

MMSY-MDB - BRRP - 578

RCD Parvaha Lalbandi Road to Khar
Schedule XLV-Form No. 134 para

Executive Engineer

R.W.D. Works Division

Shenapati

DIVISION

Parihar

SUB-DIVISION

MEASUREMENT BOOK

11/5/19

3866

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 measurement relating to each work)

Particulars	Details of actual measurement				Contents of area
	No.	L.	B.	D.	
					Test on file bill
At/In - Const of road from R.L.D					
parwada Lalband road to					
Khap parwa under munesyehar)					
Agency - Rajiv Kumar S/o Ram Prasad					
Prasad At - Channi Kalyan					
Dist - Muzaffarpur					
Agreement no - 67 (S.D.) / 2023-24					

Date of work start - 12/03/2024					
Date of completion - 11/09/24					
Record measurement					
1. pty & fixing of working benchmarks					
3 reference pillars					
(1) Benchmark pillars					1.113
(1) reference pillar					1.113
2. clearing & grubbing road candidate.					
	2 x	5 x 30m x 1.113			= 330.113
	2 x	5 x 30m x 1.113			= 330.113
					630.113
					or 0.06 ha.
3. Const. of embankment with material					
obtained from borrow pit, Muzaffarpur					
	1 x	30m x 7m x 1.150			31.50m

Continuation

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Particulars	Details of actual measurement				Contents of area
	No.	L.	B.	D.	
4. Const. of embankment with material obtained from borrow pit					
Lead 40 to 100 m					
2 x 30 m x 6 m x 0.150					54 m ³
2 x 30 m x 6 m x 0.150					54 m ³
1 x 30 m x 3 m x 0.150					13.50 m ³
					121.50 m ³
Signature 28/12/24					
Minor 20/12/24					
Second measurement					
5. Depth in excavation for construction of structure					
1 x 23 m x 0.90 x 1.50					31.05 m ³
2 p/v pcc 0.15 m open foundation					
- as per - 21					
1 x 23 m x 0.90 x 0.15					3.105 m ³
3. Brick masonry work in C.I. (1:4)					
in foundation - as per 21					
1 x 23 m x (0.75 + 0.40) x 2.275					30.086 m ³
4. p/v pcc 0.225 m coping over protection wall - as per 21					
1 x 23 m x 0.40 x 0.075					0.69 m ³
5. p/v masonry in brick masonry					
- all complete job					25 m ³
6. Plastering with C.I. (1:4) on brick masonry					
23 m x (0.40 + 0.075 + 0.925)					32.20 m ²

Continuation

Signature
11/1/24
T.D.

Particulars	Details of actual measurement				Contents of area
	No.	L.	B.	D.	
Abstract of cost (2.5.10 on 1/2 bill)					
1. 1/2 x 3 fixing of ironing beamdowns 2 reference pillars					
(1) Beamdown pillar					
1. 1. 1/2 x 3 x 1/2 inch T.M.S. p-1					
2. 1. 1/2 x 3 @ Rs 5102.98 per meter					Rs 5103.00
(11) Reference pillar					
1. 1. 1/2 x 3 x 1/2 inch T.M.S. p-1					
2. 1. 1/2 x 3 @ Rs 2388.92 per meter					Rs 2386.00
2. 1/2 clearing & grubbing road land etc.					
0.06 hectare at rate T.M.S. p-1					
0.06 hectare @ Rs 75594.29 per hect.					Rs 4536.00
3/4 const. of carbon concrete lead up to 100m					
121.50 m ³ at rate T.M.S. p-2					
121.50 m ³ @ Rs 209.81/m ³					Rs 25492.00
4/5 const. of carbon concrete lead up to 100m					
31.50 m ³ at rate T.M.S. p-1					
31.50 m ³ @ Rs 260.52/m ³					Rs 8206.00
5/6 const. of subgrade & earthen shoulder					
294 m ² at rate T.M.S. p-3					
82.60 m ² at rate T.M.S. p-6					
376.60 m ² @ Rs 264.05/m ²					Rs 99441.00
6/7 const. of G.S.B. both shoulders					
grading & etc. p-1					
Continuation					Rs 145164.00

Particulars	Details of actual measurement				Contents of area
	No.	L.	B.	D.	
				31P	145164:-
113.40 m ³ dry vol. Tons p-3					
53.103 m ³ dry vol. Tons p-4					
166.503 m ³ @ 2923 = 91/m ³				6	486840:-
7/8 p/v laying, spreading & compacting mass grade III --- all compd.					
79.202 m ³ dry vol. Tons p-4					
79.202 m ³ @ 5385 = 11/m ³				4	4265112:-
8/9 p/v & applying primer coat with bitumen emulsion (SS1) --- all					
525 m ² dry vol. Tons p-5					
525 m ² @ 59 = 94/m ²				5	31469:-
9/10 p/v & applying tack coat with bitumen emulsion (RS1)					
525 m ² dry vol. Tons p-5					
525 m ² @ 20 = 59/m ²				6	10810:-
10/11 p/v laying & rolling 20 mm thick crk seal surface					
525 m ² dry vol. Tons p-5					
525 m ² @ 266 = 36/m ²				7	139839:-
11/12 Const. of unreinforced cement concrete pavement					
78.16 m ³ dry vol. Tons p-5					
78.16 m ³ @ 9187 = 47/m ³				8	718093:-
12/13 p/v 10.0 m/s grade Kilometer stone					
1 m/s dry vol. Tons p-7					
1 m/s @ 3155 = 11 per Km				9	3155:-
Continuation					
1 m/s @ 3155 = 11 per Km				10	1961881:-

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Particulars	Details of actual measurement				Contents of area
	No.	L.	B.	D.	
					2054328
10/21 p/v & laying 2.5 mm thick road marking (for e.c. portion)					
26 m ² at side Taxis p-6					
26 m ² @ 994 = 86/m ²					25866
1/22 planting of trees by the road side - all complete					
0.105 m ³ at side Taxis p-2					
0.105 m ³ @ 1288 = 82 per m ³					12888
1/23 work in excavation for construction of structure					
0.5 m ³ at side Taxis p-2					
31.05 m ³ @ 398 = 62/m ³					12377
1/24 p/v pcc on 15 cm open foundation					
3.105 m ³ at side Taxis p-2					
3.105 m ³ @ 7867 = 08/m ³					24427
4/25 Brick masonry work in (1/4) in foundation					
30.086 m ³ at side Taxis p-2					
30.086 m ³ @ 6758 = 68/m ³					203342
25/26 p/v pcc on 20 cm ceiling over protection wall					
0.69 m ³ at side Taxis p-2					
0.69 m ³ @ 8862 = 46/m ³					6145
26/27 p/v masonry in brick work					
25.00 m ³ at side Taxis p-2					
25.00 m ³ @ 11053 per m ³					2758
Continuation					2342101

~~Ch~~
~~Am~~
~~04/07/24~~
~~Winnipeg~~
~~15/6/24~~
~~Sumner~~
~~15/6/24~~
 completed statement
 1) Soil - 529.6025 @ 35.25/m/s 18668 =
 3mm to 9.5mm - 106.56/m @ 931.75/m/s 99288 =
 9.5mm to 2.36mm - 42.624/m @ 429.92/m/s 18327 =
 2.36mm to 0.6mm - 63.936/m @ 264.78/m/s 16929 =
 53mm to 22.4mm - 96.098/m @ 1100.04/m/s 105712 =
 11.2mm - 19.008/m @ 429.92/m/s 8173 =
 11.2mm to 0.6mm - 14.175/m @ 429.92/m/s 6095 =
 9.5mm to 0.6mm - 43.206/m @ 550.62/m/s 23249 =
 10mm to 0.6mm - 27.137/m @ 614.77/m/s 17281 =
 10mm - 42.139/m @ 150.70/m/s 4243 =
 10mm to 0.6mm - 1.008/m @ 35.25/m/s 905 =
 Continued
 10mm to 0.6mm - 218870 =

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Particulars	Details of actual measurement				Contents of area
	No.	L.	B.	D.	
				4/6/24	318870:-
10mm agg. —	1.738 m ²	0.992	23/m	1725:-	
20mm agg. —	0.993 m ²	0.61207	26/m	1199:-	
30mm agg. —	0.372 m ²	0.595	16/m	221:-	
Brick —	15043 Nos	0.5208	14 Nos	76418:-	
Sand —	33.81 m ³	0.502	80/m ³	17000:-	
				15/6/24	415433:-
				15/6/24	
				712	
Emulsion (SS ₁) —	0.446 m ³				
Emulsion (SS ₁) —	0.144 m ³				
Bitumen —	0.918 m ³				
Bitumen stock					
Bitumen emulsion purchased from M/s					
Laxmi Industries, Ram Nagar, Darbhanga					
Bill No — 0014 dated — 6/6/24					
Emulsion (SS ₁) — 0.80 m ³					
Emulsion (SS ₁) — 0.200 m ³					
Bitumen also received from					
I.D.C.L. Baranasi, Invoice No —					
BHSS20045528 dated — 6/6/24, Qty — 1.408 m ³					
				15/6/24	

15/6/24 Continuation