

Name of work:- Constructing of M.M.S.Y. Road from Pachhu Sada

Schedule XLV-Form No. 134

House to Kamtali Porhar Chikani R.O. Road-
in Sarsand block.

DIVISION

M.M.S.Y. (Gen.)

SUB-DIVISION

Name of Agency:- Balwinder. M.Z. Harpur.

MEASUREMENT BOOK

No 2313

1.

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.	
Name of work:-	Construction of MMGSY				
		Road from Pachhu Sadla's			
		House to Kantahipokhar			
		Chikani REO Road in			
		Subsand block.			
Name of Agency:-	Balmukund.				
No/Agreement Date:-	/SBD/2019-20-Dt				
		23.01.2020.			
Date of work start:-	23.01.2020				
Date of work completion:-	22.07.2020.				
Actual completion Date:-					
Date of measurement:-	28/02/2020.				
1) Providing and fixing of					
work bench mark.					
	1	0.600			0.600 Km
2) Reference pillar -					
	1	0.600			0.600 Km
3) clearing and grubbing road					
land including uprooting					
wild vegetation grass bushes.					
	2	600	3.50		4200 m ^L
Ha = $\frac{4200}{10000} =$					0.42 Ha

Continuation

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Particulars	Details of actual measurement				Contents of area
	No.	L.	B.	D.	
(4) Excavation for roadway in soil using manual for carrying of cut earth to embankment site					
	2x10	30.00	0.375	0.10	22.50
	2x10	30.00	0.375	0.10	22.50
Totality					45.00m ³ .
5) construction of Embankment- With material obtained from borrow pits. lead for 100mt.					
	4	30.00	5.00	0.30	180.00
	4	30.00	5.00	0.25	150.00
Totality					330.00 m ³ .
6) construction of subgrade and earthen shoulder - material obtained from borrow pits.					
(A) Side of GSB.					
	2	6.50	0.625	0.10	0.81
	2	30.00	0.55	0.10	3.30
	2	18.00	0.55	0.10	1.98
	2	10.00	0.55	0.10	1.10
	4	30.00	0.55	0.10	6.60
	4	30.00	0.625	0.10	7.50
	10	30.00	0.55	0.10	16.50
	2	30.00	0.625	0.10	3.75
Total -					41.54 m ³ .

Continuation

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B/E 41.54 m³.

Particulars	Details of actual measurement				Contents of area
	No.	L.	B.	D.	
	2	20.50	0.625	0.10	2.56
	2	30.00	0.55	0.10	3.30
	2	14.50	0.55	0.10	1.60
	3x2	30.00	0.55	0.10	9.90
	3x2	30.00	0.625	0.10	11.25
	2x1	10.00	0.625	0.10	1.25
	2x1	17.00	0.55	0.10	1.87
	2x1	8.60	0.625	0.10	1.08
	2x1	1.30	0.55	0.10	0.14
Totally (A)					74.49 m ³ .

(B) Bolt side.

of WBM.

	2	6.50	0.625	0.075	0.61
	2	30.00	0.55	0.075	2.48
	2	18.00	0.55	0.075	1.49
	2	10.00	0.55	0.075	0.83
	2x2	30.00	0.55	0.075	4.95
	2x2	30.00	0.625	0.075	5.63
	2x5	30.00	0.55	0.075	12.38
	2x1	30.00	0.625	0.075	2.81
	2x1	20.50	0.625	0.075	1.92
	1x2	30.00	0.55	0.075	2.48
	1x2	14.50	0.55	0.075	1.20
	3x2	30.00	0.55	0.075	7.43
	3x2	30.00	0.625	0.075	8.44
	2x1	10.00	0.625	0.075	0.94
	2x1	17.00	0.55	0.075	1.40

Totally

54.99 m³.

Continuation

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B/F 54.99 m³

Particulars	Details of actual measurement				Contents of area
	No.	L.	B.	D.	
	2	8.60	0.625	0.075	0.81
	2	1.30	0.55	0.075	0.11
Total (B)					55.91 m ²
(C) Bolk-					
Side of C.C.	2	6.50	0.625	0.16	1.30
Parant.	2	30.00	0.55	0.16	5.28
	2	18.00	0.55	0.16	3.17
	2	10.00	0.55	0.16	1.76
	2x2	30.00	0.55	0.16	10.56
	2x2	30.00	0.625	0.16	12.00
	2x5	30.00	0.55	0.16	26.40
	2x1	30.00	0.625	0.16	6.00
	2x1	20.50	0.625	0.16	4.10
	2x1	30.00	0.55	0.16	5.28
	2x1	14.50	0.55	0.16	2.55
	3x2	30.00	0.55	0.16	15.84
	3x2	30.00	0.625	0.16	18.00
	2x1	10.00	0.625	0.16	2.00
	2x1	17.00	0.55	0.16	2.99
	2x1	8.60	0.625	0.16	1.72
	2x1	1.30	0.55	0.16	0.23
Total (C)					119.18 m ²
Total (A+B+C)					249.58 m ³
Date of Measurement					15/05/2020
7) Construction of G.S.B. by providing well graded material in uniform layers.					

Continuation

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Particulars	Details of actual measurement				Contents of area
	No.	L.	B.	D.	
8		30.00	0.375	0.10	9.00
2x2		30.00	0.375	0.10	4.50
3x2		30.00	0.375	0.10	6.75
2x2		30.00	0.375	0.10	4.50
3x2		30.00	0.375	0.10	6.75
3x2		30.00	0.375	0.10	6.75
3x2		30.00	0.375	0.10	6.75
2x2		8.50	1.20	0.10	4.08
2x3		3.50	0.90	0.10	1.89
2x3		6.35	1.10	0.10	4.19
2x2		5.85	0.45	0.10	0.53
2x2		6.85	0.90	0.10	2.47
2x2		8.60	0.75	0.10	2.58
2x2		8.75	0.90	0.10	3.15
Totally					63.89 m³
Date of measurement - 28/05/2020.					
8) Providing laying spreading and compacting stone aggregate WBM Gr III.					
1x6.50 x (7.65 + 3.75) x			0.075		2.78
2					
1 x 30.00 x 3.75 x 0.075					8.44
1		18.00	3.85	0.075	5.20
1		10.00	4.50	0.075	3.38
					3.88
2		30.00	3.75	0.075	16.88
2		30.00	3.50	0.075	15.75
5		30.00	3.75	0.075	42.19

Totally

Continuation

95.12 m³
94.62 m³

Particulars	Details of actual measurement				Contents of area
	No.	L.	B.	D.	
	1	30.00	3.75	0.075	8.44
$1 \times 20.50 \times (3.75 + 4.50 + 3.75)$					
			3	$\times 0.075$	= 6.15
1X	30.00	3.05	X	0.075	6.86
	1	14.50	3.05	0.075	3.32
	3	30.00	3.05	0.075	20.59
	3	30.00	3.00	0.075	21.60
	1	10.00	3.75	0.075	2.81
	1	17.00	2.90	0.075	3.70
$1 \times 8.60 \times (3.30 + 4.90 + 9.00)$				0.075	3.70
	1	1.30	3.60	0.075	0.35
Totally					172.14 m ³
Borings					$\Rightarrow 172.13 \text{ m}^3$

Date of Measurement - 25.06.2020.

9) Construction of unreinforced cement concrete pavement

$1 \times 6.50 \times (7.65 + 3.75)$				$\times 0.16$	5.93
	1	30.00	3.75	0.16	18.00
	1	18.00	3.85	0.16	10.69 11.09
	1	10.00	4.500	0.16	7.20
	2	30.00	3.75	0.16	36.00
	2	30.00	3.50	0.16	33.60
	5	30.00	3.75	0.16	90.00
	1	30.00	3.75	0.16	18.00
$1 \times 20.50 \times (3.75 + 4.50 + 3.75)$				$\times 0.16$	13.12
			3		13.20

Totally

Continuation

Particulars	Details of actual measurement				Contents of area
	No.	L.	B.	D.	
	1	30.00	3.05	0.16	14.64
	1	14.50	3.05	0.16	7.08
	3	30.00	3.05	0.16	43.92
	3	30.00	3.20	0.16	46.08
	1	10.00	3.75	0.16	6.00
	1	17.00	2.90	0.16	7.89
	$1 \times 8.60 \times (3.30 + 4.90 + 9.00) / 3 \times 0.16$				7.89
	1	1.30	3.60	0.16	0.75
Total alj					367.19 m ³
10) R.C cm 15 grade concrete Kilometre stone -					
(ii) km stone - alj 2.00					2.00 Nm ³
(iii) 200 mt Stone. alj 2.00					2.00 Nm ³
11) Boundary pillar - R.C cm 15 grade - on turning.					
alj 2x5					10.00
2x5					10.00
Total alj					20.00 Nm ³

Continuation

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Particulars	Details of actual measurement				Contents of area
	No.	L.	B.	D.	
(12) Providing and fixing Retro. mirror reflective - sign board					
(i) 600 mm circular -					
Qty 4.00					4.00 Nos
(ii) 900 mm equilateral or triangle -					
Qty 02 Nos					02 Nos
(14) 600 mm x 450 mm - rectangular -					
Qty 2.00 Nos					2.00 Nos
(13) Providing and laying of hot applied thermo plastic compound 2.50 mm					
Qty 2	600.0	0.10			120 m ²
(14) Providing and laying of R.C.C pipe 300 mm dia					
Qty 8 x 2.50 m					7.50 mt
3 x 2.50 mt					7.50 mt
Total Qty					15.00 mt.
(15) Providing and erecting direction retro reflective - sign board					
Direction board -					
Qty 01					01 Nos

Continuation

Particulars	Details of actual measurement				Contents of area
	No.	L.	B.	D.	
(16) Providing and fixing legs of masonry information sign based, Citizen information board and maintenance board - Qty					5.00 Nos
(B) Construction of parapet wall of culvert.					
(1) Brick work in cm 1:3	2	6.50	0.40	0.60	3.12 m ³
2) Providing P.C.C masonry coping on parapet wall -					
	1	13.00			13.00 m
(3) plastering with c.m 1:4 on brick wall -					
	2	6.50	0.40	0.60	15.60 13.00 m ²
	2	6.50	0.40		5.20
	2x2	0.40	0.60		0.96
Total qty (Plastering work)					21.76 m ²
Dated 25/06/2020 J.E (Surveyor)					

Continuation

-: Abstract of cost :-
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Particulars	Details of actual measurement				Contents of area
	No.	L.	B.	D.	
1) Providing and fixing working bench mark pillar-					
atly vide TMB-P-01.					
atly 0.600km @ 4548.96/km $\Rightarrow$					2729.00/-
2) Reference pillar-					
atly vide TMB-P-01.					
atly 0.600km @ 2111.12/km					1267.00/-
3) Clearing and grubbing road land including uprooting Wild vegetation					
atly vide TMB-P-01					
atly 0.42Ha @ 49739.47/Ha $\Rightarrow$					20891.00/-
4) Excavation for road way in soil using material for carrying of cut-earth					
atly vide TMB-P-02.					
atly 45.00m ³ @ 81.20/m ³ $\Rightarrow$					3654.00/-
5) Construction of Embankment with material obtained from borrow pits.					
atly vide TMB-P-02					
atly 330.00m ³ @ 187.51/m ³ =					61,878.00
6) Construction of Subgrade and earthen shoulder material obtained from borrow pits					
atly vide TMB-P-02					
atly 249.58m ³ @ 189.39/m ³					47,268.00/-
Total Amount (Rs) -					

Continuation

Particulars	Details of actual measurement				Contents of area
	No.	L.	B.	D.	
7) Construction of G.S.B. by providing well graded material in uniform layers.					
alt vide TMB-P-05.					
alt 63.89 m ³ @ 3154.03/m ³					2,04,067.00
8) Providing laying spreading and compacting stone aggregate WBM-Gr II.					
alt vide TMB-P-06-					
alt 172.13 m ³ @ 3884.55/m ³					6,68,654.00/-
9) Construction of un reinforced cement concrete pavement.					
alt vide TMB-P-07					
alt 367.19 m ³ @ 8670.38/m ³					3,183,681.00
10) R.C.C. M 15 grade concrete -					
(i) Km stone -					
alt vide TMB/P-07					
alt 02 Nos @ 2693.63 each					5387.00
(iii) 200 mt stone -					
alt vide TMB/P-07					
alt 02 Nos @ 721.47 each					1443.00
11) R.C.C. M 15 grade concrete Boundary Pillar -					
alt vide TMB P-07					
alt 20.00 Nos @ 553.48 each					11070.00/-

Total Amount

Continuation

Particulars	Details of actual measurement				Contents of area
	No.	L.	B.	D.	
(12) Providing and fixing of Retro reflective cautioning, mandating and informing sign board.					
(ii) 600mm circular - alg vide TMB-P-					
alg 04 Nos @ 5697.58/each					22790.00
(iii) 900mm equilateral triangle - alg vide TMB-P-					
alg 2.00 Nos @ 6497.11/					12994.00
(iv) 600mm x 450mm rectangular alg vide TMB-P-					
alg 02 Nos @ 5542.45/each					11085.00/-
(13) providing and laying of hot applied thermoplastic compound - alg vide TMB-P-					
alg 120.00m ² @ 947.57/m ²					113708.0
(14) providing and laying R.C.C pipe duct 300mm dia alg vide TMB-P-					
alg 15.00 mt @ 999.72/mt					14996.00/-
(15) providing and erecting direction retro reflective sign alg vide TMB-P-08.					

Continuation

Particulars	Details of actual measurement				Contents of area
	No.	L.	B.	D.	
alg of No @		3639.07 each			3639.00
(16) Providing and fixing MM asy logo informing sign band.					
alg vide TMB-P-09					
alg OS Nos @		11967.76 each			59839.00
Total Amount (A) (Road work)					44,51,040/-
(B) Construction of Parapet wall -					
(1) Brick work in cm 1:3 in Parapet Wall -					
alg vide TMB-P-05 -					
alg -	3.12 m ³ @	6400	51/100		19970.00
(2) Providing P.C.C M20 in coping on top of Parapet wall -					
alg vide TMB-P-05 -					
alg 13.00 mt @		511.11/mt			6644.00
3) plastering in cm 1:4 on brick wall of parapet -					
alg vide TMB-P-09.					
alg -	21.76 m ² @	214.17/mt			4660.34
Total Amount (B)					31,274.00

Continuation

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Particulars	Details of actual measurement				Contents of area
	No.	L.	B.	D.	
<u>Abstract of cost</u>					
① Cost of Road work (P-13) Rs					44,51,040.00
② cost of culvert parapet (P-13) Rs					31,274.00
total cost (1+2)					Rs 44,82,314.00/-
less @ 10% below as per contract				(-)	Rs 4,48,231.00.
Net payable Amount (Rs)					40,34,083.00
25/06/2020 JE (Sursand) 16/7/21					