The Executive Engineers may verify the following draft Observed Datas with the help of Liason officers of PRICE or other competant Engineers and report the remarks to this office via email to pricelsgd@gmail.com and on the meeting scheduled on 18.08.2016.

DRAFT OBSERVED DATAS AS PER CPWD SCHEDULE OF RATES 2014

Cold Mix Technology

1	Providing, laying and rolling of open-graded premix ca	arpet of 20	mm thickness cor	nposedof 13	3.2 mm to
	5.6 mm aggregates (Table 500.13) either using Bitume	n emulsio	n at the rate of 22.0	00 kg/10 sqr	n to
	required line, grade and level to serve as wearing course	se on a pre	viously prepared b	ase,includii	ng mixing
	in a concrete mixer 0.25 to 0.4 cum capacity, laying an	d rolling v	with a three wheel	0-100 kNsta	atic roller
	Details for 100 sqm				
MR	Bitumen emulsion medium setting (M.S.) conformin	tonne	0.215	39283	8445.845
2211	Carriage of Tar Bitumen	tonne	0.215	106.49	22.89535
2910	Stone chippings/ screenings 12.5/13.2 mm nominal s	cum	1.8	1250	2250
2911	Stone chippings/ screenings 10.0/ 11.20 mm nomina	cum	0.9	1250	1125
2202	Carriage of Stone aggregate below 40 mm nominal s	cum	2.7	106.49	287.523
128	Mate	day	0.08	363	29.04
114	Beldar	day	1.4	329	460.6
115	Coolie	day	1.4	329	460.6
130	Mistry	day	0.19	435	82.65
114	Beldar	day	5	329	1645
113	Chowkidar	day	0.27	329	88.83
101	Bhisti	day	0.11	363	39.93
3	Hire charges of diesel road roller - 8 to 10 tonne	day	0.11	1500	165
1235	Diesel Oil for road roller @ 18 litres per day	litre	2	55.49	110.98
9999	Carriage of diesel	LS	2.73	1.78	4.8594
2	Hire charges of concrete mixer 0.25 to 0.40 cum with	day	0.04	800	32
364	Wire Brush	each	0.11	20	2.2
365	Soft brush	each	0.32	18	5.76
9999	Brooms and gunny bags	LS	6.76	1.78	12.0328
9999	Sundries	LS	9.49	1.78	16.8922
	Total				15287.64
			Add water char	ges 1%	152.88
			Tot	al	15440.51
			Add CPOH 15%		2316.08
			Tot	al	17756.59
	for 1 sqm				177.57

Providing and laying seal coat with 0.90 cum of stoneaggregate of 6.7 mm size (Passing 11.2 mm sieve and retained on 2.36mm sieve) per 100 sqm of road surface with bitumen emulsion (SS2) 12kg/10m2 of of road surface including rolling and finishing with road roller all complete. Details for 100 sqm

MR	Bitumen emulsion	tonne	0.1	39040	3904
2211	Carriage of Tar Bitumen	tonne	0.1	106.49	10.649
2910	Stone aggregates 6 mm nominal size	cum	0.9	1140	1026
2202	Carriage of Stone aggregate below 40 mm nominal s	cum	0.9	106.49	95.841
128	Mate	day	0.06	363	21.78
114	Beldar	day	0.49	329	161.21
115	Coolie	day	0.97	329	319.13
130	Mistry	day	0.05	435	21.75
114	Beldar	day	1.11	329	365.19

113	Chowkidar	day	0.15	329	49.35
101	Bhisti	day	0.06	363	21.78
3	Hire charges of diesel road roller - 8 to 10 tonne	day	0.06	1500	90
1235	Diesel Oil for road roller @ 18 litres per day	litre	1.08	55.49	59.9292
9999	Carriage of diesel	LS	0.26	1.78	0.4628
2	Hire charges of concrete mixer 0.25 to 0.40 cum with	day	0.01	800	8
364	Wire Brush	each	0.05	20	1
365	Soft brush	each	0.12	18	2.16
9999	Sundries	LS	18.2	1.78	32.396
	Total				6190.63
			Add water charg	es 1%	61.91
			Tota	ıl	6252.53
			Add CPOH 15%		937.88
			Tota	ıl	7190.41
	for 1 sqm				71.90

sd/-

CHIEF ENGINEER

LSGD Subdivision Pothencode

Cold mix estimate

Detailed Estimate

(Cost Index Applied for this estimate is 46.67%)

SI No	Description	No	L	В	D	CF	Quantity	Remark
			1 R	oad				
1	2.1 Clearing Grass and Re Clearing grass and rer Technical Specificatior By Manual Means	noval of rub	bish up to a	distance o	f 30m outsio	de the perip	hery of the a	area as per
		1	1.50000	0.0600	777		0.090	
	1				Tota	al Quantity	0.090 Hec	ter
			Rollin 1	Тс	tal Deducte	d Quantity	0.000 Hec	ter
	1.5	GD E	naine	ering	Net Tota	al Quantity	0.090 Hec	ter
		GD L	Say 0.090	0 Hecter @	Rs 24385.8	9 / Hecter	Rs 21	94.73
2	 3.15.2 Compacting Original Ground (ii) Compacting original ground supporting subgrade Loosening of the ground upto a level of 300 mm below the subgrade level, watered, graded and compacted in layers to meet requirement of Tables 300.1 and 300.2 for subgrade construction as per Technical Specification Clause 303.5.2. 							
		1	260.000	3.350	0.300		261.300	
		I			Tota	al Quantity	261.300 c	um
				Тс	tal Deducte	d Quantity	0.000 cum	1
					Net Tota	al Quantity	261.300 c	um
			Say	y 261.300 ci	um @ Rs 68	3.42 / cum	Rs 17	878.15
3	Say 261.300 cum @ Rs 68.42 / cum Rs 17878.15 3.14 Construction of Subgrade and Earthen Shoulders Construction of subgrade and earthen shoulders with approved material obtained from borrow pits with a lifts and leads, transporting to site, spreading, grading to required slope and compacted to mee requirement of Table 300.2 with lead upto 1000 m as per Technical Specification Clause 303.1						ed to meet	
	subgrade	1	260.000	3.350	0.300		261.300	
					Tota	al Quantity	261.300 c	um
				Тс	tal Deducte	d Quantity	0.000 cum	1
					Net Tota	al Quantity	261.300 c	um
	Say 261.300 cum @ Rs 471.08 / cum Rs 123093.20							

4	4.11.2 Granular sub-base/bas normal. Construction o motor grader on prepar with smooth wheel rolle Specification Clause 40 (ii)Using Gravel mix soil	f granular s ed surface, er to achieve 08.	ub-base by mixing by m	providing le iix in place	ocal materia method with	al spreading n rotavator a	in uniform t once and o	layers with compacting
		1	260.000	3.350	0.100		87.101	
		- 2	1000	-	Tota	al Quantity	87.101 cu	m
		100	5 68	То	tal Deducte	d Quantity	0.000 cum	
	(1 Th	VIA)	AL	Net Tota	al Quantity	87.101 cu	n
		RI	Say 8	37.101 cum	@ Rs 1990).98 / cum	Rs 173	416.35
	Wet Mix Macadam Providing, laying, spread including premixing the material by tipper to site and compacting with sr lighting, barricading and Specification Clause 4 By Mechanical Means v	e material w e, laying in nooth whee d maintena 06.	vith water at uniform laye I roller of 80 ance of diver	OMC in m ers in sub-b to 100kN v	echanical r ase/base co veight to ac	nixer (Pug I ourse on a v hieve the de	Mill), carriag vell prepare esired densit	e of mixed d sub-base ty including
		1	260.000	3.100	0.150		120.900	
					Tota	al Quantity	120.900 c	um
				То	tal Deducte	d Quantity	0.000 cum	1
					Net Tota	al Quantity	120.900 ci	um
			Say 12	20.900 cum	@ Rs 3205	5.25 / cum	Rs 387	514.73
6	od8335/2016_2017 Prime Coatr n Low porosity r n Providing and applying primer coat with bitumen emulsion (SS-1) on prepared surface of granular base including cleaning of road surface and spraying primer at the rate of 0.70-1.0 kg/sqm using mechanica means as per Technical Specification Clause 502							
		1	260.000	3.000			780.000	
					Tota	al Quantity	780.000 s	րա
				То	tal Deducte	d Quantity	0.000 sqm	1
					Net Tota	al Quantity	780.000 s	րո
			Say	780.000 so	qm @ Rs 42	2.19 / sqm	Rs 32	908.20
7	od8336/2016_2017 Tack Coatr n							

	Providing and applying 0.25 to 0.30 kg per sqr broom as per Technica	m on the pr	epared granu	ular surface		-			
		1	260.000	3.000			780.000		
					Tota	al Quantity	780.000 s	qm	
				Тс	tal Deducte	d Quantity	0.000 sqm	า	
	Net Total Quantity							780.000 sqm	
		1	Say	780.000 s	qm @ Rs 11	.92 / sqm	Rs 92	297.60	
8	od8337/2016_2017 20 mm thick Open Graded Premix Carpet using Bitumen Emulsion as per Technical Specification Clause 508.2								
		1	260.000	3.000	All S		780.000		
	1				Tota	al Quantity	780.000 s	qm	
			Vir Books 3	Тс	tal Deducte	d Quantity	0.000 sqm	ı	
	Net Total Quantity 780.000 sc						qm		
	Say 780.000 sqm @ Rs 185.93 / sqm								
			Say	780.000 sqi	m @ Rs 185	5.93 / sqm	Rs 14	5025.40	
9	od8338/2016_2017 Seal Coatr n Providing and laying se and cross fall using Typ A. By Manual Meansr r Case - III : Type Cr n (I)Bitumen (SS-2 emuls	ре А, Туре ו	ling the voids	s in a bitum	inous surfac	e laid to the	specified le	evels, grade	
9	Seal Coatr n Providing and laying se and cross fall using Ty A. By Manual Meansr r Case - III : Type Cr n	ре А, Туре ו	ling the voids	s in a bitum	inous surfac	e laid to the	specified le	evels, grade	
9	Seal Coatr n Providing and laying se and cross fall using Ty A. By Manual Meansr r Case - III : Type Cr n	pe A, Type ח sion)	ling the voids	s in a bitum C as per Te	inous surfac	e laid to the	specified le ause 510r n	evels, grade	
9	Seal Coatr n Providing and laying se and cross fall using Ty A. By Manual Meansr r Case - III : Type Cr n	pe A, Type ח sion)	ling the voids	s in a bitum C as per Te 3.000	inous surfac	e laid to the cification Cl	e specified le ause 510r n 780.000	evels, grade	
9	Seal Coatr n Providing and laying se and cross fall using Ty A. By Manual Meansr r Case - III : Type Cr n	pe A, Type ח sion)	ling the voids	s in a bitum C as per Te 3.000	inous surfac chnical Spe Tota	e laid to the cification Cl	e specified le ause 510r n 780.000 780.000 s	evels, grade qm	
9	Seal Coatr n Providing and laying se and cross fall using Ty A. By Manual Meansr r Case - III : Type Cr n	pe A, Type ח sion)	ling the voids B and Type (260.000	s in a bitum C as per Te 3.000 Tc	inous surfac chnical Spe Tota	e laid to the cification Cl al Quantity d Quantity al Quantity	e specified le ause 510r n 780.000 780.000 s 0.000 sqm 780.000 s	evels, grade qm	
9	Seal Coatr n Providing and laying se and cross fall using Ty A. By Manual Meansr r Case - III : Type Cr n	pe A, Type ח sion)	ling the voids B and Type (260.000	s in a bitum C as per Te 3.000 Tc	inous surfac chnical Spe Tota tal Deducte Net Tota	e laid to the cification Cl al Quantity d Quantity al Quantity	e specified le ause 510r n 780.000 780.000 s 0.000 sqm 780.000 s Rs 66	evels, grade qm n qm	
9	Seal Coatr n Providing and laying se and cross fall using Ty A. By Manual Meansr r Case - III : Type Cr n	pe A, Type ח sion)	ling the voids B and Type (260.000	s in a bitum C as per Te 3.000 Tc	inous surfac chnical Spe Tota tal Deducte Net Tota	e laid to the cification Cl al Quantity d Quantity al Quantity 5.22 / sqm	e specified le ause 510r n 780.000 780.000 s 0.000 sqm 780.000 s Rs 66	evels, grade qm n 471.60 5 957800.00	

(Cost Index Applied for this estimate is 46.67%)