### HIMACHAL PRADESH

☎ 0177-2621401

PUBLIC WORKS DEPARTMENT

e-mail :-pwd-hp-@ nic.in

No PW /CTR//32-20/Tender Documents /2023-24-19114-213 Dated:- 15/1/24 To

> The Engineer -in -Chief, (P) HPPWD Shimla-2.

All the Chief Engineers,

in HPPWD.

All the Superintending Engineers,

in HPPWD.

All the Executive Engineers,

in HPPWD.

Subject:-

Regarding analysis of rates of MSS Type "A" & "B" Category.

In this regard, it is intimated that the rates for subject cited matter have been finalized as under:-

> 25 mm thick MSS Type A 1.

(>1500mm rain fall)

=Rs. 338.65Per. sqm.

2. 25 mm thick M.S.S 'Type B'

(< 1500mm rain fall)

=Rs. 314.85 per sqm.

You are, therefore, requested to take further necessary action in the matter accordingly & direct all the field units working under your control to follow the rates of above item in letter and spirit to avoid un- necessary litigation at later stage.

Encl. As above.

Engineer -in-Chief HPPWD, Shimla-2.

Copy of above is forwarded to :-

1. The Principal Secretary (PW) to the Govt., of H.P. Shimla for information.

2. The Executive Engineer (IT) in this office for information. He is requested to upload the same on the departmental website.

HPPWD, Shimla-2

## Analysis of rate FOR > 1500 mm Rainfall

### Mix Seal Surfacing 25 mm thicktype-A grade

Providing, laying and rolling of close-graded Mix Seal Surfacing surfacing material of 25 mm thickness composed of 11.2 mm to 0.9 mm (Type-A) @ 0.338 kg/per ten square meter aggregates using penetration grade bitumen @ ie binders content @27.50kg/10 sqm or 5.11% by weight and minimum density of MSS should be 2.10 gm/cc to required line, grade and level to serve as wearing course on a previously prepared base, including mixing in a suitable plant, laying and rolling with a three wheel 8-10 kN static roller and finishing to required level and grades as per Technical Specification Clause 509including all leads , Lifts and carriage of materials complete as per entire saisfication of the Engineer in Charge.

## By Mechanical Means Type A 25 mm

(1)	Bitumen (S-90)
	Unit = sam

Bitumen						
Unit = squ	rn utput = 4000 sqm (80 cum)					
a)	Labour					
	Mate	day	0.65	437.50	284.38	
	Mazdoor (Unskilled)	day	12.50	437.50	5,468.75	
	Mazdoor (Skilled)	day	3.75	437.50	1,640.63	
b)	Machinery					
	HMP of appropriate capacity	hour	9.00	16,896.00	1,52,064.00	
	Electric generator set 125 KVA	hour	9.00	1,125.00	10,125.00	
	Front end loader 1 cum bucket	hour	9.00	1,281.00	11,529.00	
	Capacity Tipper 5.5 10 t capacity	hour	5.40	570.00	3,078.00	
	Paver finisher	hour	9.00	4,300.00	38,700.00	
	Three wheel 80-100 kN static	hour	27.00	741.00	20,007.00	
c)	roller Material		7			
	Bitumen (S-90) @ 22.0 kg per	t	11.00	43998.14	4,83,979.49	
	10 sqm of 20 mm hence 25 mm thicknees = 25*22/20=27.50kg/10 sqm			7		
			Will a great the same of the s			
	stone crushed aggregates 11.2 mm to 0.09 mm @ 0.338 cum per 10 sqm	cum	135.20	1,581.51	2,13,820.45	
					9,40,696.69	
d)	Add 10% over he		94,069.67			
e)	Add 10% contra	10,34,766.35				
	7 da 1070 dande	11,38,242.99				
n	Add 1% labo	11,382.43				
g)						
Cost of 40	ost of 4000 sqm = a+b+c+d+e					
Rate per se	qm = (a+b+c+d+e)/4000				13,54,509.16 338.63	
			5	Say rs.	338.65	

SECO-B)

# Analysis of rate FOR < 1500 mm Rainfall

# Mix Seal Surfacing 25 mm thik Type-B grade

Providing, laying and rolling of close-graded Mix Seal Surfacing surfacing material of 25 mm thickness composed of 13.2 mm to 0.9 mm (Type-B) @ 0.338 kg/per ten square meteraggregates using penetration grade bitumen @ ie binders content @23.75kg/10 sqm or 5.11% by weight and minimum density of MSS should be 2.10 gram /cc to required line, grade and level to serve as wearing course on a previously prepared base, including mixing in a suitable plant, laying and rolling with a three wheel 8-10 kN static roller and finishing to required level and grades as per Technical Specification Clause 509including all leads, Lifts and carriage of materials complete as per entire saisfication of the Engineer in Charge.

Ву	Mechanic	al Means					
	pe B 25 m						
(1)	Bitumer	n (S-90)					
		Unit = sqm Taking output = 4000 sqm (80 cum)					
	a)	Labour					
		Mate	day	0.65	437.50	284.38	
		Mazdoor (Unskilled)	day	12.50	437.50	5,468.75	
		Mazdoor (Skilled)	day	3.75	437.50	1,640.63	
	b)	Machinery					
		HMP of appropriate capacity	hour	9.00	16,896.00	1,52,064.00	
		Electric generator set 125 KVA	hour	9.00	1,125.00	10,125.00	
		Front end loader 1 cum bucket capacity	hour	9.00	1,281.00	11,529.00	
		Tipper 5.5 10 t capacity	hour	5.40	570.00	3,078.00	
		Paver finisher	hour	9.00	4,300.00	38,700.00	
	c) .	Three wheel 80-100 kN static roller Material	hour	27.00	741.00	20,007.00	
		Bitumen (S-90) @ 23.75 kg per 10 sqm	t	9.50	43998.14	4,17,982.28	
		Stone crushed aggregates 11.2 mm to 0.09 mm @ 0.338 cum per 10 sqm	cum	135.20	1,581.51	2,13,820.45	
	d)	Add 100/ augus be	-1-1			8,74,699.48	
u,	-/	Add 10% over he	87,469.95				
e)	e)	Add 10% contra	9,62,169.43				
			96,216.94 10,58,386.37				
	f)	Add 1% labou	Ir cocc			10,583.86	
	g)	Add 18% GST					
	Cost of 4000 sqm = a+b+c+d+e						
		qm = (a+b+c+d+e)/4000				12,59,479.79	
		(4,0,0,0,0,0,000				314.87	

Rs. 314.85 sqm

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