

HEAD :- RAJESH (GENL)

Name of Work →

Disol. →

Const. of 4x4 m. →

Schedule X LV-Form No. 134

Ag No. → 055830/MHGSY Genl.

EXECUT, VE ENGINEER
PAHGHAT DIVISION

DUKHIN BAZAR SUB-DIVISION

Name of A.E. → KAUSHLENDER KUMAR
PANDey 19. BNO- 645

Measurement Book

SIYA ENTERPRISES

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.	
1st on A/c Bill					

Name of work - Construction and five
year Maintenance of road from
Dihuli Mahampura to Cops
Mahadati Tola

Contractor - Siga Enterprises & Construction

Agreement No - 05 SBD/Hmby Gen/ 2021-22

Date of start - 07/07/2021

Date of Completion - 06/01/2022

Agreement Construction Cost - 48,79,129/-

Agreement Hand. Cost - 5,04,906/-

Rate - 1.57% below to BOQ Cost

Date of entry - 20-01-2022

Work done

① clearing and grubbing road

Land including uprooting wild

Vegetation, grass bushes shrubs

$$10\text{ Nos} \times 30\text{m} \times 5.50\text{m} = 1650.00\text{m}^2$$

$$5\text{ Nos} \times 30\text{m} \times 5.50\text{m} = 825.00$$

$$1\text{ Nos} \times 21\text{m} \times 5.50\text{m} = 115.50$$

$$2\text{ Nos} \times 30\text{m} \times 5.50\text{m} = 330.00$$

$$1\text{ Nos} \times 15\text{m} \times 5.50\text{m} = 82.50$$

$$1\text{ Nos} \times 30\text{m} \times 4.00\text{m} = 120.00$$

$$3\text{ Nos} \times 30\text{m} \times 5.50\text{m} = 495.00$$

$$1\text{ Nos} \times 15\text{m} \times 5.50\text{m} = 82.50$$

$$\text{Total} = 3700.50\text{m}^2$$

$$\text{or } 0.37005\text{Hect}$$

Sch. XLV Form No. 134

Particulars	Details of actual measurement				Contents of area
	No.	L	B	D	
2 Excavation for roadway in soil with hydraulic excavator at 0.90m bucket capacity					40.50
do do do					20.35
2 x 9m x 30.0m x 0.375 x 0.285					55.657m ³
2 x 7m x 30.0m x 0.375 x 0.10					15.35
2 x 1m x 20.0m x 0.375 x 0.10					1.50
2 x 6m x 30.0m x 0.375 x 0.10					72.957m ³
2 x 1m x 21.0m x 0.375 x 0.10					1.535
Construction of embankment with approved material deposited obtained from borrow pit with a lift up to 1.5m and lead up to 100m & 1000m do do					52.595m ³ 72.825
2 x 4m x 30.0m x 0.40 x 1.35					90.256m ³
2 x 5m x 30.0m x 0.40 x 1.35					123.84
2 x 4m x 30.0m x 0.40 x 1.35					122.40
2 x 2m x 30.0m x 0.40 x 1.35					56.70
2 x 2m x 30.0m x 0.40 x 1.35					86.10
2 x 1m x 21.0m x 0.40 x 1.35					2.87
2 x 2m x 30.0m x 0.40 x 1.35					47.88
2 x 1m x 15.0m x 0.40 x 1.35					11.97
1 x 3m x 30.0m x 0.40 x 1.35					21.60
1 x 1m x 15.0m x 0.40 x 1.35					3.60
					Qty = 567.218m ³
(A) Lead up to 1000m do					
Qty vide above item x 30%					
= 567.218 x $\frac{30}{100}$					= 170.165m ³
(5) Lead up to 100m do					
Qty vide item no. (5) x 70%					
= 567.218 x $\frac{70}{100}$					= 397.053m ³

Continuation

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Particulars	Details of actual measurement				Contents of area
	No.	L	B.	D.	
⑥ Construction of Granular Sub					
base by providing well graded					
Material Grading - I d. —					
BT CH-0 to 471M					
2 x 4N x 30.0m		0.375		0.100	9.00m ³
2 x 10N x 30.0m		0.375		0.100	22.50m ³
2 x 12N x 30.0m		0.375		0.100	2.25
2 x 14N x 21.0m		0.375		0.100	1.575
CH-471 to 681.60					
2 x 10N x 10.0m		$\frac{(0.60 + 0.76 + 0.45)}{3}$		0.100	1.207
2 x 4N x 15.0m		$\frac{(0.375 + 0.375)}{2}$		0.100	4.50
2 x 10N x 15.0m		$\frac{(0.375 + 0.20 + 0.45)}{3}$		0.100	1.025
2 x 14N x 13.80m		$\frac{(0.45 + 0.425 + 0.50 + 0.60)}{4}$		0.100	1.197
2 x 14N x 15.0m		$\frac{(0.625 + 0.40 + 0.375)}{3}$		0.100	0.832
2 x 14N x 15.0m		$\frac{(0.375 + 0.475)}{2}$		0.100	1.275
2 x 14N x 15.0m		$\frac{(0.425 + 0.375)}{2}$		0.100	1.275
2 x 14N x 15.0m		$\frac{(0.375 + 0.40)}{2}$		0.100	1.462
2 x 14N x 15.0m		$\frac{(0.60 + 0.625 + 0.375)}{3}$		0.100	1.65
2 x 14N x 15.0m		$\frac{(0.375 + 1.70)}{2}$		0.100	1.612
2 x 14N x 10.0m		$\frac{(0.70 + 1.175)}{2}$		0.100	1.875
2 x 14N x 11.80m		$\frac{(1.175 + 1.25 + 1.0)}{3}$		0.100	2.694
leveling					
7N x 7.50m		2.10m		0.100	4.725
12N x 7.0m		3.0m		0.100	2.520
BT CH-0 to 270M					
2 x 9N x 30.0m		0.375		0.100	20.25
BT 6N x 30.0m		3.75		0.100	67.50
14N x 21.0m		3.75		0.100	7.875
					Qty = 181.484m ³
					Unit = 175.11m ³
⑦ Providing, laying, spreading					
and compacting with Gr II					
Continuation					
do do					

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Particulars	Details of actual measurement				Contents of area
	No.	L.	B.	D.	
② BT Perimeter	0 to 471 M				
4 m x 30.0 m x 3.75 x 0.075 =					33.75
5 m x 30.0 m x 3.75 x 0.075 =					42.187
3 m x 30.0 m x 3.75 x 0.075 =					25.312
1 m x 30.0 m x 3.75 x 0.075 =					8.437
2 m x 30.0 m x 3.75 x 0.075 =					16.875
1 m x 21.0 m x 3.75 x 0.075 =					5.906
CH - 471 M to 681.6 M					
1 m x 10.0 m x $\frac{(4.20 + 4.52 + 3.90)}{3} \times 0.075 =$					3.155
1 m x 15.0 m x $\frac{(3.50 + 3.72)}{2} \times 0.075 =$					4.286
1 m x 15.0 m x $\frac{(3.72 + 3.75)}{2} \times 0.075 =$					4.202
1 m x 15.0 m x $\frac{(3.75 + 3.75)}{2} \times 0.075 =$					4.218
1 m x 15.0 m x $\frac{(3.75 + 3.70)}{2} \times 0.075 =$					4.190
1 m x 15.0 m x $\frac{(3.70 + 3.40 + 3.90)}{3} \times 0.075 =$					4.125
1 m x 13.80 m x $\frac{(3.70 + 3.85 + 4.60 + 3.12)}{4} \times 0.075 =$					4.003
1 m x 15.0 m x $\frac{(3.25 + 3.80 + 3.75)}{3} \times 0.075 =$					4.05
1 m x 12.0 m x $\frac{(3.75 + 3.75)}{2} \times 0.075 =$					4.331
1 m x 15.0 m x $\frac{(3.95 + 3.70)}{2} \times 0.075 =$					4.303
1 m x 15.0 m x $\frac{(3.70 + 4.20)}{2} \times 0.075 =$					4.443
1 m x 15.0 m x $\frac{(4.20 + 4.35 + 3.75)}{3} \times 0.075 =$					4.612
1 m x 15.0 m x $\frac{(3.75 + 4.40)}{2} \times 0.075 =$					4.584
1 m x 10.0 m x $\frac{(4.40 + 5.35)}{2} \times 0.075 =$					3.656
2 x 1 m x 11.80 m x $\frac{(1.175 + 1.25 + 1.0)}{3} \times 0.075 =$					2.020
					Qty = 192.645 m ³
⑧ Construction of unreinforced					
Plain Cement Concrete (PCC)					
Pavement					
CH - 471 to 681.6 M					
1 m x 10.0 m x $\frac{(4.20 + 4.52 + 3.90)}{3} \times 0.160 =$					6.731 m ³
1 m x 15.0 m x $\frac{(3.50 + 3.72)}{2} \times 0.160 =$					9.144
1 m x 15.0 m x $\frac{(3.72 + 3.75)}{2} \times 0.160 =$					8.964
1 m x 15.0 m x $\frac{(3.75 + 3.75)}{2} \times 0.160 =$					9.0
Continuation					
1 m x 15.0 m x $\frac{(3.70 + 3.40 + 3.90)}{3} \times 0.160 =$					8.80
					Qty = 42.639 m ³

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Qty = 42.637 m³

Particulars	Details of actual measurement				Contents of area
	No.	L.	B.	D.	
1 No x 15.0m x	(3.75+3.75)	2		0.160	8.94 m ³
1 No x 13.80m x	(3.9+3.85+4.65+3.75)	4		0.160	8.537
1 No x 15.0m x	(3.25+3.85+3.75)	3		0.160	9.04
1 No x 15.0m x	(2.75+3.75)	2		0.160	9.24
1 No x 15.0m x	(3.75+3.75)	2		0.160	9.18
1 No x 15.0m x	(3.70+4.20)	2		0.160	9.48
1 No x 15.0m x	(4.20+4.35+3.75)	3		0.160	9.84
1 No x 15.0m x	(3.75+4.40)	2		0.160	9.78
1 No x 10.0m x	(4.40+5.35)	2		0.160	7.80
1 No x 11.80m x	(5.35+5.57+5.01)	3		0.160	9.975
					Qty = 134.457 m ³

(9) Providing and fixing of typical

MMBQ Interlocking Sign Board

Logo board - 1 No

Information Citizen board - 1 No

= 2 Nos

(10) Excavation of foundation

of structure as per drawing d-

Floor - 2 Nos x 6.30m x 1.40m x 1.50m = 26.46 m³

Pipe - 1 No x 5.90m x 1.50m x 0.30 = 2.66

Qty = 29.12 m³

(11) Providing concrete for plain/Reinforced

concrete in foundation

Floor - 2 Nos x 6.30m x 1.40m x 0.15 = 2.65 m³

(12) Providing concrete for plain

Reinforced concrete in open foundation substructure

Continuation

Particulars	Details of actual measurement				Contents of area
	No.	L.	B.	D.	
Wall 24cm x 6.0m x $\frac{(1.40 + 0.65)}{2} \times 1.35 =$					16.61 m ³
below pipe 14cm x 5.90m x 1.35 x 0.250 =					2.270
					Qty = 18.88 m ³

(3) Providing & laying ISI marks					
cement concrete kerb & pipe 1000					
mm dia					
3 Nos x 2.50 M					
= 7.50 M					

(4) P/V Plain/Reinforced Concrete in					
open foundation complete as per					
drawing					

Wall - 24cm x 6.0m x $\frac{(0.65 + 0.41)}{2} \times 1.84 =$					11.52 m ³
below pipe 24cm x $\frac{2.14}{4} \times (1.20)^2 \times 0.60 =$					1.31
					Qty = 10.16 m ³

20/11/22
AE

Material Statement					
(1) Earth - 567.24 m ³					
Qty 34.81/m ³ → 19745					
(2) Agg. 53mm to 9.5mm - 112.07 m ³					
Qty 630.62/m ³ → 69553					
(3) Agg. 9.5mm to 2.36mm - 44.94 m ³					
Qty 514.58/m ³ → 23128					
(4) Coarse Sand - 67.125 m ³					
Qty 236.77/m ³ → 15889					
(5) Agg. 53mm to 22.4mm - 233.1 m ³					
Qty 511.54/m ³ → 119240					
(6) Screening Material - 46.235 m ³					

Continuation

(7) 397.73/m³ → 18389

LED 2,65,944

Continuation

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Particulars	Details of actual measurement				Contents of area
	No.	L.	B.	D.	
23 + 021 A/C 18511					
ABSTRACT OF COST					
(1/2) Clearing and grubbing 2nd land					
Qty vide T.M.B P- (1) 0.370 Hec					
@ 52998.20/Hec					19609.54
(2/3) Excavation in soil					
Qty vide T.M.B P- (2) 72.825 m ³					
@ 75.57/m ³					5503.54
(3/4) Const ⁿ of embankment 10m load					
Qty vide T.M.B P- (1) 170.1670 m ³					
@ 192.01/m ³					32673.54
(4/5) Const ⁿ of embankment 10m load					
Qty vide T.M.B P- (2) 397.053 m ³					
@ 154.58/m ³					61376.54
(5/7) Construction of 2nd D. Canal					
Qty vide T.M.B P- (3) 175.11 m ³					
@ 2856.16/m ³					500142.54
(6/8) P.V. with Gr-111					
Qty vide T.M.B P- (5) 192.645 m ³					
@ 3675.65/m ³					708866.54
(7/12) Const ⁿ of PCC Pavement					
Qty vide T.M.B P- (5) 134.453 m ³					
@ 6336.62/m ³					851978.54
(8/15) P.V. & lining H.M.S.Y. 8/12					
Qty vide T.M.B P- (5) 2 Hec					
@ 9420.50/each					18842.54
(9/22) L/W in excavation					
Qty vide T.M.B P- (5) 28.12 m ³					
@ 305.42/m ³					8594.54
Continuation					
					2207883.54

