

Name of Rd E - Purnima Mondhali Rd Near
Brahmasthan To Basti Pathwar (Malkadali teela)

Schedule XLV-Form No. 134

12/SB D/23-24

Anandli Kumar

DIVISION

KASIRAD GATHA/21/11

9-14-21

SUB-DIVISION

Measurement Book

-1351

Sch. XLV-Form No. 134

Particulars	Details of actual measurement				Contents of area
	No.	L.	B.	D.	
<u>Final & 3rd RA Bill</u>					
N/CO:-	Punpun Manthali rd Rd				
	Near Brahmansthor to Baski				
	Peimar (Maha Palit Jela)				
N/Agency	→ Anandli Kumar, Adora.				
Agreement NO	12/330/2023-24				
Start Date	15/12/2023				
Date of completion as per CA	14/12/2024				
<u>Work Details</u>					
Item (1)	300 (69) Annular Subbase				
	with coarse graded material				

etc complete

$$3 \times 30 \times 4.050 \times 0.200 = 72.90 \text{ m}^3$$

$$2 \times 6 \times 1.10 \times 0.200 = 2.64 \text{ m}^3$$

$$2 \times 5 \times 0.90 \times 0.200 = 1.80 \text{ m}^3$$

$$2 \times 8 \times 0.95 \times 0.200 = 3.04 \text{ m}^3$$

$$1 \times 5.00 \times 4.050 \times 0.200 = 4.05 \text{ m}^3$$

$$\text{Total } 84.43 \text{ m}^3$$

Item (2) 300 (10) wearing 3 Provision
laying, spreading compacting etc
etc complete

$$3 \times 30 \times 3.75 \times 0.075 = 25.31 \text{ m}^3$$

$$1 \times 5 \times 3.75 \times 0.075 = 1.41 \text{ m}^3$$

$$2 \times 6 \times 1.10 \times 0.075 = 0.99 \text{ m}^3$$

$$2 \times 5 \times 0.90 \times 0.075 = 0.67 \text{ m}^3$$

$$2 \times 8 \times 0.95 \times 0.075 = 1.14 \text{ m}^3$$

Continuation

$$29.52 \text{ m}^3$$

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Particulars	Details of actual measurement				Contents of area
	No.	L.	B.	D.	
Item (08) BOQ (11) Polime coat					
SS-1 @ 0.70 - 1 kg/m ² etc					
Complete.					
1 x 15 x $\frac{6.9+4.9+4.10}{3}$					= 79.50 m ²
1 x 8 x 30 x 3.75					= 900 m ²
2 x 6.00 x $\frac{3.8+4.2+4.1}{3}$					= 49.60 m ²
1 x 7.00 x $\frac{3.9+4.2+4.0}{3}$					= 28.93 m ²
1 x 30 x $\frac{3.0+3.75}{2}$					= 112.50 m ²
1 x 8 x 3.75					= 30 m ²
9 x 30 x 3.75					= 1012.50 m ²
1 x 10.00 x $\frac{7.2+7.7+4.1}{3}$					= 62.67 m ²
1 x 8.00 x $\frac{5.7+4.7+3.8}{3}$					= 37.87 m ²
1 x 7 x $\frac{9.55+4.00+4.0}{3}$					= 29.52 m ²
					Total 2353.08 m ²
					limit 2344.10 m ²
Item (09) BOQ (12) Pack coat RS-1					
@ 0.25 - 0.30 kg/m ²					
etc complete.					
Ref Item (08) on A/No (22)					
Qty same as					
					= 2344.10 m ²

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Particulars	Details of actual measurement				Contents of area
	No.	L.	B.	D.	
Item (25) BOG (13) Formwork laying and rolling mas 20 mm thick as per Specification					
Ref MA page no (22) item (24)					
Qty same as					
					2344.10 m ²
Item (26) BOG (32) Earthwork for excavations for foundation for cable duct pipe etc complete					
					1 X 7.50 X 0.60 X 0.80 = 3.6 m ³
Item (27) BOG (34) Bedding for cable duct pipe as per IS 1105 (ii)					
					1 nos X 7.50 X 0.60 X 0.250 = 1.12 m ³
Item (28) BOG (35) Formwork and laying cable duct 300 dia MPB pipe etc complete					
					3 X 2.5 mtr = 7.5 mtr
Item (29) BOG (29) Road marking with Hot Thermoplastic compound on BT surface etc complete					
					20 X 30 X 2 side X 0.100 = 120 m ²
					1 X 5.00 X 2 X 0.100 = 1 m ²
					121 m ²
					1 m ² - 120 m ²

Continuation

Particulars	Details of actual measurement				Contents of area
	No.	L.	B.	D.	
Item no (14) BQS (22) Traffic Sign Board 600 mm equilateral triangle Left / Right turn Board etc Concrete					
					= 04 Nos
Item (15) BQS (23) Traffic sign Board 600 mm circular speed limit Board					
					= 04 Nos
Item (16) BQS (24) Traffic sign Board 800 x 600 mm rectangular Board					
					= 01 Nos
Item (17) BQS (25) Traffic sign Board STOP sign 900 mm side octagon					
					= 01 Nos
Item (18) BQS (26) Boundary Pillar RCC M 15 size approx 25 etc complete					
					= 48 Nos
Item (19) BQS (27) 12 km meter stone RCC M 15 grade					
					= 01 Nos
Item (20) BQS (28) 200 m stone RCC M 15 grade					
					= 04 Nos

Particulars	Details of actual measurement				Contents of area
	No.	L.	B.	D.	
Item(2) BOB (3) Plumbly of face & there maintenance for one year ————— etc complete . 				= 24 Nos	
<u>calculation of earth work</u>					
CH Area in m ²	Mean Area in m ²			Volume in m ³	
0 3.402					
50 4.346	3.874			193.70m ³	
100 9.348	6.847			342.35 m ³	
150 6.326	7.987			399.35 m ³	
200 8.006	7.316			365.50 m ³	
250 6.673	7.340			366.97 m ³	
300 6.524	6.599			329.92 m ³	
350 8.767	7.646			382.275 m ³	
400 8.444	8.606			430.275 m ³	
450 6.838	7.641			382.050 m ³	
500 5.461	6.150			307.475 m ³	
550 5.379	5.420			271.00 m ³	
600 4.999	5.189			259.450 m ³	
650 3.326	4.163			208.125 m ³	
700 5.883	4.605			230.225 m ³	
750 6.148	6.016			300.775 m ³	
800 6.537	6.343			317.125 m ³	
	Total				5086.87 m ³
Including crossf					

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Particulars	Details of actual measurement				Contents of area
	No.	L.	B.	D.	
Total Qty =					5086.87 m ³
Minus (-) Gravel =					(-) 381.60 m ³
WBM 3 =					(-) 233.02 m ³
PCC M30 =					(-) 122.40 m ³
Subgrade/shoulder =					(-) 2295.25 m ³
Net Qty for Embankment					= 1884.60 m ³
Box (6)					
Item (2) Construction of Embankment					
with material obtained from borrow					
at 100 mts lead.					
Ref above page total Qty					

$$= 1884.60 \text{ m}^3 @ 79.98\%$$

$$= 1507.30 \text{ m}^3$$

$$\text{100 mts} - 1504.15 \text{ m}^3$$

Item (3) Box (6) Construction of embankment 100 mts lead

$$1884.60 \text{ m}^3 @ 20.02\%$$

$$= 377.29 \text{ m}^3$$

$$\text{100 mts} - 376.04 \text{ m}^3$$

Box

108/5/24

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Particulars	Details of actual measurement				Contents of area
	No.	L.	B.	D.	
Calculation of S. Fee					
(1) G.S.B Item-1					
Ref M.B.P/N/O 21 Item (01)					
24.43m ³ @ Rs 757.56/m ³					Rs 18396/-
(2) W.B.M 07m ³					
Ref M.B.P/N/O (21) Item (02)					
29.0m ³ @ Rs 1434.24/m ³					Rs 42339/-
(3) MGS 20 mm thick					
Ref M.B.P/N/O 23 Item (05)					
2344.10 m ² @ Rs 11.61/m ²					Rs 27213/-
(4) Const of subgrade					
Ref M.B.P/N/O (24) Item (1)					
249.25m ³ @ Rs 68.10/m ³					Rs 16974/-
(5) Const of Embankment.					
M.B.P. 5814 Ref M.B.P/N/O 27 Item 22 & 23					
1884.60 - 1278.52 - 225.61 m ³					= 380.47 m ³
380.47m ³ @ Rs 35.25/m ³					Rs 13412/-
(6) Filter media below stone pitching					
Ref M.B.P/N Item (08)					
67.50m ³ @ Rs 1126.46/m ³					Rs 76036/-
(7) Stone Boulder M.B.P/N (11)					
Item (09)					
67.50m ³ @ Rs 1126.46/m ³					Rs 76036/-
Total					315971/-

Continuation

Continuation

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Particulars	Details of actual measurement				Contents of area
	No.	L.	B.	D.	
Abstract of cost					
Item (01)	Boq (09)	G.R. 90-1			
Triangular Subbase course					
etc complete.					
Ref MB P/NO (51) & (15)					
$84.43 + 498.63 = 583.06 m^3$					
Limit 581.60 m ³					
581.60 m ³ @ Rs 2952.45/m ³					
Rs 1717145/-					
Item (02)	Boq (10)	W.B.M. - 3			
Ref MB P/NO (21) & (15)					
$29.52 + 204.48 = 233.95 m^3$					
Limit 233.02 m ³					
233.02 m ³ @ Rs 4258.09/m ³					
Rs 992220/-					
Item (03)	Boq (11)	Prime coat SS-1			
@ 0.70 - 128 g/m ²					
Ref MB P/NO 22 Item (03)					
2344.10 m ² @ Rs 58.40/m ²					
Rs 136895/-					
Item (04)	Boq (12)	Packcoat RS-1			
Ref MB P/NO 22 item 04					
2344.10 m ² @ Rs 19.97/m ²					
Rs 46812/-					
Item (05)	Boq (13)	MSS concrete			
Ref MB P/23 item 05					
2344.10 m ² @ Rs 254.86/m ²					
Rs 597417/-					

Continuation

o/o Rs 3490489/-

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Particulars	Details of actual measurement				Contents of area
	No.	L.	B.	D.	
Item (66) BOB (32) Earthwork in excavation 1m deep for cable duct					
Ref MB P/180	23			17	Item 10
$3.6 \text{ m}^3 + 26.98 \text{ m}^3 = 30.58 \text{ m}^3$					
30.58 m^3 @ B	427.09/m ³				B 13060
Item (67) BOB (34) Bedding for pipe for 300 cable duct pipe					
Ref MB P/17 Item (17) and P/23 Item (23)					
$2.25 + 1.12 = 3.37 \text{ m}^3$					
3.37 m^3 @ B	601.14/m ³				B 2026
Item (68) BOB (35) Grounding and laying 300 mm dia cable duct pipe					
Ref MB P/16 Item (16) and P/23 Item (23)					
$15 + 7.5 = 22.50 \text{ mtr}$					
22.50 mtr @ B	688.26/m				B 15486
Item (69) BOB (29) Road marking with Hot Thermoplastic on BT surface					
Ref MB P/180	23				Item (29)
120 m^2 @ B	884.88/m ²				B 106183
Item (70) BOB (30) Rd marking with Hot Thermoplastic on CC surface					
Ref MB P/24					
40 m^2 @ B	970.12/m ²				B 38805

Continuation C/O B 3666049

Continuation

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Particulars	Details of actual measurement				Contents of area
	No.	L.	B.	D.	
Item (14) B09 (23) 600m circular Sred 11m Band Ref MB P/N (25)					
					00 Nos @ B 3716.79/En B 22867
Item (15) B09 (24) 800 x 1000m rectangular Sred Ref MB P/N (25)					
					02 Nos @ B 7899.92/En B 15850
Item (16) B09 (25) 900 side octagon Sred Sred Band					
					01 Nos @ B 10027.63/En B 10027
Item (17) B09 (26) Boundary Pylon Ref MB P/N (25)					
					48 Nos @ B 654.41/En B 31411
Item (18) B09 (27) Kilometer Stone					
					01 Nos @ B 2621.96/En B 2622
Item (19) B09 (28) 200m Stone					
					04 Nos @ B 765.08/En B 3060
Item (20) B09 (29) Planting of tree one year maul Ref MB P/N (25)					
					24 Nos @ B 1288.76/En B 30930

Continuation

C/O B 4872.234

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Particulars	Details of actual measurement				Contents of area
	No.	L.	B.	D.	
Item (22) B.O.B (22) Const of Embankment with material obtained from borrow pits ——— 100 mtr lead					
Ref M.B.P/N/O (57)					
1504.15 m ³ @ B 212.07/m ³					
				B 3,26,506/-	
Item (23) B.O.B (23) Const of embankment with material obtained from borrow pits ——— 100 mtr lead					
Ref M.B.P/N/O (27)					
376.04 m ³ @ B 267.79/m ³					
				B 1,00,700/-	
Item (24) B.O.B (24) Const of cement concrete pavement 150 grade ——— etc complete					
Ref M.B.P/N/O 15 Item (23)					
122.40 m ³ @ B 7449.95/m ³ B 9,11,874/-					
Item (25) B.O.B (25) Excavation for structure for toe wall ——— etc complete					
Ref M.B.P/N/O (19) Item (20)					
181.30 m ³ @ B 427.09/m ³ B 7,74,317/-					
Item (26) B.O.B (26) Plain PCC M 10 for levelling course of toe wall					
Ref M.B.P/N/O 19 Item (2)					
33 m ³ @ B 6912.19/m ³ B 2,28,102/-					

Continuation

0/0 B 65,16,847/-

Particulars	Details of actual measurement				Contents of area
	No.	L.	B.	D.	
Item (27) BOB (17) PCC M15 grade in open foundation of Tee wall etc complete					
Ref MB P/NO (19) item (22)					
146.25 m ³ Q B 670/0.73/m ³					
					B 9801287
Item (28) BOB (18) providing and laying filter media etc complete					
Ref MB P/NO item (28)					
67.50 m ³ Q B 3422/m ³					B 2309857
Item (29) BOB (19) providing and laying pitching stone on slope etc complete					
Ref MB P/NO 17 item (29)					
67.50 m ³ Q B 3414/m ³					B 2304457
Item (30) BOB (35) PCC M15 cement concrete in substructure of CD works etc complete					
Ref MB 17 item (12)					
3.90 m ³ Q B 670/0.73/m ³					
					B 261377
Item (31) BOB (37) PCC M15 in substructure of CD works					
Ref MB 17 P/NO (37)					
18.21 m ³ Q B 9000/m ³					
					B 1274707

Continuation

C/O B 81,12,012

Particulars	Details of actual measurement				Contents of area
	No.	L.	B.	D.	
Item (32) BQ (36) Providing and laying 60mm dia RCC HPC Pipe etc complete					
Ref MB P/N (18) item (14)					
7.50 mtr @ B 3758.67/mtr					
					B 28190/-
Item (33) BQ (38) Painting on plaster wall of HPC with two coat synthetic enamel paint & primer coat etc complete					
Ref MB P/N item 15					
12.48 m ² @ B 13736/m ²					
					B 1714/-
Item (34) BQ (41) Setting out of workings & Ref Bench mark P/N					
Ref MB P/N (18) Item (11)					
0.200 km @ B 18645/km					B 14316/-
Item (35) BQ (42) clearing and grubbing of Rd land etc complete Ref MB P/N (18) item (17)					
0.36 Ha @ B 19930.80/Ha					B 7175/-
					Total B 816400/-
					Add 1% L. less B (+) 81640/-
					18% GST (+) 146952/-
					Total B - 9715170/-
					B (+) 155357/-
S. fee MB P 351 25, 29					UnTotal - B 9871127/-
					B (-) 108587/-
Before class 0.11 V					B 98,60,268/-
					Less Previous Payment B (-) 4849579/-
					Net Amt B 20,10,690/-
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