

NER TO KATRASSIN

Schedule XLV-Form No. 134

Tehdarp DIVISION

Neelchhalder SUB-DIVISION

MEASUREMENT BOOK

2633

E E R u D (u) Jehangir DIVISION
A E R u D (u) Makhelani SUB-DIVISION

Measurement Book

No.

2633

Name of officer _____

[Signature]
E. E. R. U. D. (u) DIARION
E. E. R. U. D. (u) DIARION

Date of first entry _____

Date of last entry _____

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NOTES

REFERENCE TO P.W.A. CODE CHAPTER VI

Paras 39 & 81

Jehanabad

1. In recording detailed measurements, the following general instruction should be carefully observed :-
 - (a) Subject to such subsidiary orders as may be laid down by the local Government detailed measurement should be recorded only by Executive of Assistant Engineer or by Executive subordinate in-charges or work to whom measurement books have been supplied to the Executive Engineer for the purpose.
 - (b) All measurements should be near taken down in a measurement book Form 23, issued for the purpose in where else.
 - (c) Each self of measurement should commend with entries stating -
 - (i) In the case of bills for work done :-
 - (a) Full name of work as given in estimate.
 - (b) Situation of work (c) Name of contract.
 - (c) Number and date of his agreement, and
 - (d) Date of measurement.
 - (ii) "Stock" (ii) "Purchase for direct issue to (here entry full name of work as given to estimate)
 - (iii) "Purchases" or (here enter full name of work as given in estimate) Issued to contractor..... on and
 - (d) Date of measurements and should end with the paid initials of the officer marking the measurement, See also paragraph 24, A suitable.

abstract should than be prepared which/Should collect in the case of measurements for work done the total quantities of each district item of work relating to each sanctioned Sub-head.

- (d) As all payment for work suppliers are based on the quantities recorded in the measurement book it is incumbent upon the person taking the measurements to record the quantities clearly & accurately. If measurements are taken in connection with a running contract account on which work has been previously measured he is further responsible (1) that reference to the last set of measurement is recorded and (2) that if the entire job or contract has been completed the fact is recorded prominently just above his initials.
- (e) Entries should be record continuously in the measurement book No. blank pages may be left and no page be turn out. Any page left in adveltenly must be cancelled by diagonal lines. The cancellation being attested, See also paragraph or the public Work Department Code.
- (f) No entry may be erased, of a mistake is made it should be correct (and dated) by the responsible officer in the manner prescribed in paragraph 335 of the Public Work Department Code. When any measurements are cancelled, the cancellation must be supported by the dated initials of the officer ordering the cancellation or by reference to his orders initialled by the officer who made the measurements in either case he reason for cancellation should be provided with an index which should be kept up to date.

Name of work -

Situation of work -

Agency by which work is executed -

Date of measurement -

No. and date of agreement.

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

Particulars	Details of actual measurement				Content of area
	No.	L.	B.	D.	
Name of work:- Repair of road from NER to Katar Sion.					
Agency:- M.G. Construction & Co. Court area Tehanabad					
Ag. No:- 08 MBD/ 2019-20					
Date of Agreement:- 21/01/2020					
Date of Completion:-					
Date of measurement:-					
① Clearing & grubbing of road land - do - do -					
$2 \times 3900 \times 1.00 = 7800 \text{ m}^2$					
Qty. (in Hact.) = $\frac{7800}{10000} = 0.78$ Hact.					
② Dismantling of existing structure (stone/brick masonry) - do - do -					
Qty. = 145.80 m ³					

Continuation

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Particulars	Details of actual measurement				Contents of area
	No.	L.	B.	D.	
③ Removing all types of hume pipe & stacking -do-do-					
Qty = 20m					
④ Construction of Subgrade & another shoulders -do-do-					
$2 \times 1 \times 2500 \times 1.125 \times 0.300 = 1687.50 \text{ m}^3$					
$2 \times 1 \times 1000 \times 1.125 \times 0.250 = 562.50 \text{ m}^3$					
$2 \times 1 \times 200 \times 1.050 \times 0.300 = 126.00 \text{ m}^3$					
$2 \times 1 \times 100 \times 1.000 \times 0.300 = 60.00 \text{ m}^3$					

Qty = 2436.00 m³

⑤ Construction of G.S.B
by providing well graded
material -do-do-

$$6 \times 15.00 \times 1.80 \times 0.175 = 28.35 \text{ m}^3$$

$$5 \times 16.00 \times 1.75 \times 0.150 = 21.00 \text{ m}^3$$

$$2 \times 30.00 \times 1.60 \times 0.175 = 16.80 \text{ m}^3$$

$$3 \times 14.00 \times 1.25 \times 0.175 = 9.188 \text{ m}^3$$

$$8 \times 12.00 \times 1.30 \times 0.150 = 18.720 \text{ m}^3$$

$$2 \times 30.00 \times 1.50 \times 0.170 = 15.300 \text{ m}^3$$

$$4 \times 28.00 \times 1.20 \times 0.125 = 28.520 \text{ m}^3$$

$$5 \times 25.00 \times 1.40 \times 0.175 = 30.625 \text{ m}^3$$

Continuation

Particulars	Details of actual measurement				Contents of area
	No.	L.	B.	D.	
	6	24.00	1.20	0.125	30.2400
	4	17.00	1.30	0.125	11.0500
	Total qty =				204.79

⑥ providing, laying, spreading and compacting WBM 60-II
- do - do -

6	15.00	1.80	0.075	12.15 m ³
5	16.00	1.75	0.075	10.50 m ³
2	30.00	1.60	0.075	7.20 m ³
3	14.00	1.90	0.075	5.98 m ³

8	12.00	1.45	0.075	10.44 m ³
1	30.00	1.30	0.075	2.925 m ³
4	28.00	1.20	0.075	10.08 m ³
4	25.00	1.40	0.075	10.50 m ³
6	24.00	1.20	0.075	12.96 m ³
4	17.00	1.35	0.075	6.885 m ³
9	11.00	1.60	0.075	11.88 m ³
6	13.00	1.80	0.075	10.53 m ³
6	9.00	1.95	0.075	7.90 m ³
6	26.00	1.00	0.075	11.70 m ³
Total qty =				131.63 m ³

Particulars	Details of actual measurement				Contents of area
	No.	L.	B.	D.	
(7) Providing, laying, spreading & compacting of WBM 40:1 - do - do -					
	6x	15.00	1.80	0.175	12.15 m ³
	5x	16.00	1.75	0.175	10.10 m ³
	2x	30.00	1.60	0.175	7.20 m ³
	3x	14.00	2.00	0.175	6.30 m ³
	8x	12.00	1.45	0.175	10.44 m ³
	1x	30.00	1.30	0.175	2.925 m ³
	4x	28.00	1.20	0.175	10.08 m ³
	5x	25.00	1.40	0.175	13.125 m ³
	6x	24.00	1.20	0.175	12.96 m ³

4x	17.00	1.35	0.175		6.885 m ³
9x	11.00	1.60	0.175		11.88 m ³
13x	6.00	1.80	0.175		10.53 m ³
6x	9.00	1.95	0.175		7.90 m ³
6x	26.00	1.20	0.175		14.04 m ³
4x	14.00	1.65	0.175		6.93 m ³
11x	9.50	1.40	0.175		10.97 m ³
23x	4.80	1.35	0.175		11.175 m ³
8x	11.50	1.20	0.175		8.28 m ³
44x	0.90	0.85	0.175		2.52 m ³
16x	1.25	1.00	0.175		1.50 m ³
14x	1.60	1.45	0.175		2.436 m ³
21x	2.60	1.95	0.175		7.985 m ³

Continuation

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Particulars	Details of actual measurement				Contents of area
	No.	L.	B.	D.	
✓					
		16 x 4.80	1.70	0.075	= 9.792 m
		11 x 2.60	1.65	0.075	= 3.57 m
		24 x 1.60	1.45	0.075	= 4.176 m
		8 x 11.00	1.20	0.075	= 7.92 m
		9 x 2.90	1.60	0.075	= 3.132 m
		3 x 5.50	1.70	0.075	= 2.104 m
					Total qty = 219.37
					Area of WBM-II = $\frac{219.37}{0.075} = 2925$

⑧ Providing & applying
primer coat with bitumen

emulsion (SS-1) - do - do -

Qty vide item no - 07

Page no - 05

Qty = 2925.00 m²

⑨ Providing & applying tack
coat with bitumen emulsion

- do - do -

Qty vide item No - 07

Page No - 05

Qty = 2925.00 m²

⑩ Patch work over WBM

formation, laying & rolling
of close graded premix surface

Continuation

- do - do -

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Particulars	Details of actual measurement				Contents of area
	No.	L.	B.	D.	
Qty vide item no - 07					
Page no - 05					
Qty = 2925.00 m ²					
(11) Providing & applying Jack					
Coat with bitumen emulsion					
Rs - do - do -					
40 x 30.00 x 3.75					= 4500.00 m ²
36 x 30.00 x 3.75					= 4050.00 m ²
25 x 30.00 x 3.75					= 2812.50 m ²
29 x 30.00 x 3.75					= 3262.50 m ²
3 x 2.00 x 3.75					= 7.50 m ²

Extra for widening

$$\frac{1}{2} \times 12.00 \times (7.5 - 3.75) = 22.50$$

$$4 \times 15.00 \times \left(\frac{3.75 + 5.85 + 3.75}{3} - 3.75 \right) = 42.00$$

$$2 \times 18.00 \times \left(\frac{3.75 + 6.00 + 3.75}{3} - 3.75 \right) = 42.00$$

$$1 \times 22.00 \times \left(\frac{3.75 + 5.80 + 3.75}{3} - 3.75 \right) = 15.00$$

$$3 \times 20.00 \times \left(\frac{3.75 + 6.00 + 3.75}{3} - 3.75 \right) = 45.00$$

Continuation

$$\text{Qty} = 14779.00$$

Particulars	Details of actual measurement				Contents of area
	No.	L.	B.	D.	
(12) Providing & laying semi-circular brick channel (cross cut)					
- do - do -					
Area vide item No - 11					
Page No - 06					
Area (Qty) = 14779.10 m^2					
Qty (cu) = 14779.11×0.025					
= 369.975 m^3					

(13) Providing & fixing of typical information sign board - do - do -					
Qty = 02 Nos.					
⇒ measurement of Culvert					
(14) E/W in excavation for foundation - do - do -					
Head wall					
$3 \times 2 \times 3.90 \times 1.15 \times 1.20 = 40.365 \text{ m}^3$					
Below pipe					
$3 \times 1 \times 5.35 \times 1.13 \times 0.365 = 6.62 \text{ m}^3$					

Continuation

$$\text{Qty} = 46.986 \text{ m}^3$$

Particulars	Details of actual measurement				Contents of area
	No.	L.	B.	D.	
(15) Providing & laying Pcc m-15 for open foundation -do-					
	3	9.0	1.50	0.150	$= 4.037 m^3$
(16) Half wall for brick masonry -do- -do-					
	3	2	3.60	0.70	$\times 2.18 = 32.961 m^3$
less for pipe					
	3	2	0.7857	$0.530^2 \times 0.530$	
					$= (-) 1.722 m^3$
					$\text{Net} = 31.239 m^3$

(17) Providing Pcc m-15 grade for open foundation -do- do- below pipe level					
	3	1	5.311	1.13	$\times 0.25 = 4.50 m^3$
less for pipe					
	3	0.222	0.7857	$0.830^2 \times 5.849$	
					$= (-) 1.722 m^3$
					$\text{Total} = 2.778 m^3$

(18) Providing & laying Pcc NP3 pipe 600 mm -do- do-					
	3	3	2.50		$= 22.50 m$

Continuation

Abstract of Cost

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Sch. XLV-Form No. 104					Contents of area
Particulars	Details of actual measurement				
	No.	L.	B.	D.	
Name of work :- Repair of					
road from Meer to Karisasi					
Agency :- M.G. Construction					
& Co. Court Area Tehsil					
App. No :- 08 MB 0 / 2019-20					
Date of Agreement - 21/07/2020					
Date of Completion -					

1/1) Clearing & grubbing of road hand - do - do -

R.T.M.B P - 01

0.78 Hect (A) RS. 29524.68

= RS. 38629.10

2/1) Dismantling of existing structure - do - do -

R.T.M.B P - 01

145.80 m² (A) RS. 339.10

= RS. 49426.10

3/1) Removal of all type of huge pipes - do - do - R.T.M.B

P-02

26.10 m (A) RS. 228.68

= RS. 4573.10

Continuation

C.F. RS. 92628.10

Particulars	Details of actual measurement				Contents of area
	No.	L	B	D	
4/c) Construction of Subgrade of new shoulder do do V.T.M.B P-02					
2436.11 m ³ @					Rs. 176.25/m ³
					= Rs. 431240.10
5/c) Construction of G.S.G-II do do V.T.M.B P-03					
204.97 m ³ @					Rs. 1498.24/m ³
					= Rs. 306825.10
6/c) Providing laying & spreading & compacting WBM Gr-II do do					
V.T.M.B P-03					
131.63 m ³ @					Rs. 2572.62
					= Rs. 338736.10
7/c) Providing laying & spreading & compacting WBM Gr-III do do V.T.M.B P-05					
219.37 m ³ @					Rs. 2357.10
					= Rs. 517055.10
8/c) Providing & applying Prime p Coat do do V.T.M.B P-05					
2925.10 m ² @					Rs. 41.10
					= Rs. 120218.10

Continuation

C.F. = Rs. 17,98,902.10

Particulars	Details of actual measurement				Contents of area
	No.	L.	B.	D.	
9/11) Branding & applying down					
9 (cont - do - do - V.T.M.B.P.					
P-05					2925.00 m ²
P-06					14777.00 m ²
					17724.00 m ²
17724.00 m ²					(A) Rs. 13.95
					= Rs. 247250.00
10/12) Branding, laying & rolling					
of premix Surface - do - do -					
V.T.M.B.P-05					
2925 m ²					(A) Rs. 160.06

= Rs. 491576.00

11/12) Branding & laying concrete					
beds bituminous concrete					
- do - do - V.T.M.B.P-07					
369.975 m ³					(A) Rs. 8129.16/m ³
					= Rs. 3007697.00

12/23) F/W in excavation for tank					
- do - do - V.T.M.B.P-07					
46.986 m ³					(A) Rs. 285.17/m ³
					= Rs. 13399.00

13/24) Branding mix for Rec					
4.037 m ³					V.T.M.B.P-08
2.778 m ³					V.T.M.B.P-08

Continuation

6.815 m³ (A) Rs. 4142.64/m³
= Rs. 28232.00

Particulars	Details of actual measurement				Contents of area
	No.	L.	B.	D.	
	B.P.	RS.	5586856.00		
14/25) Brick masonry work in					
Cement mortar - do-do					
V.T.M.B. P-					
31.239	P-08				
10.368	P-09				
41.607	m ³	(A)	RS. 5646.65/		
			= RS. 234940.00		
15/26) Pooniding & laying of					
Rcc NP-3 pipe guttering					
-do-do V.T.M.B. P-08					
22.50 m	(A)	RS. 1103.8/m			
		= RS. 24836.00			
16/27) Plastering with Cement					
mortar (1:4) -do-do					
V.T.M.B. P-09					
115.431	m ²	(A)	RS. 145.95/m ²		
		= RS. 16842.00			
17/22) Pooniding & fixing of					
typical information board					
-do-do V.T.M.B. P-09					
2.00 Nos.	(A)	RS. 9012.00			
		= RS. 18024.00			
Total			RS. 58,81,503.00		

Continuation

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