

Sarada Durni 1st to Durni 1st to Navadish parate

Schedule XIV - 1st to 13th

11.11.14-84

1st to 13th

BHAR P. W. D.

E. R. D. - 1st to 13th

DIVISION

A. K. D. - 1st to 13th

SUB-DIVISION

11.11.14-84

12728

Agency - Rima Singh

Certified That This M.B. Contain (100)
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To Sri... Babar Ram A.E. R.W.D
Work Sub-Div... Kulumbe.....

Yashraj
10/7/20
Executive Engineer
Rural Works Division, M
Works Division, Aurangabad
[Signature]
10/7/20

Schedule KLV - Form No. 134.

E.E. A. K. DIVISION.

A.E. Kulumbe DIVISION.

MEASUREMENT BOOK.

(2728)

211242

Sri Babar Ram A.E. Kulumbe

Date of the entry _____

Use of the entry _____

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				Contents of area
	No.	L.	B.	D.	
1st on A/c bill					
N.P.O. Construction of road from					
Sanda Dymri road Dymri pur					
to Nawadil via Parth village					
Agency - Smt Rina Singh.					
Agreement No. 103 SBD/2020-21					
Date of work start. 28-08-2020					
Date of completion - 27-08-2021					
Date of entry -					
Measurement.					

① clearing and grubbing

road land.					
2 x 20 x 30 x 3.50 =					4200.00 m ²
2 x 20 x 30 x 3.50 =					4200.00 m ²
2 x 2 x 30 x 3.50 =					420.00 m ²
2 x 1 x 10 x 3.50 =					70.00 m ²
					8890.00 m ²
					= 0.89 Hec.

② E/W excavation for

found of structure.

600 mm -

H.H. 1 x 2 x 3.90 x 1.15 x 1.50 =					13.45 m ³
Below pipe. 1 x 1 x 5.35 x 1.13 x 0.365 =					2.21 m ³
1000 mm -					
H.H. 3 x 2 x 6.45 x 1.40 x 1.50 =					81.27 m ³
Below pipe. 3 x 1 x 4.85 x 1.53 x 0.365 =					8.12 m ³
					105.05 m ³

Continuation

Particulars	Details of actual measurement				Contents of area
	No.	L	B	D	
(3) Providing p.c.c M-15 in open foundation.					
600 mm					
H.W. 1 x 2 x		3.90	1.15	0.15	= 1.35 m ³
Below pile 1 x 1 x		5.31	1.13	0.25	= 1.50 m ³
1000 mm					
H.W. 3 x 2 x		6.45	1.40	0.15	= 8.13 m ³
Below pile 3 x 1 x		4.93	1.53	0.25	= 5.66 m ³
					<u>16.64 m³</u>
(4) Providing p.c.c M-20 in substructure.					
600 mm					
H.W. 1 x 2 x		3.60	$\frac{1.50+0.50}{2}$	2.78	= 14.01 m ³
Parapet 1 x 2 x		3.60	0.40	0.60	= 1.73 m ³
Less pile 1 x 2 x		0.7857	$(0.85)^2$	0.53	= (-) 0.57 m ³
1000 mm					
H.W. 3 x 2 x		6.15	$\frac{1.25+0.40}{2}$	5.18	= 96.81 m ³
Parapet 3 x 2 x		6.15	0.40	0.60	= 8.86 m ³
Less pile 3 x 2 x		0.7857	$(1.23)^2$	0.622	= (-) 4.43 m ³
					<u>116.41 m³</u>
(5) Providing and laying R.C.C. N.B 4. Pile of 600 mm.					
		1 x 3 x	2.50		= 7.50 m
(6) Providing and laying R.C.C. N.B 4. Pile of 1000 mm.					
		3 x 3 x	2.50		= 22.50 m
(7) Providing and laying R.C.C. pile of 300 mm.					
		3 x 4 x	2.50		= 30.00 m

Continuation

Particulars	Details of actual measurement				Contents of area
	No.	L	B	D	
⑧ Excavation for roadway					
at 800/ 600 x cutting					
$2 \times 13 \times 30 \times 0.525 \times 0.10 = 40.95 \text{ m}^3$					
$2 \times 1 \times 10 \times 0.525 \times 0.10 = 1.05 \text{ m}^3$					
$2 \times 12 \times 30 \times 0.375 \times 0.10 = 27.00 \text{ m}^3$					
$2 \times 1 \times 20 \times 0.375 \times 0.10 = 1.50 \text{ m}^3$					
					<u>70.50 m³</u>

⑨ Excavated materials					
from 60 x cutting.					
					$70.50 \times 60/100 = 42.30 \text{ m}^3$

⑩ Construction of embankment with material					
E/W calculation					

Chainage	Fill Area	Mean Area	Dist.	Fill Vol/yms.
0	1.633	-	-	-
50	1.507	1.569	50	78.425
100	1.772	1.638	50	87.900
150	1.982	1.877	50	93.850
200	1.830	1.906	50	95.300
250	3.925	2.878	50	143.875
300	1.900	2.913	50	145.625
350	2.812	2.353	50	117.800
400	1.684	2.248	50	112.400
450	2.160	1.922	50	96.100
500	2.117	2.139	50	106.925
550	2.147	2.131	50	106.525
600	1.907	2.024	50	101.200
650	1.884	1.894	50	94.700
700	2.165	2.025	50	101.225

Continuation

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Particulars	Details of actual measurement				Contents of area
	No.	L	B	D	
Chainage	Bill Area	Mean Area	Dist.	Bill Volume	
700	2.165	—	—	—	
750	1.620	1.893	50	94.625	
800	1.726	1.673	50	83.650	
850	1.783	1.755	50	87.725	
900	1.602	1.693	50	84.625	
950	1.624	1.612	50	80.575	
1000	1.524	1.573	50	78.625	
1050	1.614	1.569	50	78.450	
1100	3.630	2.622	50	131.100	
1150	1.503	2.567	50	128.325	
1200	1.676	1.590	50	79.475	
1270	1.722	1.699	70	118.930	
		Total Qty -		2521.957	

(i) For 1000 m length 4% = 1235.76 m^3

(ii) For 100 m length 5% = 1286.19 m^3

(11) Construction of Subgrade

and earthwork subgrade.

$9 \times 30 \times \frac{6.83 + 7.72}{2} \times 0.30 = 589.28 \text{ m}^3$

(12) Construction of

C.S.B.

$2 \times 13 \times 30 \times 5.25 \times 0.10 = 40.95 \text{ m}^3$

$2 \times 1 \times 10 \times 0.525 \times 0.10 = 1.05 \text{ m}^3$

$1 \times 13 \times 30 \times 4.05 \times 0.10 = 157.95 \text{ m}^3$

$1 \times 1 \times 10 \times 4.05 \times 0.10 = 4.05 \text{ m}^3$

$1 \times 9 \times 30 \times 4.05 \times 0.20 = 218.70 \text{ m}^3$

C.C. Porting $1 \times 7 \times 30 \times 3.75 \times 0.10 = 78.75 \text{ m}^3$

Continuation

$1 \times 1 \times 10 \times 3.75 \times 0.10 = 3.75 \text{ m}^3$

$2 \times 12 \times 30 \times 0.375 \times 0.10 = 27.00 \text{ m}^3$

$2 \times 1 \times 20 \times 0.375 \times 0.10 = 1.50 \text{ m}^3$

$\text{Total} = 533.75 \text{ m}^3$

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Particulars	Details of actual measurement				Contents of area
	No.	L	B	D	
			B.F. 04		533.75 m ³
Profile correction					
	4	2.10	1.86	0.15	2.34 m ³
	7	2.45	1.93	0.15	4.96 m ³
	5	2.13	1.81	0.15	2.89 m ³
	3	2.15	1.90	0.15	1.84 m ³
	5	1.95	1.80	0.15	2.63 m ³
	7	2.60	1.75	0.15	4.78 m ³
	9	2.85	2.05	0.15	7.89 m ³
	8	2.29	1.95	0.15	5.36 m ³
	6	2.30	1.75	0.15	2.41 m ³
					<u>568.85 m³</u>
(13) Providing and laying					
lab for grading III					
	22	30	3.75	0.075	185.63 m ³
	1	10	3.75	0.075	2.81 m ³
	20	30	3.75	0.075	168.75 m ³
					<u>357.19 m³</u>
Done by					
10/3/21					
J.E. Kulkarni					11.3.21
					AE

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Particulars	Details of actual measurement				Contents of area
	No.	L	B	D	
ABSTRACT OF COST					
(1) clearing and grubbing road land.					
0.89 Hec. vide T n s p. 1					
					Rs. 51133 = 76/1000 $\times$ 45509 = 0
(2) C/U in excavation foundations of structure.					
105.05 m ³ vide T n s p. 1.					
					Rs. 269 = 32/1000 $\times$ 28292 = 0
(3) Providing p.c.c. 4-15 in open foundation.					
16.64 m ³ vide T n s p. 2.					
					Rs. 4927 = 17/1000 $\times$ 81988 = 0
(4) Providing p.c.c. 4-15 in sub-structure.					
116.41 m ³ vide T n s p. 2					
					Rs. 5712 = 36/1000 $\times$ 3,664976 = 0
(5) Providing and laying p.c.c. 4-15 H. pipe of 600 mm.					
7.50 m vide T n s p. 2					
					Rs. 1013 = 02/1000 $\times$ 7598 = 0
(6) Providing and laying p.c.c. 4-15 H. pipe of 1000 mm.					
22.50 m vide T n s p. 2					
					Rs. 3742 = 52/1000 $\times$ 84207 = 0
(7) Providing and laying R.C.C. pipe of 300 mm.					
30.02 m vide T n s p. 2					
					Rs. 895 = 39/1000 $\times$ 26862 = 0
Continuation					
					Rs. 939432 = 0

Particulars	Details of actual measurement				Contents of area
	No.	L	B	D	
				B.F.S.	939432 = ✓
(8) Excavation for road					
W.S. (Excavation)					
70.50 m ³ vide T.D.P. 3					
				Ch. 74 = 16/m ³	5228 = ✓
(9) Excavated material					
from box cutting					
42.30 m ³ vide T.D.P. 3					
				Ch. 26 = 11/m ³	1104 = ✓
(10) Construction of embankment with material					
vide T.D.P. 3 to 9					
(i) For 1000 m length					
1235.76 m ³ Ch. 174294/m ³					216184 = ✓
(ii) For 1000 m length					
1286.19 m ³ Ch. 131003/m ³					168529 = ✓
(11) Construction of subgrade and earth shoulders					
(i) Up to 100 m					
589.28 m ³ vide T.D.P. 9					
				Ch. 141 = 17/m ³	83189 = ✓
(12) Construction of G.S.B.					
568.85 m ³ vide T.D.P. 4 to 5					
				Ch. 2585 = 64/m ³	147084 = ✓
(13) Providing and laying W.B. grading III					
357.19 m ³ vide T.D.P. 5					
				Ch. 3695 = 70/m ³	1320067 = ✓

Continuation

5. 4204574 = ✓

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