

SANJAY KR. KHAN

MB No:- 2844

Schedule XLV From No. 134.
BIHAR P. W.D.

Rural work department

DIVISION

Rural work

Sub-DIVISION

SUB-DIVISION

KHAN

MEASUREMENT BOOK

MB No:- 2844

1st on A/c Bill

Measurement

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.	
N/Work:-					
		Constn	do	Road	
		from	PWD	Sadaka	
		to	Baretha (Karnau)		
		Reli Bag).			
Head :-		MMHSY (GEN)			
N/Agency :-		Sandhy Kr.			
		Kham,			
		Bamgaon, Saurasa.			

A. No:-	15/SBD/MMHSY/2021-22
A. Rate:-	0.11% Below
Date of Start:-	19.08.2021
Time of completion:-	18.05.2022
Record entry	
① Setting out pillars	
Plv & bixey do working	
bench mark pillars	
do - E/G.	
(i) Bench Mark Pillars	02 Nos.
(ii) Reference Pillars	07 Nos.
② clearing scrubby	
food land (or	
mannua Means)	
do - E/G.	

Continuation

Abstract of cost

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Particulars	Details of actual measurement				Contents of area
	No.	L.	B.	D.	
① fix & fixed of					
banking of Bench					
Mark pillars — do —					
(i) Bench Mark pillars					
Dty = 02 Nos vide P-①					
@ Rs. 4162.44/No — Rs. 8325.00					
(ii) Reference pillars					
Dty = 02 Nos vide P-①					
@ Rs. 1904.50/No — Rs. 13351.00					
② clearing & grubbing					
land land (By					
Mammals mens)					
— do —					
Dty = 1.28 Hect vide P-②					

@ Rs. 53879.81/Hect — Rs. 68966.00

③ Earth of embankment					
with approved					
Material up to 100m					
level — do —					
Dty = 1984.743 m ³ vide P-③					
@ Rs. 143.30/m ³ — Rs. 284414.00					

④ Earth of embankment					
with approved Material					
up to 1000.00m level					
— do —					
Dty = 179.24 m ³ vide P-④					
@ Rs. 190.42/m ³ — Rs. 34150.00					

Continuation

Total Rs. 409206.00

Particulars	Details of actual measurement				Contents of area
	No.	L.	B.	D.	
(5) Cast in situ concrete					
& concrete shoulders					
— do —					
Qty = 3745.20 m ³ vide P (20)					
@ R.					
1111.74 m ³ vide P (23)					
Total = 4856.94 m ³					
@ R 192.10/m ³					R. 933018.00
(6) Cast in situ granular					
Sub base (USBM-I)					
— do —					
Qty = 1420.17 m ³ vide P (21)					
@ R. 2758.55/m ³ R.					3988101.00

(7) P.V. layer spreading					
and compaction					
10BM-3					
— do —					
Qty = 523.54 m ³ vide P (22)					
@ R. 3212.60/m ³ R.					1681925.00
(8) P.V. and applying					
primer coat with					
Bitumen emulsion					
(SS-1) — do —					
Qty = 6310.10 m ² vide P (26)					
@ R. 41.77/m ² R.					263573.00
Total = R. 7275823.00					

Continuation

Particulars	Details of actual measurement				Contents of area
	No.	L.	B.	D.	
9.) P/W & applying tack coat with bitumen emulsion (PS-1)					
— do —				19.	
Qty =	6310.10	m ²	vide (36)		
	@ Rs. 14.25/m ²			Rs.	89793.00
10.) P/W, laying & rolling of closed grade premix surfacing material (MSS)					
— do —				219.	
Qty =	6310.10	m ²	vide (37)		
	@ Rs. 189.86/m ²			Rs.	1198036.00

11.) casts of un-reinforced plain cement concrete (PCC)					
M30 grade, 40 grade					
— do —				215.	
Qty =	107.08	m ³	vide (22)		
	@ Rs. 6640.08/m ³			Rs.	711020.00
12.) P/W laying brick soling layer on prepared sub grade — do —					
Qty =	87.50	m ²	vide (39)		
	@ Rs. 511.48/m ²			Rs.	44754.00
Total =					9364180.00

Continuation

Particulars	Details of actual measurement				Contents of area
	No.	L.	B.	D.	
(13) PIV RCC M.S. grade					
Km. R. 200m					
Stone Precast					
do do					
(i) Ordinary km Stone					
Qty = 03 Nos vide (37)					
@ Rs. 2190.18/No. Rs. 6511.00					
(ii) 200m Stone (Precast)					
Qty = 08 Nos vide (37)					
@ Rs. 592.91/No. Rs. 4743.00					
(14) PIV & fixing do typical					
MMSY in boundary					
sign board do					

(03+01)					
Qty = 04 Nos vide (37)					
@ Rs. 9692.50/No. Rs. 38770.00					
(15) PIV RCC M.S. grade					
(16) boundary pillars					
do do					
Qty = 48 Nos vide (37)					
@ Rs. 502.03/No. Rs. 24097.00					
(16) PIV & fixing do					
(17) retro reflectorised					
Cautionary, Mandatory					
and information					
sign board					
do do					

Continuation

Total Rs. 9438301.00

Particulars	Details of actual measurement				Contents of area
	No.	L.	B.	D.	
(16)					
(17) (i) 600mm equilateral triangle					
Qty = 08 Nos vide P-38					
@ R. 3693.98/No - R.					29552.00
(ii) 600mm Circular					
Qty = 02 Nos vide P-38					
@ R. 4918.84/No - R.					9838.00
(iii) 800 X 600 mm rectangles					
Qty = 02 Nos vide P-38					
@ R. 6818.81/No - R.					13638.00
(iv) 600mm X 450mm rectangs					
Qty = 02 Nos vide P-38					

					@ R. 4293.46/No - R. 9587.00
(17)	PIV & Laying do				
(18)	hot applied thermo plastic compound				
	2.50mm thick				
	do - E19				
Qty = 330.00 mt vide P-38					
@ R. 721.98/m ² - R.					238253.00
(18)	PIV & Laying do hot				
(19)	applied thermoplastic compound 2.50mm thick				
	do - E19.				
Qty = 35.00 mt vide P-38					
@ R. 811.14/m ² - R.					28390.00

Continuation

Total = R. 9767559.00

Particulars	Details of actual measurement				Contents of area
	No.	L.	B.	D.	
(19) (20) Planting of tree					
by the Road side					
do - Elg.					
Qty = 165.00 Nos vide P- (37)					
@ Rs. 855.50 / No					Rs. 141157.00
(21) (22) Excavation for					
foundations of structure					
do - Elg.					
Qty = 335.37 m ³ vide P- (62)					
109.76 m ³ vide P- (12)					
29.798 m ³ vide P- (10)					
Total = 474.928 m ³					
@ Rs. 283.74 / m ³					Rs. 134851.00

(21) (22) P.V. P.C.C M/S grade					
Concrete - do - Elg.					
Qty = 23.76 m ³ vide P- (3)					
4.595 m ³ vide P- (10)					
9.510 m ³ vide P- (12)					
Total = 37.865 m ³					
@ Rs. 5259.58 / m ³					Rs. 199154.00
(22) (23) P.V. M20 grade concrete					
in foundation - do - Elg.					
Qty = 100.20 m ³ vide P- (3)					
36.64 m ³ vide P- (11)					
Total = 136.84 m ³					
@ Rs. 5776.80 / m ³					Rs. 790497.00
Total = 11033218.00					

Continuation

Sch. XLV-Form No. 134 B/F = R. 11033248.00

Particulars	Details of actual measurement				Contents of area
	No.	L.	B.	D.	
(23) P/W P.C. M/s grade					
in Sub Structure					
do do					
Qty =	48.66 m ³			vide P-6	
	25.16 m ³			vide P-17	
	33.74 m ³			vide P-11	
Total =	107.56 m ³				
	@ R. 5973.28/m ³				R. 642486.00
(24) P/W weep holes					
(26) in P.C./R.C.C.					
do do					
Qty =	108.00 Nos			vide P-6	
	54.00 Nos			vide P-14	

Total = 162 Nos

	@ R. 162.00/Nos				
	@ R. 111.08/Nos				R. 17995.00
(25) P/W R.C.C. M/s grade					
(27) in Sub Structure					
do do					
Qty =	30.06 m ³			vide P-6	
	18.84 m ³			vide P-14	
Total =	48.90 m ³				
	@ R. 6562.29/m ³				R. 320896.00
(26) Supplying, fixing & placing M.S.D. bar					
reinforcement do					
Qty =	3.015 MT			vide P-5	
	1.410 MT			vide P-14	
Total =	4.425 MT				
	@ R. 48820.28/MT				R. 216030.00
Continuation					
Total =					R. 12230625.00

Particulars	Details of actual measurement				Contents of area
	No.	L.	B.	D.	
(27) P/V Back filling					
(27) behind abutment					
do do					
Qty = 102.54 m ³ vide P-10					
42.37 m ³ vide P-18					
Total = 144.91 m ³					
@ R. 758.87/m ³ = R.					109482.00
(28) P/V & laying bitum Men					
(30) dia with granular					
Crushed do					
Qty = 57.43 m ³ vide P-9					
25.50 m ³ vide P-12					
Total = 82.93 m ³					

@ 2906.40/m ³ = R.					247712.00
(29) P/V & laying RCC					
(31) M30 grade concrete					
in Super structure					
do do					
Qty = 13.14 m ³ vide P-8					
7.68 m ³ vide P-16					
Total = 20.82 m ³					
@ R. 7114.22/m ³ = R.					148118.00
(30) P/V & placing HYSD bar					
(32) in Super structure					
do do					
Qty = 1.223 MT vide P-7					
@ R.					
0.664 MT vide P-16					
Total = 1.887 MT					
Limit = 1.80 MT					
Total = 12735937.00					

Continuation

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Particulars	Details of actual measurement				Contents of area
	No.	L.	B.	D.	
Qty = 1.80 MT					
@ Rs. 499/16.39/MT					Rs. 89849.00
(31) 33 P.V. P.C.C. 120 grade					
in parapet wall					
Cost Rs. do. etc.					
Qty = 12.00 m ³ vider (8)					
4.704 m ³ vider (13)					
Total = 16.704 m ³					
@ Rs. 5973.28/m ³					Rs. 99778.00
(32) 34 Painting on parapet					
wall do. etc.					
Qty = 82.95 m ² vider (9)					

20.64 m ² vider (11)					
32.32 m ² vider (19)					
Total = 135.91 m ²					
@ Rs. 101.61/m ²					Rs. 13810.00

(33) 35 P.V. Drainage					
Spots do. etc.					
Qty = 12 Nos vider (8)					
04 Nos vider (16)					
Total = 16 Nos					
@ Rs. 424.06/No					Rs. 6785.00

(34) 36 P.V. & Laying P.C.C.					
120 grade concrete					
Qty = 1.48 m ³ vider (13)					
@ Rs. 11516.79/m ³					Rs. 17045.00

Continuation

Total = Rs. 12963204.00

Particulars	Details of actual measurement				Contents of area
	No.	L.	B.	D.	
(35) 37	Plv & laying masonry				
	Slab		RCC-M30		
	grade concrete				
	do			19.	
Qty = 12.60 m ³ vide P. (35)					
@ Rs. 9610.04/m ³ Rs. 121086.00					
(36) 38	Plv M15 grade				
	concrete in sub				
	structure				
	do			19.	
Qty = 6.30 m ³ vide P. (19)					
@ Rs. 5669.15/m ³ Rs. 35716.00					
(37) 39	Plv & laying RCC				
	pile NPS 600				

Structure - do P. 19					
Qty = 7.50 m vide P.					
@ Rs. 3930.32/m Rs. 29477.00					
(38) 41	Dismantling of				
	existing structure				
(i) Cement concrete					
Qty = 1.13 m ³ vide P. (19)					
@ Rs. 503.89/m ³ Rs. 569.00					
(ii) RCC					
Qty = 2.52 m ³ vide P. (19)					
@ Rs. 1145.64/m ³ Rs. 2887.00					
(39) 42	Plv dismantling of				
	existing structure				
Qty = 24.75 m ³ vide P. (20)					
@ Rs. 237.64/m ³ Rs. 5882.00					

Continuation

Total Rs. 13158821.00

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Particulars	Details of actual measurement				Contents of area
	No.	L.	B.	D.	
<u>①</u>		B/f = R.			13158821.00
Add @ 12% ST + M. LC (+) R.					1710647.00
Add S.F. (+) R.					184400.00
					/
		Total = R.			15053868.00
less 0.11% bedao					
as per Agreement (-) R.					16559.00
					/
		Total = R.			15037309.00
Di					cap
14/05/2022					① 30-05-2022