

MR-3054-2018 New Maint Policy.

Schedule XLV-Form No. 134

PM GSY Road to Babhan Tola. Satsarinda.

S.B. Engicomm Pvt. Ltd. Packet No. 03 MR-
N-
22-23

Agg No - 29/MBD/2022/23

Start Date - 21/12/2022

SUB-DIVISION

End Date - 20/09/2023

M.B.No - 767

MEASUREMENT BOOK

1st on A/c Bill

1

Name to work—

Situation of work—

Agency by which work is executed—

Date of measurement—

No. and date of agreement.

(Those 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 - pm 657 Road to Babhan tola Satsarda

Name of Agency - S.B. Engicon Pvt Ltd.

Agreement No. - 29 MBD of 20 22-23

Date of Start - 21.12.2022

Date of Completion - 20-04-2023

Date of measurement - 15-05-2023

Record measurement

① Clearing and Grubbing road land etc. all Comp.

2x	10x	30x	1.00	=	600m ²
2x	10x	30x	1.00	=	600m ²
2x	10x	30x	1.00	=	600m ²
2x	3x	30x	1.00	=	180m ²
2x	1x	10x	1.00	=	20m ²
					1400m ²
					0.14 Hect

② Construction of Subgrade and earthen shoulder etc. all Comp.

2x1x	10x	0.84 + 0.81	x 0.300	=	4.95m ³
2x3x	30x	0.81 + 0.79	x 0.300	=	43.2m ³
2x4x	30x	0.79 + 0.73	x 0.300	=	54.72m ³
2x1x	18x	0.73 + 0.735	x 0.3	=	7.91m ³
2x5x	30x	0.735 + 0.72	x 0.3	=	65.47m ³

Continuation

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Particulars	Details of actual measurement				Contents area
	No.	L	B.	D.	
2x1x	30x	0.72	0.78	0.3	13.5m ³
2x6x	30x	0.78	0.71	0.3	80.46m ³
2x1x	12x	0.71	0.72	0.3	5.15m ³
2x3x	30x	0.72	0.75	0.3	36.67m ³
					315.05m ³
		limit			315m ³

③ patch work over worn using
MSS etc. all Camp.

3x	5.25x	4.15	=	65.36m ²
5x	4.45x	3.25	=	72.31m ²
1x	9.56x	1.30	=	12.35m ²
				150.02m ²
		limit		150m ²

④ P/A back Coat with Bitumen
emulsion etc. all Camp

As Area of MSS — 150m²

for BT + existing CC portion

1x	10x	4.25	3.80	=	36.75m ²
4x	30x	3.80	3.90	=	420m ²
2x	30x	3.90	3.85	=	232.50m ²
1x	14x	3.85	4.10	=	55.65m ²
1x	25x	4.10	4.20	=	103.75m ²
3x	30x	4.20	3.90	=	364.50m ²
2x	30x	3.90	3.75	=	229.5m ²
1x	21x	3.75	4.30	=	84.52m ²
					1527.17m ²
Total					1677.17m ²

Continuation
limit — 1665m²

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Particulars	Details of actual measurement				Contents of area
	No.	L	B	D.	

⑤ p/l Semi-dense bituminous

Concrete etc. all Comp.

$$1 \times 10 \times \frac{4.25 + 3.80}{2} \times 0.025 = 0.92 \text{ m}^3$$

$$4 \times 30 \times \frac{3.80 + 3.90}{2} \times 0.025 = 10.5 \text{ m}^3$$

$$2 \times 30 \times \frac{3.90 + 3.85}{2} \times 0.025 = 5.81 \text{ m}^3$$

$$1 \times 10 \times \frac{3.85 + 4.10}{2} \times 0.025 = 1.39 \text{ m}^3$$

$$1 \times 25 \times \frac{4.10 + 4.20}{2} \times 0.025 = 2.59 \text{ m}^3$$

$$3 \times 30 \times \frac{4.20 + 3.90}{2} \times 0.025 = 9.11 \text{ m}^3$$

$$2 \times 30 \times \frac{3.90 + 3.75}{2} \times 0.025 = 5.74 \text{ m}^3$$

$$1 \times 21 \times \frac{3.75 + 4.30}{2} \times 0.025 = 2.11 \text{ m}^3$$

$$38.17 \text{ m}^3$$

Answer
27/06/23
JE

limit

$$37.88 \text{ m}^3$$

⑥ Construction of dry lean

Cement Concrete etc. all Comp.

$$1 \times 2.95 \times 1.55 \times 0.035 = 0.43 \text{ m}^3$$

$$2 \times 3.25 \times 1.95 \times 0.100 = 1.27 \text{ m}^3$$

$$1.70 \text{ m}^3$$

$$\text{limit} = 1.69 \text{ m}^3$$

⑦ Construction of cm. reinforced

pcc etc. all Comp.

$$1 \times 18 \times \frac{4.25 + 3.75}{2} \times 0.160 = 11.95 \text{ m}^3$$

$$2 \times 30 \times \frac{3.75 + 3.70}{2} \times 0.160 = 35.76 \text{ m}^3$$

$$3 \times 30 \times \frac{3.70 + 3.80}{2} \times 0.160 = 54 \text{ m}^3$$

$$1 \times 12 \times \frac{3.80 + 3.78}{2} \times 0.160 = 7.28 \text{ m}^3$$

$$1 \times 22 \times \frac{3.78 + 3.82}{2} \times 0.160 = 13.38 \text{ m}^3$$

$$2 \times 30 \times \frac{3.82 + 3.76}{2} \times 0.160 = 36.38 \text{ m}^3$$

$$1 \times 30 \times \frac{3.76 + 3.74}{2} \times 0.160 = 18 \text{ m}^3$$

Continuation

Particulars	Details of actual measurement				Contents of area
	No.	L	B	D.	
1x $8 \times 3.74 + 1.25 \times 165 =$					5.10m ³
Area 577.4123 JE				18	1.85m ³
limit —					181.80m ³
Construction of Retention wall					
⑧ E/W in excavation for					4/6 27/07/23 3/2
Structure etc. all Comp					
$15 \times 1.3 \times 1.5 =$					29.25m ³
⑨ providing mis as levelling					
Course in foundation etc. all Comp					
$15 \times 1.3 \times 0.15 =$					3.0m ³
⑩ plain / RCC in Sub structure					
etc. all Comp					
$15 \times \frac{1.15 + 0.4}{2} \times 2.85 =$					24.60m ³
⑪ providing weephole in					
brick masonry etc. all Comp.					
					15 Nos.
⑫ RCC mis grade 100m					
local stone					1 No.
⑬ RCC mis grade 200m					
stone					4 Nos.
⑭ Direction and place					
identification signs etc. all Comp					
$2 \times 1.20 \times 0.80 =$					1.92m ²
⑮ p/f of retro-reflectorised					
600mm equilateral triangle					
					4 Nos.
⑯ p/f of retro-reflectorised					

Continuation

Scl: XLV—Form No. 134

Particulars	Details of actual measurement				Contents of area
	No.	L.	B.	D.	
600mm Circular					5 Nos.
(17) P/F of retro reflectorised					
600mm x 500mm Rectangular					3 Nos.
(18) RCC mis grade boundary					
pillar etc. all Comp.					8 Nos.
(19) P/L of hot applied					
thermo plastic Compound etc. all comp.					
2x 5x 30x 0.1				=	30m ²
2x 5x 30x 0.1				=	30m ²
2x 3x 30x 0.1				=	18m ²
2x 1x 10x 0.1				=	2m ²
					80m ²

(20) P/L of hot applied thermo-					
plastic Compound on Concrete					
Surface etc. all Comp.					
2x 5x 30x 0.1				=	30m ²
2x 5x 30x 0.1				=	30m ²
					60m ²

(21) P/F of logo of maintaining					
etc. all Comp.					1 No.

Akew
11/08/23
JE

H/B
11/08/23
JB

(22) Planting of tree and their					
maintaining etc. all Comp.					

Qty. etc. Comp.

30% of Qty Continuation 20 6 Nos.

Akew
11/08/23
JE

H/B
11/08/23
JB

Abstract of Cost

1st on A/C Bill

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Particulars	Details of actual measurement				Contents of area
	No.	L	B	D.	
① Clearing and grubbing road land etc. all Comp					
Qty vide TMBP. — ①/①					
= 0.14 hect @ Rs 59725.13/hect — Rs 8361.50					
② Construction of subgrade and earthen shoulder etc. all Comp					
Qty vide TMBP. — ②/②					
= 315 m ² @ Rs 253.56/m ² — Rs 79871.00					
③ Patch work over 108 m using mss etc. all Comp					
Qty vide TMBP. — ②/③					
= 150 m ² @ Rs 255.65/m ² — Rs 38347.50					
9/4 p/a tack Coat with					

Bitumen emulsion etc. all Comp

Qty vide TMBP. — ②/⑤

= 1665 m² @ Rs 20.13/m² — Rs 33516.00

5/5 p/a semi-dense bituminous

Concrete etc. all Comp

Qty vide TMBP. — ③/⑤

= 37.88 m³ @ Rs 13032.78/m³ — Rs 493682.00

6/6 Construction of dry lean

Cement Concrete etc. all Comp

Qty vide TMBP. — ③/⑥

= 1.69 m³ @ Rs 5877.57/m³ — Rs 9923.20

7/7 Construction of unreinforced

PCC etc. all Comp

Continuation

• Q. Rs 663111.50

663711.00

Bf B. 663711-10

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Particulars	Details of actual measurement				Contents of area
	No.	L.	B.	D.	
Qty vide TMBP. ———— ④/⑮					
= 181.80 m ³ @ Rs. 7286.71/m ³ — Rs. 1324724.30					
⑧/⑮ RCC mis grade km					
Stone					
Qty vide TMBP. ———— ④/⑮					
= 1 No. @ Rs. 2535.16/No. — Rs. 2535.200					
⑨/⑮ RCC mis grade 20cm					
Stone					
Qty vide TMBP. ———— ④/⑮					
= 4 Nos. @ Rs. 732.33/No. — Rs. 2950.200					
⑩/⑮ Direction and place					
identification sign etc. all Comp					
Qty vide TMBP. ———— 4/14					

= 1.92 m ³ @ Rs. 14730.81/m ³ — Rs. 28283.200					
⑪/⑮ P/F of retro-reflectorised					
600 mm equilateral & triangle					
Qty vide TMBP. ———— ④/⑮					
= 4 Nos. @ Rs. 4275.41/No. — Rs. 17102.200					
⑫/⑮ P/F of retro-reflectorised					
600 mm circular					
Qty vide TMBP. ———— ④/⑮ ⑤/⑮					
= 5 Nos. @ Rs. 4177.93/No. — Rs. 20883.200					
⑬/⑮ P/F of retro-reflectorised					
600 mm x 450 mm rectangular					
Qty vide TMBP. ———— ⑤/⑮					
= 3 Nos. @ Rs. 4033.75/No. — Rs. 12101.200					
⑭/⑮ RCC mis grade boundary					

Continuation

Cl. Rs. 2071693.50

Rs. 2072293.50

Fr. 2072293-D

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Particulars	Details of actual measurement				Contents area
	No.	L	B	D	
Pillar etc. all Comp.					
Qty vide TMBP. — (5)/(15)					
= 8 Nos. @ Fr. 716.75/No. — Fr. 5734.00					
(15)/(17) P/L of hot applied					
thermoplastic Compound etc. all Comp.					
Qty vide TMBP. — (5)/(19)					
= 80m ² @ Fr. 823.79/m ² — Fr. 65899.20					
(16)/(18) P/L of hot applied thermoplastic Compound etc. all Comp.					
Qty vide TMBP. — (5)/(20)					
= 60m ² @ Fr. 925.96/m ² — Fr. 55528.20					
(13)/(19) P/L of typical infirmatory					
Sign board etc. all Comp.					
Qty vide TMBP. — (5)/(21)					
= 1 No. @ Fr. 10623.28/No. — Fr. 10623.28					
(18)/(20) E/W in excavation					
etc. all Comp.					
Qty vide TMBP. — (4)/(8)					
= 29.25m ³ @ Fr. 314.41/m ³ — Fr. 9196.00					
(19)/(21) Providing acc mis as					
levelling Course etc. all Comp.					
Qty vide TMBP. — (4)/(9)					
= 3m ³ @ Fr. 5877.57/m ³ — Fr. 17633.00					
(20)/(22) Plaster/ROC in Substructure					
Qty vide TMBP. — (4)/(10)					
= 24.60m ³ @ Fr. 6779.34/m ³ — Fr. 166699.00					

Continuation

C/O Fr. 2402955.50

Fr. 2403555.00

B. 2403555 = 0

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Particulars	Details of actual measurement				Contents of area
	No.	L	B	D.	
(21)/(23) providing weepholes in brick masonry ch. all Comp. Qty vide TMSP. — ④/⑪					
= 15 NOS. @ Rs. 130.43/No.					Rs. 1957.00
					Rs. 2404912.50
Add 12% GST —					Rs. 288589.50
Add 1% Labour Ch. —					Rs. 24000.00
Seigniorage fee —					Rs. 26061.00
					Rs. 2743612.00
less for 15.55% below as per agreement —					(-) Rs. 426632.00
Net payable —					Rs. 2316980.00

Done
22/08/23
JE

46
22/08/23
AB

(22)/(23) planting of trees and their maintenance ch. an Comp. Qty vide TMSP. — ⑤/22					
= 6 NOS. @ Rs. 1092.53/No.					Rs. 6555.00
					Rs. 2412067.50
Add 1% Labour Ch. —					Rs. 24115.00
Add 12% GST —					Rs. 289376.00
Seigniorage fee —					Rs. 26132.00
					Rs. 2751090.00
less for 15.55% below as per agreement —					(-) Rs. 427768.00
					Rs. 2323322.00

Done
22/08/23
JE

Continuation
46
22/08/23
AB

CAF
ASD
13/9/23

BF Rs. 2323868 = D
 limited as per available
 fund Rs. 2316980 = D

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Particulars	Details of actual measurement				Contents of area
	No.	L.	B.	D.	

Memo of Payment

SD 5% — Rs. 115849 = D

IT 2% — Rs. 41580

L/Cess 7% — Rs. 237579 = B

ChST 7% — Rs. 20794 = D

SGST 1% — Rs. 20794 = D

Royalty — Rs. 23717 = D

S.F. — Rs. 26132 = D

Net Pay — Rs. 2044935 = D

Total Rs. 2316980 = D

passed for rupees twenty
 three lacs sixteen thousand
 nine hundred and eighty
 only

[Signature]
 20/09/23

[Signature] 20/9/23

Executive Engineer
 RWD Works Division, Lakhisarai

[Signature]
 20/09/23

Continuation