

प्रमाणित किया जाता है। की इस मापी
पुस्तिका में मशीन प्रिन्ट (100) एक फुल है। यह
मापी पुस्तिका सहायक अभियन्ता आभीज कर्ष
विभाग कार्यालय प्रमण्डल भगवानपुर ६१८
के नाम से निजीत किया जाता है।


Executive Engineer
R.W.D Works Division
भारत महाराजराज
२३/१२/२०

Sch. XLV—Form No. 134

महाराजराज DIVISION

भगवानपुर दार SUB-DIVISION

Measurement Book

No. 517

Name of Officer _____

Date of first entry _____

Date of last entry _____

1st on A/c bill

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 Sahasaram					
Middle School ke pas to Senvarsha					
Badkagaon sinan tak.					
Agency - Raj kumar Singh					
At+Po - Kawalpura, Mashrakh					
Agreement no - 17 A/MM GSY/SBD/2020-21					
dated - 26.06.2020					
Date of Measurement -					

Work done

① Providing & fixing of working benchmark pillars 01 nos. per km & 4 nos. of reference pillars.

Working benchmark pillar — 2.95 Km

② Reference pillars — 2.95 Km

③ clearing and grubbing road land

(by manual means) including uprooting

wild vegetation, grass, bushes, shrubs, sapling and trees of girth etc.

$2 \times 30 \times 30 \times 2 = 3600$

$2 \times 30 \times 30 \times 2 = 3600$

$2 \times 28 \times 30 \times 2 = 3360$

$= 10560 m^2$

Continuation

1.056 hect.

Particulars	Details of actual measurement				Contents of area
	No.	L.	B.	D.	
(4) Excavation for roadway in soil using manual means for carrying of cut earth etc.					
2x 15x 30x				0.525x0.100	= 47.25
2x 20x 30x				0.525x0.100	= 63.00
2x 24x 30x				0.525x0.100	= 75.60
2x 1x 11x				0.525x0.100	= 1.155
pec portion 2x 15x 30x				0.375x0.100	= 33.75
2x 8x 30x				0.375x0.100	= 18.00
2x 2x 10x				0.375x0.100	= 1.50
					240.255 m ³
(5) Construction of Embankment with material obtained from borrow pits					

with a lift upto 1.5 m and lead 1000 m					
2x 15x 30x				0.60x0.35	= 189.0
2x 08x 30x				0.60x0.35	= 100.80
2x 01x 20x				0.60x0.35	= 8.40
					298.20 m ³

(6) 100 m lead.					
2x 15x 30x				1.0x0.30	= 270
2x 20x 30x				1.0x0.30	= 360
2x 24x 30x				1.0x0.30	= 432
2x 1x 11x				1.0x0.30	= 6.60
					1068.60 m ³

(7) Construction of granular sub-base by providing well graded material spreading in uniform layer with motor					
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Continuation

Particulars	Details of actual measurement				Contents of area
	No.	L.	B.	D.	
	12x	30x	3.75x	0.075	= 101.25
	4x	30x	3.75x	0.075	= 33.75
	1x	20x	3.75x	0.075	= 5.625
					275.625 m ³

9 In pcc portion.

16 Construction of granular subbase by providing well graded material spreading in uniform layer. GSB.

GSB in widening (A)

2x	15x	30x	0.375x	0.100	= 33.75
2x	8x	30x	0.375x	0.100	= 18.0
2x	20x	0.375x	0.100	= 1.50	
					<u>53.25 m³</u>

GSB in profile correction (B)

7x	2.65x	0.100	= 1.855 m ³
total qty (A+B) ⇒ 55.105 m ³			

10 Providing laying, spreading and
17 Compacting stone aggregate of specific size to water bound macadam Gr-3

2x	30x	3.75x	0.075	= 16.875
1x	15x	3.75x	0.075	= 4.471
1x	15x	4.20x	0.075	= 4.275
1x	30x	3.40x	0.075	= 8.043
7x	30x	3.75x	0.075	= 59.062
2x	30x	3.75x	0.075	= 16.875
10x	30x	3.75x	0.075	= 84.375

Continuation

Particulars	Details of actual measurement				Contents of area
	No.	L.	B.	D.	
	1x	20x	3.75x	0.075	= 5.625
			Total Qty =		199.601 m ³
			Total Qty (limit) =		198.84 m ³
(11) Construction of Un-reinforced, plain Cement Concrete pavement, thickness as per design.					
PCC m30.					
	2x	30x	3.75x	0.160	= 36
	1x	15x	$\frac{3.75+4.20}{2}$	x 0.160	= 9.54
	1x	15x	$\frac{4.20+3.40}{2}$	x 0.160	= 9.12
	1x	30x	$\frac{3.40+3.75}{2}$	x 0.160	= 17.16
	7x	30x	3.75x	0.160	= 126.0
	2x	30x	3.75x	0.160	= 36.0
	10x	30x	3.75x	0.160	= 180.0
	1x	20x	3.75x	0.160	= 12.0
					425.82 m ³
					239.82 m ³
			Total Qty (limit) =		424.20 m ³
			Total Qty =		239.82 m ³
(12) Providing and fixing of typical MMSY informatory sign board with logo as per MORD Specification and drawing					
					2 nos.
					5 nos. of 1x1000 mm HP Culvert
(13) Earthwork in excavation for foundation of structures upto 3.0 depth as per drawing and Technical Specification					

Continuation

Particulars	Details of actual measurement				Contents of area
	No.	L.	B.	D.	
M.W. S	2 X	6.45	1.40	1.50	= 135.45
Below pipe S	1 X	4.85	1.53	0.365	= 13.54
					148.99 m ²
(14/32) Providing M 15 PCC (1:2:5) as levelling course in foundation					
M.W. S	2 X	6.45	1.40	0.15	= 13.545
Below pipe S	1 X	4.931	1.53	0.25	= 9.43
Less for pipe S					$[0.25 \times 0.7857 \times (1.23)^2 \times 5.496] = 8.16$
					⇒ 14.80
(15/33) Providing concrete for plain/reinforced concrete in open foundation					
Complete as per drawing					
PCC M 20 (1:2:4)					
M.W. S	2 X	6.15	0.825	2.58	= 130.90
Propet S	2 X	6.15	0.40	1.20	= 29.52
Less for pipe S	2 X	0.7857	$(1.23)^2$	0.622	= 7.39
					153.03 m ²
(16/34) Providing and laying RCC pipe					
NP-3 for Culverts on first class bedding of PCC M 10 material.					
S	3 X	2.50			= 37.5 m
20/05/21 20/05/21 30 Am auts 25/05/21 30					

Continuation

Estimation bill

Abstract of Cost

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Particulars	Details of actual measurement				Contents of area
	No.	L.	B.	D.	
① Providing and fixing of working benchmark pillar. Qty vide TMB Page no-01 2.95 km @ Rs. 3755.20/km - Rs. 11078/-					
② Reference pillar Qty vide TMB Page no-01 2.95 km @ Rs. 1736.85/km - Rs. 5123/-					
③ Clearing and grubbing road land (by manual means) Qty vide TMB Page no-01 1.056 hect @ Rs. 51133.76/hect - Rs. 53997/-					
④ Excavation for road way in soil using manual means for carrying of cut earth etc. Qty vide TMB Page no-02 240.25 m ³ @ Rs. 74.16/m ³ - Rs. 17817/-					
⑤ Construction of Embankment with material obtained from borrow pits. 1000 m lead. Qty vide TMB Page no-02 → 298.20 m ³ @ Rs. 175.22/m ³ - Rs. 52250/-					
⑥ 1000 m lead Qty vide TMB Page no-02 → 1068.60 m ³ @ Rs. 141.14/m ³ - Rs. 150822/-					
⑦ construction of granular sub base by providing well graded Continuation Rs. 291087/-					

Particulars	Details of actual measurement				Contents of area
	No.	L.	B.	D.	
material in uniform layer.					
Qty vide TMB Page no- 3					129805
⇒ 915.21 m ³ @ Rs. 3467.95/m ³					Rs. 3173902/-
<u>8</u> 1/2 Providing, laying, spreading and compacting Stone aggregate of Spec. R. size to WBM Gr-3					20520
Qty vide TMB Page no- 3 & 4					
⇒ 275.62 m ³ @ Rs. 4213.34/m ³					Rs. 1161302/-
<u>9</u> 1/2 In pcc portion Construction of granular sub base by providing well graded material, spreading in uniform					13813
thickness. GSB. Gr-I					
Qty vide TMB Page no - 4					
= 55.105 m ³ @ Rs. 3467.95/m ³					Rs. 191101/-
<u>10</u> 1/2 Providing, laying, spreading and compacting Stone aggregate of Spec. R. size to WBM Gr-3					
Qty vide TMB Page no- 4 & 5					
⇒ 198.84 m ³ @ Rs. 4213.34/m ³					Rs. 837780/-
<u>11</u> 1/2 PCC M30. construction of un-reinforced cement concrete pavement					
Qty vide TMB Page no- 05					1745139/-
⇒ 424.20 m ³ @ Rs. 7276.87/m ³					Rs. 3086848/-
Continuation					Rs. 8742020/-
					7400311

Particulars	Details of actual measurement				Contents of area
	No.	L.	B.	D.	
$\frac{12}{30}$ Providing and fixing of typical masonry board etc. Qty vide TMB Page no- 5 = 2 nos @ Rs. 10941.15/mo Rs. 21882/- 5 nos. 1x1000 mm HPC					
$\frac{13}{31}$ Earthwork in excavation for foundation of structure upto 3.0 m depth. Qty vide TMB Page no - 5 & 6. $\Rightarrow 148.99 \text{ m}^3 @ \text{Rs. } 269.32/\text{m}^3 \text{ Rs. } 40126/-$					
$\frac{14}{32}$ Providing M15 PCC (1:2:5) as levelling course in foundation Qty vide TMB Page no- 6. $\Rightarrow 14.80 \text{ m}^3 @ \text{Rs. } 5708.02/\text{m}^3 \text{ Rs. } 84478/-$					
$\frac{15}{33}$ Providing Concrete for plain reinforced concrete in open foundn Qty vide TMB Page no- 6 PCC m 20 $\Rightarrow 153.03 \text{ m}^3 @ \text{Rs. } 6384.45/\text{m}^3 \text{ Rs. } 977012/-$					
$\frac{16}{34}$ Providing and laying RCC Pipe HP-3 for Culvert on first class bedding of PCC m 1:2:5 Qty vide TMB Page no- 6 $37.50 \text{ m}^3 @ \text{Rs. } 3680.48/\text{m}^3 \text{ Rs. } 138018/-$ Rs. 10003536/- Continuation Rs. 8661827/-					

Particulars	Details of actual measurement				Contents of area
	No.	L.	B.	D.	
B.F. —					Rs. 10003536/-
GST 12% — (+)					Rs. 1039419/-
Labour cess 1% — (+)					Rs. 1200424/-
Seigniorage fee 0.877% (+)					Rs. 86618/-
					Rs. 100035/-
					Rs. 75964/-
					Rs. 87731/-
					Rs. 11391726/-
Less 0.75% as per agreement (+)					Rs. 9863828/-
					Rs. 73979/-
					Rs. 9789849/-

Noted
20.05.21

Approved
25.05.21
A.B.

Material Statement

B/W	—	15/5.80	
Stone aggregate	—	1505.60	
Screening	—	346.75	
Stone chips	—	531.35	300 m ³
Coarse Sand	—	266.86	150 m ³

Noted
20.05.21
SE

Continuation