M.R-N/19-20

Name of Road – Repair & five year maintenance of Road from Peli Masaurhi to Jaijaredih

Measurement Book

Schedule XLV-Form No. 134

Block – Dulhin Bazar

Division – Paliganj DIVISION

Contractor – M/S Subhash Kumar
Ni – Asjura. Bikram

Name of AE – Sri Kaushelandra Kumar Pandey SUB-DIVISION
– Dulhin Bazar

No. of Pages – 580.

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19,26,814=00

Particulars	Details of actual measurement				Contents of area
	No.	L.	B.	D.	
MMGSY sign Board					
16/ Pro/fixing of Typical					
MMGSY informatary					
Sign Board do-do					
3 No vide item No-1 P-01					
@ 11809.51 each Rs					35,429=00
					19,62,243=00
Less 10% Below as					
Per agree				(−)	196224=00
					17,66,019=00
1% Labour cess				(+)	17660=00
		12% GST		(+)	2,11,922=00
Ch 12.06.2020 I.E					19,95,606=00

Material statement					
Stone agg 26.5 mm to 9.5 mm – 29.5 m³ @ Rs 404.63/m³ Rs					11936=00
9.5 mm to 2.36 mm – 21.0 m³ @ Rs 614.17/m³ – Rs					12,898=00
Local sand – 33.60 m³ @ Rs 116.85/m³ Rs					3926=00
63 mm to 45 mm – 68.01 m³ @ 427.69/m³ –					29,087=00
Screening material – 48.54 m³ @ Rs 345.52/m³ Rs					16772=00
53 mm to 22.4 mm stone – 161.65 m³ @ Rs 458.22/m³ Rs					74071=00
Stone 13.2 to 0.09 mm – 17.83 m³ @ 642.67/m³ – Rs					11497=00
Stone 9.5 to 4.75 mm – 71.00 m³ @ 614.17/m³ – Rs					43,606=00
4.75 mm & below – 51.05 m³ @ 411.33/m³ – Rs					20,998=00
Bitumen emulsion SS1 – 1.513 MT					
Rs					

Continuation

Particulars	Details of actual measurement				Contents of area
	No.	L.	B.	D.	
~~9X~~	9X	2.28	X 2.95	=	60.53 m^2
	4X	2.91	mX 1.7m	=	19.79 m^2
	5X	3.17	mX 3.15m	=	49.93 m^2
	8X	0.76	mX 3.26m	=	19.82 m^2
	15X	2.85	mX 2.43m	=	103.88 m^2
	12X	0.69	mX 2.06m	=	17.06 m^2
	8X	2.02	mX 3.35m	=	54.13 m^2
		(A)			656.03 m^2
	3No	X 30.0m	X 3.75m	=	337.5 m^2
	2No	X 30.0m	X 3.75m	=	225.00 m^2
	2No	X 30.0m	X 3.75m	=	225.00 m^2
	3No	X 30.0m	X 3.75m	=	337.50 m^2
		(B)			1125.00 m^2

Total A + B

656.03 m^2 + 1125.00 m^2

= 1781.03 m^2

8/8 ~~Tack coat~~

~~Providing & applying Tack~~

~~Coat with Bituminous emulsion~~

~~Rate do - do~~

~~Hyderabad Schedule - 7/7 P-06~~

1781.03 m^2

8/9 ~~Tack Coat~~

~~Providing & applying~~ Tack coat with Bituminous emulsion Rate do - do

Hyderabad Schedule - 7/7 P-06

1781.03 m^2

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Particulars	Details of actual measurement				Contents of area
	No.	L.	B.	D.	
6/6 Providing, laying, spreading & comparting stone aggregate to Water Bound Macadam Grading - 03 do - do					
	5 x	1.17m	x 1.83m	x 0.075	= 0.8 m³
	8 x	0.99m	x 1.94m	x 0.075	= 1.15 m³
	13 x	2.00m	x 2.07m	x 0.075	= 4.04 m³
	9 x	2.35	x 1.28m	x 0.075	= 2.03 m³
	15 x	2.30	x 2.93m	x 0.075	= 7.74 m³
	2 x	1.5m	x 1.92	x 0.075	= 0.43 m³
	4 x	1.6m	x 0.69	x 0.075	= 0.33 m³
	4 x	3.24	x 1.66	x 0.075	= 1.61
	2 x	0.88m	x 1.5m	x 0.075	= 0.20 m³
	5 x	1.64m	x 3.19m	x 0.075	= 1.96 m³
	5 x	2.84m	x 1.11m	x 0.075	= 1.18 m³
	8 x	2.67m	x 0.93m	x 0.075	= 1.49 m³
	3 x	2.77m	x 2.87	x 0.075	= 1.85 m³
	9 x	2.28m	x 2.95	x 0.075	= 4.54 m³
	4 x	2.91m	x 1.70	x 0.075	= 1.48 m³
	5 x	3.17m	x 3.15m	x 0.075	= 3.74 m³
	8 x	0.76m	x 3.26	x 0.075	= 1.49 m³
	15 x	2.85m	x 2.43	x 0.075	= 7.79 m³
	12 x	0.69m	x 2.06	x 0.075	= 1.28 m³
	8 x	2.02m	x 3.35	x 0.075	= 4.06 m³
			(A)		49.219 m³

Continuation

Sch. XLV-Form No. 134

Particulars	Details of actual measurement				Contents of area
	No.	L.	B.	D.	
3/2 Scarifying existing Bituminous Surface do – do					
	2	x 20.0m	x 3.75 m	=	150.00m²
	2	x 30.0m	x 3.75 m	=	225.00m²
					375.00m²
4/4 Construction of Granular Sub base by Providing Well graded Material, Spreading etc – do					
	3Nos	x 1.18m	x 1.61m x 0.175	=	1.0m³
	10Nos	x 3.50	x 1.18 x 0.175	=	7.23m³
	4Nos	x 3.07	x 1.28 x 0.175	=	2.75m³
	11Nos	x 2.23	x 0.86 x 0.175	=	3.69m³
	14Nos	x 4.00m	x 1.09 x 0.175	=	10.68m³
	7Nos	x 2.58m	x 1.31 x 0.175	=	4.14m³
	11Nos	x 2.36m	x 1.34 x 0.175	=	6.09m³
	9Nos	x 2.42m	x 0.68 x 0.175	=	2.59m³
	14Nos	x 1.34m	x 0.69 x 0.175	=	2.27m³
	3Nos	x 4.66m	x 1.34 x 0.175	=	4.75m³
	9Nos	x 5.12m	x 1.48 x 0.175	=	11.93m³
	6Nos	x 3.66m	x 1.72 x 0.175	=	3.00m³
	6Nos	x 0.84m	x 1.62 x 0.175	=	1.43m³
	3Nos	x 4.66m	x 1.16 x 0.175	=	2.84m³
	7Nos	x 3.65m	x 1.43 x 0.175	=	6.39m³
	Limit to 55.62 m³				70.88m³

Continuation

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 No.	L.	B.	D.	Contents of area
Name of work - Repair & maintence of Road from Pali Masurahi Path to Jiayeedih under Dulhin Bazar Block - Dulhin Bazar					
Contractor - M/s Subodh Kumar At - Asbura, Bikram Dist. Patna					
Agreement No - 02/MAD/2019-20					
Date of commencement - 25.10.2019					
Date of completion - 24.07.2020					
1/ Providing & fixing Logo MMGSY informatory Sign Board do-do 2 + 1 = 3 No					
2/1 clearing & Grubbing Road land do-do					
	2	10	30.0m	1.0m	= 600.00 m^2
	2	10	30.0 m	1.00m	= 600.00 m^2
	2	6	30.0 m	0.80m	= 288.00 m^2
	2	2	30.0 m	0.800	= 96.00 m^2
					1584.00 m^2
1584.00 / 10,000					= 0.16 Hectare

Continuation

Particulars	Details of actual measurement No.	L.	B.	D.	Contents of area
5/5 Providing, laying, spreading & compacting stone aggregate to WBM Grading-02					
~~3No x 1.78m x 1.6m x 0.175 =~~					
7No x 5.04m x 2.09 x 0.075 =					5.53m³
1No x 0.84m x 1.55 x 0.075 =					0.10m³
4No x 3.97m x 1.59 x 0.075 =					1.89m³
3No x 3.78m x 1.48 x 0.075 =					1.26m³
5No x 3.12m x 1.95 x 0.075 =					2.28m³
7No x 4.28m x 2.54 x 0.075 =					5.71m³
5No x 5.77m x 1.45 x 0.075 =					3.14m³
14No x 0.64m x 0.76 x 0.075 =					0.51m³
14No x 2.17m x 1.00 x 0.075 =					2.28m³
2No x 5.04m x 1.29 x 0.075 =					0.98m³
3No x 1.58m x 1.12 x 0.075 =					0.40m³
13No x 2.81m x 2.37 x 0.075 =					6.49m³
15No x 4.67m x 2.53 x 0.075 =					13.29m³
6No x 4.80m x 1.95 x 0.075 =					4.21m³
9No x 4.54m x 1.50 x 0.075 =					4.60m³
7No x 4.39m x 1.18 x 0.075 =					2.72m³
6No x 3.80m x 0.77 x 0.075 =					1.32m³
12No x 2.51m x 2.24 x 0.075 =					5.06m³
					61.77m³
Limit to = 56.350m³					
12.05.2025					

Particulars	Details of actual measurement				Contents of area
	No.	L.	B.	D.	
Continue from No - 86					
	3X	30.0m	X 3.75	X 0.075	= 25.31 m^3
	2X	30.0m	X 3.75	X 0.075	= 16.88 m^3
	2X	30.0m	X 3.75	X 0.075	= 16.88 m^3
	3X	30.0m	X 3.75	X 0.075	= 25.31 m^3
			(B)		84.38 m^3
Total C.B		A + B			
		= 49.219 m^3 + 84.380 m^3			
		= 133.599 m^3			
7/7 Prime coat					
Providing & applying Prime Coat with bitumen					
emulsion SS, do-do					
	5X	1.17m	X 1.83m	= 10.70 m^2	
	8X	0.99m	X 1.94m	= 15.36 m^2	
	13X	2.00m	X 2.07m	= 53.82 m^2	
	9X	2.35m	X 1.28m	= 27.07 m^2	
	15X	2.32m	X 2.99m	= 103.15 m^2	
	2X	1.5m	X 1.92m	= 5.76 m^2	
	4X	1.6m	X 0.69m	= 4.42 m^2	
	4X	3.24m	X 1.66m	= 21.51 m^2	
	2X	0.88m	X 1.50m	= 2.64 m^2	
	5X	1.64m	X 3.19m	= 26.16 m^2	
	5X	2.84m	X 1.11m	= 15.76 m^2	
	8X	2.67m	X 0.93m	= 19.86 m^2	
	3X	2.77m	X 2.97m	= 24.68 m^2	
				330.89 m^2	

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Particulars	Details of actual measurement				Contents of area
	No.	L.	B.	D.	
9/8	Patch Repairing Mix Seal Surf. Prd/laying & rolling of close graded mix Seal surfacing of 20 mm thickness do - do				
	5 No	1.17 M	1.83 M	=	10.70 M²
	8 No	0.99 M	1.94 M	=	15.36 M²
	13 No	2.0 M	2.07 M	=	53.82 M²
	9 No	2.35 M	1.28 M	=	27.07 M²
	15 No	2.30 M	2.99 M	=	103.15 M²
	2 No	1.50 M	1.92 M	=	5.76 M²
	4 No	1.6 M	0.63 M	=	4.42 M²
	4 No	3.24 M	1.66 M	=	21.51 M²
	2 No	0.88 M	1.50 M	=	2.64 M²
	5 No	1.64 M	3.10 M	=	26.16 M²
	5 No	2.84 M	1.11 M	=	15.76 M²
	8 No	2.67 M	0.93 M	=	19.86 M²
	3 No	2.77 M	2.97 M	=	24.68 M²
	9 No	2.28 M	2.95 M	=	60.53 M²
	4 No	2.91 M	1.70 M	=	19.79 M²
	5 No	3.17 M	3.15 M	=	49.93 M²
	8 No	0.76 M	3.26 M	=	19.82 M²
	15 No	2.85 M	2.43 M	=	103.88 M²
	12 No	0.69 M	2.06 M	=	17.06 M²
	8 No	2.02	3.35 M	=	54.13 M²
	3 No	30.0 M	3.75 M	=	337.5 M²
	2 No	30.0 M	3.75 M	=	225.00 M²
	2 No	30.0 M	3.75 M	=	225.00 M²
	3 No	30.0 M	3.75 M	=	337.50 M²
					1781.03 M²

Limit to 662.810 M²

Continuation

Particulars	Details of actual measurement No.	L.	B.	D.	Contents of area
10/8 Tack Coat.					
Providing & applying Tack Coat with Bitumen emulsion					
@ Rs/ do - do					
	1 ×	11.0m ×	$\frac{8.70+3.75}{2}$		= 68.48 m²
	10 No ×	30.0m ×	3.75 m		= 1125.00 m²
	10 No ×	30.0m ×	3.75 m		= 1125.00 m²
	1 No ×	30.0m @	3.75 m		= 112.50 m²
	1 No ×	25.0m ×	3.75 m		= 93.75 m²
	~~1 × 2~~	~~30.0m~~ TP	~~× 3.75 m²~~		
	1 No ×	30.0m ×	$\frac{2.90+3.30}{2}$		= 93.0 m²
	1 No ×	14.0m ×	3.70 m		= 51.80 m²
	1 No ×	24.0m ×	$\frac{3.40+2.90}{2}$		= 75.60 m²
	5 No ×	30.0m ×	3.75 m		= 562.50 m²
	1 No ×	20.0m @	3.70 m		= 74.00 m²
	1 No ×	8.0m ×	$\frac{3.70+3.10}{2}$		= 27.2 m²
					3408.83 m²
TP/10 Semi Dense Bituminous					
Providing & laying Semi Dense bituminous concrete					
using crushed aggregate @ do					
	1 × 11.00m ×	$\frac{8.70+3.75}{2}$	× 0.025		= ~~68.48 m²~~ 1.71 m³
	10 No ×	30.0m ×	3.75 m	× 0.025	= ~~1125.00 m³~~ 28.13 m³
	10 No ×	30.0m ×	3.75 m	× 0.025	= ~~1125.00 m³~~ 28.13 m³
	1 No ×	30.0m ×	3.75 m	× 0.025	= ~~112.50 m³~~ 2.81 m³
	1 No ×	25.0m ×	3.75 m	× 0.025	= ~~93.75 m³~~ 2.34 m³

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Particulars	Details of actual measurement				Contents of area
	No.	L.	B.	D.	
	1No	x 30.0m	x 2.30+3.30 / 2	x 0.025	= 33.00m² = 2.33m³
	1No	x 14.00m	x 3.70	x 0.025	= 51.80m² = 1.30m³
	1No	x 24.0m	x 3.40+2.90 / 2	x 0.025	= 75.60m² = 1.89m³
	5No	x 30.0m	x 3.75	x 0.025	= 562.50m² = 14.06m³
	1No	x 20.0m	x 3.70	x 0.025	= 74.00m² = 1.85m³
	1No	x 8.0m	x 3.70+3.10 / 2	x 0.025	= 27.20m² = 0.68m³
					= 3408.83m² / 85.23m²
12/11	Reinforced cement concrete M15 grade Kilometer stone 2 Nos				
13/12	R.C.C 200mm Kotom stone (Precast) 4 Nos				
14/13	Painting of retro-reflectorised cautionary information sign 600mm equilateral Triangle 6 Nos				
15/	600mm circular 2 Nos				
16	600mm x 450mm rectangle 2 Nos				
17/3	cost of Sub grade do-do				
	2x2 1No	x 30.0m	x 4.00m	x 0.300	= 378.0m³
	2x6 No	x 30.0m	x 1.00	x 0.300	= 108.0m³
					486.0m³

12.06.2020

Particulars	Details of actual measurement No.	L.	B.	D.	Contents of area
1/2 clearing & grubbing road land do -do					
0.16 Hectare vide item No - 2 P-01					
@ 49524.68/Hec — Rs					7,924=00
2/3 scarifying the existing bituminous road surface					
do -do					
375.00 m^2 vide item no - 3 P-02					
@ 15.32/m^2 — — Rs					5745=00
3/3 construction of subgrade & earthen shoulder do-do					
486.00 m^3 vide item No - 3 P-09					
@ 161.23/m^3 — Rs					78358=00
4/4 Const of Granular Sub base by Providing Well graded Material do-do					
~~65.62~~ 70.88 m^3 vide item No - 4 P-02					
@ 1881.51/m^3 —					133465=00
5/5 W.B.M Sec-B Pro/lay/spreading & Compacting Stone aggregate do-do					
56.25 m^3 vide item No - 5 P-03					
@ 3521.29/m^3 — Rs					198073=00
					413565=00
12.9.2020					

Sch. XLV-Form No. 134 BF Rs 413565=00

Particulars	Details of actual measurement No.	L.	B.	D.	Contents of area
6/6 W.B.M Gr-3 Providing, laying, spreading & Compacting stone aggregate to W.B.M Gr-III do-do 133.599 m^3 vide item No-6 P-5 @ 3271.64/m^3 — Rs					4,37,088=00
7/7 Prime coat Providing & applying Primer Coat with bitumen emulsion SS, do-do 1781.03 m^2 vide item No-7 P-26 @ 41.51/m^2 — Rs					73,931=00
8/8 Tack coat Providing & applying Tack Coat with Bitumen emulsion RS; do-do 1781.03 m^2 vide item No-8 P-6 3408.83 m^2 vide item No-10 P-8 5189.86 m^2 @ 14.08/m^2 — Rs					73,073=00
9/9 M.S.S Providing & rolling close graded mixed premix Surfacing material 20mm thick 1781.03 m^2 vide item No-9 P-7 562.810 @ Rs 187.08/m^2 — Rs					123,998=00
					1121655=00

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Particulars	Details of actual measurement No.	L.	B.	D.	Contents of area
10/ S.D.B.C Prep/laying Semi dense bituminous concrete do-do 85.23 m^3 vide item No-11 P-09 @ 8919.43/m^3 — Rs					7,60,203=00
11/11 Reinforced cement conc M15 grade Kilometre stone 2 No vide item No-12 P-09 @ 2093.27/each — Rs					4187=00
12/12 Rcc room stone (Precast) 4 No vide item No-13 P-09 @ 599.04 each — Rs					2396=00
13/13 Retro-reflectorized Traffic Signs 600 mm equilateral Triangle 6 No vide item No-14 P-09 @ 3385.70 each — Rs					20,314=00
14/14 600 mm circular 2 No vide item No 15 P-09 @ 4575.66 each — Rs					9151=00
15/15 600 mm x 450 mm rectangular do-do 2 No vide item No-16 P-09 @ 4454.85 each Rs					8,908=00
					19,26,814=00