पत्रांक:— O2 Camp Patna   दिनांक:— 24.12.2020

प्रेषक:— अधीक्षण अभियंता
ग्रामीण कार्य विभाग कार्य अंचल
समस्तीपुर

सेवा में,
मुख्य अभियंता 4,
ग्रामीण कार्य विभाग, बिहार पटना

विषय:— नाबार्ड संपोषित पथ, Toi to Kashmiler Pokhar Road.

प्रसंग:— कार्यपालक अभियंता, ग्रामीण कार्य विभाग कार्य प्रमंडल वैशाली, पत्रांक 964 अनु0 19.10.2020, पत्र 23.12.2020.

महाशय,
उपरोक्त विषय के सम्बन्ध में निदेशानुसार सूचित करना है कि उपरोक्त पथ के प्राक्कलन पर संशोधन, लागत [illegible], तकनीकी अनुमोदन प्रदान कर प्रशासनिक स्वीकृति हेतु अग्रेतर कार्यालय में समर्पित किया जाता है।

विश्वासभाजन

24.12.2020
24.12.2020
अधीक्षण अभियंता
ग्रामीण कार्य विभाग
कार्य अंचल, समस्तीपुर

Flood Damaged Repair estimate for the road from TOI to Kasim-Pur pangsy Path for the year 2020

① Construction of embankement with appr. Quality of material.

CH. 5200 – 6200 = 1000 m.

1 × 1000m × av 7.0m × av 0.600 = 4200.0 m³

for Diversion – 1 × 100m × av 7.0m × av 0.600 = 420.0 m³

cutting near Kasimpur –

1 × 50.0m × 7.0 av × 2 av m = 700.0 m³

5320.0 m³

~~1000 m lead. Qnty: 3724 m³ @ Rs 162.67/m³ Rs 605783.00~~

~~1000 m lead. Qnty: 1596 m³~~ 5320.0 m³ @ Rs 190.36/m³ 173 = 66/M3 Rs 303815.00 9,20,679 = 00

② Supplying and filling brick bat with all complete 5th.

1 × 50.0 × 3.25 × av 0.750 = 121.875 m³

1 × 8.0 × 2.50 × av 0.300 = 6.00 m³

1 × 5.0 × 3.0 × av 0.300 = 4.50 m³

1 × 12.0 × 2.5 × av. 0.300 = 9.00 m³

1 × 10.0 × 3.0 × av. 0.300 = 9.00 m³

1 × 40.0 × 3.0 × av. 0.400 = 48.00 m³

1 × 20.0 × 2.5 × av 0.300 = 15.00 m³

1 × 40.0 × 3.05 × 0.350 = = 42.70 m³

1 × 20.0 × 3.05 × 0.300 = 18.30 m³

1 × 40.0 × 3.00 × 0.300 = 36.00 m³

1 × 30.0 × 3.25 × 0.300 = ~~29.25 m³~~ 29.25

1 × 100.0 × 3.25 × 0.300 = 97.50 m³

4 × 15.0 × 3.05 × 0.400 = 73.20 m³

510.325 m³

8,57,326 = 00

@ Rs 1810.98/m³ Rs 924188.00

1680 = 62/M3

③ Construction of GSB with all complete 5th.

Diversion – 1 × 60.0 × 3.250w × 0.150av = 29.25 m³

47175 = w

@ Rs 1700.00/m³ Rs 49728.00

1612 = 82 18,25,780 = w

Rs 1883514.00

Add Labour cess @ 1% Rs 18835.00 1825 = 00

Add GST. @ 12% Rs 226022.00 2,19,022 = 00

Rs 2128371.00

20,62,454 = 00

Say 20,62,500 = 00 approved

19/10/20

J.E. Matihani

A.E. Matihani

E.E. R&B Begusarai

Technically Approved for Rs 20,62500=00
Say Twenty lakh, Sixty two thousand and five Hundred Only.

24.12.2020

अधीक्षण अभियंता
ग्रामीण कार्य विभाग
कार्य अंचल, समस्तीपुर

24.12.2020

39	4.10	401	**Granular Sub-base with Well Graded Material (Table 400.1)** **(By mix in place method) For Grading II Material** Construction of granular sub-base by providing well graded material, spreading in uniform layers with motor grader on prepared surface, mixing by mix in place method with rotavator at OMC, and compacting with smooth wheel roller to achieve the desired density, complete as per Technical Specification Clause 401.				
		(ii)	**For Grading II Material**				
			Unit = cum				
			Taking output = 300 cum				
		a)	**Labour**				
			Mate	day	0.48	305.00	146.40
			Mazdoor (Skilled)	day	2.00	364.00	728.00
			Mazdoor (Unskilled)	day	10.00	287.00	2870.00
		b)	**Machinery**		6.0		
			Tractar mounted grader arrangement for grading @ 100 cum per hou	hour	12.00	573.20	6878.40
			Three wheel 80-100 kN static roller @ 10 cum per hour	hour	30.00	803.00	24090.00
			Tractor with Rotavator 25 cum per hour	hour	12.00	573.20	6878.40
			Water tanker 6 kl capacity	hour	5.00	184.00	920.00
		c)	**Material**				
			Well graded granular sub-base material as per Table 400.1				
			26.5 mm to 9.5 mm @ 35 per cent	cum	134.40	604.91	81299.90
			9.5 mm to 2.36 mm @ 25 per cent	cum	96.00	514.58	49399.68
			2.36 mm below @ 40 per cent - Local Sand	cum	153.60	141.85	21788.16
			Water	kl	30.00	40.00	1200.00
		d)	Overheads @ 6 % on (a+b+c)				11771.94
		e)	Contractor's profit @ 10% on (a+b+c+d)				20797.09
			Cost of GSB for 300 cum				228767.97
			A) Cost of GSB without carriage per cum	cum			762.56
		f)	***CARRIAGE***				
			Carriage for GSB material	Cum	0.768	1149.58	882.88
			Carriage for material below 2.36 mm (Local Sand)	Cum	0.512	106.74	54.65
			Rate per cum with carriage				1700.09
			Total Cost	**CUM**			1700.09

Executive Engineer
(W) Division
Begusarai

		Rate per cum = (a+b+c+d)/360					75.57
		Total Cost	**CUM**				**75.57**
3.40	**302**	**Construction of Embankment with Material Obtained from Borrow Pits**					
	(A)	Construction of embankment with approved material obtained from borrow pits with a lift upto 1.5 m, transporting to site, spreading, grading to required slope and compacting to meet requirement of Tables 300.1 and 300.2 with a ***lead upto 1000 m*** as per Technical Specification Clause 301.5					
		Unit = cum					
		Taking output = 100 cum					
	a)	Labour					
		Mate	day	0.04	305.00		12.20
		Mazdoor (Unskilled)	day	1.00	287.00		287.00
	b)	Machinery					
		Hydraulic Excavator 0.9 cum bucket capacity @ 60 cum per hour	hour	1.67	1969.20		3288.56
		Tipper 5.5 cum with 10 t capacity	hour	4.50	1043.00		4693.50
		Add 10 % of the cost of carriage by tipper					469.35
	c)	Material					
		Water	kl	12.00	40.00		480.00
		Compensation for earth taken from private land	cum	100.00	34.81		3481.00
	d)	Overheads @ 6 % on (a+b+c)					979.53
	e)	Contractor's profit @ 10% on (a+b+c+d)					1730.50
		Cost for 100 cum = a+b+c+d+e					19035.55
		Rate per cum = (a+b+c+d+e)/100=					190.36
		Total Cost	**CUM**				**190.36**
3.40	**302**	**Construction of Embankment with Material Obtained from Borrow Pits**					
		Construction of embankment with approved material obtained from borrow pits with a lift upto 1.5 m, transporting					

19/10/20

19.10.2020
Executive Engineer
R.W.D. (W) Division
Begusarai