

MMGSY(NDB-Batics)

MMGSY NDD-BRRP-400 Masa

Pumpun Manjhauli Path to Rajputana.

Schedule XLV-Form No. 134

03/SBD/23-24

Amritraj construction DIVISION

संलग्नित गुगल SUB-DIVISION

Punpun

1312

Measurement Book

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.	
	01st	R/A	Bill		
Name of work →	const of Rd from				
Pimpur	marshauli path to Rapturona				
Tela.					
Agreement No -	03/SB/2023-24				
Start date -	03/07/23				
Completion as per CA -	02/7/24				
Agency -	Amritraj Const.				
	<u>work details</u>				
Item (01) BBS (01)	Providing & fixing of				
working Bench mark pillar - etc					
complete -					
					= 01 Nos
Item (02) BBS (02)	Providing & fixing of				
Reference pillar - etc					
complete					
					= 02 Nos
Item (03) BBS SMO (16)	Providing and				
fixing logo of mmsy, Main Board					
Main Board as per specification					
					= 02 Nos

Continuation

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Particulars	Details of actual measurement				Contents of area
	No.	L.	B.	D.	
Item (04) 3008 SIND (03) eleasey and gready Rd band — etc complete					
8 Nos x 30 x 2 x $\frac{3.8+3.2}{2}$					= 1680 m ²
6 Nos x 30 x 2 x $\frac{3.7+3.0}{2}$					= 1260 m ²
4 x 30 x 2 x $\frac{4.0+3}{2}$					= 340 m ²
					Total 3780 m ²
					= 0.38 Ha
Item (05) 3008 SIND (04) const of Embankment with approved material 100 m for load — etc complete					
Total Qty 593.65 m ³					
			@ 70%		= 415.55 m ³
					Total 415.55 m ³
Item (06) 3008 SIND (05) const of Embankment with approved material 100 m for load — etc complete					
Total Qty - 723.20 m ³					
			@ 70%		
					Total = 506.24 m ³
Item (07) 3008 (06) const of Subgrade & Barrow Shoulders — etc complete					
15 Nos x 30 x $\frac{6.2+5.6}{2} \times 0.35$					= 929.25 m ³
35 x $\frac{5.3+4.7}{2} \times 0.30$					= 52.50 m ³
2 x 30 x $\frac{5.5+4.9}{2} \times 0.35$					= 109.2 m ³

Continuation

Particulars	Details of actual measurement				Contents of area
	No.	L.	B.	D.	
20 X	5.4+5.00		0.35		36.40 m ³
10 X	4.00		0.250		10.00 m ³
15 X 30 X 2 X	1.35 X 0.20				243 m ³
35 X 2 X	1.00 X 0.200				14 m ³
15 X 30 X 2 X	0.30 X 0.075				91.12 m ³
35 X 2 X	0.000 X 0.075				5.25 m ³
2 X 30 X 2 X	0.900 X 0.100				10.80 m ³
20 X 2 X	0.900 X 0.100				3.60 m ³
10 X	0.1 X 0.900 X 0.100				0.90 m ³
2 X 30 X 2 X	0.900 X 0.1075				5.10 m ³
20 X 2 X	0.900 X 0.075				2.70 m ³
10 X 0.1 X	0.900 X 0.075				0.675 m ³

Total 1517.49 m³

Item (8) Bed slo (7) construction of granular subbase 0.33 m in BT Portion etc complete.
BT Portion
BT Portion

1 X 13 X	5.3+4.2+3.8		0.200		11.53 m ³
15 X 30 X	4.05		0.200		364.50 m ³
1 X 8 X	4.5+3.9+3.8		0.200		6.51 m ³
1 X 6 X	4.2+4+3.8		0.200		4.80 m ³
1 X 25 X	3.3+3.10+2.9		0.100		7.75 m ³
1 X 12 X	3.6+3.7+3.5		0.100		4.32 m ³
1 X 22 X	3.10+3.4+3.7		0.100		7.05 m ³

Continuation

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Particulars	Details of actual measurement				Contents of area
	No.	L.	B.	D.	
1 X 6.00 X		$\frac{4.6+4+3.7}{3}$		$\times 0.100$	$= 2.46 \text{ m}^3$
1 X 11.00 X		$\frac{4.10+3.9+3.75}{3}$		$\times 0.100$	$= 4.31 \text{ m}^3$
1 X 15.00 X		$\frac{4.3+3.8+4.0}{3}$		$\times 0.100$	$= 6.10 \text{ m}^3$
					<u>Total 13.87 m³</u>
Item (09) Bedding (08) Providing by spreading and compacting WBM III layer etc complete					
Brace					
1 X 13 X		$\frac{5.3+4.2+3.8}{3}$		$\times 0.075$	$= 4.32 \text{ m}^3$
15 X 30 X		$\frac{3.75}{3}$		$\times 0.075$	$= 126.56 \text{ m}^3$
1 X 8 X		$\frac{4.5+3.9+3.8}{3}$		$\times 0.075$	$= 2.44 \text{ m}^3$

1 X 6 X		$\frac{4.2+4+3.8}{3}$		$\times 0.075$	$= 1.88 \text{ m}^3$
PCC area					
1 X 25 X		$\frac{3.3+3.10+2.9}{3}$		$\times 0.075$	$= 5.81 \text{ m}^3$
1 X 12 X		$\frac{3.6+3.7+3.5}{3}$		$\times 0.075$	$= 3.24 \text{ m}^3$
1 X 22 X		$\frac{3.10+3.6+3.7}{3}$		$\times 0.075$	$= 5.72 \text{ m}^3$
1 X 6 X		$\frac{4.6+4+3.7}{3}$		$\times 0.075$	$= 1.85 \text{ m}^3$
1 X 11 X		$\frac{4.10+3.9+3.75}{3}$		$\times 0.075$	$= 3.23 \text{ m}^3$
1 X 15 X		$\frac{4.3+3.8+4.0}{3}$		$\times 0.075$	$= 4.58 \text{ m}^3$
					<u>Total 159.55 m³</u>

Continuation

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Particulars	Details of actual measurement				Contents of area
	No.	L.	B.	D.	
Item (10) BOB (12) construction of unreinforced PCC pavement with 43 grade cement concrete					M 30 etc
$1 \times 25 \times \frac{3.3+3.10+2.9}{3} \times 0.160$					$= 12.40 \text{ m}^3$
$1 \times 12 \times \frac{3.6+3.7+3.5}{3} \times 0.160$					$= 6.91 \text{ m}^3$
$1 \times 22 \times \frac{3.10+3.6+3.7}{3} \times 0.160$					$= 12.20 \text{ m}^3$
$1 \times 6 \times \frac{4.6+4+3.7}{3} \times 0.160$					$= 3.94 \text{ m}^3$
$1 \times 11 \times \frac{4.10+3.9+3.75}{3} \times 0.160$					$= 6.89 \text{ m}^3$
$1 \times 13 \times \frac{4.5+3.8+4.40}{3} \times 0.160$					$= 9.76 \text{ m}^3$
Total					52.10 m^3
Item no (11) BOB (40) providing and laying of reinforced cement concrete Pipe duct 300 mm dia - etc complete					
2×5.00					$= 10 \text{ Nos}$
Item (12) BOB (28) Earthwork for excavation for foundation for Culverts - etc complete					
$AW 2 \times 6.40 \times 1.4 \times 1.050$					$= 26.88 \text{ m}^3$
Below Pipe $1 \times 4.900 \times 1.05 \times 0.350$					$= 2.57 \text{ m}^3$
Total					29.45 m^3

Continuation

Continuation

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Particulars	Details of actual measurement				Contents of area
	No.	L.	B.	D.	
Calculation of S. Fee					
<u>Sewerage Fee</u>					
(1) Const of Subgrade & Borehole shoulder Qty wide TMB P/N (29) 30					
1517.49m ³ @ Rs 35001/m ³					Rs 53127/-
(2) G.S.B Gr. - F Qty wide TMB P/N (38) 04					
418.90m ³ @ Rs 694.09/m ³					Rs 290754/-
(3) W.B.M Gr. - III Qty wide TMB P/N (44)					
159.55m ³ @ Rs 1409.22/m ³					Rs 224841/-
(4) PCC Rigid Pavement Qty wide TMB P/N (55)					
52.01m ³ @ Rs 1018.70/m ³					Rs 53126/-
(5) 300mm dia Prgankson Pipe 10 Km @ Rs 51.60/Km					Rs 511/-
(6) PCC M15 4.54 m ³ @ Rs 1105.74/m ³					Rs 5020/-
(7) PCC M20 Subgrade 33.65 m ³ @ Rs 1105.74/m ³					Rs 37208/-
(8) 1000mm dia NPB HPC Pipe 7.05 Km @ Rs 6.87/Km					Rs 52/-
So S. Fee @ 10%					Rs 664639/-
					Rs 664639/-

Continuation

Rs 664639
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Particulars	Details of actual measurement				Contents of area
	No.	L.	B.	D.	
<u>Abstract of cost</u>					
Item(01) BOB(01) Setting out of working					
Beacon mark					
Qty wide TMB P/MO (01)					
01 Nos @ Rs 4401.61/ea					Rs 4401/-
Item(02) BOB(02) Setting out of Reference					
Pillar — the complete					
Qty wide TMB P/MO (02) i.e.					
02 Nos @ Rs 8141.08/ea					Rs 16282/-
Item(03) BOB(03) Provisioning and Abutment					
M/Ms, Log main Band — the complete					
Qty wide TMB P/MO (03) i.e.					
02 Nos @ Rs 1101.39/ea					Rs 22027/-
Item(04) BOB(04) clearing & grubbing					
Rd bund.					
Qty wide TMB P/MO (02) 51					
0.28 Ha @ Rs 72677.86/Ha					Rs 20558.87
					Rs 27625/-
Item(05) BOB(05) Const of Embankment					
width of stone material 100 mtr lead					
Qty wide TMB P/MO (02) 50					
415.55 m ³ @ Rs 217.24/m ³					Rs 90274/-
Item(06) BOB(06) Const of Embankment					
1000 mtr lead.					
Qty wide TMB P/MO (02)					
508.24 m ³ @ Rs 258.51/m ³					Rs 130868/-

Continuation

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Particulars	Details of actual measurement				Contents of area
	No.	L.	B.	D.	
Item (07) Const of subgrade	B00 (01)				
8. Entrench shoulder					
Qty wide TMB P/NO 03809					
1517.49 m ³ @ Rs 259.33/m ³					Rs 393606/-
Item (08) G.S. Gr-I	B00 (07)				
Qty wide TMB P/NO 03804					
418.90 m ³ @ Rs 3086.69/m ³					Rs 1293014/-
Item (09) W.B.M. Dr-IIT	B00 (08)				
Qty wide TMB P/NO (04) 30					
159.55 m ³ @ Rs 4475.10/m ³					Rs 714002/-
Item (10) Const of RCC rigid pavement m/c	B00 (12)				
Qty wide TMB P/NO (05) 30					
52.10 m ³ @ Rs 7752.15/m ³					Rs 414307/-
Item (11) B00 (10) providing and supply 300mm dia cable duct					
10 Rm @ Rs 983.44/m					Rs 9834/-
Item (12) B00 (35) Earthwork for excavation for foundation of culvert					
Qty wide TMB P/NO (05) 30					
29.45 m ³ @ Rs 383.28/m ³					Rs 11288/-

Continuation

Continuation

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21.12.27

