

SCH B

Name of work: Development of sides of all major roads by providing footpath, pitching for side, strengthening and all allied works

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	2800.00			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	6790.00			M3	One Cubic Metre	
3	Centering and shuttering including strutting, propping etc. and removal of form for all heights :						
a	Foundations, footings, bases of columns, etc. for mass concrete	5600.00			M2	One Squire Metre	

T.I. No.	Description of Item	Qty	Rate		Unit		Amount
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4	Providing and laying in position ready mixed plain cement concrete, with cement content as per approved design mix and manufactured in fully automatic batching plant and transported to site of work in transit mixer for all leads, having continuous agitated mixer, manufactured as per mix design of specified grade for plain cement concrete work, including pumping of R.M.C. from transit mixer to site of laying and curing, including the cost of centering, shuttering and finishing, including cost of curing, 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 the						
a	All works upto plinth level :						
	M-15 grade plain cement concrete (cement content considered @ 240 kg/cum)	4565.430			M3	One Cubic Metre	
5	Providing, hoisting and fixing above plinth level up to floor five level precast reinforced cement concrete in vertical & horizontal fins, individually or forming box louvers, setting in cement mortar 1:2 (1 cement : 2 coarse sand), including the cost of required centering, shuttering but , excluding the cost of reinforcement, with 1:1.5:3 (1 cement : 1.5 coarse sand : 3 graded stone aggregate 20 mm nominal size).	2740.19			M3	One Cubic Metre	
6	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-500	291510.00			KG	One Kilogram	

T.I. No.	Description of Item	Qty	Rate		Unit		Amount
			In Fig.	In words	In Fig.	In words	
7	Manufacturing, supplying and fixing retro reflective sign boards made up of 2 mm thick aluminium sheet, face to						
a	Mandatory/ Regulatory sign boards of 900 mm diameter with support length of 3750 mm	30.00			Each	Each	
b	Cautionary /warning sign boards of equilateral triangular shape having each side of 900 mm with support length of 3650 mm	30.00			Each	Each	
8	Providing and fixing Glow studs of size 100x20 mm made of heavy duty body shall be moulded ASA (Acrylic styrene Acryloretite) or HIP (High impact polystyrene) or ABS having electronically welded micro- prismatic lens with abrasion resistant coating as approved by Engineer in charge. The glow stud shall support a load of 13635 kg tested in accordance with ASTM D4280. The slope of retro- reflective surface shall be 35 (+/-5) degress to base .The reflective panels on both sides with at least 12 cm of reflective area up each side. The luminance intensity should be as per the specification and shall be tested as described in ASTM I: 809 as recommended in BS: 873 part 4 : 1973. The studs shall be fixed to the Road surface using the adhesive conforming to IS, as per procedure recommended by the manufacturer complete and as per direction of Engineer-in-charge.	2202.00			Each	Each	

T.I. No.	Description of Item	Qty	Rate		Unit		Amount
			In Fig.	In words	In Fig.	In words	
9	Providing and applying 2.5 mm thick road marking strips (retro-reflective) of specified shade/ colour using hot thermoplastic material by fully/ semi automatic thermoplastic paint applicator machine fitted with profile shoe, glass beads dispenser, propane tank heater and profile shoe heater, driven by experienced operator on road surface including cost of material, labour, T&P, cleaning the road surface of all dirt, seals, oil, grease and foreign material etc. complete as per direction of Engineer-in-charge and accordance with applicable specifications.	4954.03			M2	One Squire Metre	
						TOTAL	

Contractor

Superintending Engineer (Road)
Deendayal Port Authority