

## **RATE ANALYSIS ID NO: 172743, Package No. e-GP/23/ACE Khu/2017-2018**

Name of Work : Periodic Maintenance Programme (PMP) of Partly Strengthening with Base Type-1, DBS-Base Course & DBS-Wearing Course from Ch. 48+750 to 50+550 & Ch. 54+100 to 62+800 of Jhenaidah-Kushtia-Pakshi Ferry-Dasuria Road (N-704) under Road Division, Kushtia during the year 2017-2018.

### **RATE ANALYSIS**

**Item Code** 01/02/04  
**Item Name** Provision, Maintenance and Removal of Sign Boards  
**Unit of Measurement** Lump Sum  
**Quantity for Estimation** 1.00

(All Prices Are in Taka)

<b>Specification Item Components</b>						
	Item Name	Unit of Measurement	Unit Rate	Quantity Required	Price for Estimation Quantity	Unit Price
Item Category	Primary Item					
Item Type	Material					
	Provision, maintain & remove Signs	month	7,000.00	1.00	7,000.00	7,000.000
Basic Unit Price of Specification Item :						7,000.000
Plus Profit at :						9.72% 680.400
Sub-Total :						7,680.400
Plus Tax & VAT at 12.3596% :						949.267
Total Unit Price of Specification Item :						8,629.667

**Item Code** 01/01/02  
**Item Name** Provision for Maintain Temp.Structures & Equipment for the Maintenance and Protection of Traffic  
**Unit of Measurement** day  
**Quantity for Estimation** 1.00

(All Prices Are in Taka)

<b>Specification Item Components</b>						
	Item Name	Unit of Measurement	Unit Rate	Quantity Required	Price for Estimation Quantity	Unit Price
Item Category	: Primary Item					
Item Type	: Equipment					
	Small hand tools (2)	day	10.00	3.00	30.00	30.00
Item Type	: Labour					
	Unskilled labourer	day	400.00	3.00	1,200.00	1,200.00
Item Type	: Material					
	Petrol	ltr	87.00	3.09	268.92	268.92
Basic Unit Price of Specification Item :						1,498.92
Plus Profit at :						9.85% 147.643
Sub-Total :						1,646.560
Plus Tax & VAT at 12.3596% :						203.508
Total Unit Price of Specification Item :						1,850.069

**Item Code** 01/02/07  
**Item Name** Progress Photographs  
**Unit of Measurement** Month  
**Quantity for Estimation** 1.00

(All Prices Are in Taka)

<b>Specification Item Components</b>						
	Item Name	Unit of Measurement	Unit Rate	Quantity Required	Price for Estimation Quantity	Unit Price
Item Category	Primary Item					
Item Type	Equipment					
	Progress Photographs	month	1,000.00	1.00	1,000.00	1,000.000
Basic Unit Price of Specification Item :						1,000.000
Plus Profit at :						10.00% 100.000
Sub-Total :						1,100.000
Plus Tax & VAT at 12.3596% :						133.000
Total Unit Price of Specification Item :						1,233.000

Signed  
A.A.M.  
কাজী আব্দুল্লাহ আল-মামুন  
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সড়ক পরিবহন ও যান্ত্রিক বিভাগ  
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গণপ্রজাতন্ত্রী বাংলাদেশ সরকার

Item Code 01/03/01  
Item Name Provide and Remove Site Laboratory & Equipment  
Unit of Measurement Lump Sum  
Quantity for Estimation 1.00

(All Prices Are in Taka)

Specification Item Components						
	Item Name	Unit of Measurement	Unit Rate	Quantity Required	Price for Estimation Quantity	Unit Price
Item Category	Primary Item					
Item Type	Equipment					
	Site Laboratory	lump sum	251,000.000	1.00	251,000.00	251,000.000
Basic Unit Price of Specification Item :						251,000.000
Plus Profit at : 9.900%						24,849.000
Sub-Total :						275,849.000
Plus Tax & VAT at 12.3596% :						34,093.833
Total Unit Price of Specification Item :						309,942.833

Item Code 01/03/02  
Item Name Maintain Site Laboratory  
Unit of Measurement Month  
Quantity for Estimation 1.00

(All Prices Are in Taka)

Specification Item Components						
	Item Name	Unit of Measurement	Unit Rate	Quantity Required	Price for Estimation Quantity	Unit Price
Item Category	Primary Item					
Item Type	Labour					
	Maintenance of Site Laboratory	month	7,000.00	1.00	7,000.00	7,000.000
Basic Unit Price of Specification Item :						7,000.000
Plus Profit at : 9.95%						696.500
Sub-Total :						7,696.500
Plus Tax & VAT at 12.3596% :						951.257
Total Unit Price of Specification Item :						8,647.757

Item Code 02/10/01  
Item Name Construction of Soil Earthen Shoulders  
Unit of Measurement cu metre  
Quantity for Estimation 10.00

(All Prices Are in Taka)

Specification Item Components						
	Item Name	Unit of Measurement	Unit Rate	Quantity Required	Price for Estimation Quantity	Unit Price
Item Category	Primary Item					
Item Type	Equipment					
	Small hand tools (1)	day	10.00	4.33	43.30	4.330
	Vibratory roller (1-3 tonne)	day	1,500.00	0.04	60.00	6.000
Item Type	Labour					
	Semi-skilled labourer	day	450.00	0.33	148.50	14.850
	Unskilled labourer	day	400.00	2.56	1,022.00	102.200
Item Type	Material					
	Imported suitable bulk fill (off site)	cu. metre	60.00	9.25	555.00	55.500
	Water	cu. metre	10.00	5.00	50.00	5.000
Basic Unit Price of Specification Item :						187.880
Plus Profit at : 9.75%						18.318
Sub-Total :						206.198
Plus Tax & VAT at 12.3596% :						25.405
Total Unit Price of Specification Item :						231.603

Signed  
AAM  
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Item Code 03/01/02  
Item Name Repair of Potholes on the Existing Pavement  
Unit of Measurement cu metre  
Quantity for Estimation 1.00

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Specification Item Components						
	Item Name	Unit of Measurement	Unit Rate	Quantity Required	Price for Estimation Quantity	Unit Price
Item Category	Primary Item					
Item Type	Equipment					
	Bitumen Heater (Tar Boiler)	day	400.00	0.50	200.00	200.000
	Richshaw Van	day	250.00	0.50	125.00	125.000
	Small hand tools (2)	day	10.00	6.50	65.00	65.000
Item Type	Labour					
	Asphalt Mistry	day	800.00	0.50	400.00	400.000
	Semi-skilled labourer	day	450.00	1.00	450.00	450.000
	Unskilled labourer	day	400.00	4.00	1,600.00	1,600.000
Item Type	Material					
	Bitumen	tonne	65,000.00	0.09	5,525.00	5,525.000
	Coarse Sand FM>2.5	cu. metre	1,900.00	0.44	836.00	836.000
	Crushed boulder/gravel aggregate <25mm	cu. metre	6,600.00	0.56	3,696.00	3,696.000
	Crusher (stone) dust	cu. metre	600.00	0.21	127.20	127.200
	Firewood	tonne	4,500.00	0.09	405.00	405.000
Basic Unit Price of Specification Item :						13,429.200
Plus Profit at : 10.00%						1,342.920
Sub-Total :						14,772.120
Plus Tax & VAT at 12.3596% :						1,825.775
Total Unit Price of Specification Item :						16,597.895

Item Code 03/01/01  
Item Name Scarify, Mix and Recompect Existing Pavement and/or Shoulder  
Unit of Measurement sq. metre  
Quantity for Estimation 100.00

(All Prices Are in Taka)

Specification Item Components						
	Item Name	Unit of Measurement	Unit Rate	Quantity Required	Price for Estimation Quantity	Unit Price
Item Category	Primary Item					
Item Type	Equipment					
	Small hand tools (1)	day	10.00	7.00	70.00	0.700
	Vibratory roller ( 7-10tonne)	day	2,000.00	0.06	125.00	1.250
	Water tanker	day	2,500.00	0.06	156.25	1.563
Item Type	Labour					
	Masons	day	700.00	1.00	700.00	7.000
	Unskilled labourer	day	400.00	6.00	2,400.00	24.000
Item Type	Material					
	Water	cu. metre	10.00	15.00	150.00	1.500
Basic Unit Price of Specification Item :						36.013
Plus Profit at : 9.75%						3.511
Sub-Total :						39.524
Plus Tax & VAT at 12.3596% :						4.885
Total Unit Price of Specification Item :						44.409

Item Code 03/03/02  
Item Name Aggregate Base Type II  
Unit of Measurement cu metre  
Quantity for Estimation 10.00

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Specification Item Co						
	Item Name	Unit of Measurement	Unit Rate	Quantity Required	Price for Estimation Quantity	
Item Category	Primary Item					

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Item Type	Equipment					
	Flat Bed truck (5tons)	day	2,000.00	0.30	600.00	60.000
	Small hand tools (1)	day	10.00	15.50	155.00	15.500
	Vibratory roller ( 7-10tonne)	day	2,000.00	0.06	120.00	12.000
Item Type	Labour					
	Masons	day	700.00	3.00	2,100.00	210.000
	Unskilled labourer	day	400.00	12.50	5,000.00	500.000
Item Type	Material					
	Sand FM>1.0	cu. metre	700.00	3.90	2,730.00	273.000
	Brick Khoa < 40mm	cu. metre	2,600.00	9.10	23,660.00	2,366.000
	Water	cu. metre	10.00	10.00	100.00	10.000
Basic Unit Price of Specification Item :						3,446.500
Plus Profit at : 10.00%						344.650
Sub-Total :						3,791.150
Plus Tax & VAT at 12.3596% :						468.571
Total Unit Price of Specification Item :						4,259.721

**Item Code** 03/03/01  
**Item Name** Aggregate Base Type I  
**Unit of Measurement** cu metre  
**Quantity for Estimation** 10.00

(All Prices Are in Taka)

Specification Item Components						
	Item Name	Unit of Measurement	Unit Rate	Quantity Required	Price for Estimation Quantity	Unit Price
Item Category	Primary Item					
Item Type	Equipment					
	Flat Bed truck (5tons)	day	2,000.00	0.30	600.00	60.000
	Small hand tools (1)	day	10.00	12.50	125.00	12.500
	Vibratory roller ( 7-10tonne)	day	2,000.00	0.06	120.00	12.000
Item Type	Labour					
	Masons	day	700.00	2.00	1,400.00	140.000
	Unskilled labourer	day	400.00	10.50	4,200.00	420.000
Item Type	Material					
	Crushed boulder/gravel aggregate <40mm	cu. metre	5,400.00	9.10	49,140.00	4,914.000
	Sand FM>1.0	cu. metre	700.00	3.90	2,730.00	273.000
	Water	cu. metre	10.00	10.00	100.00	10.000
Basic Unit Price of Specification Item :						5,841.500
Plus Profit at : 10.000%						584.150
Sub-Total :						6,425.650
Plus Tax & VAT at 12.3596% :						794.185
Total Unit Price of Specification Item :						7,219.835

**Item Code** 03/06/01a  
**Item Name** Bituminous Prime Coat (Plant Placed)  
**Unit of Measurement** sq. metre  
**Quantity for Estimation** 1500.00

(All Prices Are in Taka)

Specification Item Components						
	Item Name	Unit of Measurement	Unit Rate	Quantity Required	Price for Estimation Quantity	Unit Price
Item Category	Primary Item					
Item Type	Equipment					
	Bitumen Distributor	day	2,500.00	0.75	1,875.00	1.250
	Bitumen Heater	day	1,000.00	2.00	2,000.00	1.333
	Small hand tools (1)	day	10.00	13.00	130.00	0.087
	Tyre roller PTR	day	3,500.00	0.13	455.00	0.303
	Water tanker	day	2,500.00	0.13	325.00	0.217
	Air Blower	day	2,000.00	0.13	260.00	0.173
Item Type	Labour					
	Asphalt Mistry	day	800.00	2.00	1,600.00	
	Semi-skilled labourer	day	450.00	1.00	450.00	
	Unskilled labourer	day	400.00	10.00	4,000.00	
Item Type	Material					

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Bitumen	tonne	65,000.00	1.30	84,500.00	56.333
Firewood	tonne	4,500.00	0.60	2,700.00	1.800
Kerosene	ltr	70.00	650.00	45,500.00	30.333
<b>Basic Unit Price of Specification Item :</b>					<b>95.863</b>
<b>Plus Profit at : 10.000%</b>					<b>9.586</b>
<b>Sub-Total :</b>					<b>105.450</b>
<b>Plus Tax &amp; VAT at 12.3596% :</b>					<b>13.033</b>
<b>Total Unit Price of Specification Item :</b>					<b>118.483</b>

**Item Code** 03/07/01a  
**Item Name** Bituminous Tack Coat (Plant Work)  
**Unit of Measurement** sq. metre  
**Quantity for Estimation** 1000.00

(All Prices Are in Taka)

Specification Item Components						
	Item Name	Unit of Measurement	Unit Rate	Quantity Required	Price for Estimation Quantity	Unit Price
<i>Item Category</i>	<i>Primary Item</i>					
<i>Item Type</i>	Equipment					
	Bitumen Distributor	day	2,500.00	0.75	1,875.00	1.875
	Bitumen Heater	day	1,000.00	1.00	1,000.00	1.000
	Small hand tools (2)	day	10.00	7.00	70.00	0.070
<i>Item Type</i>	Labour					
	Asphalt Mistry	day	800.00	1.00	800.00	0.800
	Semi-skilled labourer	day	450.00	1.00	450.00	0.450
	Unskilled labourer	day	400.00	2.00	800.00	0.800
<i>Item Type</i>	Material					
	Bitumen	tonne	65,000.00	0.45	29,250.00	29.250
	Firewood	tonne	4,500.00	0.09	405.00	0.405
	Kerosene	ltr	70.00	0.00	0.00	0.000
<b>Basic Unit Price of Specification Item :</b>					<b>34.650</b>	
<b>Plus Profit at : 10.00%</b>					<b>3.465</b>	
<b>Sub-Total :</b>					<b>38.115</b>	
<b>Plus Tax &amp; VAT at 12.3596% :</b>					<b>4.711</b>	
<b>Total Unit Price of Specification Item :</b>					<b>42.826</b>	

**Item Code** 03/10/01(b)  
**Item Name** Dense Bituminous Surfacing -Base Course (Plant Method) (Bitumen Grade 60/70)  
**Unit of Measurement** cu metre  
**Quantity for Estimation** 25.00

(All Prices Are in Taka)

Specification Item Components						
	Item Name	Unit of Measurement	Unit Rate	Quantity Required	Price for Estimation Quantity	Unit Price
<i>Item Category</i>	<i>Primary Item</i>					
<i>Item Type</i>	Equipment					
	AC Paver	day	10,000.00	1.00	10,000.00	400.000
	Asphalt Plant	day	20,000.00	0.50	10,000.00	400.000
	Bitumen Distributor	day	2,500.00	0.50	1,250.00	50.000
	Dump Truck	day	1,500.00	5.00	7,500.00	300.000
	Tyre roller PTR	day	3,500.00	1.00	3,500.00	140.000
	Vibratory Roller ( 6-7.5 tonne)	day	2,000.00	0.50	1,000.00	40.000
<i>Item Type</i>	Labour					
	Asphalt Mistry	day	800.00	2.00	1,600.00	64.000
	Foreman	day	800.00	1.00	800.00	32.000
	Semi-skilled labourer	day	450.00	4.00	1,800.00	72.000
	Unskilled labourer	day	400.00	8.00	3,200.00	128.000
<i>Item Type</i>	Material					
	Angle Iron (62.5x62.5x6mm) using 20 times	lin. metre	150.00	20.00	3,000.00	120.000
	Bitumen	tonne	70,000.00	3.07	214,900.00	8,596.000
	Coarse Sand FM>2.5	cu. metre	1,900.00	6.25	11,875.00	475.000
	Crushed boulder/gravel aggregate <25mm	cu. metre	6,600.00	21.88	144,408.00	5,776.320
	Crusher (stone) dust	cu. metre	600.00	3.12	1,872.00	74.880
	Diesel	ltr	70.00	137.50	9,625.00	385.000

**Basic Unit Price of Specification Item :**  
**Plus Profit at : 9.288%**  
**Sub-Total :**  
**Plus Tax & VAT at 12.3596% :**  
**Total Unit Price of Specification Item :**

Signed  
 A.A.M.  
 কাজী আব্দুল্লাহ আল-মামুন  
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**Item Code** 03/10/02(b)  
**Item Name** Dense Bituminous Surfacing - Wearing Course (Plant Method) (Bitumen Grade 60/70)  
**Unit of Measurement** cu metre  
**Quantity for Estimation** 25.00

(All Prices Are in Taka)

Specification Item Components						
	Item Name	Unit of Measurement	Unit Rate	Quantity Required	Price for Estimation Quantity	Unit Price
Item Category	Primary Item					
	Equipment					
Item Type	AC Paver	day	10,000.00	1.00	10,000.00	400.000
	Asphalt Plant	day	20,000.00	0.50	10,000.00	400.000
	Bitumen Distributor	day	2,500.00	0.50	1,250.00	50.000
	Dump Truck	day	1,500.00	5.00	7,500.00	300.000
	Tyre roller PTR	day	3,500.00	1.00	3,500.00	140.000
	Vibratory Roller ( 6-7.5 tonne)	day	2,000.00	0.50	1,000.00	40.000
Item Type	Labour					
	Asphalt Mistry	day	800.00	2.00	1,600.00	64.000
	Foreman	day	800.00	1.00	800.00	32.000
	Semi-skilled labourer	day	450.00	4.00	1,800.00	72.000
	Unskilled labourer	day	400.00	8.00	3,200.00	128.000
Item Type	Material					
	Angle Iron (62.5x62.5x6mm) using 20 times	lin. metre	350.00	20.00	7,000.00	280.000
	Bitumen	tonne	70,000.00	3.07	214,900.00	8,596.000
	Coarse Sand FM>2.5	cu. metre	1,900.00	6.25	11,875.00	475.000
	Crushed boulder/gravel aggregate <25mm	cu. metre	6,600.00	21.88	144,408.00	5,776.320
	Crusher (stone) dust	cu. metre	600.00	3.12	1,872.00	74.880
	Diesel	ltr	70.00	137.50	9,625.00	385.000
Basic Unit Price of Specification Item :						17,213.200
Plus Profit at :						9.550% 1,643.861
Sub-Total :						18,857.061
Plus Tax & VAT at 12.3596% :						2,330.657
Total Unit Price of Specification Item :						21,187.718

**Item Code** 03/13/01  
**Item Name** Brick on End Edging  
**Unit of Measurement** Lin. Metre  
**Quantity for Estimation** 100.00

(All Prices Are in Taka)

Specification Item Components						
	Item Name	Unit of Measurement	Unit Rate	Quantity Required	Price for Estimation Quantity	Unit Price
Item Category	Primary Item					
	Equipment					
Item Type	Small hand tools (2)	day	10.00	4.00	40.00	0.400
	Labour					
Item Type	Masons	day	700.00	1.00	700.00	7.000
	Unskilled labourer	day	400.00	3.00	1,200.00	12.000
Item Type	Material					
	Brick P.J.	no.	9.00	800.00	7,200.00	72.000
	Sand FM>0.5	cu. metre	500.00	0.20	100.00	1.000
Basic Unit Price of Specification Item :						92.400
Plus Profit at :						5.00% 4.620
Sub-Total :						97.020
Plus Tax & VAT at 12.3596% :						11.991
Total Unit Price of Specification Item :						109.011

Signed  
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AAM

কাজী আব্দুল্লাহ আল-মামুন  
মোজাম্মার  
স্বাক্ষর পরিচর্যা ও মহাসচিব বিভাগ  
স্বাক্ষর পরিচর্যা ও সেক্টর মন্ত্রণালয়  
গণপ্রজাতন্ত্রী বাংলাদেশ সরকার

Signed  
AAM

কাজী আব্দুল্লাহ আল-মামুন  
মোজাম্মার  
স্বাক্ষর পরিচর্যা ও মহাসচিব বিভাগ  
স্বাক্ষর পরিচর্যা ও সেক্রেটারিয়েট  
গণপ্রজাতন্ত্রী বাংলাদেশ সরকার



Item Code 06/05/01  
Item Name Road Marking Thermoplastic Material (by spray) 3mm Thick.  
Unit of Measurement sq.m  
Quantity for Estimation 350.00

(All Prices Are in Taka)

Specification Item Components						
	Item Name	Unit of Measurement	Unit Rate	Quantity Required	Price for Estimation Quantity	Unit Price
Item Category	Primary Item					
Item Type	Equipment					
	Boiler/Heater (1)	day	3,500.00	1.00	3,500.00	10.000
	Spreader	day	6,000.00	1.00	6,000.00	17.143
	Truck (5 Tonne)	day	2,000.00	1.00	2,000.00	5.714
Item Type	Labour					
	Foreman	day	800.00	3.00	2,400.00	6.857
	Skilled labourer	day	500.00	7.00	3,500.00	10.000
	Unskilled labourer	day	400.00	10.00	4,000.00	11.429
Item Type	Material					
	Tharmoplastic Materials	kg	81.00	2,100.00	170,100.00	486.000
	Glass beads	kg	80.00	175.00	14,000.00	40.000
	Chalk Powder, brush etc.	L.S			500.00	1.429
Basic Unit Price of Specification Item :						588.571
Plus Profit at : 10.00%						58.857
Sub-Total :						647.429
Plus Tax & VAT at 12.3596% :						80.020
Total Unit Price of Specification Item :						727.448

Item Code 06/10/01  
Item Name Traffic Signs  
Unit of Measurement Number  
Quantity for Estimation 1.00

(All Prices Are in Taka)

Specification Item Components						
	Item Name	Unit of Measurement	Unit Rate	Quantity Required	Price for Estimation Quantity	Unit Price
Item Category	Primary Item					
Item Type	Material					
	Traffic Sign	no.	4,000.00	1.25	4,991.20	4,991.200
Basic Unit Price of Specification Item :						4,991.200
Plus Profit at : 10.00%						499.120
Sub-Total :						5,490.320
Plus Tax & VAT at 12.3596% :						678.582
Total Unit Price of Specification Item :						6,168.902

Item Code 06/10/02  
Item Name Sign Post  
Unit of Measurement Number  
Quantity for Estimation 1.00

(All Prices Are in Taka)

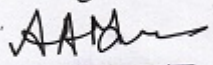
Specification Item Components						
	Item Name	Unit of Measurement	Unit Rate	Quantity Required	Price for Estimation Quantity	Unit Price
Item Category	Primary Item					
Item Type	Material					
	Sign post (50/75mm dia Wall thickness 2mm minn	no.	2,800.000	1.00	2,800.000	2,800.000
Basic Unit Price of Specification Item :						2,800.000
Plus Profit at : 10.000%						280.000
Sub-Total :						3,080.000
Plus Tax & VAT at 12.3596% :						380.676
Total Unit Price of Specification Item :						3,460.676

Signed  
AAM  
কাজী আব্দুল্লাহ আল-মামুন  
স্বাক্ষরিত  
সকল পরিদপন ও মহাসড়ক বিভাগ  
সড়ক পরিদপন ও সেতু মন্ত্রণালয়  
গণপ্রজাতন্ত্রী বাংলাদেশ সরকার

Item Code 06/16/01  
Item Name Concrete Kilometer Post (As per drawing)  
Unit of Measurement No.  
Quantity for Estimation 1.00

(All Prices Are in Taka)

Specification Item Components						
	Item Name	Unit of Measurement	Unit Rate	Quantity Required	Price for Estimation Quantity	Unit Price
Item Category	Primary Item					
Item Type	Material					
	Roadway Excavation in unsuitable Material	cum	150.00	0.5060	75.90	75.900
	Sand Backfill for Structures	cum	800.00	0.1518	121.44	121.440
	Single Layer Brick Flat Soling	sqm	478.00	1.0120	483.7360	483.736
	Concrete Class10	cum	7,809.49	0.1012	790.32	790.321
	Concrete Class 20	cum	13,556.26	0.2854	3868.96	3,868.956
	Mild Steel Reinforcement Bars	tonne	56,000.00	0.0077	431.20	431.200
	6 mm thick cement sand(F.M1.2) plaster	sqm	143.26	1.8288	261.99	261.986
	Painting to post etc. 2(two) coat	sqm	200.00	1.8288	365.76	365.760
	Lettering on both side of km post with 10cm size	L.S.	2.00	200.0000	400.00	400.000
Basic Unit Price of Specification Item :						6,799.299
Plus Profit at : 10.000%						679.930
Sub-Total :						7,479.229
Plus Tax & VAT at 12.3596% :						924.403
Total Unit Price of Specification Item :						8,403.632

Signed  
  
কমল আলিম  
সহকারী পরিচালক ও মহাপরিচালক  
সড়ক পরিবহন ও সেতু মন্ত্রণালয়  
গণপ্রজাতন্ত্রী বাংলাদেশ সরকার