PMGSY-NDB-BRRP-35 Chapra-2 M.B.NO-3477

Schedule XLV-Form No. 134

पसौला जलालपुर पथ से खोरीडीह होते हुए मंगोलापुर तक।

एकरारनामा सं० 35SBD/2021-22

संवेदक :- श्री मुकेश सिंह

DIVISION

श्री हिमांशु शेखर प्रसाद (सहा० अभि०)

SUB-DIVISION

जलालपुर

MEASUREMENT BOOK

M.B.NO-3477

3rd & Final bill

Sch. XLV-Form No. 134

Particulars	Details of actual measurement				Contents of area
	No.	L.	B.	D.	

N/W :- Construction of road % c/D works of road from Bodhla Jalalpur Path to Khorodih hope huge Manglapur tek under MMGSY (MDR) at block Jalalpur.

N/Agency — Sri Mukesh Singh

Agg. NO — 35/SBD/2021-22

Date of start — 20.12.2021

Date of completion — 19.12.2022

Date of measurement — 22.11.2022

Items of works

① Earthwork calculation —

Sl. NO	Chainage (m)	C/S Area (m²)	mean c/s Area (m²)	Dist (m)	volume (m³)
1	0	2.491	1.246	0.00	0.00
2	50	4.213	3.352	50	167.600
3	100	4.252	4.233	50	211.625
4	150	4.167	4.210	50	210.475
5	200	4.381	4.274	50	213.700
6	250	4.237	4.309	50	215.450
7	300	4.095	4.166	50	208.300
8	350	3.590	3.843	50	192.125
9	400	3.632	3.611	50	180.550
10	450	3.748	3.690	50	184.500

Qty c/o = 1784.325 m³

Sch. XLV-Form No. 134

Particulars	Details of actual measurement				Contents of area
	No.	L.	B.	D.	
			~~Qty B/F =~~		~~1784.325~~
S/l NO	chainage	4S Area	mean c/sh	Dist	volume
	(m)	(m^2)	(m^2)	(m)	(m^3)
			Qty B/F =		1784.325 m^3
11	500	3.611	3.680	50	183.975
12	550	3.480	3.546	50	177.275
13	600	3.765	3.623	50	181.125
14	650	3.806	3.786	50	189.275
15	700	3.927	3.867	50	193.325
16	750	3.787	3.857	50	192.850
17	800	3.653	3.720	50	186.000
18	850	3.765	3.709	50	185.450
19	900	4.452	4.109	50	205.425
20	950	4.585	4.519	50	225.925
21	1000	4.439	4.512	50	225.600
22	1050	4.294	4.367	50	218.325
23	1100	4.415	4.355	50	217.725
24	1150	4.452	4.434	50	221.675
25	1200	4.585	4.519	50	225.925
26	1250	4.439	4.512	50	225.600
27	1300	4.095	4.267	50	213.350
28	1350	4.213	4.154	50	207.700
29	1400	4.252	4.233	50	211.625
30	1450	4.669	4.461	50	223.025
31	1500	4.382	4.526	50	226.275
32	1550	4.178	4.280	50	214.000
33	1600	1.899	3.039	50	151.925
			Qty c/o		6487.700 m^3

Continuation

Sch. XLV-Form No. 134

Particulars	Details of actual measurement				Contents of area
	No.	L.	B.	D.	
Sl. NO chainage		c/s Area	mean c/s Area	Dist	volume
	(m)	(m^2)	(m^2)	(m)	(m^3)
			Qty B/F =		6487.700 m^3
34	1650	2.038	1.969	50	98.425
35	1700	2.109	2.074	50	103.675
36	1750	2.130	2.120	50	105.975
37	1760	2.041	2.086	50	20.855
			Total =		6816.63 m^3
		Less for C.S.B.C (-)			925.20 m^3
		Less for W.B.M (-)			504.90 m^3
		Less for P.C.C (-)			97.83 m^3
		Less for shoulder (-)			1277.60 m^3
Net Qty of C/W in cubic m =					4011.10 m^3
Already laid Qty =					3381.56 m^3
Qty to be laid =					629.54 m^3

i) @ 1000 m lead = 30% of 629.54 m^3 = 188.86 m^3

ii) @ 100 m lead = 70% of 629.54 m^3 = 440.67 m^3

(2) P/V & applying Primer coat with bitumen emulsion SS-1

10 x 30.00 m x 3.75 m = 1125.00 m^2

10 x 30.00 m x 3.75 m = 1125.00 m^2

10 x 30.00 m x 3.75 m = 1125.00 m^2

10 x 30.00 m x 3.75 m = 1125.00 m^2

10 x 30.00 m x 3.75 m = 1125.00 m^2

3 x 30.00 m x 3.75 m = 337.50 m^2

1 x 30.00 m x 3.75 m = 112.50 m^2

Extra width at H curve.

2 x 4.30 m x 2.70 m = 23.22 m^2

4 x 6.00 m x 0.580 m = 13.92 m^2

Qty c/o = 6112.14 m^2

Checked 22/11/22

Continuation

Sch. XLV-Form No. 134

Particulars	Details of actual measurement No.	L.	B.	D.	Contents of area
			Qty B/F =		6112.14 m²
	6 x	5.80m x 0.60m =			20.88 m²
	2 x	2.50 m x 3.20m =			16.00 m²
	5 x	6.00 m x 0.580m =			17.40 m²
	2 x	5.20m x 0.500m =			5.20 m²
	2 x	4.25m x 2.60m =			22.10 m²
			Total =		6193.72 m²
			Qty limit =		6120.00 m²

(3) P/V & applying tack coat with bitumen emulsion

RS-1

Net Qty = As per Area of Primer coat

= 6120.00 m²

(4) P/V & applying carpet & rolling of close graded Premix Surfacing material of 20mm thickness

Net Qty = As per Area of tack coat

= 6120.00 m²

(5) Construction of Un-reinforced plain cement concrete pavement as per technical specification.

5 x 30.00m x 3.75m x 0.160m = 90.00 m³

1 x 10.00m x 3.75m x 0.160m = 6.00 m³

Qty 40 = 96.00 m³

Continuation

Sch. XLV-Form No. 134

Particulars	Details of actual measurement No.	L.	B.	D.	Contents of area
		Qty	D	F =	96.00m²
Extra width at H-curve					
	4	5.20m	x0.550m	x0.160m =	1.83m²
				Total =	97.83m²
(6) Laying Brick soling layer on prepared sub-grade					
	2	5	30.00m x 0.250m =		75.00m²
	2	1	10.00m x 0.250m =		5.00m²
				Total =	80.00m²
(7) P/V & laying R.C.C M15 grade Kilometer stones = 03 NOS					
(8) P/V & laying of R.C.C M15 grade 200m stones = 07 NOS					
(9) P/V & laying of typical MMGSY (HDB) informatory sign board with logo = 01 No					
(10) P/V & laying of retro-reflectorised traffic sign board — 600mm equilateral & triangle = 08 NOS					
(11) 600mm circular = 06 NOS					
(12) 600mm x 450 mm rectangular = 04 NOS					
(13) P/V & laying of R.C.C M15 grade boundary pillars.					
	2	3	3 =		18 NOS.

Sch. XLV-Form No. 134

Particulars	Details of actual measurement No.	L.	B.	D.	Contents of area
(14) Planting of trees by the road sides					
0.00 km to 1.00 km = 2 × 45 Nos = 90.00 Nos					
1.00 km to 1.760 m = 2 × 30 Nos = 60.00 Nos					
				Total =	150 Nos
(15) Pvc & Coating of hot applied thermo plastic Compound 2.5mm thick					
For B.T. Portion					
2 ×	10	× 30.00m	× 0.100m =		60.00 m²
2 ×	10	× 30.00m	× 0.100m =		60.00 m²
2 ×	10	× 30.00m	× 0.100m =		60.00 m²
2 ×	10	× 30.00m	× 0.100m =		60.00 m²
2 ×	10	× 30.00m	× 0.100m =		60.00 m²
2 ×	3	× 30.00m	× 0.100m =		18.00 m²
2 ×	1	× 10.00m	× 0.100m =		2.00 m²
For C.C. Portion					
2 ×	5	× 30.00m	× 0.100m =		30.00 m²
2 ×	1	× 10.00m	× 0.100m =		2.00 m²
				Total =	352.00 m²
(16) Painting two coats including Prime Coat — (H.P. Culvert - 5 Nos)					
Outer sides	5	× 2 × 6.20m	× 1.115m =		69.13 m²
Inner sides	5	× 2 × 6.20m	× 0.600m =		37.20 m²
Tops,	5	× 2 × 6.20m	× 0.400m =		24.80 m²
Ends,	5	× 2 × 2 × 0.400m	× 0.600m =		4.80 m²
				Total =	135.93 m²

~~22/11/22~~
~~(S.E.)~~

Continuation

Sch. XLV-Form No. 134

Particulars	Details of actual measurement No.	L.	B.	D.	Contents of area
~~Abstract of cost~~					
(17) Construction of sub-grade & earthen shoulder					
Rate P.C.C portion.					
Sides of S.S.D					
	2	5 × 30.00m	× 1.575m	× 0.100m =	47.25m³
	2	1 × 10.00m	× 1.575m	× 0.100m =	3.15m³
Sides of W.B.M					
	2	5 × 30.00m	× 1.400m	× 0.075m =	31.50m³
	2	1 × 10.00m	× 1.400m	× 0.075m =	2.10m³
Sides of P.C.C					
	2	5 × 30.00m	× 1.175m	× 0.160m =	54.00m³
	2	1 × 10.00m	× 1.175m	× 0.160m =	3.60m³
			Total =		141.60m³

22/11/22
(JE)

Sch. XLV-Form No. 134

Particulars	Details of actual measurement No.	L.	B.	D.	Contents of area
	Abstract of cost				
1/1	plr & shrjg of Bench-mark pillars.				
	02 Nos, vide TMBP-16				
	@ Rs 3700=35/No				Rs 74012=00
2/2	plr & shrjg of reference pillars				
	07 Nos, vide-TMBP-16				
	@ Rs 1708=99/No				Rs 11,963=00
3/3	clearg & grubbing of road land.				
	0.616 Hect, vide TMBP-16				
	@ Rs 53,879=81/Hect				Rs 33,189=00
4/4	Excavation for roading in soil using hydraulic excavator				
	168.00 m³, vide TMBP-17				
	@ Rs 75=61/m³				Rs 12,702=00
5(i)/5	construction of embank-ment with 1000 m lead				
	1014.47 m³, vide TMBP-17				
	188.86 m³, vide TMBP 27				
	1203.33 m³				
	@ Rs 1901=14/m³				Rs 2,28,801=00
					C/o. Rs ~~2,94,056=00~~ 2,94,056=00

Continuation

Sch. XLV-Form No. 134

Particulars	Details of actual measurement No.	L.	B.	D.	Contents of area
				B/F	2,94,056=00
5(11)/6.	Construction of embkt. - ment with a lead upto 100m.				
2367.09 m³,	vide TMBP-17				
440.67 m³,	vide TMBP-23				
2807.76 m³					
	@ ₹ 154=40/m³ — ₹				4,33,518=00
6/8.	Construction of granular sub-base by providing well graded material				
925.20 m³,	vide TMBP-17				
	@ ₹ 2691=82/m³ — ₹				24,90,472=00
7/24	Earthwork in excavation for structure				
146.50 m³,	vide TMBP-17				
	@ ₹ 283=94/m³ — ₹				41,597=00
8/25.	Plg & laying first class bedding on compacted sand.				
17.80 m³,	vide TMBP-18				
	@ ₹ 496=08/m³ — ₹				8,830=00
9/26	Plg & laying P.C.C M15 in open foundation				
13.54 m³,	vide TMBP-18				
	@ ₹ 5472=97/m³ — ₹				74,104=00
				C/O, ₹	33,42,577=00

Continuation

Sch. XLV-Form No. 134

Particulars	Details of actual measurement No.	L.	B.	D.	Contents of area
				B/F, Rs	33,42,157=00
10/27.	Brick masonry work in c.m (1:4) in Headwall & Parapet				
133.72 m³, vide TmBP-18					
	@ Rs 5397=99/m³-Rs				7,21,819=00
11/28.	Plv & Laying R.C.C pipe NP3 of dia 1000mm.				
37.50 m, vide TmBP-18					
	@ Rs 3581=59/m-Rs				1,34,310=00
12/29	Plastering with C.M (1:4) on brick work				
135.93 m², vide TmBP-18					
	@ Rs 146=84/m²-Rs				19,960=00
13/17	Plv & Fixing of typical mmcsy (NDB) informatory sign bxd with logo				
02 NOS, vide TmBP-19					
01 NO, vide TmBP-25					
03 NOS	@ Rs 9564=72/NO-Rs				28,694=00 19,129=00 MK
14/9	Plv, Laying, Spreading & Compacting of WBM-2				
504.71 m³, vide TmBP-19					
	@ Rs 3829=23/m³-Rs				19,32,651=00
				C/o, Rs	61,80,011=00

Sch. XLV-Form No. 134

Particulars	Details of actual measurement No.	L.	B.	D.	Contents of area
				B/F, B	61,80,011=00
15/7.	Construction of sub-grade & earthen shoulder				
1136.00 m³, vide TMBP–19					
141.60 m³, vide TMBP–27					
1277.60 m³					
	⑩ B	191=82/m³		— B	2,45,069=00
16/10	Plv & applying Prime coat with bitumen emulsion SS-1				
6120.00 m², vide TMBP–24					
	⑨ B	41=40/m²		— B	2,53,368=00
17/11.	Plv & applying tack coat with bitumen emulsion RS-1				
6120.00 m², vide TMBP–24					
	⑧ B	14=14/m²		— B	86,537=00
18/12	Plv, Laying & rolling of close graded Premix Surfacing material of 20 mm thick.				
6120.00 m², vide TMBP–24					
	⑦ B	214=00/m²		— B	13,09,680=00
				C/o. B	80,74,665=00

Sch. XLV-Form No. 134

Particulars	Details of actual measurement No.	L.	B.	D.	Contents of area
				B/F, B	80,74,665=00
19/13	Construction of un reinforced plain cement concrete Pavement as per technical specification				
97.83 m³, wide TMBP-25					
	@ B 7001=58/m³-B				6,84,965=00
20/14	Laying brick soling layer on prepared sub-grade				
80.00 m², wide TMBP-25					
	@ B 460=02/m²-B				36,802=00
21/15.	Plr & Supply of R.C.C M15 grade Kilometer stones				
03 Nos, wide TMBP-25					
	@ B 2255=32/No-B				6766=00
22/16	Plr & Supply of R.C.C M15 grade 200m stones				
07 Nos, wide TMBP-25					
	@ B 609=86/No-B				4269=00
				C/O, B	88,07,467=00

Sch. XLV-Form No. 134

Particulars	Details of actual measurement No.	L.	B.	D.	Contents of area
			B/F	Rs	88,07,467=00
23/19	Plr & laying of retro-reflectorised traffic sign board - 600mm equilateral triangle				
	08 Nos, vide TMRP-25				
	@ Rs 3630=92/No-Rs				29,047=00
24/19	600 mm Circular				
	06 Nos, vide TMRP-25				
	@ Rs 4643=20/No-Rs				27,859=00
25/20	600mm x 450mm rectangular				
	04 Nos, vide TMRP-25				
	@ Rs 4539=58/No-Rs				18,158=00
26/21	plr & laying of R.C.C mis grade boundary pillar				
	18 Nos, vide TMRP-25				
	@ Rs 525=66/No-Rs				9,462=00
27/22	Planting of trees by the road sides				
	150.00 Nos, vide TMRP-26				
	@ Rs 853=52/No-Rs				1,28,028=00
28/23	plr & laying of hot applied thermoplastic compound 2.5 mm thick				
	352.00 m^2, vide TMRP-26				
	@ Rs 721=98/m^2-Rs				2,54,137=00
				c/o Rs	92,74,158=20

Continuation

Sch. XLV-Form No. 134

Particulars	Details of actual measurement No.	L.	B.	D.	Contents of area
			B/F	₹	92,74,158.00
29/30	Painting two coats including prime coat				
135.93 m²	wide TMT-26				
	@ ₹ 140.63/m²			= ₹	19,116.00
			Total = ₹		92,93,274.00
	Less 18.64% (below)			– ₹	17,32,266.00
				₹	75,61,008.00
	Adding 12% (GST)			+ ₹	9,07,321.00
	Adding 1% L.Cess			+ ₹	75,610.00
	Adding S. Fee			+ ₹	1,27,937.00
			Total = ₹		86,71,876.00
(1st on A/C bill only.	Less Previous Payment			– ₹	32,33,436.00

Net Payable Amount = ₹ 54,38,440.00

(Rupees Fifty four lakh, thirty eight thousand, four hundred & forty) only.

22/11/22 (T.E)

A.C.

C&P

22.11.22