

BILL OF QUANTITY

Name of work: Providing approaches to power supply, SWD surrounding oil installations outside jetty

T.I. No.	Description of Item	Qty	Rate		Unit		Amount
			In Fig.	In words	In Fig.	In words	
1	Earth work in excavation by mechanical means (Hydraulic excavator)/manual means over areas (exceeding 30 cm in depth, 1.5 m in width as well as 10 sqm on plan) including getting out and disposal of excavated earth lead upto 50 m and lift upto 1.5 m, as directed by Engineer-in-charge.						
a	All kinds of soil	2485.40			m3	One Cubic Metre	
2	Construction of granular sub-base by providing close graded Material conforming to specifications, mixing in a mechanical mix plant at OMC, carriage of mixed material by tippers to work site, for all leads & lifts, spreading in uniform layers of specified thickness with motor grader on prepared surface and compacting with vibratory power roller to achieve the desired density, complete as per specifications and directions of Engineer-in-Charge.						
A	With material conforming to Grade-I (size range 75 mm to 0.075 mm) having CBR Value-30	5592.00			m3	One Cubic Metre	
3	Providing, laying, spreading and compacting graded stone aggregate (size range 53 mm to 0.075 mm) to wet mix macadam (WMM) specification including premixing the material with water at OMC in for all leads & lifts, laying in uniform layers with mechanical paverfinisher in sub- base / base course on well prepared surface and compacting with vibratory roller of 8 to 10 tonne capacity to achieve the desired density, complete as per specifications and directions of Engineer-in-Charge.	4440.00			m3	One Cubic Metre	

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4	<p>Providing and applying tack coat using bitumen emulsion conforming to IS: 8887, using emulsion pressure distributor including preparing the surface & cleaning with mechanical broom.</p> <p>With medium setting bitumen emulsion (On Bituminous surface @ 0.25 kg/sqm)</p>	12427.00			1m2	one square metre	
5	<p>Providing and laying Dense Graded Bituminous Macadam using crushed stone aggregates of specified grading, premixed with bituminous binder and filler, transporting the hot mix to work site by tippers, laying with paver finisher equipped with electronic sensor to the required grade, level and alignment and rolling with smooth wheeled, vibratory and tandem rollers as per specifications to achieve the desired compaction and density, complete as per specifications and directions of Engineer-in Charge.</p> <p>50 to 100 mm average compacted thickness with bitumen of grade VG-30 @ 5% (percentage by weight of total mix) and lime filler @ 2% (percentage by weight of Aggregate) prepared in Drum Type Hot Mix Plant of 60-90 TPH capacity.</p>	4287.00			1MT	one Metric Tonne	
6	<p>Providing and laying Bituminous concrete using crushed stone aggregates of specified grading, premixed with bituminous binder and filler, transporting the hot mix to work site by tippers, laying with paver finisher equipped with electronic sensor to the required grade, level and alignment and rolling with smooth wheeled, vibratory and tandem rollers to achieve the desired compaction and density as per specification, complete and as per directions of Engineer-in-Charge.</p> <p>40/50 mm compacted thickness with bitumen of grade PMB-40 @ 5.50 % (percentage by weight of total mix) and lime filler @ 3% (Percentage by weight of Aggregate) prepared in drum Type Hot Mix Plant of 60-90 TPH capacity.</p>	1193.00			1MT	one Metric Tonne	

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7	Demolishing R.C.C. work manually/ by mechanical means including stacking of steel bars and disposal of unserviceable material within 50 metres lead as per direction of Engineer - in- charge.	420.00			m3	One Cubic Metre	
8	Steel reinforcement for R.C.C. work including straightening, cutting,bending, placing in position and binding all complete above plinth level.						
a	Thermo-Mechanically Treated bars of grade Fe-500D or more.	132440.00			1 Kg	One Kilogramm	
9	Providing and laying in position machine batched and machine mixed design mix M-30 grade cement concrete for reinforced cement concrete work, using cement content as per approved design mix, including pumping of concrete to site of laying but excluding the cost of centering,shuttering, finishing and reinforcement, including admixtures in recommended proportions as per IS: 9103 to accelerate, retard setting of concrete, improve workability without impairing strength and durability as per direction of Engineer-in-charge. (Note :- Cement content considered in this item is @395 kg/cum. "Excess/ less cement used as per design mix is payable/recoverable separately).	1204.00			m3	One Cubic Metre	
10	Centering and shuttering including strutting, propping etc. and removal of form for all heights :						
a	Foundations, footings, bases of columns, etc. for mass concrete	240.00			1m2	one square metre	
b	Walls (any thickness) including attached pilasters, butteresses, plinth and string courses etc.	8768.00			1m2	one square metre	
c	Suspended floors, roofs, landings, balconies and access platform	1892.00			1m2	one square metre	
CONTRACTOR					Executive Engineer (Road) Deendayal Port Authority		