

HEAD → MMGSY (NDB)

PACKAGE NO - MMGSY-NDB-BRRP-

S.B. PUR.

Schedule XLV-Form No. 134

Name of work:- MMGSY Road Buthiyasahare
(Dih Tola) to Chausa BGS

R.W.D. WORKS. **DIVISION**
Simra BGLHiyarpur

R.W.D. WORKS **SUB-DIVISION**
Sombarsa

MEASUREMENT BOOK

NO → 823

2

94 82 97 40 41 78 86 86 130 945 821 971



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.	
① Name of work— Construction of road from MNGS Road Barik Mustani (Dikula) to Chousa Bosa					
② Agency— M/s Kulwar Construction And— Kharaypur Block Bahadurpur Distt. Darbhanga					
③ Agreement No.— 24 MSB 2023-24					
④ Agreement Value—					
					Part A = Rs 20341701.00
					Part B = Rs 1555788.00
					Total = Rs 21897689.00
⑤ Date of start— 14.08.2023					
⑥ Date of Completion— 13.08.2024					
					MEASUREMENT
① E/W in excavation for foundation of Shedding					
By 20' cut walls	11m x 6.00m x 4.80m x 0.70m =				20.16 m ³
2nd 11' wall	21m x 4.80m x 1.30m x 1.80m =				22.46 m ³
1st wall	41m x 4.80m x 3.44m x 1.80m =				121.36 m ³
					163.98 m ³
② M/s concrete for plant of RCC in open foundation					

Continuation

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Particulars	Details of actual measurement				Contents of area
	No.	L	B	D	
3) Cement	1111	6.00m	3.80m	0.10m	2.28m ³
R/Wall	4111	4.50m	2.40m	0.20m	9.56"
					11.84m ³
4) Plain concrete for plain					
in slab					
R/Wall	4111	4.50m	2.40m	0.20m	7.36m ³
	4111	4.50m	1.95m	0.20m	6.981
	4111	4.50m	1.84m	0.20m	6.62"
	4111	4.50m	1.74m	0.20m	6.26"
	4111	4.50m	1.64m	0.20m	5.90"
	4111	4.50m	1.54m	0.20m	5.53"
	4111	4.50m	1.44m	0.20m	5.18"
	4111	4.50m	1.34m	0.20m	4.82"
R/Wall	2111	3.80m	0.30m	1.50m	3.42"
					52.06m ³
5) Plain cement concrete in					
Substructure					
	4111	4.50m	0.80m	2.80m	40.68m ³
6) Primary Deep Lake in Substructure					
and R/Wall				36m	
7) SPPIP and place Hx 50 bar					
Reinforcement in Substructure					
Bottom slab					
Between					
	60m	3.80m			228.00m
Top	60m	3.80m			228.00m

Continuation 4.56.00m

Particulars	Details of actual measurement				Contents of area
	No.	L.	B.	D.	
				101F 456.00m	
				@ 0.89 kg/m =	405.84 kg
				Distribution bar 10MM dia	
				Bottom 38 max 6.00m =	228.00m
				Top 38 max 6.00m =	228.00m
					456.00m
				@ 0.62 kg/m =	282.72 kg
				Side Wall 12MM dia Main bar	
				Bottom Side 2 nos x 60mm x 3.00m =	360.00m
				Top Side 2 nos x 60mm x 3.00m =	360.00m
					720.00m
				@ 0.89 kg/m =	640.80 kg
				Distribution bar 10MM dia	
				Bottom Top Wall 2 nos x 30mm x 6.00m =	360.00m
				2 nos x 30mm x 6.00m =	360.00m
					720.00m
				@ 0.62 kg/m =	446.40 kg
				Chair 10MM dia	
				18 max 1.00m =	18.00m
				@ 0.62 kg/m =	11.16 kg
				Creep Wall 12MM dia Main bar	
				4 nos x 30mm x 1.50m =	180m
				@ 0.89 kg/m =	160.20 kg
				Distribution bar 10MM dia	
				4 nos x 15 max 3.00m =	180m
				@ 0.62 kg/m =	111.60 kg

Continuation

2058.72 kg
= 2.059 MT

Particulars	Details of actual measurement			Contents of area
	No.	L	B.	
(20) RCC In slab structure				
Box Culverts 11x6.00m x 3.80m x 0.30m = 6.84m ³				
2 deep walls 2 m x 6.00m x 0.40m x 3 nos = 14.4m ³				
Haarck 2 m x 6.00m x 0.10m x 120 = 0.120m ³				
				21.36m ³
(21) Backfilling behind abutments				
2 m x 4.50m x 5.20m x 0.20m = 9.36m ³				
2 m x 4.50m x 5.90m x 2.83m = 116.90m ³				
				126.26m ³
Deduct				
Abutment 2 m x 4.50m x 0.30m x 2.70m = 7.66m ³				
4 m x 4.20m x 0.30m x 2.89m = 14.58m ³				
				104.26m ³
(22) Bridge of 2x4 m for Public use				
2 m x 4.50m x 0.30m x 2.70m = 7.66m ³				
4 m x 4.20m x 0.30m x 2.89m = 14.58m ³				
				22.00m ³
(23) Elevation of excavation for structure				
Box Culverts 11x6.00m x 3.80m x 0.65m = 13.65m ³				
2 walls 2 m x 3.80m x 1.30m x 1.80m = 16.38m ³				
2 walls 4 m x 3.32m x 3.42m x 1.80m = 81.75m ³				
				111.78m ³
(24) Provide concrete in open foundation				
Box Culverts 11x6.00m x 3.80m x 0.10m = 1.50m ³				
2 walls 4 m x 3.32m x 2.42m x 0.20m = 6.42m ³				
				7.92m ³

Continuation

Particulars	Details of actual measurement				Contents of area
	No.	L.	B.	D.	
<u>13</u> <u>192</u> <u>mid concrete in foundation</u>					
R/Wall	411	2.92m	2.017m	0.2m	4.71m ³
	411	2.92m	1.917m	0.2m	4.48
	411	2.92m	1.817m	0.2m	4.24
	411	2.92m	1.717m	0.2m	4.01
	411	2.92m	1.617m	0.2m	3.78
	411	2.92m	1.517m	0.2m	3.55
	411	2.92m	1.417m	0.2m	3.31
	411	2.92m	1.317m	0.2m	3.08
e/Wall	211	2.50m	0.3m	1.50m	2.25
					33.40m ³
<u>13</u> <u>193</u> <u>Plain cement concrete in subgrade</u>					
R/Wall	411	2.92m	0.78m	1.78m	16.22m ³
<u>14</u> <u>194</u> <u>Brick deep holes in sub. R/Wall</u>					
					36m ³
<u>15</u> <u>196</u> <u>SRPF and plaster H & SD ber</u>					
					Mad ber 12mm kg
Bottom	60mm	2.50m			150.00m
Top	25mm	6.00m			150.00
					300.00m
					@ 0.89 kg/m = 267.00 KG
Distribution ber					10mm kg
Bottom	60mm	2.50m			150.00m
Top	25mm	6.00m			150.00
					300.00m
					@ 0.62 kg/m = 186.00 KG
Continuation					453.00 KG

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Particulars	Details of actual measurement				Contents of area
	No.	L.	B.	D.	
					MT 453.00 KG
Chap	10 mm d/f				
		18.00 m	1.00 m		= 18.00 m
					@ 0.1316 kg/m = 1.16 KG
Main bar or submerit	10 mm d/f				
		2.50 m	3.00 m		= 3.00 m
					@ 0.89 kg/m = 2.67 KG
Distribution bar	10 mm d/f				
		2.50 m	6.00 m		= 3.00 m
					@ 0.62 kg/m = 1.86 KG
					917.16 KG
Limit Set					0.880 MT

(16) (15)	RCC in Substructure				
Bottom slab	1 m x 6.00 m x 2.50 m	0.25 m			= 3.75 m ³
Side Wall	2 m x 6.00 m x 2.00 m	0.25 m			= 6.00 m ³
Column	2 m x 6.00 m	0.10 m x 0.10 m			= 0.12 m ³
					9.87 m ³

(17) (16)	Backfill behind abutment, 1/4 wall				
	2 m x 2.92 m x 5.20 m	0.20 m			= 6.07 m ³
	2 m x 2.92 m x 4.61 m	1.78 m			= 47.92 m ³
					53.99 m ³
Deduct					53.99 m ³
fill in mch	2 m x 4.61 m x 0.60 m	1.70 m			= 9.38 m ³
	4 m x 2.32 m x 0.60 m	1.87 m			= 10.42 m ³
					34.99 m ³

(18) (17)	RCC in fill mch				
	2 m x 4.61 m x 0.60 m	1.70 m			= 9.38 m ³
	4 m x 2.32 m x 0.60 m	1.87 m			= 10.42 m ³
					19.82 m ³

Continuation

Particulars	Details of actual measurement				Contents of area
	No.	L.	B.	D.	
(19) (163) Setty out pillars =					17 nos
(20) (164) Clerery LG road 1st road					
		69m	30m	3.50m	$= 7245.00m^3$
		24m	3.50m		$= 84m^3$
					$7329.00m^3$
					$0.734m^3$
(21) (165) Excavation for road way cutting					
		27m	2.80m	30m	$\times 0.55m \times 0.10m = 88.20m^3$
		21m	1.5m	0.525m	$\times 0.10m = 1.581$
		21m	3.2m	30m	$\times 0.375m \times 0.10m = 72.00m^3$
		21m	9m	0.375m	$\times 0.10m = 0.684$
					$162.45m^3$
(22) (166) Ditch 9m x 1.1m x 30m					
		9m	30m	3.00m	$\times 0.10m = 81.00m^3$
		5m	3.00m	0.10m	$= 1.50m^3$
					$82.50m^3$
(23) (167) Construction of embankment					
with 10% excess material obtained from borrow pits					
		9m	30m	0.9m	$\times 0.18m = 2980.80m^3$
					For 100m lead $2980.80m^3 \times 20\%$
					$= 596.16m^3$
(24) (168) Construction of embankment with 10% excess material obtained from borrow pits					
		9m	30m	0.9m	$\times 0.18m = 2980.80m^3$
					For 100m lead $2980.80m^3 \times 80\%$
					$= 2384.64m^3$

Continuation

Particulars	Details of actual measurement				Contents of area
	No.	L.	B.	D.	
(26) 170 Construction of Subgrade and earthen shoulder					
Height of GSB					
$2\text{ m} \times 6\text{ m} \times 30\text{ cm} \times 1.675\text{ m}$					693.45 m^3
(27) 171 Granular Subbase course graded material					
$2\text{ m} \times 28\text{ m} \times 90\text{ cm} \times 0.525\text{ m}$					288.20 m^3
$2\text{ m} \times 15\text{ m} \times 0.525\text{ m} \times 0.10\text{ m}$					1.58 m^3
$1\text{ m} \times 28\text{ m} \times 30\text{ cm} \times 4.05\text{ m}$					340.20 m^3
$1\text{ m} \times 15\text{ m} \times 4.05\text{ m} \times 0.10\text{ m}$					6.08 m^3
Left side	$2\text{ m} \times 30\text{ m} \times 3.00\text{ m} \times 0.10\text{ m}$				18.00 m^3
Right side	$25\text{ m} \times 3.00\text{ m} \times 0.10\text{ m}$				7.50 m^3
Cement concrete	$2\text{ m} \times 21.80\text{ m} \times 1.00\text{ m} \times 0.10\text{ m}$				4.36 m^3
					466.06 m^3
(28) 176 Granular Subbase course Well graded material					
$9\text{ m} \times 30\text{ m} \times 3.75\text{ m} \times 0.10\text{ m}$					101.25 m^3
GSD to Ladder wing					
$2\text{ m} \times 32\text{ m} \times 30\text{ m} \times 0.375\text{ m} \times 0.10\text{ m}$					72.00 m^3
$2\text{ m} \times 9\text{ m} \times 0.375\text{ m} \times 0.10\text{ m}$					0.68 m^3
Profile correction					
$3\text{ m} \times 30\text{ m} \times 3.00\text{ m} \times 0.10\text{ m}$					27.00 m^3
$6.900\text{ m} \times 3.00\text{ m} \times 0.10\text{ m}$					2.07 m^3
Cement concrete	$1\text{ m} \times 17.40\text{ m} \times 1.00\text{ m} \times 0.10\text{ m}$				1.74 m^3
					204.74 m^3
(29) 180 Cable duct across road					
$30\text{ m} \times 2.50\text{ m}$					75.00 m^3

Continuation

15/11/26
RE

15/1/24 A.E.

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Particulars	Details of actual measurement				Contents of area
	No.	L.	B.	D.	
Abstract of all					
163 Settlement pillar					
17701 pty V.P. 7					
					@ 296321/acre → 50035=0
164 Clearing of ground of road and					
0.7334 acre pty V.P. 7					
					@ 72697.86/acre → 53,288=0
165 Excavation for roadway culvert					
162.4 pms pty V.P. 7					
Limit 162.45 m ³ @ 103.88/m ³ → 16878=0					
166 Draining of 1/2 acre of water to 1/4 acre					
82.50 m ³ pty V.P. 7					
					@ 1780.01/m ³ → 14685=0
167 Concrete embankment					
162.45 m ³ pty V.P. 7					
					@ 59.69/m ³ → 9697=0
168 Concrete embankment standard					
596.16 m ³ pty V.P. 7					
					@ 257.40/m ³ → 1,53,452=0
169 Concrete embankment standard					
2384.64 m ³ pty V.P. 7					
					@ 186.40/m ³ → 4,39,728=0
170 Construction of subgrade standard					
693.45 m ³ pty V.P. 8					
					@ 260.93/m ³ → 1,80,942=0
					R ₅ 10.50, 868=0

Continuation

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Particulars	Details of actual measurement				Contents of area
	No.	L.	B.	D.	
8 (7/171) Gravel subbase 10.50					86.8=00
1000 graded material					
466.06 m ³ pty V1 8					17 59 131=00
465.94 m ³ CS 3775.61/m ³					17 59 661=00
10 (7/171) Gravel subbase 10.50					
1000 graded material					
204.74 m ³ pty V1 8					7 72 978
204.73 m ³ CS 3775.61/m ³					7 72 981=00
11 (7/180) Cashed out across the road					
7500 pty V1 8					
CS 1183.74/m ³					8 88 781=00
12 (7/190) 6/10 m excavator for spherule					
111.78 m ³ pty V1 4					
111.71 m ³ CS 410.66/m ³					4 58 75=00
13 (7/191) Bridge concrete in open foundation					
7.92 m ³ pty V1 4					
CS 7896.55/m ³					6 25 41=00
14 (7/192) Bridge concrete in open foundation					
83.40 m ³ pty V1 5					
CS 8644.56/m ³					2 88 728=00
15 (7/193) Plain concrete in substructure					
16.22 m ³ pty V1					
CS 8968.01/m ³					1 45 461=00
16 (7/194) Bridge deck slab in substructure					
36.14 m ³ pty V1 5					
CS 13099.00/m ³					4 71 6=00

Continuation

2,19,607=00

4219080=00

Particulars	Details of actual measurement				Contents of area
	No.	L	B.	D.	
17 155					MPS 42.19, 607=00
9.87ms		ply	v	6	
18 156					C 9653.24ms - 93,294=00
0.86		MT	ply	v	6
19 157					C 82115.13ms - 970619=00
34.99ms		ply	v	6	
20 158					33050=00
4.030					C 971.23ms - 33041=00
21 159					33041=00
9.82ms		ply	v	6	
22 160					C 34063.22ms - 80533=00
163.98ms		ply	v	1	
23 161					C 410.66ms - 67340=00
11.84ms		ply	v	2	
24 162					C 7586.55ms - 93495=00
52.06ms		ply	v	2	
25 163					C 3644.56ms - 450036=00
40.12ms		ply	v	2	
26 164					362531=00
40.42ms					C 8968.01ms - 362541=00
36ms		ply	v	2	
27 165					C 130.93=00 - 4716=00
34.75ms					Continuation
44					5474694=00

5474694 = 10

Particulars	Details of actual measurement				Contents of area
	No.	L.	B.	D.	
96 205 Kare Comp Convent in 9.85/ha 21.36ms ply v 4				MT 56,75,222 = 0	
27 210 SPT 900 KCo. H 100 500 2.059m ply v 3				CS 9452.26/MT - 9201900 = 0	
98 211 Bacchally Shindar Surt mark 104.269ms ply v 4				CS 82115.13/MT - 8469.675 = 0	
104.108 212 Pantalygallay feller on 69 22.000ms ply v 4				CS 971.23/MT - 101119 = 0	
99 46 CS 4063.22/MT - 939391 = 0					
Apd 45T 18% = 8				R ₁ 60,36,702 = 0 60,36,173 = 0 10,36,608 = 0 108,6511 = 00	
Apd Lec 10 = 8				60,362 = 0	
Apd SF				R ₁ 71,83,046 = 0 71,83,046 = 00	
Le 10% below				R ₁ 72,63,675 = 0 72,63,046 = 00	
				CS 726,968 = 0 72,63,045 = 00	
				R ₁ 65,37,307 = 0 65,36,741 = 00	
15/11/24 BE					

Continuation