

PMUSX Road Bhimghar - Navkalin to Dengarda Road
Head - PMUSX (SC)

Measurement Book

Schedule XLV-Form No. 134

R. W D (w) Jarai

DIVISION

Kharai

SUB-DIVISION

MB No. - 2722

MB No. 2722.

Madhu Kumari
Smt. Madhu Kumari
Ag No - 23 (SBD)/2020-21

3rd on A/C Bill

Name of work - construction of Road from
PHGSY Road Bhimayin Navkadih to
Dengarna. [Head - PHGSY (SC)] L-2.00km

Name of Agency - Smt. Madhu Kumari, A7-
Near Uco Bank Sonu, P.O + P.S - Sonu, Dist -
Jammu

Agreement No - 23 (SBD) / 2020-21

Ag. construction cost ₹ 1,11,25,255/-

Ag. Maintenance cost ₹ - 16,57,181/-

₹ 1,27,82,436/-

Date of commencement of work - 23-07-2020

Date of completion of work - 22-07-2021

Date of Record measurement -

Continuation

Particulars	Details of actual measurement				Contents of area
	No.	L.	B.	D.	
Description of item					
(Part-B)					
① Clearing and grubbing Road land					
including uprooting wild vegetation					
grass, bushes, shrubs etc - do-do-					
- all complete job as per E/P					
	5	30	3.50	=	525.00 M ²
	5	30	3.50	=	525.00 M ²
	10	30	3.50	=	1050.00 M ²
	5	30	3.50	=	525.00 M ²
	2	30	3.50	=	210.00 M ²
	1	10	3.50	=	35.00 M ²
				Qty	2870.00 M ²
				=	0.287 Hg
② Construction of Embankment with approved					
material obtain from borrow pit etc					
- do- all complete job as per E/P					
S No.	Ch.	Area	Mean Area	Dist	Volume (M ³)
1	0	0.950	—	—	—
2	100	0.920	0.935	100	93.50 M ³
3	200	1.020	0.970	100	97.00 M ³
4	300	0.550	0.785	100	78.50 M ³
5	400	1.080	0.815	100	81.50 M ³
6	500	0.970	1.025	100	102.50 M ³
7	600	0.920	0.945	100	94.50 M ³
8	700	1.090	1.005	100	100.50 M ³
9	800	1.190	1.140	100	114.00 M ³
10	825	1.410	1.300	25	32.50 M ³
				Qty	794.50 M ³
For 100 M lead = 794.50 M ³					

Particulars	Details of actual measurement				Contents of area
	No.	L.	B.	D.	
③ construction of subgrade & earthen shoulder with approved material obtained from borrow pit - do - do - all complete job					
	5 x	30 x	$\frac{7.90 + 7.70}{2}$	$\times 0.300$	$= 357.00 \text{ m}^3$
	5 x	30 x	7.80	$\times 0.300$	$= 357.00 \text{ m}^3$
	5 x	30 x	7.60	$\times 0.300$	$= 342.00 \text{ m}^3$
	2 x	30 x	7.50	$\times 0.300$	$= 135.00 \text{ m}^3$
	5 x	30 x	$\frac{8.00 + 7.50}{2}$	$\times 0.300$	$= 348.75 \text{ m}^3$
check by AG	2 x	30 x	7.40	$\times 0.300$	$= 133.20 \text{ m}^3$
	3 x	30 x	7.80	$\times 0.300$	$= 210.60 \text{ m}^3$
	1 x	15 x	7.30	$\times 0.300$	$= 32.85 \text{ m}^3$
				Qty	<u>1904.40 m³</u>

④ construction of granular sub-base by providing well graded material, spreading in uniform layer - do - all complete job.					
	1 x	15 x	$\frac{7.00 + 4.10}{2}$	$\times 0.200$	$= 16.65 \text{ m}^3$
	5 x	30 x	4.05	$\times 0.200$	$= 121.50 \text{ m}^3$
	2 x	30 x	4.05	$\times 0.200$	$= 48.60 \text{ m}^3$
	1 x	15 x	$\frac{4.05 + 5.30 + 4.10}{3}$	$\times 0.200$	$= 13.45 \text{ m}^3$
	3 x	30 x	4.05	$\times 0.200$	$= 72.90 \text{ m}^3$
	1 x	15 x	$\frac{4.10 + 6.00 + 4.05}{3}$	$\times 0.200$	$= 14.15 \text{ m}^3$
	7 x	30 x	4.05	$\times 0.200$	$= 170.10 \text{ m}^3$
check by AG	2 x	30 x	4.05	$\times 0.200$	$= 48.60 \text{ m}^3$
	5 x	30 x	4.05	$\times 0.200$	$= 121.50 \text{ m}^3$
	1 x	15 x	$\frac{4.15 + 5.50 + 4.05}{3}$	$\times 0.200$	$= 13.70 \text{ m}^3$
	1 x	30 x	4.05	$\times 0.200$	$= 24.30 \text{ m}^3$
	1 x	15 x	4.05	$\times 0.200$	$= 12.15 \text{ m}^3$
				Qty	<u>677.60 m³</u>

Continuation

Particulars	Details of actual measurement				Contents of area
	No.	L.	B.	D.	
⑤ WBM inner providing laying, spreading and compacting stone Agg. size to WBM					
- do - do - all complete job					
	1x15x	$\frac{6.70}{2} + \frac{3.80}{2}$		$\times 0.075 =$	5.91 M ³
checked	5x	30x	3.75	$\times 0.075 =$	42.19 M ³
by A.E.	2x	30x	3.75	$\times 0.075 =$	16.88 M ³
	1x15x	$\frac{3.75 + 5.00 + 3.80}{3}$		$\times 0.075 =$	4.71 M ³
	3x	30x	3.75	$\times 0.075 =$	25.31 M ³
	1x15x	$\frac{3.80 + 6.70 + 3.75}{3}$		$\times 0.075 =$	4.97 M ³
	7x	30x	3.75	$\times 0.075 =$	59.06 M ³
	7x	30x	3.75	$\times 0.075 =$	59.06 M ³
	1x15x	$\frac{3.85 + 5.00 + 3.75}{3}$		$\times 0.075 =$	4.80 M ³
	1x	30x	3.75	$\times 0.075 =$	8.44 M ³
	1x	15x	3.75	$\times 0.075 =$	4.22 M ³
Sub E 09/14/2 J.C.				Qty	235.55 M ³
1000 mm dia - 3140 HP					
⑥ Earth work in excavation for found ⁿ					
at str - do - do - all complete job					
H.W -	3x2x	6.450	1.40	$\times 1.50 =$	81.27 M ³
Below pipe -	3x1x	4.850	1.53	$\times 0.365 =$	8.12 M ³
				Qty	89.39 M ³
⑦ Plv M.S.P.C.C. as levelling course					
in foundation - do - do - all complete job					
H.W -	3x2x	6.450	1.40	$\times 0.150 =$	8.12 M ³
Below pipe -	3x1x	4.931	1.530	$\times 0.250 =$	5.65 M ³
				Qty	13.78 M ³
					13.78 M ³

Continuation

Particulars	Details of actual measurement				Contents of area
	No.	L.	B.	D.	
⑧ Plv plain / R.C.C M-20 in substructure					
complete as per drawing - do - do					
- all complete job					
H.W - 3 x 2 x 6.150 x (1.25 + 0.40) x 3.18 = 96.80 M ³					
Parapet wall - 3 x 2 x 6.150 x 0.400 x 1.00 = 14.76 M ³					
					Qty 111.56 M ³
Less for pipe - 3 x 2 x 0.785 x (1.23) x 0.622 = 4.44 M ³					
					Qty 107.12 M ³
⑨ Plv and laying R.C.C NP ₃ pipe to					
Culvert - do - do - all complete job					
3 x 3 x 2.50 = 22.50 M ³					
⑩ Painting on Parapet wall					
(Black & white strips) Rdo.					

- do - all complete job					
Top - 3 x 2 x 6.150 x 0.400 = 14.76 M ²					
Side - 3 4 x 6.150 x 0.40 = 44.28 M ²					
front - 3 x 4 x 0.40 x 0.60 = 2.88 M ²					
					Qty 61.92 M ²

Sub to
16/04/2021
J.E

As per
17/04/21
A.E

ABSTRACT OF COST

21

Sch. XLV-Form No. 134

Particulars	Details of actual measurement				Contents of area
	No.	L.	B.	D.	
(1) Plr & fixing of working Bench Main Pillar					
Qty vide Page No (12) in TMB					
16M No (1)					
		2 No			
@ Rs 32833 = 68/KM					Rs 65667 = ∞
(2) Clearing and grubbing Road Land - do - do - all complete job					
Qty vide Page No (12) in TMB = 0.39 H ₉					
16M No (3)					
Qty vide Page No (17) in TMB = 0.287 H ₉					
16M No (1)					
			Qty 0.672 H ₉		
@ Rs 51133 = 76/H ₉					Rs 34,618 = ∞
(3) Construction of embankment with Material obtained from borrow pit - do - do - all complete job 100M bed					
Qty vide Page No (12) in TMB					
16M No (4)					
			886 = ∞ M ³		
@ Rs 175 = 22/M ³					Rs 1,55,245 = ∞ 1,55,245 = ∞
(4) For 100M Level for embank - Met - do - do - all complete job					
Qty vide Page No (13) in TMB = 347.00 M ³					
16M No (5)					
Qty vide Page No (17) in TMB = 794.50 M ³					
16M No (12)					
			Qty 1141.50 M ³		
@ Rs 135 = 12/M ³					Rs 1,54,239 = ∞ Rs 40,9769 = ∞

Continuation

Particulars	Details of actual measurement				Contents of area
	No.	L.	B.	D.	
					B 1 F 6 409769 = ∞
⑤ construction of subgrade with					
approved material - do - do - all					
complete job					
Qty vide Page No (13) in					
item No (6) TMB = 924.71 M ³					
Qty vide Page No (18) in TMB					
item No (3) = 1904.40 M ³					
Qty 2829.15 M ³					
@ B 176 = 86 M ³					
B 508851 = ∞					
S 00363 = ∞					
⑥ construction of G.S.B 42-					
- do - do - all complete job					
Qty vide Page No (13)					
in TMB. 591.30 M ³					
Qty vide Page No (18)					
in TMB item No (4) 677.60 M ³					
Qty 1268.90 M ³					
@ B 1631 = 71 M ³					
B 2070477 = ∞					
⑦ construction of W.B.M 42-16					
- do - do - all complete job					
Qty vide Page No (13) in TMB = 200.90 M ³					
item No (8)					
Qty vide Page No (19) in TMB. 235.55 M ³					
item No (5)					
Qty 436.45 M ³					
@ B 2139 = 27 M ³					
Rs 933,684 = ∞					
⑧ construction of un-grouted					
P.C.C - do - do - all complete job					
Qty vide Page No (4) in TMB					
item No (9)					
Qty 424.20 M ³					
@ B 7168 = 81 M ³					
B 304,1009 = ∞					
B 69,63,790 = ∞					
69,55,302 = ∞					

Continuation

Particulars	Details of actual measurement				Contents of area
	No.	L.	B.	D.	
					BIF Rs 75,25,579 = 00
(14/36) Plv Placo/R.C.C M ₂₀ in sub structure — do — do — all complete job					
Qty side Page No. (20) in M ₂₀					
ibm No (8)		107.12 M ³			
@ Rs 6034 = 19/M ³					R 64,63,82 = 00
(15/37) Plv B laying R.C.C pipe MB for culvert — do — do complete job					
Qty side Page No. (20) in M ₂₀					
ibm No (9)		22.50 M ^{tr}			
@ B 3405 = 02/M ^{tr}					R 76,613 = 00
(16/38) Plv Painting on parapet wall in two coat including primer coat					
Qty side Page No. (20) in M ₂₀					
ibm No (10)		61.92 M ²			
@ B 97 = 19/M ²					R 6,018 = 00
					R 82,54,592 = 00
Add C.S.T @ 12% (+) B					9,99,551 = 00
Add C.C.S @ 1% (+) B					82,546 = 00
					R 93,27,689 = 00
Less 10% as per Agreement B(-)					9,32,769 = 00
					R 83,94,920 = 00
Less previous Payment Page No. (14)					(-) B 30,41,380 = 00
					R 53,53,540 = 00

Sub to
16/04/2024
S-E

Continuation A-C

Candp
22/5/21