

HEAD - MMGSY-NDB
PARA NO - MMGSY-NDB-BRRP-446-SBPUR

Schedule XLV-Form No. 134

Name of work - power Grid To Barring
Musatara Jamhar

R. W. D. WORKS DIVISION

SIMRI Bakhtiyarpur

R. W. D. WORKS SUB-DIVISION

patarghat

MEASUREMENT BOOK

NO-821

Est on A/c bill

Name to 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.	
1) N/w :- Power Grid to Bhayna					
Mushawir Jamhara.					
2) Agency :- M/S Jawar Constn.					
Bahadurpur, Darbhanga,					
3) Agreement NO - 09 MBD/2023-2024					
4) D.O. commencement - 14/08/2023					
5) D.O. completion - 13/08/2024					
Item of work done -					
1) Providing & fixing					

working benchmark - 15.0 Nos.					
(2) Clearing and grubbing of road land.					
10x30x2x1.75	2			1050 m ²	
10x30x2x1.75	2			1050 m ²	
10x30x2x1.75	2			1050 m ²	
10x30x2x1.75	2			1050 m ²	
10x30x2x1.75	2			1050 m ²	
10x30x2x1.75	2			1050 m ²	
24x3x2x1.75	2			210 m ²	
1x2x1.75	2			3.50 m ²	
				6513.5 m ²	
				10000	
Continuation				20.65 Hect	

Particulars	Details of actual measurement			Contents of area
	No.	L.	B.	D.
[2] Dismentling of Existing structure.				
(i) P.C.C. -				
1x 2x 5.0 x 0.15 m ³ = 1.50 m ³				
(ii) RCC: -				
1x 2x 5.0 x 0.30 m ³ = 3.00 m ³				
(iii) Brick masonry.				
2x 5x 0.825 x 0.300 = 24.75 m ³				
[3] Contn of Box culvert (2x2m).				
[B] Excavation of fdn for CD work.				
- Box culvert -				
1x 6.0 x 3.50 x 0.65 = 13.65 m ³				
- Cut off wall -				
2x 3.50 x 1.30 x 1.80 = 16.38 m ³				
- Retain wall -				
4x 3.32 x 3.42 x 1.8 = 81.68 m ³				
				111.71 m ³
Qty for 03 Nos = 111.71 x 3 = 335.13 m ³				
[4] P.C.C. MIS in fdn.				
- Box culvert -				
1x 6x 2.50 x 0.100 = 1.50 m ³				
- Retain wall				
4x 3.32 x 2.42 x 0.200 = 6.42 m ³				
				7.92 m ³
Qty for 03 Nos = 7.92 x 3 = 23.76 m ³				

Continuation

Particulars	Details of actual measurement			Contents of area
	No.	L.	B.	
[5] PCC 1:2:0 in retaining wall -				
- $4 \times 0.92 \times (2.017 + 0.317) \times 1.317$				
- $4 \times 2.02 \times (2.017 + 1.317) \times 1.601$				
- Culvert wall -				
$2 \times 2.50 \times 0.300 \times 0.150$				2.25 m^3
Qty of 03 Nos			2×100.209	33.40 m^3
[6] Providing PCC 1:2:0 in Sub-structure.				
$4 \times 2.90 \times 0.78 \times 1.78$				16.29 m^3
Qty for 03 Nos			48.72	48.66
[7] Providing & fixing weep holes.				
- 36.0 Nos.				
Qty for 03 Nos CD:- 36 x 3 = 108 Nos.				
[8] Providing RCC in box culvert -				
- Bottom slab -				
$1 \times 6.0 \times 2.50 \times 0.25$			3.75	3.75 m^3
- Side wall				
$2 \times 6.0 \times 2.0 \times 0.25$			6.0	6.0 m^3
- Headch -				
$4 \times 6 \times 0.01$				0.24 m^3

Continuation

Qty for 03 Nos : 29.97 m^3 9.97 m^3

Particulars	Details of actual measurement				Contents of area
	No.	L	B	D.	
[9] S/F/placing of HYSD bars.					
- Main bars (12 @ 125 c/c)					
3.0 x 40 x 0.89 =					130.83 kg
- Main bars bottom - (12 @ 125 c/c)					
3 x 40 x 0.89 =					130.83 kg
- Distribution bars (10 @ 150 c/c)					
- 6.40 x 17 x 0.62 x 2 =					134.912 kg
					396.572 kg
for 3 faces =					396.572 x 3 = 1189.716 kg
Limit					860 kg = 0.86 MT.
Qty for 03 Nos =					1189.716 x 3 = 3569.14
Limit -					2.58 MT

[10] Back filling behind abutment.					
-	2 x	2.92	x 5.20	x 0.20 =	6.07 m ³
-	2 x	2.92	x 4.61	x 1.78 =	47.77 m ³
					53.84 m ³

[11] Providing filter media.					
- Behind box culvert wall					
2 x 4.61 x 0.60 x 1.70 =					9.40 m ³
- Behind Retaining wall -					
4 x 2.32 x 0.60 x 1.87 =					10.42 m ³
					19.82 m ³

[12] Qty for Backfilling =					
					53.84 m ³
					(-) 19.82 m ³
					34.02 m ³

Qty for Continuation 03 Nos = 03 x 34.02 = 102.07 m³

Particulars	Details of actual measurement				Contents of area
	No.	L.	B.	D.	
(13) S/L/playing of HXS					
DCS -					
- Main DCS (top) - 12@125dc					
3x 49x0.89 = 130.83 100					
- Main DCS (bottom) 12@125dc					
3x 49x 0.89 = 130.83 kg					
- Distribution main bar - (10@175dc)					
6.40x15x 0.62 x 2 = 119.04 kg					
					380.70 kg
					limit - 380.01g
					0.38MT
Qty for 03 Nos - 0.38x3 = 1.14 MT					
(14) Providing & laying RCC					
M25 in Super-Structure.					
- TOP slab -					
1x 2.50 x 6.0 x 0.25 = 3.75 m ³					
- Road kerb -					
2x 2.50 x 0.25 x 0.50 = 0.63 m ³					
					4.38 m ³
Qty for 03 Nos = 4.38x3 = 13.14 m ³					
(15) Providing & laying PCC					
M15 in Parapet consto.					
2x 8.54 x 0.60 x 0.40 = 4.0 m ³					
Qty for 03 Nos = 4x3 = 12.0 m ³					

Continuation

Particulars	Details of actual measurement			Contents of area
	No.	L.	B.	D.
[16] Providing drainage spouts - 04 Nos				
Qty for 03 Nos	3	4	12	0.10 Nos.
[17] Painting on parapet wall -				
- Top face - $2 \times 8.34 \times 0.40$				6.67 m^2
Side face - $4 \times 8.34 \times 0.60$				20.02 m^2
Front face - $4 \times 0.4 \times 0.60$				0.96 m^2
				27.65 m^2
Qty for 03 Nos	27.65	31		82.95 m^2
[18] Box cutting by mechanical means of solid pavement -				
- $10 \times 30 \times 2 \times 0.375 \times 0.100$				22.50 m^3
- $4 \times 30 \times 2 \times 0.375 \times 0.100$				9.0 m^3
$1 \times 16 \times 2 \times 0.375 \times 0.100$				1.20 m^3
				32.70 m^3
[19] Constr of Embankment with approved material obtained from borrow pit (lead 1000 m)				
611.98	0.80			489.58 m^3
[20] Constr of Embankment with approved material (lead 100 m)				
2447.85	0.80			1958.28 m^3

Continuation

Particulars	Details of actual measurement				Contents of area
	No.	L	B	D.	
[21] Contin of G.S.B by well					
Graded material. (for BT)					
10x 30x	4.050	x	0.200		243 m ³
10x 30x	4.050	x	0.200		243 m ³
10x 30x	4.050	x	0.200		243 m ³
10x 30x	4.050	x	0.200		243 m ³
4x 30x	4.050	x	0.200		170.10 m ³
1x 15x	4.05	x	0.200		12.15 m ³
					11854.25 m ³
- Ephem for widening on curves.					
3x12x1.65x	0.200				11.88 m ³
					1166.13 m ³

[22] @ Providing G.S.B in box cutting for pcc					
- 10x 30x	2x 0.375	x	0.100		22.50 m ³
4x 30x	2x 0.375	x	0.100		9.0 m ³
1x 16x	2x 0.375	x	0.100		1.20 m ³
					32.70 m ³
- Total Qty for G.S.B:					
For Profile correction.					
1x 30x	3.0x	0.100			9.0 m ³
1x 12x	3.0	x	0.100		3.6 m ³
					12.6
Total -	32.70 +	12.60			45.30 m ³

Chauhan
12/10/20
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Continuation

Particulars	Details of actual measurement			Contents of area
	No.	L.	B.	D.
	Abstract of cost			
[1/1] Rever guide to				
Setting out marking				
beach mark.				
Qty. 15.0 NOS (V.P. 1)				
@ 2964.07/each				₹ 44,461.00 ✓
[2/2] cleansing and grubbing				
of road land.				
Qty. 0.65 Hect (V.P. 2)				47254.00
@ 72697.86/Hect				₹ 47,326.00

[3/3] Dismantling of				
existing structure.				
Brick masonry -				
Qty. 24.75 m ³ (V.P. 2)				
@ 314.0/m ³ ✓				₹ 7779.00 ✓
[4/4] RCC -				
Qty. 3.0 m ³ (V.P. 2)				
@ 563.17/m ³ ✓				₹ 1690.00 ✓
[5/5] PCC - 1.9 m ³ (V.P. 2)				
@ 563.17/m ³ ✓				₹ 848.00 ✓
[6/6] Flt in excavation of				

Continuation

102095.00

102095.10

B/C - 102095.00

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102095.00

Particulars	Details of actual measurement			Contents of area
	No.	L.	B.	
fdn of C.D. work.				
Qty - 335.13 m ³ (V.P. 2)				
@ 410.660/m ³				₹ 1,37,624.00

(F1) Providing & laying

PCC M15 in form.

Qty - 23.76 m³ (V.P. 2)@ 8033.75/m³ — ₹ 1,90,810.00

(B1) Providing & laying

PCC M20 in sub. str.

Qty - 100.209 m³ (V.P. 3)

Amount - 100.209 m³

@ 8793.610/m³ — ₹ 8,81,120.00

(G1) Providing & laying

PCC M20 in Sub-structure

Qty - 48.72 m³ (V.P. 3)

@ 9117.06/m³ — ₹ 4,44,57.00

48.72

₹ 4,44,57.00

(O1) Providing weep holes

in pcc.

Qty - 108 Nos (V.P. 3)

@ 130.99/each — ₹ 14,147.00

(T1) Providing & laying

RCC in box culvert

Continuation

17,70,913.00

17,69,327.20

1789322210
B/C - 1770313.00

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Particulars	Details of actual measurement				Contents of area
	No.	L	B	D	
Qty - 29.97 m ³ (V.P. 3)	✓				
@ 9604.83/m ³	✓				2 287857.00 ✓
[12] s/f/placing of HYSD					
bars -	✓				
Qty - 0.58 MT (V.P. 4)					
@ 82165.40/MT	✓				2 211987.00 ✓
[13] Back filling & leveling					
aboutment ✓					
Qty - 102.07 m ³ (V.P. 4)	✓				99133.00
@ 971.290/m ³	✓				2 99153.00

[14] Providing & laying					
filter media.					
Qty. 53.84 55.46 m ³ (V.P. 4)					2282782.00
@ 4202.70/m ³	✓				2 249897.00
[15] Providing & laying					
RCC Mats in Super-SM					
Qty. 13.14 m ³ (V.P. 5)					
@ 10416.18/m ³	✓				2 136868.00 ✓
[16] s/f/placing of HYSD					
bars. in super structure -					
Qty - 1.14 MT ✓					
@ 89819.70/MT	✓				2 0555.00 ✓

Continuation

2851690.00

28827005.10

B/C - 2851690.00
11 2827052

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Particulars	Details of actual measurement				Contents of area
	No.	L	B	D	
[17] Consign of parapet at CD					
Qty - 12.0 m ³ (V.P. 6)					
@ 9117.06/m ³					₹ 109,405.00
[18] Painting on parapet wall of C.D.					
Qty - 82.95 m ² (V.P. 6)					
@ 196.83/m ²					₹ 19,521.09
[19] providing drainage spouts.					
Qty - 12.0 Nos (V.P. 6)					
@ 873.44/each					₹ 10,481.00
[20] Box cutting by manual means -					
Qty - 32.70 m ³ (V.P. 6)					
@ 103.85/m ³					₹ 3396.00
[21] Consign of Embankment with approved material obtained from borrow pit (lead 1000m)					
489.58 m ³ (V.P. 6)					
@ 247.40/m ³					₹ 1,26,018.00

Continuation

3411451.00
3086.8262

12 B/f - ~~3,114,51~~ .00

12 B/f - ~~3,114,51~~ .00

Continuation