

Agreement No. → 38 (SBD) / 20-21

Sri Rajeev Kumar

Ag No 38 (SBD) / 2020-21

Read House, Aligarh Panchayat Bhawda n to
N/1306, Aligarh Panchayat Bhawda n to
Kumhar Komhar Road

Schedule XIV-Form No. 134

Head-MMSY (Sc)

R. U. D (W) Jamun

DIVISION

Aligarh

SUB-DIVISION

MEASUREMENT BOOK

-2808

MBN-2808

Particulars	Details of actual measurement				Contents of area
	No.	L.	B.	D.	
Name of Road →	Aligarj Panchayat Bhowan to Konhar				
Agency →	Rajeev Kumar, K-125, PC Colony Hanuman Nagar, Kanakbag, Patna				
Block -	Aligarj				
Agreement No. -	38 (SBD) / 2020-21				
Dt of Commencement of Work -	13.08.2020				
Dt of Completion -	12.08.2021				
Agreement value -					
	Const Cost - Rs 1,58,79,898/-				
	Maint Cost - Rs 23,61,792/-				
	Total Rs 1,82,41,690/-				

(1) ~~Providing & fixing of working benchmarks~~
Pittas

3 km

(2) Construction of embankment with material obtained from borrow pits with a lift up to 1.5 m transporting to the side specially grading to require slope.

S.No.	chainage	Area	Mean Area	Distance	Volume
1	0	4.967	-	-	-
2	50	4.946	4.957	50.00	247.825 m ³
3	100	5.749	5.348	50.00	267.375 m ³
4	150	5.783	5.766	50.00	288.300 m ³
5	200	5.619	5.701	50.00	285.050 m ³

Qty - 1088.55 m³

Particulars	Details of actual measurement				Contents of area
	No.	L.	B.	D.	
			B/F	Bty	10032.00 m ³
58 2850	1.725	1.789	50	89.450 m ³	
59 2900	1.703	1.714	50	85.700 m ³	
60 2950	1.759	1.731	50	86.550 m ³	
61 3000	1.946	1.853	50	92.625 m ³	
			Bty	= 10386.325 m ³	
GSB GR-II - 1390.50 m ³ + 137.43 m ³ = 1527.93 m ³					
GSB GR-III - 483.16 m ³ + 368.98 m ³ = 852.14 m ³					
Sub grade - 3978.00 m ³ + 2241.71 m ³ = 6219.71 m ³					
earth shoulder + subgrade.					
PC.C -	787.68 m ³				787.68 m ³

earth embankment - 956.95 m³ (956.95 m³)

Total embankment → 10344.41 m³

Net E/W Bty = 10386.325 - 10344.41 = 41.92 m³

1000 mm lead = 27.66 m³

100 mm lead = 14.26 m³

2. Construction of 1000 mm ϕ HP Culvert

Earth work in excavation for foundation & structure

H.W $2 \times 6.450 \times 1.40 \times 1.500 = 27.090 \text{ m}^3$

Pipe $1 \times 4.850 \times 1.530 \times 0.365 = 2.708 \text{ m}^3$

29.798 m³

Particulars	Details of actual measurement				Contents of area
	No.	L.	B.	D.	
			BtF	Qty	10032 m ³
(3) Providing M-15 (PCC 1:2:5) in open foundation -					
H.W	2	6.450	1.400	0.150	= 2.709 m ³
Below pipe	1	4.931	1.530	0.250	= 1.886 m ³
				Qty	= 4.595 m ³
(4) Plain reinforced cement concrete (M-20) in substructure					
H.W	2	6.150	0.825	3.150	= 32.269 m ³
Parapet	2	6.150	0.400	1.100	= 4.920 m ³
				Qty	= 37.189 m ³
W.S for pipe	2	0.785	1.230	0.622	= 1.428 m ³
				Qty	= 35.711 m ³

(5) Providing & laying RCC pipe No. 3 for culvert on first class bedding of PCC M 10 material in single Row

$$3 \times 2.50 = 7.50 \text{ m}$$

(6) Painting on parapet wall (black & white strips) painting two coats including primer coat after filling the surface.

$$\text{Top } 2 \times 6.150 \times 0.400 = 4.920$$

$$\text{Side } 4 \times 6.150 \times 0.600 = 4.760$$

$$\text{Front } 4 \times 0.400 \times 0.600 = 0.960$$

$$\text{Qty} = 20.640 \text{ m}^2$$

Particulars	Details of actual measurement				Contents of area
	No.	L.	B.	D.	
(8) Providing & laying spreading and compacting stone aggregate of specific size of WBM					
Gr-II - do do all complete job.					
for BT portion					
1 X 15 X 6.05 X 0.075 =					6.81 m ³
10 X 30 X 3.75 X 0.075 =					84.37 m ³
10 X 30 X 3.75 X 0.075 =					84.37 m ³
1 X 15 X $\frac{6.00 + 5.90}{2}$ X 0.075 =					6.69 m ³
10 X 30 X 3.75 X 0.075 =					84.37 m ³
10 X 30 X 3.75 X 0.075 =					84.37 m ³
10 X 30 X 3.75 X 0.075 =					84.37 m ³
5 X 30 X 3.75 X 0.075 =					42.18 m ³
1 X 20 X 3.75 X 0.075 =					5.63 m ³
					Qty = 483.16 m ³
WBM Gr-II for C/C portion					
1 X 15 X 6.00 X 0.075 =					6.75 m ³
10 X 30 X 3.75 X 0.075 =					84.37 m ³
10 X 30 X 3.75 X 0.075 =					84.37 m ³
1 X 15 X 4.50 X 0.075 =					5.06 m ³
10 X 30 X 3.75 X 0.075 =					84.37 m ³
10 X 30 X 3.75 X 0.075 =					84.37 m ³
2 X 30 X 3.75 X 0.075 =					16.87 m ³
1 X 10 X 3.75 X 0.075 =					2.82 m ³
					Qty = 368.98 m ³
AB					
Major					
2B					

Continuation

Particulars	Details of actual measurement				Contents of area
	No.	L.	B.	D.	
⑨ Cement Concrete pavement (CC)					
Construction of un-reinforced plain					
Cement thickness over a prepared					
base with 43 grade cement					
M-30 grade - do - do all					
Complete job.					
	1	15	6.00	0.160	= 14.4 m ³
	10	30	3.75	0.160	= 180 m ³
	10	30	3.75	0.160	= 180 m ³
	1	15	4.70	0.160	= 11.28 m ³
	10	30	3.75	0.160	= 180 m ³
	20	30	3.75	0.160	= 180 m ³
	2	30	3.75	0.160	= 36.0 m ³
	1	10	3.75	0.160	= 6.0 m ³
					Qty = 787.68 m ³
⑩ Prime Coat (SS-1)					
Providing & applying primer					
Coat with bitumin emulsion					
(SS-1) on prepared surface - do					
- do all Complete job.					
	1	15	6.05		90.75 m ²
					56.25 m²
	10	30	3.75		1125.0 m ²
	10	30	3.75		1125.0 m ²
	1	15	$\frac{5.7+5.7}{2}$		85.50 m ²
	10	30	3.75		1125.0 m ²
					Qty = 3551.25 m ²

Continuation

Particulars	Details of actual measurement				Contents of area
	No.	L.	B.	D.	
(19) P/W & fixing of 60mm Circular	08 nos.				
(20) 800mm X 600mm Rectangles	12 nos				
(21) 600mm X 450mm Rectangles	08 nos.				
(22) P/W & Laying of hot applied thermoplastic compound 25 mm thick including reflectorising glass beads @ 250 gms per sq.m (Marking on B.T portion)					

2 X 30 X 30 X 0.100	=	60.00 m ²
2 X 10 X 30 X 0.100	=	60.00 m ²
2 X 10 X 30 X 0.100	=	60.00 m ²
2 X 10 X 30 X 0.100	=	60.00 m ²
2 X 10 X 30 X 0.100	=	60.00 m ²
2 X 5 X 30 X 0.100	=	30.00 m ²
2 X 1 X 30 X 0.100	=	6.00 m ²
2 X 1 X 20 X 0.100	=	4.00 m ²
		Qty = 340.00 m ²

(23)	Road marking on C.C portion			
	$2 \times 10 \times 30 \times 0.100$	$=$	60.00 m^2	
	$2 \times 10 \times 30 \times 0.100$	$=$	60.00 m^2	
	$2 \times 10 \times 30 \times 0.100$	$=$	60.00 m^2	
	$2 \times 10 \times 30 \times 0.100$	$=$	60.00 m^2	
	$\text{Qty} = 240.00 \text{ m}^2$			

Particulars	Details of actual measurement				Contents of area
	No.	L.	B.	D.	
			B/F	B/H	240.00 m ²
	2	3	30	0.100	= 18.00 m ²
	2	1	10	0.100	= 2.00 m ²
				B ty	= 260.00 m ²

(24) Reinforced cement concrete

M-15 grade boundary pillars

40 nos.

(25) P/V & erecting direction of

place identification retro

reflectors and sign

12 nos.

(26) P/V & fixing of of typical

MMGSY maintenance board

01 no.

AB
18-02-22
DB

~~18/02/22~~
A.E

Abstract of Cost

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Particulars	Details of actual measurement				Contents of area
	No.	L.	B.	D.	
(1/1) P/V & fixing of working benchmark pillars					
Qty vide Page no. (3) in TMB					
Item no. (1)					
		3KM			
@ 32813.540/KM				Rs	98,441.00
(2/2) Cleaning & Grubbing of Road					
land - do - do all complete job					
Qty vide Page no. (8) in TMB					
Item no. (2)					
		10499.44			
@ 51133.78/Hq				Rs	53,685.00
(3/3) Excavation of road way in					
soil using manual means earth					
embankment - do - do all complete jobs					
Qty vide Page no. (9) in TMB					
Item no. (3)					
		97.20 m ³			
@ 126.240/cum				Rs	12,271.00
(4/4) Construction of embankment					
with approved material deposit					
- do - do all complete jobs					
Qty vide Page no. (5) in TMB					
Item no. (4)					
		58.50 m ³			
@ 29.57/m ³				Rs	1730
				Rs	166,127.00

Continuation

Particulars	Details of actual measurement				Contents of area
	No.	L.	B.	D.	
			B/P	Pg	3,71,442=00
@ 4822.67/m ³		22.975 m ³		Pg	1,10,801200
(9/36) PCC Concrete (M-20) in					
Super structure do do all					
Complete job					
Bty vide page no (9)			142.844 m ³		
Bty vide page no. (18)			35.741 m ³		
			178.555 m ³		
@ 5953.81/m ³				Pg	10,63,083=00
(10/38) Providing & laying of pipe					
NP-3 for culvert for first					
class bedded do do all					
Complete job					
Bty vide page no. (9)			30.00 m		
Bty vide page no. (18)			7.50 m		
			Bty - 37.50 m		
@ 3411.480/m				Pg	1,27,929=00
(11/38) Painting on parapet wall					
(B&W) Paint two coats do					
do all complete jobs					
Bty vide page no. (9)			82.56 m ²		
Bty vide page no. (18)			20.64 m ²		
			103.20 m ²		
@ 97.19/m ²				Pg	10,030=00
(12/32) P/V & fixing of typical MMSY					
Board do do all complete jobs					
Bty vide page no. (9)			04		
Bty vide page no. (28)			01		
			05 no		
@ 9314.76/no.				Pg	46574=00
				Pg	17,29,859=00

Particulars	Details of actual measurement				Contents of area
	No.	L.	B.	D.	
			B/F	Rg.	49,59,654=00
(16/12) Plv & laying, spreading & compacting stone aggregate of specific size to WBM Gr-III - do - do - all complete job.					
Qty vide Page no. (20) in TMB item no. (16)					
852.14 m ³					
@ 2000.35/m ³				Rg.	17,04,578=00
(17/12) Plv & applying of prime coat with bituminous emulsion (SS-1) on prepared surface.					
Qty vide Page no. (22) in TMB item no. (17)					
6438.75 m ²					
@ 45.57/m ²				Rg.	2,93,411=00
(18/14) Plv & applying of tack coat with bituminous emulsion on prepared surface - do - do all complete job.					
Qty vide Page no. (22) in TMB item no. (18)					
6438.75 m ²					
@ 15.49/m ²				Rg.	99,736=00
				Rg.	70,57,382=00

Particulars	Details of actual measurement				Contents of area
	No.	L.	B.	D.	
			B/P	R/B	1,44,47,908=00
(27/26) 800 mm x 600 mm rectangular					
Qty vide Page no. (26) in TMB					
Item no. (27)					
@ 6582.68/mo.	12 nos.			R/B	78,992=00
(28/29) 600 mm x 450 mm rectangular					
Qty vide Page no. (26) in TMB					
Item no. (28)					
@ 4555.99/mo.	08 nos.			R/B	36,448=00
(29/29) P/V & applying of hot applied					
Thermo plastic compound 2.5 mm					
thick - do - do all complete					
Qty vide Page no. (26) in TMB					
Item (29) BT portion marking					
@ 735.44/m ²	340.00 m ²			R/B	2,50,050=00
(30/30) Road marking on C.C. portion					
Qty vide Page no. (27) in TMB					
Item no. (30)					
@ 835.34/m ²	260.00 m ²			R/B	2,17,188=00
(31/31) Reinforced cement concrete					
M-15 grade boundary Pillar					
Qty vide Page no. (27) in					
TMB Item no. (31)					
@ 484.52/mo.	40 nos.			R/B	19,381=00
(32/32) P/V & erecting direction of place					
identificatio retroreflectised					
sign					
Qty vide Page no. (27) in TMB					
@ 11653.19/mo	12 nos.			R/B	1,39,838=00
				R/B	1,51,89,805=00

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