

MMGSX³ - To 3 to Bumer Barwadik (sc)
Schedule XLV-Form No. 134

Ag No - 29 SBD :- 2020-2021

Sheeghati DIVISION

Mohambur SUB-DIVISION

Shanantay Raj

Measurement Book

1218

Certified this M.B is contain of 100
pages Print by Machine This M.B
issued to A.E R.W.D (W) Sub-Div
Moham pur

[Signature]
11/09/20
Executive Engineer
R.W.D (W) Division
[Signature] Sherghati
11/09/20

Sch. XLV-Form No. 134

Sherghati DIVISION

Moham pur SUB-DIVISION

Measurement Book

No. 1218

Name of Officer _____

Date of first entry _____

Date of last entry _____

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.	
<u>Ist on Alc Bill</u>					
Name of Work: Construction of road from Toz to Buma's Baranath					
Name of Agency - Phanganay Raj, at village P.O. & P.S. - Pothi Gaya.					
Agreement No - 29 SBD. 2020-2021					
Date of work start - 19-6-2020					
Date of completion - 10-7-2021					
Date of measurement - 4/13/20					
1. Construction of embankment with material obtained from borrow pits.					
4 x 25m x 6m x 0.40 =					240m ³
4 x 25m x 5m x 0.30 =					150m ³
4 x 25m x 6m x 0.50 =					300m ³
2 x 25m x 4m x 0.50 =					100m ³
2 x 25m x 2m x 0.50 =					50m ³
					840m ³
2. Construction of subgrade and earthen shoulder as per drawing and technical spec.					

Continuation

Particulars	Details of actual measurement				Contents of area
	No.	L.	B.	D.	
6 x 2.5m x 7.50m x 0.40 = 4.50m ³					
6 x 2.5m x 7.50m x 0.40 = 4.50m ³					
6 x 2.5m x 7.20m x 0.40 = 4.32m ³					
					13.32m ³
3. Construction of granular Sub-base by providing well graded material as per drawing and technical <u>spec</u>					
8 x 2.5m x 4.50m x 0.25 = 2.07m ³					
8 x 2.5m x 4.55m x 0.25 = 2.02.50m ³					
4 x 2.5m x 4.55m x 0.20 = 1.03.50m ³					
					4.90.50m ³

C-D Work

1. Earth work excavation for foundation of structure as per drawing and technical spec for 100mm - 1000mm diameter.

F/W:- 2 x 2 x 6.30 x 1.4 x 1.50 = 5.6.72	
Pile Pile:- 2 x 5.9 x 1.5 x 0.30 = 5.31m ³	
E:-	58.23m ³

2. Providing plain concrete in foundation as per drawing and technical spec.

Face wall:- 2 x 2 x 6.30 x 1.4 x 0.15 = 5.29m ³	
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3. Providing plain concrete in span foundation as per spec.

F/W:- 2 x 2 x 6 x 1.025 x 1.35 = 33.21m ³	
Beam:- 2 x 5.9 x 1.5 x 0.25 = 4.42m ³	
	37.63m ³

Particulars	Details of actual measurement				Contents of area
	No.	L	B	D	
4. Pouring Plain Concrete in substructure ^{substructure} Complete as per drawing and technical spc					
FWL - $2 \times 2 \times 6 \times 0.533 \times 1.85 = 23.03 \text{ m}^3$					
$2 \times 2 \times 6 \times 0.40 \times 0.60 = 5.76 \text{ m}^3$					
					28.79 m ³
Deduct for pipe portion -					
$2 \times 2 \times 3.14/4 \times (0.2)^2 \times 0.60 = 2.26 \text{ m}^3$					
Net -					26.53 m ³
5. Pouring and laying 1st Main concrete layer of the main Pipe as per drawing and technical spc					
Spc - 100mm dia. Hump pipe -					
$2 \times 3 \times 2.5 \text{ m}$					15 m
					7.50 m ³
6. Filling in found th trenches as per drawing and technical spc					
FWL - $2 \times 2 \times 6 \times 0.40 \times 0.60 = 9.72 \text{ m}^3$					
Asroad pipe - $2 \times 6.30 \times 1.5 \times 0.9 = 17.02 \text{ m}^3$					
Deduct Pipe Portion -					
$2 \times 6.30 \times 0.91 = 11.47 \text{ m}^3$					
					15.27 m ³
7. Dimension of reference pillar and Bench mark					
$20 \times 25 = 500 \text{ m}$					
$1 \times 2 \text{ m}$					
					0.50 m ³

Continuation

Particulars	Details of actual measurement				Contents of area
	No.	L.	B.	D.	
(E) Construction of concrete Pillar and Boulder					
20 x 25m = 500m					
1A 3m = 3m					
					503mm - 0.503km
F. clearing and putting Road Land at mspz					
20 x 25m x 7m = 3500m ²					
3m x 7m = 21m ²					
					3521m ²
					0.3521 He

Material statement

(21) E/W -	217.2 m ³	1.34 =
(22) Chops -	504.03 m ³	
(23) Sand -	235.85 m ³	
Sum	Sum	20
4/12/20	04.11	AE
S.E.		

Continuation

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Particulars	Details of actual measurement				Contents of area
	No.	L.	B.	D.	
<u>Abstract of cost</u>					
1 (i) Construction of B.M. and reference pins.					
Per entry vide Rate (3)					
0.503 km @ Rs. 4962.94/m					Rs. 2496
(2) Construction of reference pillars and buoys survey					
vide Rate (4) - 0.503 km					
@ Rs. 3427.22/m					Rs. 17242
2. Clearing and grubbing road land quantity					
vide Rate (5) - 0.9521 Ha					
@ Rs. 51161.75/Ha					Rs. 48902
(3) Construction of embankment with					
Lead - 100 m quantity					
vide Rate (1) - 840 m					
@ Rs. 139.79/m					Rs. 117424
(4) Construction of					
subgrade and					
carman shoulder					
Per entry vide Rate (2)					
1332 m ³ @ Rs. 183.51/m ³					Rs. 244435
(5) Construction of granular					
sub-base by providing					
well graded material					
					C.O.D. 384093

Continuation

Continuation

Continuation

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Particulars	Details of actual measurement				Contents of area
	No.	L.	B.	D.	
B/R No. 17 of 2018					
(10) Paving and Laying 1st mark crowned bitume pte quantity Rate - (3) 15 m @ Rs. 45430 71/100 = 60636.50					
(11) Paving in found trench quantity rate (3) 15.27 m @ Rs. 4780 11/100 = 1301.20					
3.0 less below					1714385.00
Agreement					51432.00
					59069.50
Limited as per Bill					Rs. 1662953.00
4/12/20 J.E.					Rs. 11,64,067.00
01.12.20					
					
Allotment Received from BPRDA Patna.					
Lt. No. 13 WE dt. 04.02.21					
Amt Rs 11,64,067.00					
Continuation					

Particulars	Details of actual measurement				Contents of area
	No.	L.	B.	D.	
Memo for Payment of Rs 11,64,067 = ₹					
SD-8% - Rs 93,125 = ₹					
I. Tax - 1% - Rs 11641 = ₹					
L. cess - 1% - Rs 11641 = ₹					
CGST - 1% - Rs 11641 = ₹					
SGST - 1% - Rs 11641 = ₹					Rs 340469 = ₹
Roy (Elw) - Rs 71676 = ₹					
Roy (MD) - Rs 93,294 = ₹					
S.F (10%) - Rs 35,810 = ₹					
By cheque Rs 8,23,598 = ₹					
Gross - Rs 11,64,067 = ₹					

Passed for Rs 1164067 = ₹

Eleven lakh Sixty four thousand
Sixty Seven only.

Patil 1/14/21
Patil 2/12/21

Executive Engineer
RWD, Works Division
Sherghati

Payment made by ref. No.
2021041903/901.

Continuation

2nd and Final Bill

Name of Work: Construction
of road from T03 to Bumar
Barawadih

Name of Agency - Dhananjay
Raj. at village + P.O + P.S.

District Gaya.

Agreement no - 29 SBD - 2020-2021

Date of Work start: - 19-6-2020

Date of Completion - 18-6-2021

Date of measurement: -

1. Construction of embankment
With all types of soil and
different leads on + left

Continuation

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Sch. XLV Form No. 10					
Particulars	Details of actual measurement				Contents of area
	No.	L.	B.	D.	
as per specification					
Chainage	Area	Mean Area	Length	Volume	
in m	in m^2	in m^2	in m	in m^3	
0M	7.2				
100M	8.2	7.70	100	770 m^3	
200M	7.9	8.05	100	805 m^3	
300M	7.10	7.5	100	750 m^3	
400M	7.2	7.15	100	715 m^3	
500M	6.90	7.05	100	705 m^3	
503M	5.2	6.05	3	18.15 m^3	
Total,				3763.15	

Less for crust -		42 m ³
G.S.B. - 503	$4.5 \times 0.20 \times 5407.43 \text{ m}^3$	
WBM Grade II - 503	$3.75 \times 0.15 \times 141.47 \text{ m}^3$	
Less Previous E/W: - vide page (5) -		
840 + 1332 m ³	- 2172 m ³	
Net E/W! -		1042.25 m ³

2. Construction of embankment					
With approved material with					
Lead - 1000M as per spec					
43.50 l. E/W of item					
No - (1) Page - (19),					
or, $43.50 \text{ l.} \times 1042.25 =$				453.49 m^3	
Less -				453.35 m^3	

3. Construction of embankment					
with lead - 100M					
20.89 l. E/W of item No 4					
Page - (10) Continuation				or, $20.89 \text{ l.} \times 1042.25 =$	
				217.78 m^3	

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Particulars	Details of actual measurement				Contents of area
	No.	L.	B.	D.	
4. Construction of Sub grade and earth shoulder - 35.61% E/W of item No. (1) Rate - (10)					
$m, 35.61\% \times 1042.25 =$					371.23m
5. Construction of granular Sub-base with even grade material					
$1 \times 3m \times 4.05 \times 0.20 =$					2.43m ³
6. Paving layer laying streddy and compacting streddy metal grade - III cm road as per spc.					
$8 \times 25m \times 3.75 \times 0.075 =$					56.25m ³
$8 \times 25m \times 3.75 \times 0.075 =$					56.25m ³
$1 \times 15m \times 3.60 \times 0.075 =$					4.05m ³
$2 \times 17.5m \times 3.75 \times 0.075 =$					9.84m ³
$2 \times 25m \times 3.75 \times 0.075 =$					14.06m ³
$1 \times 3m \times 3.75 \times 0.075 =$					0.84m ³
					141.29m ³
7. Paving and laying Primer coat as per spc.					
$8 \times 25m \times 3.75m =$					750m ²
$8 \times 25m \times 3.75m =$					750m ²
$1 \times 15m \times 3.60m =$					54m ²
$2 \times 17.5 \times 3.75m =$					131.25m ²
$2 \times 25m \times 3.75m =$					187.50m ²
Continuation					1872.75m ²

Particulars	Details of actual measurement				Contents of area
	No.	L.	B.	D.	
8. Providing applying tack Coat on masonry work at item no-(1) Page-(11)-					1872.75
9. Providing laying and rolling of class graded Premix Subgrade as per specification.					
8 x 25m x 3.75m =					750m ²
8 x 25m x 3.75m =					750m ²
1 x 15m x 3.60m =					54m ²
2 x 17.5 x 3.75m =					131.25m ²
2 x 25m x 3.75m =					187.50m ²
					1872.75m ²
10. Reinforced concrete grade M15 grade 1:1:4 concrete slab.					
(22) ordinary brickwork - 1x2 - 2 nos					
(22) 2nd course - 1x2 - 2 nos.					
11. Providing and laying masonry SSB and Log masonry provided					
			1x3		3 No.
12. Retro-reflectors					
to traffic sign -					
(2) 600mm circular - 1x4 - 4 nos.					
(22) 600mm equilateral triangle - 1x4 -					4 nos
(22) T intersection -					0 No.

Continuation

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

5. Construction of Sub

grade and curbs

should be as follows

Width of (1) - 371.53 m

Width of (5) - 123.3 m

1703.23 m

@ Rs. 183.51/m² Rs. 312,560=

6. Construction of

granular sub base

Width of (1) - 2.43 m

Width of (5) - 440.50 m

442.93 m

@ Rs. 195.10/m² Rs. 365,677=

7. For laying

spreading and compacting

stone metal grade III

Quantity of Width of (1) - 11

1872.75 m @ Rs. 28.50/m² Rs. 404,055=

8. Providing and applying

Primer coat with Bitu

men emulsion Quantity

Width of (1) - 1872.75 m

@ Rs. 44.83/m² Rs. 83,955=

9. Providing and applying

face coat with Bitu

men emulsion Quantity

- (12), 1872.75 m @ Rs. 15.24/m² Rs. 28,541=

Continuation C-0RS 2040347=

Particulars	Details of actual measurement				Contents of area
	No.	L.	B.	D.	
				P.P.RS	2040347:
10. Provisioning and supply of electrical premises including quantity					
vide Ref- (12). 1272.750					
@ Rs. 170.22/m ²					Rs. 356235:
11. Reinforced concrete concrete m/s grade					
1 kilometre stretch etc					
(22) width 10m stretch					
vide Ref- (12) - 2 No.					
@ Rs. 2373.35 per m ²					4747:
(22) 20m stretch					
Ref- (12) - 2 No.					
@ Rs. 628.75 each					Rs. 1258:
12. Provisioning and fixing of G.I. pipe Band					
on Maintenance Band					
Cement sand etc.					
vide Ref- (12) - 3 No.					
@ Rs. 9532.84 each					Rs. 28569:
13. Retro-reflectised traffic signs					
(2) 600 mm circular white					
Ref- (12) - 4 No.					
@ Rs. 4335.63 each					Rs. 19343:
(2) 600 mm square white					
vide Ref- (12) - 4 No.					
@ Rs. 3609.96 each					Rs. 14440:

Continuation

C.O.RS. 246493

Particulars	Details of actual measurement				Contents of area
	No.	L.	B.	D.	
(V) 600mm x 450mm rectangular wide base					2164939
(13) 4 @ RS. 4702.22/m ²					18809:
111 900mm x 450mm wide base (13) 1000 8392.96/m ²					8393:
H. Providing and Laying Hot applied thermo plastic wide base					
- (13) 101m ² @ RS. 736/m ² RS. 74336					
13. E/W on canopy Structure Quantity					
Wide Page (6) 58.23m ² @ RS. 294.72/m ² RS. 171162:					
16. Providing Plain Con crete in open founda					
Wide Page (6) 5.29m ³ @ RS. 4497.04/m ³ RS. 23789:					
17. Providing Plain Con crete in open founda					
Wide Page (6) 37.63m ³ @ RS. 4733.68/m ³ RS. 178128:					
18. Providing Plain Concre te in Sub structure wide					
Page (6) 25.53m ³ @ RS. 5160.46/m ³ 136907					

Continuation C.O.RS. 2922463:

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