

Road name — construction & Five years
Schedule XLY-Form No. 134
Maintenance of Road & CD Work For Sewani
High Level Bridge to Bazipat Hada San Tola
DIVISION

~~Fatwa~~ Bakhtiyarpur SUB-DIVISION

Measurement Book



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 & 2 years maintenance of Road from "Sewari High Level bridge to Baridpur Har - Jan Tola" under m/s				
Agency:-	Shiv Kumar, At. Kijibara, P. O - Dhami, Anchal Estate, Dist. Patna, Pin. 803201				
Agreement no-	18/537/2021-22				
Rate Approved-	1.00 % Below.				
Agreement Value:-	Rs 7512537.00				
Date of commencement-	30/11/2021				
Date of completion-	29/03/2022				
Date of measurement-	9/06/23.				

Continuation

PTD



Particulars	Details of actual measurement				Contents of area
	No.	L.	B.	D.	
				BSE	2100.00m ²
Item (2) Contd.					
		10 × 30.00 × 7.00 =			2100.00 "
		6 × 30.00 × 7.00 =			1260.00 "
		1 × 30.00 × 7.00 =			140.00 "
					5600.00 m ²
∴ Net = 5600.00 m ² / 10000 = 0.56 ha					
Item (3) construction of embank.					
- met with approved					
material derived					
from borrow pits -					
do - do - do - etc.					
E/W calculation is					
given below as per					

Contd. :-

Sl No	CH	Area	Area	Dist	Volume
	(m)	(m ²)	(m ²)	(m)	(m ³)
1	0	4.265	-	-	-
2	50	4.300	4.283	50	214.125
3	100	4.306	4.303	50	215.150
4	150	4.319	4.313	50	215.450
5	200	4.333	4.301	50	215.050
6	250	4.321	4.292	50	215.000
7	300	4.294	4.282	50	214.075
8	350	4.234	4.338	50	216.900
9	400	4.179	4.282	50	214.075
10	450	4.380	4.258	50	212.850
11	500	4.315	4.361	50	217.550
12	550	4.194	4.258	50	202.750
13	600	4.487	4.341	50	217.025
14	650	4.177	4.332	50	216.600

Continuation

PTD



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Particulars	Details of actual measurement				Contents of area
	No.	L.	B.	D.	
				AF =	
Item (3) Contd. (locked)					
Sl No	Ch	Area	mean Area	Dist. in m	Volume
	(m)	(m ²)	(m ²)	(m)	(m ³)
15	700	4.186	4.187	50	209.35
16	750	4.576	4.386	50	219.30
17	800	4.212	4.394	50	217.70
			Total	Qty = 3445.175	
			Qty =	3445.18 m ³	
(i) Lead - 100 m (70%) =				2411.63 m ³	
(ii) Lead - 100 m (30%) =				1033.55 m ³	
Item (4) Prov. & fixing of typical					
masonry information sign					
board as per layout					
(i) Information board -				1.00 m ²	
(ii) Citizen board -				1.00 m ²	
				2.00 m ²	
1000 mm light fixture					
Item (5) E/W excavation of					
Edn & structure etc.					
face wall - 2 x 9.50 x 1.40 x 1.50 =				37.90 m ³	
Pipe portion - 1 x 5.90 x 1.50 x 0.30 =				2.66 m ³	
				42.56 m ³	

Continuation

PTD



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Particulars	Details of actual measurement				Contents of area
	No.	L.	B.	D.	
Item (6) Rev. P.C.C. m.s in open trench etc.					
2 x 9.50 x 1.40 x 0.150 =					3.99 m ³
Item (7) Rev. P.C.C. m.s in open trench etc.					
Face wall - 2 x 9.15 x 1.025 x 1.35 =					25.39 m ³
Below pipe 1 x 5.90 x 1.50 x 0.25 =					2.21 "
					27.59 m ³
Item (8) Rev. P.C.C. m.s in Sub structure etc.					
Face wall - 2 x 9.15 x 1.025 x 0.25 =					7.32 m ³
2 x 7.15 x 0.60 x 0.60 =					4.87 "
Depth of pipe portion 2 x 3.14/4 x (1.20) ² x 0.60 =					1.36 m ³
					10.35 m ³
Item (9) Rev. & laying C.C. Under pipe 1000 mm dia for culvert etc.					
2 x 7.50 m =					15.00 m
Impd 9/06/23 J.E.					
Subd. Adl. Sec 9/06/23 A.E.					

Continuation

PTD



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Particulars	Details of actual measurement				Quantity of work
	No.	L.	B.	D.	
<u>Material Statement</u>					
(i) Earth	—	—	—	—	3445.18 m ³
(ii) Agg. 40 mm	—	—	—	—	15.56 m ³
(iii) Agg. 20 mm	—	—	—	—	14.40 m ³
(iv) Agg. 10 mm	—	—	—	—	7.54 m ³
(v) Loose sand	—	—	—	—	18.97 m ³

Dr. P. S.
 9/8/23
 J.E.
S. K. S.
 9/8/23
 S.E.

<u>Signage for</u> — 10%					
(i) Earth	—	—	—	—	3445.18 m ³
10% of 3445.18	—	—	—	—	344.518 m ³
(ii) P.C.C. 15 in thick	—	—	—	—	3.99 m ³
10% of 3.99	—	—	—	—	0.399 m ³
(iii) P.C.C. 10 in thick	—	—	—	—	27.53 m ³
10% of 27.53	—	—	—	—	2.753 m ³
(iv) P.C.C. 7.5 in thick	—	—	—	—	595.15 m ³
10% of 595.15	—	—	—	—	59.515 m ³
(v) P.C.C. 5 in thick	—	—	—	—	10.35 m ³
10% of 10.35	—	—	—	—	1.035 m ³
					1214.55 = 00

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Continuation

P.T.O.



Particulars	Details of actual measurement				Contents of area
	No.	L.	B.	D.	
ABSTRACT OF COST					
(1)	Construction of reach - - mark of reference pillar - do - do - do - etc.				
0.800 km. wide T.M.B. stage (1)					
	ele	11519 = 38/km	—	Rs	9216 = 00
(2)	clearing & scrubbing road bank do - etc.				
0.56 Hect. wide T.M.B. stage (2)					
	ele	52993 = 90/hect	—	Rs	29,679 = 00
(3)	Construction of embank- ment with approved ma- - terial obtained from borrow pits with a lead up to 100 m. do - etc.				
1037.55 m ³ wide T.M.B. stage - (3)					
	ele	192 = 03/m ³	—	Rs	12,198,473 = 00
(4)	Construction of embank- - ment with approved mat- - erial obtained from bor- - row pits with a lead up to 100 m. do - etc.				
2411.63 m ³ wide T.M.B. stage - (3)					
	ele	194 = 58/m ³	—	Rs	3,372,790 = 00
(5)	Provisioning of typi- - cal Pro G.S.Y. Incorporation with board with "logs" - do - do - do - etc.				
2.00 Nos. wide T.M.B. stage (3)					
	ele	9520 = 72/each	—	Rs	19041 = 00
4,013,629,199 = 00					

Continuation

Continuation

PTD



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Particulars	Details of actual measurement			Quantity of area
	No.	L	B	
				6.22/12.00
(6) Elev. in excavation for structure etc.				
42.56 m ³ vol. + 10.13 base (6)				
42.56/5 = 8.51 m ³ — 12				12.24/7.00
(7) Concrete in foundation etc.				
3.99 m ³ vol. + 10.13 base (7)				
42.56/30/96/10 ³ — 12				22.47/2.00
(8) Rev. concrete in foundation etc.				
27.50 m ³ vol. + 10.13 base (8)				
42.56/30/96/10 ³ — 12				11.11/2.00
(9) Concrete in foundation etc.				
10.95 m ³ vol. + 10.13 base (9)				
42.56/30/96/10 ³ — 12				15.41/2.00
(10) Rev. concrete in foundation etc.				
15.00 m ³ vol. + 10.13 base (10)				
42.56/30/96/10 ³ — 12				58.40/7.00
				2.95/2.13/0.00
Add 10% for T. 21				11.23/3.00
Add 1% for L. 11				0.57/2.00
Add 5% for material				
vide T. 10/11 (10) 11				12.55/2.00

Continuation



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