



HIMACHAL PRADESH

①

☎ 0177-2621401 PUBLIC WORKS DEPARTMENT

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

No PW /CTR//32-20/Tender Documents /2023-24- 180-279 Dated:-10-4-24

CORRIGENDUM

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

In continuation of this office letter No. 19114-213 dated 15-01-2024 vide which analysis of rates of MSS type 'A' and 'B' category has been finalized and conveyed.

The analysis of rate for >1500 rain fall type -A grade & < 1500 rain fall type -B grade may be read as @ 0.38 cum/Per Ten square meter instead of @ 0.38 Kg/Per Ten square meter.

The analysis rate for type A&B is also enclosed for reference pl.

The other terms and conditions will remain the same.

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 Engineer -in -Chief, (P), HPPWD Shimla-2 for information.
3. All the Chief Engineers, in HPPWD for information.
4. All the Superintending Engineers, in HPPWD for information.
5. All the Executive Engineers, in HPPWD for information.
6. The Executive Engineer (IT) in this office for information. He is requested to upload the same on the departmental website.

Engineer-in-Chief  
HPPWD Shimla-2.

FR.  
Chakraborty  
EE(IT)  
upload on  
official  
website.  
JE(IT)



# Analysis of rate FOR $\leq$ 1500 mm Raintall

## Mix Seal Surfacing 25 mm thick Type-B grade

Providing, laying and rolling of close-graded Mix Seal Surfacing material of 25 mm thickness composed of 13.2 mm to 0.9 mm (Type-B) @ 0.338 m<sup>3</sup> per ten square meter aggregates 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 509 including all leads, Lifts and carriage of materials complete as per entire satisfaction of the Engineer in Charge.

### By Mechanical Means

#### Type B 25 mm

#### (i) Bitumen (S-90)

Unit = sqm

Taking output = 4000 sqm (80 cum)

a)	Labour	day	0.65	437.50	284.38
	Mate	day	12.50	437.50	5,468.75
	Mazdoor (Unskilled)	day	3.75	437.50	1,640.63
b)	Machinery	hour	9.00	16,896.00	1,52,064.00
	HMP of appropriate capacity	hour	9.00	1,125.00	10,125.00
	Electric generator set 125 KVA	hour	9.00	1,281.00	11,529.00
	Front end loader 1 cum bucket capacity	hour	5.40	570.00	3,078.00
	Tipper 5.5 10 t capacity	hour	9.00	4,300.00	38,700.00
	Paver finisher	hour	27.00	741.00	20,007.00
c)	Three wheel 80-100 kN static roller	hour	9.50	43998.14	4,17,982.28
	Material	t	135.20	1,581.51	2,13,820.45
	Bitumen (S-90) @ 23.75 kg per 10 sqm				8,74,699.48
	Stone crushed aggregates 11.2 mm to 0.09 mm @ 0.338 cum per 10 sqm				87,469.95
d)	Add 10% over head charges				9,62,169.43
e)	Add 10% contractor profit				96,216.94
					10,58,386.37
f)	Add 1% labour cess				10,583.86
g)	Add 18% GST				1,90,509.55
	Cost of 4000 sqm = a+b+c+d+e				12,59,479.79
	Rate per sqm = (a+b+c+d+e)/4000				314.87

Rs. 314.85 sqm

SECD-10)



**Analysis of rate FOR > 1500 mm Rainfall**

(3)

**Mix Seal Surfacing 25 mm thick type-A grade**

Providing, laying and rolling of close-graded Mix Seal Surfacing material of 25 mm thickness composed of 11.2 mm to 0.9 mm (Type-A) @ 0.338 m<sup>3</sup>/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 509 including all leads, Lifts and carriage of materials complete as per entire satisfaction of the Engineer in Charge.

**By Mechanical Means**

**Type A 25 mm**

**(I) Bitumen (S-90)**

Unit = sqm

Taking output = 4000 sqm (80 cum)

<b>a) Labour</b>					
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>b) Machinery</b>					
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	
Three wheel 80-100 kN static roller	hour	27.00	741.00	20,007.00	
<b>c) Material</b>					
Bitumen (S-90) @ 22.0 kg per 10 sqm of 20 mm thickness = 25*22/20=27.50kg/10 sqm	t	11.00	43998.14	4,83,979.49	
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 head charges				94,069.67	
				10,34,766.35	
e) Add 10% contractor profit				1,03,476.64	
				11,38,242.99	
f) Add 1% labour cess				11,382.43	
g) Add 18% GST				2,04,883.74	
Cost of 4000 sqm = a+b+c+d+e				13,54,509.16	
Rate per sqm = (a+b+c+d+e)/4000				338.63	
				Say rs. 338.65	

*gms*  
SECO-II)