

PIPELINE DIVISION						
SCHEDULE - B						
Name of Work :- Providing and laying Additional 450 mm Dia DI Express water supply pipeline at Kandla.						
T.I.N o.	Description of Item	QTY	RATE		UNIT	AMOUNT
			IN FIG	In Words	IN FIG	
1(A)	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. All kinds of soil	22588.83			M ³	
1(B)	Extra for excavating trenches for pipes, cables etc. in all kinds of soil for depth exceeding 1.5 m, but not exceeding 3 m. (Rate is over corresponding basic item for depth upto 1.5 metre)	35.54			M3	
2	Filling available excavated earth (excluding rock) in trenches, plinth, sides of foundations etc. in layers not exceeding 20cm in depth, consolidating each deposited layer by ramming and watering, lead up to 50 m and lift upto 1.5 m.	20566.26			M ³	
3	Providing and laying S&S Centrifugally Cast (Spun) / Ductile Iron Pipes conforming to IS : 8329 : (a) 450 mm dia Ductile Iron Class K-9 pipes	12500.00			Rmt	
4	Providing and laying D.I. specials of class K-12 suitable for push-on jointing as per IS : 9523 : (a) Up to 600 mm dia	29.06			quintal	
5	Providing and fixing valves of rising stem, out side scrow & yoke , Bolted Ronnet , Renewable seat ring, hand wheel operated, body & Bonnet ASTM A105, Trim stellited, Stem 13 Cr SteelMfg Std. 598 complete with bolts, nuts, rubber insertions etc. (a)450 mm Dia Class-I	6.00			Each	
	(b)250 mm Dia Class-I	10.00			Each	
6	Providing and fixing C.I. double acting air valve of approved quality with bolts, nuts, rubber insertions etc. complete (The tail pieces, tapers etc if required will be paid separately) : (a) 100 mm dia	6.00			Each	
7	Providing push-on-joints to Centrifugally (Spun) Cast Iron Pipes or Ductile Iron Pipes including testing of joints and the cost of rubber gasket : (a) 450 mm dia pipes	74.00			Joints	
8	Supplying and filling in plinth with sand under floors,including watering, ramming, consolidating and dressing complete.	11.84			M ³	
9	Providing and laying in position cement concrete of specified grade excluding the cost of centering and shuttering - All work up to plinth level : (a) 1:4:8 (1 Cement : 4 coarse sand : 8 graded stone aggregate 40 mm nominal size)	5.93			M ³	
10	Providing and laying in position specified grade of reinforced cement concrete, excluding the cost of centering, shuttering, finishing and reinforcement - All work up to plinth level : 1:1.5:3 (1 cement : 1.5 coarse sand : 3 graded stone aggregate 20 mm nominal size)	31.54			M ³	
11	Steel reinforcement for R.C.C. work including straightening, cutting,bending, placing in position and binding all complete (a) upto plinth level and above plinth level Thermo-Mechanically Treated bars of grade Fe-500D or more.	7096.50			Kg	

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			IN FIG	In Words	IN FIG	
12	Cement plaster 1:3 (1 cement: 3 coarse sand) finished with a floating coat of neat cement. 12 mm cement plaster	36.00			Sqm	
13	Applying one coat of water thinnable cement primer of approved brand and manufacture on wall surface. Water thinnable cement primer	36.00			Sqm	
14	Painting with synthetic enamel paint of approved brand and manufacture to give an even shade (a) Two or more coats on new work	36.00			Sqm	
15	Structural steel work in single section, fixed with or without connecting plate, including cutting, hoisting, fixing in position and applying a priming coat of approved steel primer all complete.	1294.70			Kg	
16	Testing of pipeline at a pressure of 10 Kg/cm2 including the cost of making all arrangements and adjustment for testing, recording, waater filling etc to satisfaction of Engineer in charge complete all labours and materials.(Upto 450mm Dia)	6.00			Kg	
17	Cutting road and making good the same including supply of extra quantities of materials i.e. aggregate, moorum screening, red bajri and labour required.	15.00			M3	
18	Providing and laying non-pressure NP2 class (light duty) R.C.C. pipes with collars jointed with stiff mixture of cement mortar in the proportion of 1:2 (1 cement : 2 fine sand) including testing of joints etc. complete : (A) 800 mm dia. R.C.C. pipe	125.00			Rmt.	
19	Supply of 60 HP, 3 phases, 50 Hz, operating voltage 415 Volt, Head 40Mtrs, Flow 200 M3/Hrs, pump out let 10" centrifugal Motor Pump set along with Digital Control Panel, Star delta,over current, Under Current ,Dry Run, Moisture Protection as per Tech. Spec. No:-01 including with the 20 Mtrs MS pipe line as per Required DIA for pump. Complete as directed by engineer in charge.	6.00			Per set	
20	Installation, Testing & commissioning of 60 HP, 3 phase, 50 Hz, operating voltage 415 Volt, Head 40Mtrs, Flow 200 M3/Hrs, pump out let 10" centrifugal horizontal split case Motor Pump set along with Digital Control Panel, Star delta,over current, Under Current ,Dry Run, Moisture Protection Submersible Motor Pump set along with Control Panel as per Tech. Spec. No:-02 including with the 20 Mtrs MS pipe line as per Required DIA for pump. Complete as directed by engineer in charge.	6.00			Per job	
21	Preparation earthing station, chemical treated back filled compound earthing system with Pipe-In-Pipe 50 mm Dia GI type 3 Mtr Depth , Maintenance free . as per Technical Specification No. 03	12.00			Per Job	
Total Rs.						

Contractor

Dy. Chief Engineer (PL)
Deendayal Port Authority