

Construction of granular sub-base by providing spreading in uniform layers with motor grader on prepared surface mixing by mix in place method with front end loader at OMC and compacting with vibratory roller to achieve the desired density, complete as per clause 401				
Unit = cum				
Taking output = 250 cum (500 tonne)				
a) Labour				
Mate	day	0.160	620.00	99.20
Mazdoor skilled	day	1.000	589.00	589.00
Mazdoor	day	3.000	589.00	1767.00
b) Machinery				
Front end loader for mixig at stock pile location				
(iii) 1 Cum Capacity	hour	13.889	1300.00	18055.70
Water tanker (speed @ 0km/hr and return speed @ 30 km/ hr and spreading speed @ 30 Km/ hr)				
Water Tanker (6 KL)	hour	0.778xL1+ 2.074	725.00	2067.70
Motor grader				
(iii) Motor Grader 3.35 meter blade	hour	2.712	4427.00	12006.02
Vibratory roller	hour	1.618	2005.00	3244.09

For grading -V Material

53 mm to 26.5 mm @ 27.5 per cent	cum	92.548	1206.00	111612.89
26.5 mm to 9.5 mm @ 22.5 per cent	cum	75.721	1319.80	99936.58
9.5 mm to 4.75 below @ 12.5 per cent	cum	42.067	1386.00	58304.86
4.75mm below @ 37.50 per cent	cum	126.202	1410.00	177944.82
Cost of water	KL	42.000	44.00	1848.00

Rate per cum for grading -V Material				
d) Overhead charges @ 10% on (a+b+c)				48747.59
e) Contractor's profit @ 10 % on (a+b+c+d)				53622.34
Cost for 50 cum = a+b+c+d+e				589845.79
Rate per cum = (a+b+c+d+e)/250				2359.38
Recommended and approved amount	Rate per cum		say	2359.00

DATA FOR M30 GRADE CONCRETE PAVEMENT USING RMC

Construction of un-reinforced plain cement concrete pavement using RMC M-30 grade with mix OPC & GGBS (75:25 proportion) as per approved mix design procedure and thickness as per design, over a prepared sub base. The superplasticiser confirming to IS 9103-1999 Reaffirmed-2008, Coarse aggregates and Fine aggregate confirming to IS:383-2016, transported to site, laid in approved fixed side form work (steel channel, laying and fixing of 125 micron thick polythene film, wedges, steel plates including levelling the form work). Spreading the concrete with shovels, rakers and compacted using eedle, suitable plate vibrator and finished in a continuous operation including provision of separation membrane and Hessian cloth finishing to lines and grades complete including cost of all materials, labour, all lead & lift, loading charges as per specification & direction of Engineer - incharge of the work.

SL.NO.	DESCRIPTION	UNIT	QTY	RATE	AMOUNT
A	MATERIALS				
	RMC with M30 grade concrete (270 kg Cement + 90kg GGBS)	m3	150.00	5200.00	780000.00
	Add 2% for Material for the cost of cleaning, watering, hessian cloth & sundries				15600.00
	Separation Membrane of impermeable plastic sheeting 125 micron thick	m2	750.00	25.00	18750.00
	Add 1% for formwork				8143.50
B	LABOUR		KARMIKA SPANDANA, LABOUR DEPARTMENT, GoK		
	Mason Class II (With Tools)	day	2.00	601.00	1202.00
	Mazdoor heavy	day	3.00	589.00	1767.00
	Mazdoor light	day	3.00	589.00	1767.00
	Carpenter Class II	day	1.00	601.00	601.00
C	MACHINERY				
	Water tanker	hr	15.00	725.00	10875.00
	Vibrator with Needle	hr	2.00	411.00	822.00
	Plate Vibrator	hr	0.50	422.00	211.00
D	SUB TOTAL - A				839738.50
	Add Overhead Charges 10%				83973.85
E	SUB TOTAL - B				923712.35
	Add Contractor's Profit 10%				92371.24
	Cost for 150.00 m3				1016083.59
	Rate per m3				6773.89
	Net Rounded off Rate per m3				6774.00

Providing, laying, spreading and compacting graded stone aggregate to wet mix macadam specification including premixing the Material with water at OMC in mechanical mix plant carriage of mixed Material by tipper to site, laying in uniform layers with paver in sub-base / base course on well prepared surface and compacting with vibratory roller to achieve the desired density.				
Laying using Mechanical Paver				
Unit = cum				
Taking output = 225 cum (495 tonnes)				
a) Labour				
Mate	day	0.160	620.00	99.20
Mazdoor skilled	day	1.000	589.00	589.00
Mazdoor	day	3.000	589.00	1767.00
b) Machinery				
Wet Mix Plant				
(iii) 100 TPH Capacity	hour	6.600	363.00	2395.80
Electric Generator				
(iii) 62.5 KVA	hour	6.600	793.00	5233.80
Front end loader for loading to tipper				
(iii) 1 cum bucket capacity	hour	6.600	1300.00	8580.00
Tipper				
For transportation				
(iii) 10 cum capacity	t.km	495xL1	6.83	
For loading and unloading time				
(iii) 10 cum capacity	hour	9.900	1793.00	17750.70
Mechanical Paver finisher	hour	3.300	2089.00	6893.70
Vibratory roller	hour	2.640	2005.00	5293.20
c) Material (as per Table 400-13)				
45 mm to 22.4 mm@ 30 per cent	cum	95.192	1238.00	117847.70
22.4 mm to 2.36 mm @ 40 per cent	cum	126.923	1333.00	169188.36
2.36 mm to 75 micron@ 30 per cent	cum	95.192	1410.00	134220.72
Cost of water	KL	59.400	44.00	2613.60
d) Overhead charges @ 10% on (a+b+c)				47585.36
e) Contractor's profit @ 10 % on (a+b+c+d)				52343.90
Cost for 225 cum = (a+b+c+d+e)				575782.89
Rate per cum = (a+b+c+d+e)/225				2559.04
Recommended and approved amount			say	2559.00

Providing and laying Stone Matrix Asphalt (SMA) using crushed aggregates of specified grading (as per Section 515 of MORTH 5th Revision);, premixed with Modified Bituminous Binder containing Stabilizer additive (Pellitized Cellous fiber at 0.3% on loose fiber basis) on the weight of total mix in the batch and filler(Hydrated lime dust @ 2% of weight of aggregates, transporting the Hot mix to work site, laying with a paver finisher to the required grade, level and alignment, rolling with smooth wheeled, vibratory and tandem rollers to achieve the desired compaction as per clause 515 of MORTH V revision using 120 TPH capacity with Sensor paver.

SMA -45 mm to 75 mm

Unit = m3

Taking output = 191 m3

a) Labour

Mate	day	0.440	620.00	272.80
Mazdoor	day	6.000	589.00	3534.00
Mazdoor (Skilled)	day	5.000	589.00	2945.00

b) Machinery

Hot Mix Plant				
(iii) HMP - 120 TPH	hr	3.800	23128.00	87886.40

Paver finisher mechanical control compatible with the hot mix plant

Sensor Paver finisher	hr	3.800	6335.00	24073.00
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Electric Generator

iv) Generator 100 KVA	hr	3.800	1218.00	4628.40
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Front end loader for feeding the plant

(iv) 1 m3 capacity	hr	15.553	1300.00	20218.90
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Tipper

For transportation				
(iv) 10 m3 capacity		450 x L1	6.83	3073.50

For loading and unloading time

(iv) 10 m3 capacity		10.017	1793.00	17960.48
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Smooth steel Wheeled tandem Roller for static and vibratory passages	hr	11.830	1995.00	23600.85
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c) Material

Bitumen @ 5.8 percent of mix	t	26.100	46254.00	1207229.40
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ii) Aggregate

Total weight of mix = 448.85 tonnes				
Weight of bitumen = 26.100 tonnes				
Weight of aggregate = 422.82 tonnes				
Taking density of aggregate = 1.5 ton/m ³				
* Grading - II- 12 mm (Nominal Size)				
20 mm - 43 percent	m ³	120.000	1333.00	159960.00
12 - 10 mm 15 percent	m ³	43.000	1347.50	57942.50
10 - 5 mm 20 percent	m ³	55.000	1386.00	76230.00
5 mm and below 20 per cent	m ³	56.000	1410.00	78960.00
Filler @ 2 per cent of weight of aggregates. (*DUST)				7461.85
Pelletized Cellulous Fiber	kg	1350.000	78.00	105300.00
d) Overhead charges @ 10%on (a+b+c)				177597.71
e) Contractor's profit @ 10 % on (a+b+c+d)				205887.48
Cost for 191 m ³ = a+b+c+d+e				2264762.27
Rate per m ³ = (a+b+c+d+e)/ 191				11857.39
Round off Rate in Rs.	Rate per m ³		say	11857.00

Providing weep holes in Brick masonry/Plain/ Reinforced concrete abutment, wing wall/ return wall with PVC Pipe 110mm outer dia at 2Kg per Sqcm, extending through the full width of the structure with slope of 1V :20H towards drawing face. Complete as per drawing and Technical Specifications				
<i>Unit = Nos.</i>				
<i>Taking output = 30 Nos.</i>				
a) Material				
PVC pipe 100 mm dia. (including wastage @ 5 per cent)	metre	31.500	155.00	4882.50
Average length of weep hole is taken as one metre for the purpose of estimating.				
MS clamp / PVC Pipe fixing solution	each.	5.000	15.00	75.00
b) Labour				
Mate	day	0.030	620.00	18.60
Mason	day	0.500	620.00	310.00
Mazdoor	day	0.250	589.00	147.25
c) Overhead charges @ 20 % on (a+b)				1086.67
d) Contractor's profit @ 10 % on (a+b+c)				652.00
Cost for 30 m = a+b+c+d				7172.02
Rate per m (a+b+c+d)/30				239.07
Approved Rate				239.00
Rate per Mtr				

Construction of RCC railing of M30 Grade in-situ with 20 mm nominal size aggregate, true to line and grade, tolerance of vertical RCC post not to exceed 1 in 500, centre to centre spacing between vertical post not to exceed 2000 mm, leaving adequate space between vertical post for expansion, complete as per approved drawings and technical specifications.				
Unit = 1 RM				
Taking output = 2 x 24 m span = 48 m.				
a) Material				
Cement concrete M30 Grade Refer relevant item of concrete in Item 14.01(C) by using batching plant, excluding formwork i.e. per cum basic cost (a+b+c)	cum	4.092	5571.900	22800.215
No. of vertical posts = $(12 + 2)/2 = 28$ Nos., External area of vertical post $0.25 \times 0.275 = 0.069$ sqm, Concrete in vehicle posts = $0.069 \times 28 = 1.932$ cum, Hand rail in 3 tiers = $3 \times 24 = 72$ m, External area = $0.170 \times 0.175 = 0.03$ sqm, Concrete in hand rails = $0.03 \times 72 = 2.16$ cum, Total Concrete = $1.932 + 2.16 = 4.092$ cum. (Refer MoRTH SD / 202).				
Add 12 per cent of above cost for form work.				2736.026
HYSD bar reinforcement Rate as per item No 13.1(Excluding OH & CP)	tonne	0.865	65650.12	56787.351
refer MoRTH SD / 202.				
b) Overhead charges @ 20 % on (a)				16464.72
c) Contractor's profit @ 10 % on (a+b)				9878.83
Rate for 48 m (a+b+c)				108667.14
Rate per metre (a+b+c)/48				2263.90
Rate Approved	Rate per Rmtr			2264.00

Providing and laying Filter material underneath pitching in slopes complete as per drawing and Technical specification				
<i>Unit = cum</i>				
<i>Taking output = 1 cum</i>				
a) Material				
Graded stone aggregate of required size	cum	1.200	1277.00	1532.40
b) Labour				
Mate	day	0.050	620.00	31.00
Mazdoor (Skilled)	day	0.250	589.00	147.25
Mazdoor*	day	1.000	589.00	589.00
c) Overhead charges @ 20% on (a+b)				459.93
d) Contractor's profit @ 10 % on (a+b+ c)				275.96
Rate per cum = (a+b+c+d)				3035.54
Recommended and approved amount for Large, Medium and small projects				3036.00
Rate per Cum			say	

Back filling behind abutment, wing wall and return wall complete as per drawing and Technical Specification

<i>Unit = cum</i>					
<i>Taking output = 10 cum</i>					
Granular material					
a) Labour					
Mate	day	0.280	620.00	173.60	
Mazdoor	day	7.000	589.00	4123.00	
b) Material					
Granular material	cum	12.000	288.00	3456.00	
c) Machinery					
Plate compactor/power rammer	hour	2.500	422.00	1055.00	
Water Tanker of 6 KL capacity	hour	0.060	725.00	43.50	
d) Overhead charges @ 20 % on (a+b+c)				1770.22	
e) Contractor's profit @ 10 % on (a+b+c+d)				1062.13	
Cost for 10 cum of granular backfill = a+b+c+d+e				11683.45	
Rate per cum = (a+b+c+d+e)/10				1168.35	
Approved Rate	Rs per Cum			1168.00	

A Semi Dense Bituminous Concrete Grading II

Providing and laying semi dense bituminous concrete using crushed aggregates of specified grading, premixed with bituminous binder and filler, transporting the hot mix to work site, laying with a paver finisher to the required grade, level and alignment, rolling with smooth wheeled, vibratory and tandem rollers to achieve the desired compaction in all respects complete as per specifications using 40/60 TPH capacity with Mechanical Paver Gr-II (25 mm to 30 mm) with 5 % VG-30 Bitumen

Unit = cum

Taking output = 195 cum

a) Labour

Mate	day	0.840	620.00	520.80
Mazdoor	day	16.000	589.00	9424.00
Mazdoor (Skilled)	day	5.000	589.00	2945.00

b) Machinery

Hot Mix Plant

(iii) HMP - 40-60 TPH		8.970	10800.00	96876.00
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Paver finisher mechanical control compatible with the hot mix plant

Paver finisher mechanical		8.970	2089.00	18738.33
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Electric Generator

iV) Generator 100 KVA	hour	8.970	1218.00	10925.46
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Front end loader for feeding the plant

(iv) 1 cum capacity	hour	15.694	1300.00	20402.20
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Tipper

For transportation

(iv) 10 Cum capacity		450.00 x L1	6.83	3073.50
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For loading and unloading time

(iv) 10 Cum capacity		10.017	1793.00	17960.48
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Smooth steel Wheeled tandem Roller for static and vibratory passages

	hour	11.831	1536.00	18172.42
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Pneumatic tyre Roller	hour	2.404	1984.00	4769.54
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c) Material

Bitumen @ 5.0 percent of mix	tonne	22.500	46254.00	1040715.00
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ii) Aggregate				
Total weight of mix = 450.00 tonnes				
Weight of bitumen = 22.50 tonnes				
Weight of aggregate = 427.500 tonnes				
Taking density of aggregate = 1.5 t/m³				
* Grading - II- 12 mm (Nominal Size)				
12 - 10 mm 4 per cent	cum	11.400	1347.50	15361.50
10 - 5 mm 50 per cent	cum	142.500	1386.00	197505.00
5 mm and below 44 per cent	cum	125.400	1410.00	176814.00
Filler @ 2 per cent of weight of aggregates. Or 0.5% of cost of aggregate				1948.40
d) Overhead charges @ 10% on (a+b+c)				163615.16
e) Contractor's profit @ 10 % on (a+b+c+d)				179976.68
Cost for 191 cum = a+b+c+d+e				1979743.47
Rate per m³ = (a+b+c+d+e)/ 195				10152.53
Recommended and approved amount	Rate per m³	say	10152.00	

Description	Unit	Quantity	Rate Rs	Cost Rs
3	4	5	6	7
Providing and applying primer coat with SS1 grade Bituminous Emulsion on prepared surface of granular Base including clearing of road surface and spraying primer at the rate of 0.70 kg/sqm using mechanical means.				
Unit = sqm				
Taking output = 7000 sqm				
a) Labour				
Mate	day	0.080	620.00	49.60
Mazdoor	day	2.000	589.00	1178.00
b) Machinery				
Mechanical broom (2.1m sweeping width)	hour	2.083	770.00	1603.91
Air compressor 250 cfm	hour	2.083	458.00	954.01
Bitumen pressure distributor (spraying width 4.5m)	hour	1.944	1289.00	2505.82
Water tanker (speed @ 20km/hr and return speed @ 30 km/ hr and spreading speed @ 3.0 Km/ hr)				
(iii) 6 KL capacity	hour	0.194xL1+1.633	725.00	1324.58
c) Material				
SS1 grade Bitumen emulsion @ 0.7 kg per sqm	tonne	4.900	47332.00	231926.80
Cost of water	KL	10.500	44.00	462.00
d) Overhead charges @ 10%on (a+b+c)				24000.47
e) Contractor's profit @ 10 % on (a+b+c+d)				26400.52
Cost for 7000 sqm = a+b+c+d+e				290405.71
Rate per sqm = (a+b+c+d+e) / 7000 sqm				41.49
Recommended for work Rs.41 Per sqm	Rate per sqm		say	41.00

Description	Unit	Quantity	Rate Rs	Cost Rs
3	4	5	6	7
Providing and laying bituminous macadam with higher capacity hot mix plant using crushed aggregates of specified grading premixed with bituminous binder VG40, transported to site, laid over a previously prepared surface with paver finisher to the required grade, level and alignment and rolled as per clauses 501.6 and 501.7 to achieve the desired compaction				
Unit = cum				
Taking output = 205 cum				
a) Labour				
Mate	day	0.440	620.00	272.80
Mazdoor	day	4.000	589.00	2356.00
Mazdoor (Skilled)	day	5.000	589.00	2945.00
b) Machinery				
Batch type Hot Mix Plant	hour	5.011	23128.00	115894.41
(iii) HMP - 120 TPH (HMP 40-60 Plant - Avg 50 TPH - 451/50 = 9.02 hrs)	hour	5.011	2089.00	10467.98
Paver finisher Mechanical				
Electric Generator	hour	5.011	2662.00	13339.28
(iii) 250 KVA / 125 KVA / 100 KVA				
Front end loader for feeding the plant	hour	15.842	1300.00	20594.60
(iii) 1 cum capacity				
Tipper				
For transportation	t.km	451xL1	6.83	3080.33
(iii) 10 Cum capacity				
For loading and unloading time	hour	10.022	1793.00	17969.45
(iii) 10 Cum capacity	hour	10.159	1536.00	15604.22
Smooth steel Wheeled tandem Roller for static and vibratory passages	tonne	15.334	48787.00	748099.86
c) Material				
Bitumen @ 3.4 percent of mix				
weight of mix = $205 \times 2.2 = 451$ tonne				
(ii) Aggregate				
Total weight of mix = 451.00 tonne				
Weight of aggregate = 436.67 tonne				
Taking density of aggregate = 1.5 ton/cum				
* Grading II (19 mm nominal size)	cum	116.178	1340.25	155707.56
25 mm to 10 mm @ 40 per cent	cum	116.178	1386.00	161022.71
10 mm to 5 mm @ 40 per cent	cum	58.089	1410.00	81905.49
5mm below @ 20 per cent				
* Any one of alternative may be adopted as per approved design				
For Grading II (19 mm nominal size)				134925.97
d) Overhead charges @ 10% on (a+b+c)				148418.57
e) Contractor's profit @ 10 % on (a+b+c+d)				1632604.22
Cost for 205 cum = a+b+c+d+e				7963.92
Rate per cum = (a+b+c+d+e)/ 205	te per cum		say	7964.00
Recommended and approved amount for work				

Providing Steel Liner 10 mm thick for Curbs and 6 mm thick for Steining of Wells including Fabricating and Setting out as per Detailed Drawing.					
Unit = 1 MT					
Taking output = 1 MT					
a) Material					
i) Structural steel including 5 per cent wastage	tonne	1.050	68000.00	71400.00	M-179
b) Labour					
Mate	day	0.800	620.00	496.00	L-12
Fitter	day	4.000	620.00	2480.00	L-08
Blacksmith	day	4.000	620.00	2480.00	L-01
Welder	day	4.000	620.00	2480.00	L-02
Mazdoor	day	8.000	589.00	4712.00	L-13
Electrodes, cutting gas and other consumables @ 5 per cent on cost a (a) above.				3570.00	
c) Machinery					
Hydra Crane of capacity 10T for lifting shifting	hour	8.000	925.00	7400.00	P&M-071
d) Overhead charges @ 20 % on (a+b+c)				19003.60	
e) Contractor's profit @ 10 % on (a+b+c+d)				11402.16	
Rate per MT = (a+b+c+d)				125423.76	
Approved Rate	Rate per MT		say	125424.00	

Driven cast-in-place vertical M35 grade R.C.C. Pile					
excluding Reinforcement complete as per Drawing and &					
Technical Specification					
Pile diameter - 1200 mm					
Unit = Running meter					
Taking output = 20 metre					
a) Materials					
RCC Grade M35					
	cum	22.610	5573.55	126017.97	Vol - I
Rate for concrete may be adopted same as for bottom plug					2.2.4.1
b) Materials Pile shoes					
i) C.I. shoes for the pile	Kg	160.000	88.00	14080.00	M-080
ii) M.S. clamps for shoe @ 35 Kg per pile of 15 m	Kg	70.000	55.00	3850.00	M-125
iii) Steel helmet on top of casing head during driving	Kg	50.000	55.00	2750.00	M-173
c) Machinery					
Hire and running charges of piling rig Including double acting pile driving hammer complete with power unit and accessories.	hour	6.000	16731.00	100386.00	P&M-036
Hiring and running charges for light crane 5 tonnes lifting capacity for lowering reinforcement and handling steel casing.	hour	0.500	828.000	414.00	P&M-63001
d) Labour					
Mate/Supervisor	day	0.180	620.00	111.60	L-12
Mazdoor	day	4.500	589.00	2650.50	L-13
e) Overhead charges @ 20 % on (b+c+d)					
f) Contractor's profit @ 10 % on (b+c+d+e)					
Cost for 20 m = a+b+c+d+e+f					
Rate per metre (a+b+c+d+e)/20					330343.29
Approved Rate					16517.16
Rate per meter					say 16517.00

2000 & 2200	Supplying, fitting and fixing in position true to line and level POT-PTFE bearing consisting of a metal piston supported by a disc or unreinforced elastomer confined within a metal cylinder, sealing rings, dust seals, PTFE surface sliding against stainless steel mating surface, complete assembly to be of cast steel/fabricated structural steel, metal and elastomer elements to be as per IRC: 83 part-I & II respectively and other parts conforming to BS: 5400, section 9.1 & 9.2 and clause 2006 of MoRTH Specifications complete as per drawing and approved Technical Specifications.				
	Unit: one tonne capacity				
	Considering a Pot bearing assembly of 250 tonne capacity for this analysis.				
	a) Labour				
	Mate	day	0.080	620.00	49.60
	Mazdoor	day	1.500	589.00	883.50
	Mazdoor (Skilled)	day	0.500	589.00	294.50
	b) Material				
	Pot type bearing assembly consisting of a metal piston supported by a disc, PTFE pads providing sliding surfaces against stainless steel mating together with cast steel assemblies/fabricated structural steel assemblies duly painted with all components as per clause 2006 and complete as per drawings and Technical Specifications. Add 1 per cent of cost of bearing assembly for foundation anchorage bolts and consumables.	each.	1.000	60500.00	60500.00
	c) Overhead charges @ 20 % on (a+b)				12466.52
	d) Contractor's profit @ 10 % on (a+b+c)				7479.91
	cost for 250 tonnes capacity bearing = a+b+c+d				82279.03
	Rate per tonne capacity = (a+b+c+d)/250				329.12
	Approved Rate	Rate per Tonne capacity			329.00

High tensile steel wires/strands including all accessories for stressing, stressing operations and grouting complete as per drawing and Technical Specifications

Unit = 1 MT

Taking output = 0.377 MT

Details of cost for 12T13 strand 40 m long cable (weight = 0.377 MT)

a) Material					
H.T. Strand @ 9.42 kg/m including 2 per cent for wastage and extra length for jacking	tonne	0.385	70000.00		26950.00
Sheathing duct ID 66 mm along with 5 per cent extra length $40 \times 1.05 = 42$ m.	metre	42.000	15.00		630.00
Tube anchorage set complete with bearing plate, permanent wedges etc	each	2.000	11900.00		23800.00
Cement for grouting including 3 per cent wastage @ $3.00 \text{ kg/m} = 3 \times 1.03 \times 40 = 123.60$ kg (say, = 125 kg)	tonne	0.125	5860.00		732.50
Add 0.50 per cent cost of material for Spacers, Insulation tape and miscellaneous items					260.56
b) Labour					
i) For making and fixing cables, anchorages					
Male	day	0.160	620.00		99.20
Blacksmith	day	1.000	620.00		620.00
Mazdoor	day	3.000	589.00		1767.00
ii) For prestressing					
Male/Supervisor	day	0.050	620.00		31.00
Prestressing operator / Fitter	day	0.250	620.00		155.00
Mazdoor	day	1.000	589.00		589.00

iii) For grouting					
	day	0.050	620.00	31.00	
Mate/Supervisor	day	0.250	620.00	155.00	
Mason	day	1.000	589.00	589.00	
Mazdoor					
c) Machinery					
Stressing jack with pump	hour	2.500	445.00	1112.50	
Grouting pump with agitator	hour	1.000	633.00	633.00	
Generator 33 KVA.	hour	3.500	469.00	1641.50	
				11959.25	
d) Overhead charges @ 20 % on (a+b+c)				7175.55	
e) Contractor's profit @ 10 % on (a+b+c+d)				78931.07	
Cost for 0.377 MT (a+b+c+d+e)				234216.81	
Rate per MT = (a+b+c+d+e)/0.377				234217.00	
Rate Approved		Rate per MT			

Providing and laying of a strip seal expansion joint catering to maximum horizontal movement upto 70 mm, complete as per approved drawings and standard specifications to be installed by the manufacturer/supplier or their authorised representative ensuring compliance to the manufacturer's instructions for installation.

Unit = Running meter				
Taking output = 12 m				
a) Labour	day	0.050	620.00	31.00
Mate	day	1.000	589.00	589.00
Mazdoor	day	0.250	589.00	147.25
Mazdoor (Skilled)				
b) Material	metre	12.000	10250.00	123000.00
Supply of complete assembly of strip seal expansion joint comprising of edge beams, anchorage, strip seal element and complete accessories as per approved specifications and drawings.				6150.00
Add 5 per cent. of cost of material for anchorage reinforcement, welding and other incidentals.				25983.45
c) Overhead charges @ 20 % on (a+b)				15590.07
d) Contractor's profit @ 10 % on (a+b+ c)				171490.77
Cost for 12 m = (a+b+c+d)				14290.90
Rate per m = (a+b+c+d)/12				14291.00
Rate Approved	Rate per Rmtr			

Providing and Constructing Temporary Island 24 m diameter for Construction of Well Foundation for 8m dia. Well.				
Assuming depth of water 1.0 m and height of island to be 1.25 m.				
Unit = 1 No				
Taking output = 1 No.				
a) Material				
Earth (compacted)	cum	565.487	231.00	130627.50
Sand bags	each	1125.000	48.00	54000.00
b) Labour				
Mate	day	0.920	620.00	570.40
	day	23.000	589.00	13547.00
Mazdoor for filling sand bags, stitching and placing				
c) Machinery				
Crane with grab 1 cum capacity - 30 hrs as per SDB of Month, Considering 0.75 cum capacity - 30/0.75 = 40 hrs	hour	40.000	802.00	32080.00
Consumables @ 2.5 per cent of (c) above				
d) Overhead charges @ 20 % on (a+b+c)				46325.38
e) Contractor's profit @ 10 % on (a+b+c+d)				27795.23
Rate per No. (a+b+c+d+e)				305747.50
Rate Approved	Rate per each		say	305748.00