Ranjan

MMU5X(SC)

Schedule XLV-Form No. 134

Pumpum Surakshe Bandh to DIVISION

Kalo Beldari tola SUB-DIVISION

Sarvajnik Bhawan

MEASUREMENT BOOK

सहायक अभियन्ता, मधुबनी

7428

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Sch. XLV-Form No. 134

Particulars	Details of actual measurement				Contents of area
	No.	L.	B.	D.	
Name of work :-			Purpuri		
	Sunkesha		bandh	to	
	Kola	beldari	tola		
	samudayak.				
Agency :- Rojan					
Agg no - 1750 D - 2020-21					
Date of start - :- 09-03-2021					
Date of completion :- 08-12-2021					
Rate :- 10.97% below					
	600mm dia HP culvert				
Record Entry :-			C.		
(1/28) - E/w in Excavation of Fdn of					
structure as per Drawing upto					
1.5m depth do-do-EI					
Facewall					
	2 x 3.90 x 1.240 x 1.50				14.51M³
Pipe Portion					
	6.22 x 1.02 x		0.300		1.90M³
			Total -		16.41M³
For 2 Nos culvert				2 x 16.41M³	
				=	32.82M³
(2/29) Providing concrete for plain/Reinforced					
concrete in open Fdn M15 grade					
- do - do - EI					

Continuation

Sch. XLV-Form No. 134

Particulars	Details of actual measurement				Contents of area
	No.	L.	B.	D.	
2×3.90×	1.24	×0.150		=	1.45M³
For 02 Nos Culvert				2×1.45	
				=	2.90M³
(3/30) providing Concrete for plain/Reinforced					
Concrete in open fdn				M20 Grade	
-do- do -E/I					
Face wall in fdn					
2×3.60×	0.865	×1.35		=	8.41M³
below pipe					
6.22×	1.020×	0.250		=	1.59M³
					10.0M³
For 2 Nos Culvert				2×10	
				=	20.0M³
(4/33) plain Reinforced cement					
Concrete in substructure pce M20					
Grade -do-do-E/I					
Face wall					
2× 3.6×	0.48	×1.12		—	3.87M³
deduct pipe position					
2× $\frac{3.14}{4}$	×(0.72)²	×0.52		—	0.42M³
					3.45M³
For 2 Nos culvert —				2×3.45	
				=	6.90M³
(5/36) providing & Laying Reinforced					
cement Concrete pipe NP3 for					
Culvert -do-do-E/I					

Continuation

Sch. XLV-Form No. 134

Particulars	Details of actual measurement				Contents of area
	No.	L.	B.	D.	
600 MM dia pipe					
	3	× 2.5		=	7.5 RM
For 2 NOS culvert			—	2 × 7.5	
				=	15.0 RM
1000MM dia HP culvert					
(6/28) E/W in Excavation of Fdn					
of Structure as per Drawing					
-do-do-E/I					
Face wall					
2 × 6.30 × 1.4 ×			1.500	—	26.46 M³
Pipe portion					
2 × 5.9 × 1.5 ×			0.3	—	2.66 M³
					29.12 M³
For 2 NOS culvert				2 × 29.12	
				=	58.24 M³
(7/29) providing concrete for plain/					
Reinforced concrete in open					
fdn M15 Grade -do-do-E/I					
Face wall Above					
2 × 6.30 × 1.4 ×			0.15	—	2.65 M³
For 2 NOS HP culvert				2 × 2.65	
				=	5.30 M³
(08/30) providing concrete for plain/					
Reinforced concrete in open fdn					
PCC M20 Grade -do-do-E/I					

Continuation

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Particulars	Details of actual measurement				Contents of area
	No.	L.	B.	D.	
(11/12) Construction of un-Reinforced, dowel jointed cut expansion joint M30 and construction joint - do - do - E/I					
	1	15.0	$\frac{4.2+4.6}{2}$	0.160 =	10.56 M³
(2/9) providing & applying primer coat with bitumen Emulsion (BS-1) - do - do - E/I					
	1	30	$\frac{8.5+3.65}{2}$	=	181.5 M²
	1	30	$\frac{3.65+4.6}{2}$	=	123.75 M²
	8	30	3.75	=	900 M²
	1	30	$\frac{3.75+3.4}{2}$	=	107.25 M²
	1	30	$\frac{3.4+3.25}{2}$	=	99.75 "
	1	30	$\frac{3.25+3.20}{2}$	=	96.75 "
	1	30	$\frac{3.20+3.85}{2}$	=	105.75 "
	1	30	$\frac{3.85+3.55}{2}$	=	111.0 "
	1	30	$\frac{3.55+3.3}{2}$	=	102.75 "
	1	30	$\frac{3.3+3.5}{2}$	=	102 "
	1	30	$\frac{3.5+3.4}{2}$	=	103.5 "
	1	30	$\frac{3.4+3.8}{2}$	=	108 "
	1	30	$\frac{3.8+3.7}{2}$	=	112.5 "
	1	30	$\frac{3.7+5.0}{2}$	=	130.5 "

Continuation

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Particulars	Details of actual measurement No.	L.	B.	D.	Contents of area
1 x 20 x 5.10 x 3.4/2				=	173.0 M²
1 x 20 x 3.8 x 3.40/2				=	129.2 M
1 x 20 x 3.40 x 4.20/2				=	119.0 M
1 x 13 x 4.20 x 3.2/2				=	56.6 M
				=	2139.6 M²
				co-A =	2731.05 M²
13/10 providing & applying tack coat with bitumen emulsion (RS-1) -do- -do- E/1					
same as prime coat qty -					2731.05 M²
14/11 providing & laying and rolling of slurry premix surfacing material MCS -do- -do- E/1					
same as qty of tack coat					2731.05 M²
15 providing & laying RCC M15 Grade in 12 mm stone -do- -do- E/1					
a/ ordinary 12 mm stone					
	1 x 2			=	02 NOS
b/ 20 mm stone (precast)					
	1 x 4			—	04 NOS

Continuation

Sch. XLV-Form No. 134

Particulars	Details of actual measurement				Contents of area
	No.	L.	B.	D.	
(16/17) providing & laying RCC M15 Grade boundary pillars do-do-E/I					
1 x 17			—		17 NOS
(17/18) painting two coats including prime coat after filling the surface -do-do-E/I					
8 x 6.20 x 1.8				=	89.28 m²
(18/19) painting name & letters & figures of any shades do-do-E/I					
8 x 104				=	832 per sq m
(19/20) providing & fixing of Typical 'PMGSY' informatory sign board -do-do-E/I					
1 x 1					01 NOS
(20) providing & fixing informatory sign board -do-do-E/I					
a) 600 mm Circular					
	1 x 4		—		04 NOS
b					

Continuation

Sch. XLV-Form No. 134

Particulars	Details of actual measurement				Contents of area
	No.	L.	B.	D.	
b) 600 MM triangle					
	1 x	8		—	08 NOS
c) 600 MM x 4 FO (Rectangular)					
	1 x	4	—		04 NOS
d) 900 MM octagon					
	1 x	2	—		02 NOS
(21/26) Providing & Laying Hot Applied thermoplastic -do-do- E/L					
BT portion					
2 x 715 x 0.1			—		143 M²
(22/27) providing & Laying Hot Applied thermoplastic -do-do- E/L					
CC portion					
2 x 150 x 0.1			—		30.0 M²
(23/13) providing & Laying Brick soling -do-do- E/L					
2 x 5 x 30 x $\frac{0.2+0.3}{2}$				=	75 M²

Continuation

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Particulars	Details of actual measurement				Contents of area
	No.	L.	B.	D.	
(24/6) Construction of Subgrade					
Earthen shoulder — do — do — G/I					
Side of CC portion					
	2 ×	5.0 ×	30 × 1.29 ×	0.160 =	61.68 M³
G.S.B & WMM in CC portion					
	2 ×	5.0 ×	30 × 1.62 ×	0.100 =	48.60 M³
			Total		110.28 M³
(25) Construction of Embankment with					
Approved Material — do — do — G/I					
S.N.	Ch	Distance	Fill Area	Mean Area	Fill volume
1	0	0	0.030		0.00
2	50	50	4.10	2.065	103.25 M³
3	100	50	3.851	3.915	198.77 M³
4	150	50	5.555	4.703	235.150 M³
5	200	50	13.079	9.317	465.85 M³
6	250	50	8.537	10.808	540.40 M³
7	300	50	11.981	10.259	512.95 M³
8	350	50	6.854	9.418	470.88 M³
9	400	50	5.907	6.381	319.03 M³
10	450	50	15.532	10.720	535.98 M³
11	500	50	14.847	15.190	759.490 M³
12	550	50	6.516	10.682	534.08 M³
13	600	50	8.396	7.456	372.80 M³
14	650	50	4.498	6.447	322.35 M³
15	700	50	0.129	2.314	115.68 M³
16	750	50	0.881	0.505	25.25 M³

Continuation

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Particulars	Details of actual measurement No.	L.	B.	D.	Contents of area
17	800	50	8.463	4.617	232.604
18	850	50	2.212	5.353	267.676
19	864	14	0.55	1.496	17.544
				Total	6032.620
Less previous E/W qty				(-)	2203.911
Less sub grade qty				(-)	2438.281
Less G.S.B qty				(-)	740.715
Less WBM qty				(-)	247.864
Less PCC qty				(-)	93.184
Less m.ss qty				(-)	54.79 "
		Net bla qty		=	253.96 m³
(25/5) 70% of 100 mts cuf					177.7 m³
(25/6) 30% of 1500 mts cuf				=	76.186 m³

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Particulars	Details of actual measurement				Contents of area
	No.	L.	B.	D.	
	Seignioraje fee				
Concrete					
20MM	= 59.56	@Rs 60.4		=	3567 =
10 MM	= 29.53	@ Rs 66.26		=	1975 =
Sand	= 49.22	@ Rs 17.58		=	865 =
MSS					
13.2MM	= 73.96	@ 52.357		=	3871 =
			Total		10278
	Material Statement				
Aggregate =				=	162.55 M^3
Sand	—			=	49.22 M^3
Earth work -				=	364.24 M^3
SS-1				=	2.32 MT
RS-1				=	0.739 MT
bitumen - (S-90)				=	5.20 MT

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Particulars	Details of actual measurement				Contents of area
	No.	L.	B.	D.	
	Abstract of Cost				
(1/1) construction of Reference Benchmark - do - do - E/I					
0.864 KM	VT MB ($\frac{P}{24}$ at 1)				
@	11254.75/KM			=	9724=00
(2/3) Clearing & Grubbing - do - do - E/I					
0.60 Hec.	VT MB ($\frac{P}{24}$ at 2)				
@	52998.20/Hec			=	31799=00
(3/4) Construction of Embankment 1600 M' do - do - E/I					
	661.17 M³ VT MB ($\frac{P}{24}$ at 3)				
	76.188 M³ VT " ($\frac{P}{36}$ at $\frac{25}{4}$)				
	747.358				
Limit	736.176 M³ @		192.03	=	141368=00
(4/5) Construction of EMB 100M - do - do - E/I					
	1542.73 M³ VT MB ($\frac{P}{24}$ at 4)				
	177.70 M³ VT " ($\frac{P}{36}$ at $\frac{25}{5}$)				
	1720.43 M³				
Limit	1717.744 @		154.58/M³	=	265529=00
(5/6) Const of subgrade - do - do - E/I					
	2327.97 M³ VT MB ($\frac{P}{35}$ at 5)				
	110.28 M³ VT " ($\frac{P}{35}$ at $\frac{24}{6}$)				
	2438.25 M³ @				
Limit	= 2437.98		190.01/M³	=	463241=00

Continuation

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Particulars	Details of actual measurement				Contents of area
	No.	L.	B.	D.	
(6/7) Const of GSB -do-do- G/I					
740.71 M3 VT MB ($\frac{P}{25}$ at 6)					
@ 2899.56/M3				=	2147733=00
(7/8) Const of HBM-II -do-do- G/I					
247.86 M3 VT MB ($\frac{P}{25}$ at 7)					
@ 3732.09/M3				=	925036=00
(8/12) Const of PCC M30 -do-do- G/I					
82.62 M3 VT MB ($\frac{P}{25}$ at 8)					
10.56 M3 VT MB ($\frac{P}{31}$ at $\frac{11}{12}$)					
Lim 93.18 M3 @ 6540.14/M3					600385=00
(9/20) providing & fixing of typical "PMGSY"					
informatory sign -do-do- G/I					
02 NOS VTMB ($\frac{P}{25}$ at 9)					
01 NOS VTMB ($\frac{P}{33}$ at $\frac{19}{20}$)					
03 NOS @ 9475.25/NOS				—	28426=00
(10/28) E/N Excavation for structure					
-do-do- G/I					
32.82 M3 VTMB ($\frac{P}{27}$ at $\frac{1}{28}$)					
58.24 M3 " " ($\frac{P}{29}$ at $\frac{6}{28}$)					
91.06 M3 @ 305.42/M3				=	27812=00
(11/29) Providing & Laying PCC in					
open ftn -do-do- G/I					

Continuation

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Particulars	Details of actual measurement				Contents of area
	No.	L.	B.	D.	
2.90M3	VT MB	($\frac{P}{28}$ at $\frac{2}{28}$)			
5.30M3	" "	($\frac{P}{29}$ at $\frac{1}{29}$)			
8.20M3	@ 5449.99/M3			=	44690=40
(12/30) providing & laying PCC-M20					
in open Fdn -do-do- E/I					
20.0M3	VT MB	($\frac{P}{28}$ at $\frac{3}{30}$)			
37.64M3	" "	($\frac{P}{30}$ at $\frac{8}{30}$)			
57.64M3	@ 5926.27/M3			=	341590=28
(13/33) providing & laying PCC					
in substructure -do-do- E/I					
6.90M3	VT MB	($\frac{P}{28}$ at $\frac{4}{33}$)			
26.08M3	" "	($\frac{P}{30}$ at $\frac{9}{33}$)			
32.98M3	@ 6153.16/M3			=	202931=00
(14/36) providing & laying 600mm					
dia HP -do-do- E/I					
15.0RM	VT MB	($\frac{P}{29}$ at $\frac{5}{36}$)			
	@ 1134.01/RM			=	17010=00
(15/35) providing & laying 1000mm					
dia HP -do-do- E/I					
15.0 RM	VT MB	($\frac{P}{30}$ at $\frac{10}{35}$)			
	@ 3571.34/RM			=	53570=00

Continuation

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Particulars	Details of actual measurement				Contents of area
	No.	L.	B.	D.	
(16/37) providing & fixing NP3					
300 MM dia HP -do-do- E/I					
40.0 RM	VT MB ($\frac{P}{30}$ at $\frac{100}{37}$)				
@	711.48/RM			=	28459=00
(17/9) SS primer coat -do-do- E/I					
2731.05M²	VT MB ($\frac{P}{32}$ at $\frac{12}{9}$)				
@	41.04/M²			=	112082=00
(18/10) P/A Tack coat RS-1 do do					
— E/I					
2731.05M²	VT MB ($\frac{P}{32}$ at $\frac{13}{0}$)				
@	13.99/M²			=	38207=00
(19/11) P/A. pre-mix MSS -do-do- E/I					
2731.05M²	VT MB ($\frac{P}{32}$ at $\frac{16}{1}$)				
@	193.01/M²			=	527120=00
(20/15) P/L RCC M15 in ordinary					
KM stone -do-do- E/I					
02 NOS	VT MB ($\frac{P}{32}$ at $\frac{15}{9}$)				
@	2269.68/NOS			=	4539=00
(21/16) 200M stone (precast)					
04 NOS	VT MB ($\frac{P}{32}$ at $\frac{15}{6}$)				
@	623.17/NOS			=	2493=00

Continuation

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Particulars	Details of actual measurement				Contents of area
	No.	L.	B.	D.	
(22/17) P/F RCC M15 Grade					
boundary pillar -do-do- E/I					
17 NOS	VT MB ($\frac{P}{33}$ at $\frac{16}{19}$)				
@	524.98/NOS			=	8874=
(23/18) painting 3 NOS coats including					
prime coat -do-do- E/I					
89.28 M^2 VT MB ($\frac{P}{33}$ at $\frac{17}{18}$)					
@	100.17/M^2			=	8943=
(24/19) Painting NOS letters &					
figures any shades -do-do-					
832 PER CM H	VT MB ($\frac{P}{33}$ at $\frac{18}{9}$)				
@	0.53/PER CM H				441=00
(25/20) P/F of Retro-Reflectorised					
-do-do- E/I					
600MM circular					
04 NOS	VT MB ($\frac{P}{33}$ at $\frac{20}{9}$)				
@	4672.45/NOS			=	18690=00
(26/23) 600MM Triangular					
08 NOS	VT MB ($\frac{P}{34}$ at $\frac{20}{6}$)				
@	3498.21/NOS			=	27986=00

Continuation

Sch. XLV-Form No. 134

Particulars	Details of actual measurement No.	L.	B.	D.	Contents of area
27/24) 600 MM x 450 MM (Rectangular)					
04 NOS	VT MB	(P/34 at 200)			
(a)	4552.25 / NOS			=	12209=00
22/25) 600 MM octagon					
02 NOS	VT MB	(P/34 at 20/2)			
(a)	8269.14 / NOS			=	16538=00
29/26) providing & Laying Hot Applied thermoplastic -do-do-Cl					
143 M2	VT MB	(P/34 at 21/2)			
(a)	722.30 / M2			=	103289=00
30/27) P/L Hot Applied thermoplastic cc portion -do-do-Cl					
30.0 M2	VT MB	(P/34 at 22/27)			
(a)	553.08 / M2			=	22592=00
31/13) P/L Brick soling -do-do-Cl					
75 M2	VT MB	(P/34 at 24/13)			
(a)	474.83 / M2			=	35612=00
					62,74918=00
Add 12% G.S.T				(+)	752990=00
Add 1% L.S				(+)	62749=00
Add S.F				(+)	97109 ~~10278=00~~
					71,87,766=00

Continuation

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Particulars	Details of actual measurement				Contents of area
	No.	L.	B.	D.	
Less 1	0.970	below		(−)	[illegible]
6399268		[illegible]		[illegible]	6321963=00
		[illegible]		[illegible]	6399268
less	previous bill			(−)	4579857=00
				BF	4210600
			Subtotal		1819411=00
			30/11/23 AE		
Date 30/7/23					
			30/9/23		

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