete in substructure                |                               |    |    |      |                  |
| — — do — —                                                           |                               |    |    |      |                  |
| ent = 4.46 m <sup>3</sup> P-(4)                                      |                               |    |    |      |                  |
| itm - (14) @ Rs 5412.91                                              |                               |    |    |      |                  |
|                                                                      |                               |    |    | = Rs | 24142 =          |
| (15) Providing & laying reinforced cement concrete in superstructure |                               |    |    |      |                  |
| — — do — —                                                           |                               |    |    |      |                  |
| ent = 3.74 m <sup>3</sup> P-(4)                                      |                               |    |    |      |                  |
| itm - (15) @ Rs 6202.50 = Rs                                         |                               |    |    |      | 23197 =          |

Continuation

| Particulars                                                            | Details of actual measurement |    |    |          | Contents of area |
|------------------------------------------------------------------------|-------------------------------|----|----|----------|------------------|
|                                                                        | No.                           | L. | B. | D.       |                  |
| (16) Supplying and fitting<br>Placing HYSD bar<br>— — — do —           |                               |    |    |          |                  |
| ant = 0.662 mTP (4)                                                    |                               |    |    |          |                  |
| P-5 item - (16)                                                        |                               |    |    |          |                  |
| @ Rs 55485.61 = Rs                                                     |                               |    |    |          | 36731 =          |
| (17) Back filling behind<br>abutment — — do —                          |                               |    |    |          |                  |
| ant = 35.38 m <sup>3</sup> P-5                                         |                               |    |    |          |                  |
| item - (17) @ Rs 804.98                                                |                               |    |    |          |                  |
|                                                                        |                               |    |    |          | = Rs 28480 =     |
| (18) Providing weepholes<br>— — — do —                                 |                               |    |    |          |                  |
| ant = 36 No. P-5                                                       |                               |    |    |          |                  |
| item - (18) @ Rs 118.27                                                |                               |    |    |          |                  |
|                                                                        |                               |    |    |          | = Rs 4258 =      |
| (19) Providing & fixing of<br>messy informatory<br>sign board — — do — |                               |    |    |          |                  |
| ant = 2 No.                                                            |                               |    |    |          |                  |
| Page-5 item - (19)                                                     |                               |    |    |          |                  |
| @ Rs 9259.10 = Rs                                                      |                               |    |    |          | 18518 =          |
|                                                                        |                               |    |    | Total Rs | 2438536 =        |
| Add GST - 12% (+)                                                      |                               |    |    | Rs       | 292624 =         |
| Add Labourers 1% (+)                                                   |                               |    |    | Rs       | 24385 =          |
| Add Seigniorage fee                                                    |                               |    |    | Rs       | 43902 =          |
|                                                                        |                               |    |    | Total Rs | 2799447 =        |

Continuation

by  
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