

MMGSY-(SC).

Schedule XLV-Form No. 134

N/Worki - Construction of MMGSY road from - PMGSY
Karwanna to Karwanna Tola in Sursand Block.

सिरीज कार्म विभाग, कार्म प्रम. प्र. ५५१ DIVISION

सिरीज कार्म विभाग, कार्म प्रम. प्र. ५५१ SUB-DIVISION

२५५२५१

M.B-No-2378

MEASUREMENT BOOK

Agency :- Madan Mohan Jha - Sitamorkhi -

Particulars	Details of actual measurement				Contents of area
	No.	L.	B.	D.	
N/Work:-	Construction of MMGSY Road				
	from PMGSY Karwanna To				
	Karwanna Tola in Sursard				
	Block.				
Agency:-	Madan Mohan Jha.				
	Balknaha, Sitamarhi				
Agreement No/Date:-	MMGSY 163/ SDB				
	2020-21	Date 23.		01.2021.	
Date of start:-	23.	01.2021			
Date of completion	22.	01.2022.			
Actual Date of completion	20.01.2022.				
Date of Measurement:					
(A) Construction of road work:-					
1) Dismantling of P.C.C pavement					
by mechanical means.					
	10	30.00	3.75	0.15	168.75 m ³
2) Box cutting:- Excavation for					
road way in soil using					
manual means.					
(A) at flexible road-					
	2x6	30.00	0.525	0.10	18.90
	2x1	20.00	0.525	0.10	2.10.
(B) at both side of rigid road					
	2x6	30.00	0.375	0.10	13.50
	2x1	20.00	0.375	0.10	1.50
Total qty:-				⇒	36.00 m ³
(3) Construction of embankment					
with material obtained from					
borrow pits. with lift and leads					
up to 1.50mt.					

Particulars	Details of actual measurement				Contents of area
	No.	L.	B.	D.	
2.30	2x4	3.60	3.38		243.36 m ²
Insured 20/01/2022 JE					
AKJ03 20/01/2022 AK					
<u>Abstract of cost</u>					
1) Providing and fixing Working bench mark pillars.					
alg vide MB No - 23-8/P-08.					
alg 2.20 km @ 4264.37/Pkm ⇒ 9382.00/-					
2) Reference pillars					
alg vide TMB/P-08.					
alg 2.20 km @ 1975.78/Km ⇒ 4347.00/-					
3) Clearing and grubbing road land by manual means-					
alg vide TMB/P-08.					
alg 1.54 Ha @ 49496.70/Ha ⇒ 76225.00					
4) Box cutting excavation for road way in soil-					
alg vide TMB-P-08.					
alg 45.00 m ³ .					
alg 36.00 m ³ (P-13)					
total alg 81.00 m ³ @ 74.10/m ³ = 6002.00/-					
5) Dismantling of cement concrete Pavement					
alg vide TMB P-13)					
alg 168.75 m ³ @ 1552.44 1548.44/m ³ ⇒ 261299.00					

Particulars	Details of actual measurement				Contents of area
	No.	L.	B.	D.	
(6) Construction of Embankment.					
With material obtained from borrow pits.					
(a) Road up to 100 mt.					
Qty 454.50 m ³ P-08.					
Qty 417.10 m ³ P-14.					
Totally 871.60 m ³ @ 175.11/m ³ ⇒ 152625.00					
(b) Road up to 100 mt.					
Qty 1363.50 P-09					
Qty 208.40 P-14.					
Total Qty 1571.90 m ³ @ 138.27/m ³ ⇒ 217347.00					
(7) Construction of Sub grade					
and Earthen shoulders					
material obtained from borrow pits.					
(a) Flexible road					
Qty 1944.00 P-09.					
Qty 1575.23 P-14					
Total Qty 3519.23 m ³ @ 176.75/m ³ ⇒ 6,22,024					
(b) Rigid road-					
Qty 131.25 m ³ P-09.					
Qty 203.75 m ³ P-14.					
Total Qty 335.00 @ 176.75/m ³ ⇒ 59,211.0					
(8) Construction of G.S.B. Gr I					
providing well graded material					
spread in uniform layers.					

Particulars	Details of actual measurement				Contents of area
	No.	L.	B.	D.	
(A) Flexible road :-					
alg	878.25 m ³	P-	(09)		
alg	166.54 m ³	P-	(15)		
Total alg	1044.79 m ³	@ 2795.59	m ³		29,20,804/-
(B) Rigid road :-					
alg	57.92 m ³	P-	(09)		
alg	27.24 m ³	P-	(15)		
Total alg	85.16 m ³	@ 2795.59	m ³		2,38,072.00
(9) Providing laying spreading and compacting stone aggregate WBM-Gr III.					
(A) Flexible road -					
alg	304.88 m ³	P-10-			
alg	79.70 m ³	P-16.			
Total alg	384.58 m ³	@ 3400.83	m ³		13,07,891/-
(B) Rigid road					
alg	170.95 m ³	P-10-			
alg	58.55 m ³	P-16			
Total alg	229.50 m ³	@ 3400.83	m ³		7,80,490.00
(10) Providing and applying Primer coat SS _i					
alg vide TMB	P-(18)				
alg	5127.75 m ²	@ 41.29	m ²		2,11,725.00
(11) Providing and applied Tack coat SS _i					
alg vide TMB	P-(18)				
alg	5127.75 m ²	@ 14.00	m ²		71,789.00

Particulars	Details of actual measurement				Contents of area
	No.	L.	B.	D.	
(12) Providing and laying rolling of dense graded -					
Premix surfacing 20mm thick.					
alg vide TMB P-18					
alg 5127.75 m ² @ 199.31/m ² ⇒ 10,22,012.00/-					
(13) Construction of unraifund- cement concrete Pavement					
alg vide TMB-P-17					
alg 489.58 m ² @ 7838.08/m ² ⇒ 38,37,367.00					
(14) Providing Rec R.C.C M15 grade.					
(i) km stone					
alg vide TMB-P-18					
alg 3.00 Nos @ 2448.76 each ⇒ 7346.00					
(ii) 200 mm stone -					
alg 9.00 Nos @ 648.24 each ⇒ 5834.00					
(15) R.C.C M15 graded Boundary pillars -					
alg vide TMB/P-13					
alg 100 Nos @ 486.24 each ⇒ 48,624.00					
(16) Providing and fixing of Retro reflective -					
(i) 600mm circular speed limit.					
alg 12.00 Nos @ 4886.72 each = 58,640.00					
(ii) 900mm equilateral triangle -					
alg 6.00 Nos @ 5533.33 each = 33,200.00					

Particulars	Details of actual measurement				Contents of area
	No.	L.	B.	D.	
(11) 600mm X 450mm rectangular					
at 6.00 Nos @ 476.26 each $\Rightarrow$					28,568.00
(12) Providing and laying -					
hot applied Cherno					
plastic compound -					
(13) Flexible road -					
at vide TMB/P-19					
at 268.00 m ² @ ^{735.40} 820.83/m ² $\Rightarrow$					1,97,087.00
(13) Rigid road -					
at 160.00 m ² @ 820.83/m ² $\Rightarrow$					13,333.00
(18) planting of trees by the					
road side.					
at vide TMB/P-20					
at 140.00 No @ 800.30 each $\Rightarrow$					1,12,042.00
(19) Providing and laying					
of R.C.C. pipe duct					
300mm dia -					
at vide TMB-P-20					
at 68.00 mt @ 878.33/m $\Rightarrow$					59,726.00/-
(20) Providing and erecting					
direction sign board.					
at vide TMB P-20					
at 01 No @ 3250.11 each $\Rightarrow$					3250.00/-
(21) Providing and fixing masonry					
sign board -					
at 4.00 No - P-07					
at 2.00 No - P-20					
Total 6.00 No @ 11064.87 each $\Rightarrow$					66,389.00/-
Continuation					
Total cost of road construction					1,25,51,326.00/-
Work (Rs)					

Particulars	Details of actual measurement				Contents of area
	No.	L.	B.	D.	
(B) Abstract cost of Hume pipe culverts					
(1) Earth work in excavation in foundation for structure.					
alg vide TMB P (21)					
alg $62.646 \text{ m}^3 @ 260.59/\text{m}^3 \Rightarrow$					16325.00
(2) Providing MIS P.C.C in foundation.					
alg vide TMB P (21)					
alg $11.382 \text{ m}^3 @ 6307.63/\text{m}^3 \Rightarrow$					71782.00
(3) Providing and laying for plain concrete for open foundation					
alg vide TMB/P 21					
alg $55.48 \text{ m}^3 @ 6934.09/\text{m}^3 \Rightarrow$					384703.00
(4) Providing and laying NP3 R.C.C Hume pipe					
alg vide TMB - P. 21.					
alg $30.00 \text{ nos} @ 1721.05/\text{nos} \Rightarrow$					51632.00
(5) Painting two coats in new concrete surface.					
alg vide TMB P-22					
alg $243.36 \text{ m}^2 @ 95.63/\text{m}^2 \Rightarrow$					23273.00
(B) Total cost of H. P. culvert					547715.00

Material		Quantity	Unit
1)	Earth work.	2404.48	m ³
2)	GSB Gr I Metal	155.02	m ³
3)	WBM Gr II Metal	106.45	m ³
4)	Screening material	70.55	m ³
5)	Stone chips	440.62	
6)	Cement	17.14	MT
7)	SS ₁	4.36	MT
8)	RS ₁	1.153	MT
9)	Bitumen premix (S ₉₀)	9.742	MT.
10)	Course sand	220.31	m ³ .

Shardul
20/01/22
JE

Continuation
20.1.22
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