

ADDITIONAL 65MGD WATER SUPPLY SCHEME FROM HALEJI TO PIPRI, KARACHI						
REVIVAL OF HALEJI LAKE AND REMODELING OF RESERVOIR BRANCH						
BILL OF QUANTITIES (PACKAGE -1)				(a)		
S.No	DESCRIPTION	No	QTY	UNIT	RATES (Rs.)	AMOUNT
	All items under this head to be carried out as per specifications, Drawings, relevant BSI/ASTM Standards, complete in all respect to the entire satisfaction of the Employer, and following Sections of the Technical Specifications. Rates shall be applicable on all types of building/structures shown in the drawings under this contract.					
PART-A						
1	<u>TOPOGRAPHY SURVEY</u> Topography survey, site investigation and submission of design					
1.1	For Rehabilitation of Reservoir Branch		1.00	L.S		
2	<u>JUNGLE CLEARANCE</u> Jungle clearance and removing within 100 feet (30.5 metres).					
2.1	For Rehabilitation of Reservoir Branch		300,000.00	Sq.m		
2.2	For Revival of Haleji Lake		1,098,000.00	Sq.m		
3	<u>EXCAVATION</u> Earth work excavation in irrigation channels, drains etc. dressed to design section grades and profiles excavated material disposed off and dressed within 50 ft. lead ordinary soil.					
3.1	For Rehabilitation of Reservoir Branch		2,450.00	Cu.m		
4	<u>EARTHWORK</u>					
4.1	Earth work by tractor with scraper including compacting, dressing & levelling etc. complete in accordance to profile in ordinary soil and lead upto 10ft. etc. complete in all respects as per standard specification, drawing and entire satisfaction of the Engineer.					
4.1.1	For Rehabilitation of Reservoir Branch		23,250.00	Cu.m		
4.2	<u>ORDINARY SOIL</u> Earth work Excavation by Hydraulic Excavator lead upto 50- ft					
4.2.1	For Revival of Haleji Lake		37,200.00	Cu.m		
5	<u>DEWATERING</u> Full Hire Charges of pumping set per day inclusive of wage of driver and assistant fuel or electric energy plate forms required for placing pumps etc. at lower depth with suction and delivery pipes for pumping out water found at various depths from trenches i/c the cost of erection and dismantling after completion of the job. Hire charges of pumping set of upto 10 H.P pumping out water from 20ft deep trench .					
5.1	For Rehabilitation of Reservoir Branch		60.00	Days		
5.2	For Revival of Haleji Lake		45.00	Days		
6	<u>EARTHFILL (BORROW MATERIAL)</u> Filling watering and ramming surplus earth					
6.1	For Rehabilitation of Reservoir Branch		15,000.00	Cu.m		

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7	DRESSING OF SLOPES					
	Dressing slopes of bank or ground surface					
7.1	For Rehabilitation of Reservoir Branch		52,000.00	Sq.m		
8	STONE FILLING					
	Stone filling dry hand packed as filling in pitching or apron					
8.1	For Rehabilitation of Reservoir Branch		3,000.00	Cu.m		
8.2	For Revival of Haleji Lake		1,200.00	Cu.m		
9	ERECTION & REMOVAL OF CONCRETE					
	Erection & Removal of centering for RCC or plain cement concrete work.					
9.1	For Rehabilitation of Reservoir Branch		1,000.00	Sq.m		
10	CEMENT CONCRETE LINNING (1:2:4)					
	Cement concrete linning complete in all respect, as per specifications & relevant drawings and all works to the entire satisfaction of the Engineer.					
10.1	For Rehabilitation of Reservoir Branch					
10.1.1	In Bed		7,750.00	Cu.m		
10.1.2	In Slope		4,500.00	Cu.m		
10.1.3	In Side Slope		2,000.00	Cu.m		
11	LEAN CONCRETE					
	Cement concrete plain including placing compacting, finishing and curing, complete (including screening and washing of stone aggregate with shuttering, complete in all respect, as per specifications & relevant drawings and all works to the entire satisfaction of the Engineer.					
11.1	For Rehabilitation of Reservoir Branch		127.50	Cu.m		
12	REINFORCED CEMENT CONCRETE					
	Reinforced cement concrete work including all labour and material except the cost of steel reinforcement and its labour for bending and binding which will be paid seperately.This rate also includes all kinds of forms moulds lifting shuttering curing rendering and finishing the exposed surface (including screening and washing of shingle) also i/c plasticizer /admixture for strength etc .RC work in roof slab,beams,columns rafts.Lintels and other structural members laid in situ or precast laid in position etc complete in all respect, as per specifications & relevant drawings and all works to the entire satisfaction of the Engineer.					
12.1	For Rehabilitation of Reservoir Branch (1:1-1/2:3) 4000psi		720.00	Cu.m		
12.2	For R.C.C Inlet Chamber (1:1-1/2:3) 4000psi		35.00	Cu.m		

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13	STEEL REINFORCEMENT Providing, supplying, cutting, fabrication of Tor / deformed steel reinforcement for cement concrete including cutting, bending, laying in position making joints and fastening including cost of binding wire (also includes removal of) etc. complete in all respects as per standard specification, drawing and entire satisfaction of the Engineer. (Bars to be cut and placed in position at any level according to the Bar bending schedule prepared by the contractor and approved by the Engineer).					
13.1	For Rehabilitation of Reservoir Branch		826.93	Ton		
14	WATER STOPS Providing and fixing expansion /construction joint in concrete work of 9" or 225mm wide corrugated PVC water stop (with bulb) i.c soldering and cost of the material and labor etc. complete in all respects as per standard specification, drawing and entire satisfaction of the Engineer.					
14.1	For Rehabilitation of Reservoir Branch		725.00	R.m		
15	STEEL GRATING Making and fixing grating in opening including fixing at site with flat iron 2" x 3/8" and 3/4" sqbars at 4" center to center etc. complete in all respects as per standard specification, drawing and entire satisfaction of the Engineer.					
15.1	M.S Grating with frame For Rehabilitation of Reservoir Branch		16.00	Sq.m		
15.2	For Revival of Haleji Lake		36.00	Sq.m		
16	PAINTING ON STEEL GRATING Providing and applying preparing the surface and painting on MS works guard bars, gates of iron bars, grating, railings (including standards braces) and similar open works 3 coats of Enamel paint of equivalent approved quality and shade including surface preparation, primer coat, filling, cutting etc. complete in all respects as per standard specification, drawing and entire satisfaction of the Engineer.					
16.1	For Rehabilitation of Reservoir Branch Priming coat		37.50	Sq.m		
	Each subsequent coat of paint (1st coat to 3rd coat)		37.50	Sq.m		
16.2	For Revival of Haleji Lake Priming coat		62.50	Sq.m		
	Each subsequent coat of paint (1st coat to 3rd coat)		62.50	Sq.m		
SUB TOTAL AMOUNT PART - (A) (Rs)						
PART-B						
17	SUB BAS MATERIAL Supplying, Spreading and Compacting Sub-base material from approved quarry along the bund of Haleji lake.					
17.1	For Revival of Haleji Lake		9,618.00	Cu.m		
SUB TOTAL AMOUNT PART-B (Rs)						

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PART-C						
18	<u>PIPE WORKS</u> Manufacturing, supplying, laying, jointing, testing, disinfection & commissioning of Black steel M.S Pipe made out of M.S sheet confirming to API 5L grade X 42 (Spirally Welded) with ERW & Externally asphalt coated with fiber glass 5 mm thick & internally CC Lining 8mm thick as per American Water Works Association (AWWA) Specification i/c jointing with welding in trenches i/c cost of all fittings, bend, tee, yee of any degree & reducer (if required) and testing with water specified pressure for different dia of pipes as below complete in all respect as per drawings, specifications and as directed by the Engineer/Incharge. For Rehabilitation of Reservoir Branch 2100mm (84") I.D x 12mm WT		12	Rm		
19	<u>PUDDLE FLANGE (M.S)</u> Providing and fixing M.s puddle flange of the following diameters, complete in all respect as per drawing and as directed by the engineer. For Rehabilitation of Reservoir Branch 2100mm (84") I.D x 12mm WT		2	No		
20	<u>REINSTATEMENT OF CONCRETE</u> Reinstatement of damaged concrete work (Cutting, Chiseling & Grouting)					
20.1	For Rehabilitation of Reservoir Branch		1,200.00	Cu.m		
	<u>REPAIR OF HEADWORKS</u> Repair & Rehabilitation of existing damaged Head works For Rehabilitation of Reservoir Branch		4.00	L.s		
21	<u>REMOVING OF PENSTOCK GATE</u> Removing of Penstock Gate below given sizes etc. complete in all respect and all works to the entire satisfaction of the engineer incharge.					
21.1	For Rehabilitation of Reservoir Branch		2	L.S		
21.1	For Revival of Haleji Lake		10	L.S		
22	<u>PENSTOCK GATE</u> Providing, fixing and erection of Penstock Gate below given sizes etc. complete in all respect and all works to the entire satisfaction of the engineer incharge.					
22.1	For Rehabilitation of Reservoir Branch (2.2m x 2.0 m)		3.00	Nos		
22.1	For Revival of Haleji Lake 2.2m x 2.0 m)		10.00	Nos		
23	<u>WEED CUTTING MACHINE</u> Procurement of Weed Cutting Machine					
23.1	For Revival of Haleji Lake		2.00	L/s		
24	Miscellaneous works		1.00	L/s		
Sub Total Amount Part-C Rs.						
Total of Part - (A+B+C) Carried to Summary Rs.						