

Name of work — Bel darsi To Road

Agency — Md. Dilshad Khan

Measurement Book

Schedule XLV-Form No. 134

MM GSY (SC)

_____ DIVISION

Norhal —
_____ SUB-DIVISION

M.B. NO — ~~2084~~ 1184

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.	
Name of work:- Construction of road and C.D. Work from Beldari to Road under MMGSy (Length - 0.620 K.M)					
Name and address of Contractor					
Md. Dilshad Khan, At - H. No 85, Ward No-06 Karma, Karimganj, P.O. Bhadiya Dist - Gaya, Gaya					
No & date of agreement: 75/SBD/MMGSy/2020-2021 dated 05/12/2020					
Date of commencement 05/12/2020					
Date of Completion 04/09/2021					
Record entry					
(1) Construction of Reference and working benchmarks					
4 No 2. three nos respectively					
0.620 K.M.					
(ii) Construction of reference pillar, Bouries					
0.620 K.M					
(2) cleaning and grubbing of road land including uprooting of wild vegetation					

Continuation

Particulars	Details of actual measurement				Contents of area
	No.	L.	B.	D.	
grass, bushes, shrubs					
..... Tech. Spec.					
1x20x30.0Mx5.0M =					3000 M ²
1x20x30.0Mx5.0M =					1000 M ²
.....					2100 M ²
.....					or 0.31 Hec
(3) Construction of embankment					
with approved materials					
obtained from borrow					
pits with lift 1.5m transporting					
to site spreading grading					
to required slope and compacting					
..... lead up to 1000M.					
..... Tech. Spec.					

Chainage	Area till	Volume till	Cumulative volume till	Length	Qty
0.0					
Chainage	Area till	Av. Area till	Length	Volume	
0.	5.0	-	-	-	-
0 to 50M	5.648	5.324	50M	266.20M ³	
50M to 100M	5.305	5.476 5.284	50M	273.83M ³	
100 to 150M	5.264	5.284	50M	264.22M ³	
150M to 200M	5.522	5.393	50M	269.65M ³	
200M to 250M	5.611	5.566	50M	278.33M ³	
250 to 300M	5.666	5.638	50M	281.93M ³	
300 to 350M	5.300	5.483	50M	274.16M ³	
350 to 400M	5.877	5.589	50M	279.48M ³	
400 to 450M	5.646	5.762	50M	288.13M ³	
450 to 500M	5.525	5.586	50M	279.29M ³	
500 to 550M	5.286	5.406	50M	270.28M ³	
550 to 600M	5.294	5.290	50M	264.50M ³	
600 to 620M	4.529	4.9109	20M	98.18M ³	

Continuation

3388.18M³

Particulars	Details of actual measurement				Contents of area
	No.	L.	B.	D.	
	Total E/W Qty				3388.18 M ³
Deduct	Shoulder				523.025 M ³
	GSB				164.710 M ³
	P.C.C.				375.720 M ³
	W.D.M. (11)				176.124 M ³
					1259.65 M ³
					(-)
	Net E/W Qty				2128.65 M ³
DP by					
21/05/2021					
TE					

④ Construction of granular

Sub base by providing

Well graded materials

(Crushed stone aggregates

and coarse sand) spreading

in uniform layer

. . . . Compacting

with three wheel roller

. . . . Tech. spe.

$$1 \times 30.0 \text{ M} \times \frac{7.0 + 3.75}{2} \times 0.100 \text{ M} = 16.125 \text{ M}^3$$

$$6 \times 30.0 \text{ M} \times 3.75 \text{ M} \times 0.100 \text{ M} = 67.50 \text{ M}^3$$

$$1 \times 30.0 \text{ M} \times \frac{7.0 + 3.75}{2} \times 0.100 \text{ M} = 16.125 \text{ M}^3$$

$$2 \times 30.0 \text{ M} \times 3.75 \text{ M} \times 0.100 \text{ M} = 22.50 \text{ M}^3$$

$$1 \times 27.0 \text{ M} \times 3.75 \text{ M} \times 0.100 \text{ M} = 10.125 \text{ M}^3$$

$$132.375 \text{ M}^3$$

Continuation

Particulars	Details of actual measurement				Contents of area
	No.	L.	B.	D.	
⑤ Excavation for roadway in soil using manual means for carrying of cut earth to embankment with lift up to 1.5m and lead up to 100 m as per tech. Spe. (Box cutting)					
1x 7x30.0Mx 0.750Mx 0.100M :					15.75M ³
1x 10.0Mx 0.750Mx 0.100M :					0.75M ³
					16.50M ³
⑥ Construction of granular sub base (G.S.B) tech. Spe.					
1x 7x30.0Mx 0.750Mx 0.100M :					15.75M ³
1x 10.0Mx 0.750Mx 0.100M :					0.75M ³
					16.50M ³
2x 30.0Mx 3.75Mx 0.100M :					22.50M ³
1x 13.0Mx 3.75Mx 0.100M :					4.875M ³
10% for profile correction					
220Mx 3.0Mx 0.075M :					4.95M ³
					48.825M ³
Extra Total G.S.B					
132.375 + 48.82M ³ :					181.20M ³
Extra width at H curve (1% of Total Qty)					1.81M ³
					183.01M ³
Limit					182.94M ³
DP Jay					
22/06/2021					
J.E					

Particulars	Details of actual measurement				Contents of area
	No.	L.	B.	D.	
Construction Hume pipe					
culvert single pipe 1000 mm dia					
(7) E/W in excavation of foundation of structure as per drawing and tech spe.					
Face wall	2x6	3.0M	1.40M	1.50M	26.46M ³
Pipe portion	1x5	9.0M	1.50	0.80M	7.08M ³
					33.54M ³
(8) Providing P.C.C. Grade M-15 in open foundation as per drawing & tech. spe.					
Face wall	2x6	3.0M	1.40M	0.150M	2.65M ³
(9) Providing brick masonry work in cement mortar (1:4) in foundation as per drawing & tech. spe.					
Face wall	2x6	0M	$\frac{1.40+0.65}{2}$	1.35M	16.61M ³
(10) Brick masonry work in c.m. (1:4) in sub structure as per drawing & tech. spe.					
Face wall	2x6	0M	$\frac{0.65+0.420}{2}$	1.8M	11.55M ³
Deduction for pipe	2x	$\frac{3.14}{4}$	$(1.2)^2$	0.60	(-) 1.36M ³
					10.19M ³
(11) Providing and laying					

Particulars	Details of actual measurement				Contents of area
	No.	I.	II.	III.	
13. mark Cement concrete Hume pipe N ^o with collar tech.					
	3 x 2.50 M				= 7.50 M
(12) Laying 1st Class bedding on well compacted sand monor or approved granular materials					
	1 x 5.9 M x 1.50 x 0.55 :				4.87 M ³
(13) Filling of foundation trenches . . . Sand filling					
Face Wall	2 x 6.0 x 0.405 x 1.0				4.860 M ³
Around pipe	1 x 6.30 x 1.5 x 0.90 M :				8.510 M ³
					13.370 M ³
Deduct pipe portion	1 x 6.30 x 0.91 x 1.0 :				5.730 M ³
					7.64 M
(14) Brick masonry work in c.m. (1:3) in Parapet tech. Spec.					
	2 x 6.0 M x 0.4 M x 0.60 M :				2.88 M ³
(15) Plastering with cement mortar (1:4) 15 mm thick on brickwork in Sub Structure as per tech Spec.					

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Particulars	Details of actual measurement				Contents of area
	No.	L.	B.	D.	
Parapet wall Side	4	6.04 M	0.60 M		14.40 M ²
Top	2	6.04 M	0.40 M		4.80 M ²
End	4	0.40 M	0.60 M		0.96 M ²
					<u>20.16 M²</u>

(16) Providing and fixing
of typical MMGSy
informatary sign
board with Logo
per MORD specification

2 nos

DPG
25/06/2021
GE

Continuation

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Particulars	Details of actual measurement				Contents of area
	No.	L.	B.	D.	
Qty vide this MB P-02					
0.31 Hwt @ Rs 102267.52/Hwt					31703.00
③	Construction of embankment with approved materials obtained from borrow pits with lift 1.5M transporting to site spread, grading & compacting ... all couple - - - tech sp.				
Qty vide this MB P-03.					
2128.45 M ³ @ Rs 199.69/M ³ Rs					425070.00
4/10	Construction of granular sub base (G.S.B) by providing well graded materials (crushed stone aggregates and coarse sand) spreading in uniform layer. . . . and compacting with three wheel static roller . . . tech sp.				
Qty vide this MB P-04.					
182.94 M ³ @ Rs 1648.45/M ³ Rs					301567.00
5/9	Box cutting; - Excavation of soil for roadway in soil with manual method				

Rs 763290.00

Continuation

Particulars	Details of actual measurement				Contents of area
	No.	L.	B.	D.	
				tech. spec	
Qty vide this MB P-04.					
16.50 M ³ @ Rs 126.24/M ³ Rs					2083:40
6/33:- E/W in excavation for Structure as per drawing & tech. spec.					
Qty vide this MB P-05					
33.54 M ³ @ Rs 538.64/M ³ Rs					18066:40
7/34:- Providing P.C.C. Grade M-15 in foundation as per drawing & tech. specification					
Qty vide this MB P-05					
2.65 M ³ @ Rs 4095:06/M ³ Rs					10852:40
8/37:- Brick masonry work in c.m. (1:4) in foundation complete as per drawing & tech. spec.					
Qty vide this MB P-05.					
16.61 M ³ @ Rs 5577.17/M ³ Rs					92637:40
9/41:- Brick masonry work c.m. (1:4) in substructure as per drawing & tech. spec.					
Qty vide this MB P-05					
10.19 M ³ @ Rs 5829:09/M ³ Rs					59398:40
				Rs 9,	46326:40

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Particulars	Details of actual measurement				Contents of area
	No.	L.	B.	D.	
10/59:-	Providing and laying				
	R.C.C. H.P. NPB for				
	culvert of 1st Class				
	bedding fixing with				
	Collars. tech. spe.				
	Qty vide this MB P-06				
7.50 M	@ Rs 3913:-	44/M	Rs		29352:-00
11/60:-	Laying 1st Class bedding				
	on well compacted sand				
	muru tech. spe.				
	Qty vide this MB P-06				
4.87 M ³	@ Rs 453:-	22/M ³	Rs		2207:-00
12/61:-	Filling of foundation				
	trenches . . . as per				
	drawing & tech. spe.				
	Qty vide this MB P-06				
7.64 M ³	@ Rs 453:-	22/M ³	Rs		3463:-00
13/45:-	Brick masonry work				
	in C.M. (1:3) in Parapet				
	. . . as per drawing				
	tech. spe.				
	Qty vide this MB P-06				
2.88 M ³	@ Rs 5772:-	41/M ³	Rs		16625:-00
14/46:-	Plastering with cement				
	mortar (1:4) 15 mm thick				
	on brick work in Substructure				

Rs 997973:-00

Continuation

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Particulars	Details of actual measurement			Contents of area
	No.	L.	B.	
Qty vide this MP P-07				
20.16 M ² @ Rs 144.82/M ² Rs				2920.6
16/25:- Providing and fixing of typical MMGSy ⁸⁰ informatory sign board with Logo				
Qty vide this MP P-07				
2 nos @ Rs 10318 = 85/each Rs				20638.00
				Rs 1021531.00
Deduct below @ 8% (-) Rs				81722.00

Add 1% Labour Rs	Rs	939809.00
12% GST	-Rs	9398.00
	Rs	112777.00
	Rs	1061984.00

DP 24
25/06/2021
J.E

Material statement

- ① Soil — 2178.69 M³
- ② Cement : 3.7 t
- ③ Sand — 102.78 M³
- ④ Stone aggregates
Stone chips 141.15 M³
- ⑤ Bricks — 14445 nos

DP 24
25/06/2021
J.E

Continuation