SINDH PUBLIC PROCUREMENT REGULATORY AUTHORITY

CONTRACT EVALUATION FORM

TO BE FILLED IN BY ALL PROCURING AGENCIES FOR PUBLIC CONTRACTS OF WORKS, SERVICES & GOODS

1)	NAME OF THE ORGANIZATION / DEPTT. Work and Services Department.						
2)	PROVINCIAL / LOCAL GOVT./ OTHER	Provincial.					
3)	TITLE OF CONTRACT	KARACHI FISHERIES HARBOUR AUTHORITY GOS					
4)	TENDER NUMBER	KFHA/DE/3020/2018 Dated: 05-01-2018.					
5)	BRIEF DESCRIPTION OF CONTRACT	Rehab: & Reno: of Fish Harb: Ext: Serv: (Part-A) Civil Works.					
6)	FORUM THAT APPROVED THE SCHEME	Competant Autority (PDWP)					
7)	TENDER ESTIMATED VALUE	C-2 or Above					
8)	ENGINEER'S ESTIMATE (For civil works only)	610,493,442/-					
9)	ESTIMATED COMPLETION PERIOD (AS P	ER CONTRACT)15 Calendar Months					
10)	TENDER OPENED ON (DATE & TIME)	01-02-2018.					
11)	NUMBER OF TENDER DOCUMENTS SOLI (Attach list of buyers)) (12)					
12)	NUMBER OF BIDS RECEIVED	(04)					
13)	NUMBER OF BIDDERS PRESENT AT THE	TIME OF OPENING OF BIDS (04)					
14)	BID EVALUATION REPORT (Enclose a copy)	Attached.					
15)	NAME AND ADDRESS OF THE SUCCESSE	TUL BIDDER M/s Haji Syed Ameer & Brothers					
16)	CONTRACT AWARD PRICE	Rs. 563,916,350/-					
17)	RANKING OF SUCCESSFUL BIDDER IN E (i.e. 1^{st} , 2^{nd} , 3^{rd} EVALUATION BID).	VALUATION REPORT (I)M/S. Haji Syed Ameer & Brothers					
		(II)M/s Maqbool & Fatima(JV) (III)M/S. Muhammad Hasni Bld					
		(iv) Amcop Engineering & Construction Co.					
18)	METHOD OF PROCUREMENT USED : - (T	ck one)					
	a) SINGLE STAGE – ONE ENVELOPE	E PROCEDURE Domestic/ Local					
	b) SINGLE STAGE – TWO ENVELOP	E PROCEDURE X					
	c) TWO STAGE BIDDING PROCEDU	RE X					
	d) TWO STAGE – TWO ENVELOPE B	The same property of the same and the same a					
	PLEASE SPECIFY IF ANY OTHER EMERGENCY, DIRECT CONTRACTIN	METHOD OF PROCUREMENT WAS ADOPTED i.e. G ETC. WITH BRIEF REASONS:					

				Procurement Committee
19)	APPRO	VING AUTHORITY FOR AWARD OF CONTRA		Tocalement Committee
20)	WHETI	HER THE PROCUREMENT WAS INCLUDED II	N ANN	
21)	ADVE	RTISEMENT:		Yes No No
21)	/ LD I LI	CHOLINE CT.	Van	
	i)	SPPRA Website (If yes, give date and SPPRA Identification No.)	Yes	SPPRA S.NO. 36073, SPPRA ID # 2147483647
			No	
	ii)	News Papers (If yes, give names of newspapers and dates)	Yes	kAWISH DT: 07-1-2018, JUNG DT: 10-01-2018.
			No	
22)	NATUE	RE OF CONTRACT		Domests/ Local ✓ Int.
23)	WAS II	HER QUALIFICATION CRITERIA NCLUDED IN BIDDING / TENDER DOCUMEN enclose a copy)	TS?	Yes V No
24)	WAS I	HER BID EVALUATION CRITERIA NCLUDED IN BIDDING / TENDER DOCUMEN enclose a copy)	TS?	Yes / No
25)		HER APPROVAL OF COMPETENT AUTHORIT OD OTHER THAN OPEN COMPETITIVE BIDD		AS OBTAINED FOR USING A Yes No
26)	WAS B	ID SECURITY OBTAINED FROM ALL THE BI	IDDER	Yes / No
27)		HER THE SUCCESSFUL BID WAS LOWEST E BEST EVALUATED BID (in case of Consultancies		ATED Yes / No
28)		HER THE SUCCESSFUL BIDDER WAS TECHN LIANT?	NICAL	LY Yes / No
29)		HER NAMES OF THE BIDDERS AND THEIR IME OF OPENING OF BIDS?	QUOT	TED PRICES WERE READ OUT AT
30)	WHET	HER EVALUATION REPORT GIVEN TO	BIDD	ERS BEFORE THE AWARD OF
		copy of the bid evaluation report)		Yes. ✓ No

31) AN	Y COMPLAINTS RE	CEIVED	[v	es	
	es, result thereof)			cs	
			N	o	/
	Y DEVIATION FRO es, give details)	M SPECIFICATION		1	DER NOTICE / DOCUMENTS
				es	
22) 11/4	S THE EXTENSION	I MADE IN DESDO		lo	✓
	S THE EXTENSION res, give reasons)	MADE IN RESPO		'es	
	6		7	lo	✓
	VIATION FROM QUes, give detailed reas		40-0-0-0-0-0-0-0-0-0-0-0-0-0-0-0-0-0-0-	'es	
			1	No	/
	S IT ASSURED BY ACK LISTED?	Y THE PROCURIN	G AGENCY TH	AT TI	HE SELECTED FIRM IS NOT
SUF BE		S IN CONNECTION	N WITH THE PR	OCUR	ROCURING AGENCY TO THE LEMENT? IF SO, DETAILS TO LOAD: Yes No
	RE PROPER SAFE E CONTRACT (BAN			ZATIO	ON ADVANCE PAYMENT IN Yes / No
	CIAL CONDITIONS res, give Brief Descri			es (
		EXECUTIVE	ENGINEER	*6	V
	Official Stamp of zed Officer		ngs Division No.II, achi		

<u>SPPRA, Block. No.8, Sindh Secretariat No.4-A, Court Road, Karachi</u> Tele: 021-9205356; 021-9205369 & Fax: 021-9206291

Print Save Reset



KARACHI FISHERIES HARBOUR AUTHORITY

Government of Sindh

Ref: KFHA/ /8/ /2018 Dated: 20-06-2018

M/s. Haji Syed Ameer Brothers Office B-2, Block Q, North Nazimabad Karachi.

Subject: Rehabilitation & Renovation of Karachi Fish Harbour - External Services
(Part-I) Package "A" Civil Works
-Letter of Acceptance(Work Order)

Reference is made to your Bid dated 01-02-2018 for the above mentioned works, Identification No. KFHA/ADP/ENG/04/2018.

- 2. Karachi Fisheries Harbour Authority is pleased to accept your Bid Amount equivalent of Rs.563,916,350/- (Rupees Five Hundred Sixty Three Million Nine Hundred Sixteen Thousand Three Hundred Fifty only) as corrected and modified in accordance with the Instructions to Bidders, for the execution of subject work; subject to the Conditions of Contract, Technical Specifications, Bidding Drawings.& the following conditions:
 - a) The work shall be performed strictly in accordance with the conditions set out in the Bidding and Contract Document.
 - b) Time is of essence of the project and with issuance of Engineer's / Employer's notice to commence; you will be required to complete the Work within 457 (Four Hundred Fifty Seven Calendar Days) as required under Sub-Clause 8.2 of Conditions of Contract and Special Stipulations as per the Contract Document.
 - c) You will be liable to pay liquidated damages as per Sub-Clause 8.7 of Conditions of Contract and as per Contract document to the Employer in case of any delay in the completion of the Project beyond the stipulated period under (b) above.
 - d) The B.O.Q unit rates included in the Contract will not be subject to change for any reason whatsoever, except as provided in the Bidding Documents as per Sub-Clause 13.8 of the Conditions of the Contract and will be considered the Bidding rates for all contractual purposes.
 - e) All conditions/stipulations requests if attached with your Bid whether made a part of your Bid or otherwise are to be treated as null and void. The Bidding conditions contained in Volume I, II and III of the Bidding Documents along with minutes of pre bid meeting shall be applicable and considered as part of the Contract Agreement.

F

 You are required to furnish Guarantees and Insurance policies as per the contract.

- 4. You are required to depute your authorized representative(s) with proper Power of Attorney for the purpose of accepting and executing the Contract Agreement with the Karachi Fisheries Harbour Authority on form set out in the Bidding Documents on non-judicial stamp paper of appropriate value.
- 5. You are required to furnish the Performance Security within 28 days after receipt of Letter of Acceptance as per Instructions to Bidders, IB.32 and Sub-Clause 4.2 of Conditions of Contract as per Contract Document.
- 6. After furnishing of acceptable Performance Security under the Conditions of Contract, the Employer will send within 14 days the Contract Agreement incorporating all agreements between the parties as per Instructions to Bidders, IB.33.
- The formal Agreement between the Employer and the Contractor shall be executed within 14 days after receipt of the Contract Agreement by the Contractor from the Employer as per Instructions to Bidders, IB.33.
- 8. You will commence the work within 14 days from the date of receipt of the Engineer's Notice to commence.
- M/s National Engineering Services Pakistan (Pvt.) Ltd. (NESPAK) appointed for the purpose shall act as "Engineer" under the Conditions of the Contract.
- 10. Till such time a formal Contract Agreement is executed, this Letter of Acceptance along with your offer as detailed above shall constitute a binding agreement between us.
- 11. Please sign, date, affix your Company's seal and return one copy of the Letter of Acceptance in token of your acceptance of this Letter of Acceptance.

ACCEPTED

ESB.

(BaqaullahUnnar) Managing Director

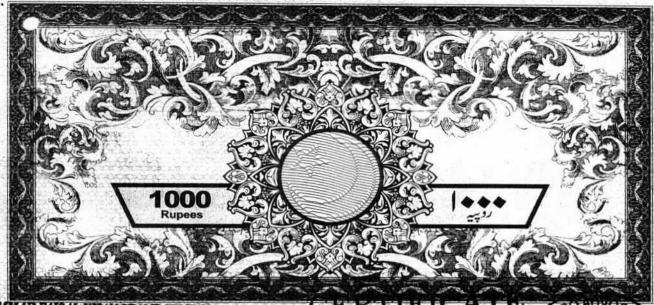
Date: 20-06-2018

(Signature of Authorized Representatives and Seat)

M/s Haji Syed Ameer & Brothers B-2, Block -Q, North Nazimabad, Karachi.

Copy to:

- 1. P.S. to Minister Livestock & Fisheries Department, Govt. of Sindh, Karachi.
- 2. P.S. to Secretary Livestock & Fisheries Department, Govt. of Sindh, Karachi.
- 3. Engr. Ali Nawaz Shaikh, Project Manager, NESPAK.



MUHAMMAD FAISAL KHAN STAMP VENDOR

Licence No. 124, Shop No. S-7, Maymar Tower

Gulshan-e-Maymar Karachi. 2 3

S. No. 1003891 Date that Stamp duty of Rs 17.3 How has been recovered vide Challan has been recovered vide Chal

day of July (month) 2018 between KARACHI FISHERIES HARBOUR

AUTHORITY Located at "Fish Harbour West Wharf Road Karachi" (hereafter called the "Employer") of the one part and M/s HAJI SYED AMEER &BROTHERS Located at "B-2 Block-Q North Nazimabad Karachi" (hereafter called the "Contractor") of the other part.

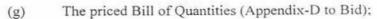
WHEREAS the Employer is desirous that certain Works, viz Rehabilitation and Renovation of Karachi Fish Harbour — External Services (Part-I) Package "A"—Civil Work should be executed by the Contractor and has accepted a Bid by the Contractor for the execution and completion of such Works and the remedying of any defects therein.

NOW this Agreement witnesseth as follows;

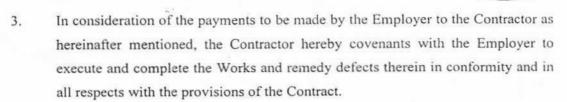
- In this Agreement words and expressions shall have the same meanings as are respectively assigned to them in the Conditions of Contract hereinafter referred to.
- 2. The following documents after incorporating addenda, if any, except those parts relating to Instructions to Bidders shall be deemed to form and be read and construed as part of this Agreement, viz:
 - (a) The Contract Agreement;
 - (b) The Letter of Acceptance;
 - (c) The completed Form of Bid;
 - (d) Special Stipulations (Appendix-A to Bid);
 - (e) The Particular Conditions of Contract Part II;
 - (f) The General Conditions Part I;

(ABDUL QADIR SHAIKH)
EXECUTIVE ENGINEER
PROVINCIAL BUILDING DIVISION-IF
KARACHI

-US



- (h) The completed Appendices to Bid (B, C, E to L);
- (i) The Drawings;
- (j) The Specifications.
- (k) Any other Documents



4. The Employer hereby covenants to pay the Contractor, in consideration of the execution and completion of the Works as per provisions of the Contract, the Contract Price or such other sum as may become payable under the provisions of the Contract at the times and in the manner prescribed by the Contract.

IN WITNESS WHEREOF the parties hereto have caused this Agreement to be executed on the day, month and year first before written in accordance with their respective laws.

Signature of the Contactor

(Seal)

Signature of Employer
(ABDUL QADIR SHAIKH)
EXECUTIVE ENGINEER
(Seal) PROVINCIAL BUILDING DIVISION-II

Signed, Sealed and Delivered in the presence of:

Witness:

MK. Ainuddin

E-662 BLOCK R'N. NAZ

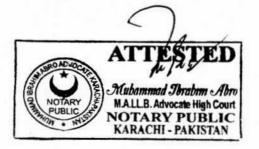
SHAMROZ GONSTRUCTION COMPANY

Name, Title and Address)

MR. ATA YLLAH MUHAMMAD M/s. CRYSTAL PARAMOUNT CONSTRUCTION

4-41 Brak GIN MASIMABA

(Name, Title and Address)



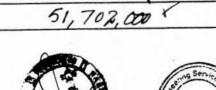
EHABIL: ION AND RENOVATION OF KARACHI () HARB(EXTERNAL SERVICES (PART-I) PACKAGE "A" - CIVIL WORKS

SUMMARY OF COST

		DESCRIPTION	4	AMOUNT IN PAK.RUBEES
01	De	Works.		14378700
			Sub-Total	14328400
02	Water	Supply System		
	2a.	External Piping Network		
	C.	Civil Works		7.059,750
	P.	Piping Works		6,722,000
			Sub-Total	13,814,750
				/
	2b.	Underground Water Tank, F	Pump Room	1
	C.	Civil Works		41,218,500
	P.	Piping Works		9,991,000
	E.	Electrical Works		3946,000
			Sub-Total	55,455,500
				c /
	2c.	Water Tower		27134 800
	C.	Civil Works		1505000
		Plumbing Works	20015001	27/15
/	(E.)	Electrical Works	2,081,500/	30.221.300
		10	Sub-Total	31351300
			Sub-Total	21,221,300
			,	
03	Sewa	ge System.	•	
03		ge System. External Sewage Network		
03	Sewa 3a.	ge System. External Sewage Network Civil Works		41, 613, oce 10,039,000

Sub-Total









SUMMARY OF COST

CODE		DESCRIPTIO	N	AMOUNT IN PAK.RUPEES
	3b.	Sewage Lift Station 1&2		
	C.	Civil Works		13 6 7200
	Р	Piping Works		13 16 7 200 15 180, 500 C
	E.	Electrical Works		1820, 20 1
		way and the latest		
			Sub-Total	31,569,2001
04	Fire F	ighting System		£
	C.	Civil Works		12,135,300
	P.	Piping Works		12, 135, 3 m 22, 960, cons 66.16, 000
	E.	Electrical Works		6616,000
		ar ar	Sub-Total	41711300
			oub-rotar	17,77,900
05	A = = !!!	lary Buildings		
03	5a.	Guard Room 1&2		
	C.	Civil Works		2,335,800
	E.	Electrical Works		1,138,000
			Sub-Total	2,335, 800 1,138, 000 3,473, 800
	er.	Consider Boom		
	5b. C.	Security Room Civil Works		3610,000
	E.	Electrical Works		1,750,000
			Sub-Total	5,360,000
	3 - 12-2	To U.S. Disab		
	5c.	Toilet Block		2672300
	C.	Civil Works		512 800
	P. E.	Plumbing Works Electrical Works		585000
	€.	Electrical AAOLY2		3,770,100
			Sub-Total	3 770 100



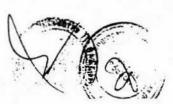




SUMMARY OF COST

	<u>L</u> _	DESCRIPTION		AMOUNT IN JAK.RUPEES
	5d. C. P.	Public Toilet Block (3.Nos) Civil Works Plumbing Works Electors and arks		1024 000 8
			Sub-Total	1/301,100
	5e. C. P.	Gate Houses (Main KFH Boo Civil Works Plumbing Works	undary Wall Gates)	5.339, 200 2527, 500 2502,000
	E.	Electrical Works		2,502,000
			Sub-Total	9,368,700
	5f. C.	Boundary Wall (Water Work Civil Works	(S)	8,330,700
			Sub-Total	8,330,700
	11			
06		nal Electrical Work		2750, ou
	C. E.	Civil Works Electrical Works		20, 938, one
	L .	Lieutidai VVIII S	4	()
			Sub-Total	73,688, con
	6a	CCTV System for Harbour.		
	6a. C.	CCTV System for Harbour. Civil Works		5,900,000
		180		5,900,000 7,000,000
	C.	Civil Works	Sub-Total	7,000,000
	C.	Civil Works	Sub-Total	5,900,000 7,000,000
	C.	Civil Works	Sub-Total	12,900,000
	C. E.	Civil Works Electrical Works	Sub-Total	7,000,000





JMMARY OF COST

CODE	DE	SCRIPTION	AMOUNT IN PAN.RUPEES
07	Main KFHA Boundary W	all	41 344 200
100	C. Civil Works		
		Sub-rotal	41,749,000
08	Pre investigation for R.C).Plant	5.00,000
	(41)	Sub-Total	500,000
09	Roads Three head y a grand Total Amount in Serry SIX	rive M	165,117,500
	Roads To Manual In Three head ye want of the crown of three head ye was a second of the crown o	Sub-Total	165,117,500
oriect	in crox tree his la	GRAND TOTAL OF ALL CODE	563,916,350
er Fifty	howard		(563,91641/18)
dixteen	Grand Total Amount in	Words: FIFTY STY	CRORE FORTY FIVE L
-49.	FORTY SIX	THOUSAND THE	PEE HANDREN & FIFTY
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REHABILIT ON AND IOVATION OF KARACHI FISH HARB(2 EXTERNAL SERVICES (PART-I) PACKAGE "A" - CIVIL WORKS BILL OF QUANTITIES

CODE NO.01 DEMOLITION WORKS

Item	Description	Unit	Quantity	Rate	Amount
No.	*		12	(Rs.)	-: 3.)

C. CIVIL WORKS

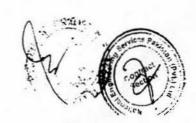
DEMOLITION WORKS

Ref. Sec.No. 0200

01-1C Demolition/ cutting of following existing structures/ buildings including disposal of demolished/ dismantled materials to designated places, complete in all respect as shown on the drawings, specifications and as directed by the Engineer.

	1) Toilets	No.	2	800,000	1600,000
	1) Water Works consisting:				
	a) Water Tower	Job	1	800,000	800,000
	b) Underground Water Tank	Job	1	800,000	800,000
	c) Office	Job	2	800,000	1600,000
	d) Pump Room	Job	1	800,000	1600,000 800,000
	High Mast Tower including foundations & gear control rooms.	No.	11	2.00,000	2200,000
	3) Perimeter Boundary Wall including gates.	RM	2400	766	1,838,400
01-2C	Demolition of existing asphalt pavement road including base, sub-base and disposal of dismantled material to designated places complete in all respect as shown on the drawings, specifications and as directed by				
	the Engineer.	Sq.m	22,100	100	2,210,000





CODE NO.01 DEMOLITION WORKS

Item No.	Description	Unit	Quantity	Rate (Rs.)	Amount _ (Rs.)
01-3C	Demolition/ removal of Existing Structures, kerb stones, footpaths etc. falling within the ROW including disposal of dismantled/ removed materials to reasonated places as shown on the drawings or as directed by the Engineer.	Job	1	800,ev	800,000
01-4C	Demolition of existing reinforced concrete pavement including base, sub-base and disposal of dismantled material to designated places complete in all respect as shown on the drawings, specifications and as directed by the Engineer.	Sq.m	14,000	120	1,6 80,000
	Total Amount			· · · · · · · · · · · · · · · · · · ·	422860

Carried over to summary of cost





KARACHI FISHERIE HARBOUR AUTHORITY REHABILITATION AND RENOVATION OF KARACHI FISH HARBOUR EXTERNAL SERVICES (PART-I) PACKAGE "A" - CIVIL WORKS BILL OF QUANTITIES

CODE NO	A A A LALA TED	SUPPLY SYSTEM	
$(.1111) \leftarrow N1$	III WAIFR	SUPPLY SYSIEM	

Item No.	Description	Unit	Quantity	Rate (Rs.)	Amoun*
	02a, External Piping Works.				
	C. CIVIL WORKS				
	EARTHWORKS Ref.Spec. No.1100				
02a-1C	Excavation of trenches in all kinds of subsurface material up to following depths including dewatering and disposal of surplus/rejected excavated material to designated places.				
	a) 0 - 2 meter	Cu.m.	4155	600	2,493,000
02a-2C	Fill & backfill with selected material obtained from required excavation.	Cu.m.	3695	2a	2,493,000 739,000
02a-3C	Fine sand bedding including compaction.	Cu.m.	385	1300	500,500
	PLAIN AND REINFORCED CONCRETE Ref. Sec.No. 2300, 2100				,
02a-4C	Class 'E' concrete using specified cement in foundations.	Cu.m.	5	10,000	50,000
02a-5C	Class 'B' reinforced concrete using specified cement in following manholes/ chambers structures complete in all respect as shown on the drawings.				
	a) Base Slab	Cu.m.			105000
	b) Walls	Cu.m.	32	13000	416,000
	c) Top Slab	Cu.m.	. 7	13000	91,000
02a-6C	Class 'C' plain concrete using specified cement including M.S. anchor bars in thrust blocks.		5	1300	65000





i:

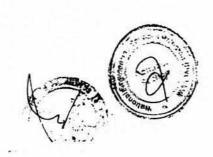
Item No.	Description	Unit	Quantity	Rate (Rs.)	Amount (Rs.)
	REINFORCEMENT				
	Ref. Sec.No. 2200				
2a-7C	Grade 60 deformed hot rolled and allel bars				-
	conforming to ASTM A-615.	tonne	5	125∞	0212 o
	CAST IRON COVERS WITH FRAME & LADE	ER RU	NGS		
	Ref.Sec. 5233				
2a-8C	Cast iron cover with frame of following sizes				
	including fixing complete in all respects as				
	shown on the drawing and specifications. (Heavy Duty)				
	a) 600 mm x 600 mm	No.	22	8000	176,00
)2a-9C	20mm dia. M.s. galvanised ladder rungs including fixing and fixing accessories complete in all respect as shown on the				
	drawings.	No	105	1000	10500
	STEEL PIPE & FITTINGS				
	Ref.Sec. 5214				
2a-100	Steel pipe conforming to API 5L (8mm wall thickness) sleeves on road crossings.				
	i) 250mm	Rm	.41	10,000	410,000
	ii) 150mm	Rm	41	10,000	410,000
	THRUST BORING Ref.Sec. 5820				
2a-110	Thrust Boring below road for providing dia. Following dia steel pipe conforming to API 5L				
	(8mm wall thickness) sleeves for pipe				



crossings.

i) 250mm

ii) 150mm



41 10,000 410,000 41 10,000 410,000

Rm

Rm

Item -	Description	Unit	Quantity	Rate	Amount
No.				(Rs.)	(Rs.)

WATER PROOFING AND BUILT-UP ROOFING

Ref. Sec.No.6411

02a-12C Two coats of hot bitumen g: 10/20 applied at the rate of 1 kg./Sq.m. per coat to all exposed structural concrete surfaces in contact with earth.

Sq.m.

350 154250

Total Amount Carried over to summary of cost





KARACHI FISHERIES HARBOUT. AUTHORITY REHABILITATION & RENOVA N OF KA. CHI FISH HARBOUR EXTERNAL SERVICES (PART - I) PACKAGE "A" - CIVIL WORKS BILL OF QUANTITIES

CODE NO.02 WATER SUPPLY SYSTEM.

Item	Description	Unit	Quantity	Rate	Amount
No.	-	9		(Rs.)	(Rs.)

02a. External Water Supply Network

P. PIPING WORKS

POLY ETHYLENE PIPES & PIPE FITTINGS

Ref. Spec. No. 5213 & 5280

02a-1P H.D.P.E. Pipes PN-10 (SDR 17) conforming to ISO-4427:1996 and fittings conforming to ISO-3458 of following diameters as shown on drawing and as specified.

a) 225 mm (O.D.)	Rm	100	3500	350,000
b) 180 mm (O.D.)	Rm	1,350	2500	3,375,000
c) 110 mm (O.D.)	Rm	1,850	1000	1850,000
d) 75 mm (O.D.)	Rm	350	1000	350,000

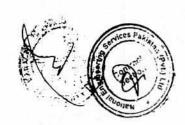
VALVES AND APPURTENANCES

Ref. Spec. No. 5220

02a-2P Cast iron flanged gate valve of the following diameters conforming to BS 5163 or equivalent, PN 10 as shown on drawing and as specified.

a) 180 mm	No.	8	20,000	400,000
b) 110 mm	No.	6	30,000	180,000
c) 75 mm	No.	3	50,000	150,000





116.

CODE NO.02 WATER SUPPLY SYSTEM.

Item	Description	Unit	Quantity	Rate	Amount
No.				(Rs.)	(Rs.)

02a-3P Cast iron flanged double acting air valve including approved isolating valves of the following diameters as per AWWA C512 or BS equivalent, PN-10 of Western European or Japan origin as shown on drawings and as specified.

a) 25 mm

.....

....

No.

2 50,000 100,000

Total Amount Carried over to summary of cost





KARACHI FISHERIES HARBOUR AUTHORITY REHABILITATION AND RENOVATION F KARACH FISH HARBOUR EXTERNAL SERVICES (PART- I) PACKAGE "A" - CIVIL WORKS **BILL OF QUANTITIES**

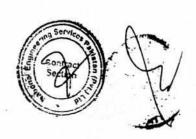
CODE	NO.02	WATER	SUPPLY	SYSTEM.
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Item No.	Description	Unit	Quantity	Rate (Rs.)	Amount (Rs.)
,	02b. Under ground Water Tank, Pump Room	<u>ı. </u>			
	C. CIVIL WORKS				
	EARTHWORKS Ref.Spec. No.1100				
02b-1C	Excavation of trenches in all kinds of sub- surface material up to following depths				
	including dewatering and disposal of surplus/rejected excavated material to designated places.				
	a) 0 - 2 meter	Cu.m.	1425	600	825,00
	b) 2 - 4 meter	Cu.m.	1500	600	772
02b-2C	Fill & backfill with selected material obtained from required excavation.	Cu.m.	450	200	90,000
	STONE SOLING Ref. Sec.No. 1330				
02b-3C	400mm thick compacted stone soling.	Sq.m.	710	1200	852,000
02b-4C	100mm thick compacted stone soling.	Sq.m.	85	1200.	852,000 102,000
	TERMITE CONTROL TREATMENT Ref.Spec. No.1600				
02b-5C	Termite control treatment.	Sq.m.	710	1000	710,000
	REINFORCEMENT Ref. Sec.No. 2200				
02b-6C	Grade 60 deformed hot rolled billet steel bars conforming to ASTM A-615.	tonne	100	120,000	12,000,000
	PLAIN AND REINFORCED CONCRETE Ref. Sec.No. 2300, 2100				
02b-7C	Class 'E' concrete using specified cement in foundations.	Cu.m.	70	10,000	700,000
١.	/ SYE37 *	\circ	mib La.		1 1 =

ODE NO.02 WATER SUPPLY SYSTEM.

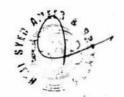
Item No.	Description	Unit	Quantity	Rate (Rs.)	Amount (Rs.)
02b-8C	Class 'C' plain cement concrete floor using ordinary Portland cement in Ramp etc.	Cu.m.	3	16,000	48,000
-,'∵.•9C	Class 'D' plain cement concrete using ordinary Portland cement in plinth protection		• ==		
	including bitumen seal.	Cu.m	1	500	1600
02b-10C	Class 'A' fair faced reinforced concrete in following sub- structures using specified cement including water proofing admixture BETOCRETE-C16 and Polypropylene fibrous (Duracrete 25mm Fibrillated DCF-25/13 or approved equivalent) complete in all respect as shown on the drawings & specifications.				
	a) Base slab including pads	Cu.m.	455	15,000	6925,000
	b) Column	Cu.m.	23	16,000	368,000
	c) Walls	Cu.m.	90	16000	1440,000
	d) Slab including beams	Cu.m.	207	16000	3,312,000
02b-11C	Class 'B' reinforced concrete in following super structures using specified cement complete in all respect as shown on the drawings & specifications.				
	a) Beams	Cu.m.	30	16000	480,000
	b) Columns	Cu.m.	50	16000	800,000
36	c) Screed over double tee roof	Cu.m.	60	18000	1080,000
	d) Slab & Projection	Cu.m.	18	18,000	324,000
	d) Purdi	Cu.m.	4	25,000	100,000

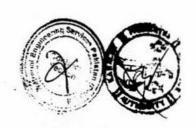




CCE NO.02 WATER SUPPLY SYSTEM.

Item No.	Description	Unit	Quantity	Rate (Rs.)	Amount (Rs.)
	PRECAST PRESTRESSED CONCRETE UNIT DOUBLE TEE ROOF SYSTEM				
, comment	Ref. Sec.No. 2550	nk)	.,		QII
02b-12C	Precast prestressed fairfaced Class 'A1' reinforced concrete double & single tee roof as per design including steel reinforcement, steel strands for prestressing, and steel embedding parts complete in all respect as shown on the drawings and specifications.	Sq.m.	550	6,000	3300,20
	BLOCK MASONRY Ref. Sec.No. 4100				
02b-13C	Reinforced block masonry of the following thicknesses set in 1:6 cement sand mortar.				
	a) 200mm thick solid	Cu.m.	50	12000	600,000
	CEMENT PLASTER Ref. Sec.No. 6521				
02b-14C	12mm thick 1:4 cement sand plaster to specified interior surfaces.	Sq.m.	885	800	708,000
02b-15C	20mm thick 1:4 cement sand plaster to specified exterior surfaces.	Sq.m.	280	800	
02b-16C	20mm thick, 1:4 cement sand smooth Water proof plaster to specified surfaces.	Sq.m.	990	1200	1,1.88,000
	FLOOR AND WALL FINISHES Ref. Sec.No. 6600				
02b-17C	100mm thick Class 'D' cement concrete sub- floor.	Sq.m.	15	32∞	48,000
02b-18C	Chequred tile floor using of size 300x300x25mm thick in approved colour laid in approved pattern set in specified cement sand mortar including Class 'C' cement				
	concrete screed base complete in all respect as shown on the drawings & specifications.	Sq.m.	86	2000	172,000

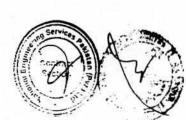




CODE - 0.02 WATER SUPPLY SYSTEM.

٢	Item	Description	Unit	Quantity	Rate	Amount
	No.			= 1 =1	(Rs.)	(Rs.)
		WATER PROOFING AND BUILT-UP ROOFIN	IG			
		Ref. Sec.No.6411				
	02b-1	Water proofing and built-up roofing over slab		1.25		
	020	us per specifications and as shown on the				
		drawings.	Sq.m.	580	1200	מספ דרכן
		Substituted by the Control of the Co	5 q .111.	300	, 5	,500
	02b-20C	Two coats of hot bitumen grade 10/20				
		applied at the rate of 1 kg./Sq.m. per coat to				
		all exposed structural concrete surfaces in			0.0	
		contact with earth.	Sq.m.	640	53c	صح الراح
	201 240					,
	02b-21C	Water proofing at construction joint				
		comprising swellable thermoplastic expensive water stop (INDU-FLEX-CJ13 or equivalent),				
		Crystallin water proof slurry (AQUAFIN-1C or				
		equivalent) @ 1kg./Sq.m. to specified			38	
		concrete surfaces and polypropylene based				
		tape (ASO-JOINT-TAPE 2000 or equivalent)				
		embedded between two layers of polymer		্ ছিং		
	-	modified cementitious coating (AQUAFIN-2C or equivalent) complete in all respect as				
		shown on the drawings and specifications.	R.m.	100	300	300,000
	100		18.111.	100	300	300,00
	02b-22C	Flexible cementitious surface water proofing				
		(Aquafin 2K/M, Product of Schomburg				
		Germany or approved equivalent) to				
		specified surfaces complete in all respect as shown on the drawings and as per				
		shown on the drawings and as per manufacturer's instruction.	Sq.m.	1,100.0	1000	1100,000
		manufacturer a matruottori.	Sq.m.	1,100.0	100	1,100,000
		CAST IRON COVERS WITH FRAME & LADD	ER RU	INGS		
		Ref. Sec.No. 5233		arcust		
	001 000	20 di- M				
	02b-23C	20mm dia. M.s. galvanised ladder rungs including fixing and fixing accessories				
		complete in all respect as shown on the				
	ra l	drawings.	No	42	3000	126,000
		page traine WEF	.10	72	2 3 - 0	, _
		STRUCTURAL STEEL WORKS				
		Ref.Spec. No. 3000				
	02b-24C	Steel doors and ventilators as per design		- 6		
		including specified paint system, hardwares and all accessories complete in all respect				
		as shown on the drawings & specifications.	Kg.	3.000	350	1050,000
		and the state of t	. 19.	-1		

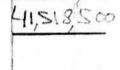




CODE NO 1/2 WATER SUPPLY SYSTEM.

'ltem No.	Description	Unit	Quantity	Rate (Rs.)	Amount (Rs.)
	PAINTING Ref.Spec. No. 6700			*	
02b-25C	apper paint to specified surfaces on ceiling incluiding sealer primer.		ε.	*	
	centing including Sealer printer.	Sq.m.	335	300	100500
02b-26C	Three coats of Aqua matt emulsion paint to specified interior surfaces including Aqua primer and surface preparation complete in all respect as shown on the drawings and specifications.	Sq.m.	550	400	220,000
02b-27C	Three coats of (comprising Aqua primer X, Aqua flex ,Aqua shield or approved equivalent) of approved quality, colour & shade applied upto desired finish to specified exterior surfaces including primer and				
	surface preparation complete in all respect as per specifications.	Sq.m.	280	400	.112000

Total Amount Carried over to summary of cost







KARACHI FISHERIES HARBOUR AUTHORITY REMABILITATION & RENOVATION OF KARACHI FISHERARBOUR EXTERNAL SERVICES (PART - I) PACKAGE "A" - CIVIL WORKS BILL OF QUANTITIES

CODE NO.02 WATER SUPPLY SYSTEM.

	Item No.	Description	Unit	Quantity	7.77	Amount (Rs.)
100		02b. Under-ground Water Tank & Pump Roo	om			
		P. PIPING / PLUMBING WORKS				
		STEEL PIPES & PIPE FITTINGS				
		Ref. Spec. No. 5214 and 5280				
	02b-1P	Black steel pipes including fittings of the following diameters conforming to API 5L Grade 42 as shown on the drawings, as specified or as directed by the Engineer.				
		a) 300 mm	Rm	40	5, can	2.00,000

a) 300 mm	Rm	40	7,	,,,,
b) 150 mm	Rm	50	400	200, ar
c) 75 mm	Rm	3	4000	1200

02b-2P Galvanized mild steel U-turned vent pipes of following diameters:

a) 100 mm

No. 4 50,000 200,000

CAST IRON COVER WITH FRAMES & LADDER RUNGS
Ref. Spec. No. 5233

02b-3P Galvanized M.S. ladder rungs 20 mm dia. as specified.

No. 32 2,000 640m

VALVES AND APPURTENANCES

Ref. Spec. No. 5220

02b-4P Cast iron flanged gate valve on fire water line of the following diameters conforming to BS 5163 or equivalent, PN 16 of Western European or Japan origin as shown on drawing and as specified.

a) 300 mm No. 2 20,000 40,000 b) 150 mm No. 3 100,000 300,000





CODE NO.02 WATER SUPPLY SYSTEM.

Item No.	Description	Unit	Quantit	y Rate (Rs.)	Amount (Rs.)
	c) 75 mm	No.	1	100,00	0 100,000
02b-5P	Cast iron fleshing gate valve on potable water line of the following diameters conforming to BS 5163 or equivalent, PN 10 of Western European or Japan origin as shown on drawing and as specified.			<i>a</i>	
	a) 150 mm	No.	5	100,000	500,000
02b-6P	Cast iron flanged check valves on fire water line of the following diameter conforming to BS 5153 or equivalent PN 16 of Western European or Japan origin as shown on drawing and as specified.				
	a) 150 mm	No.	3	100,000	300,000
	b) 75 mm	No.	1	100,000	100,000
02b-7P	Cast iron flanged check valves on potable water line of the following diameter conforming to BS 5153 or equivalent PN 10 of Western European or Japan origin as shown on drawing and as specified.				
	a) 150 mm	No.	3	35000	102000
02b-8P	Surge relief valve of following diameters including all accessories as shown on the drawings and as specified:				vr :
	a) 100 mm	No.	1	50,000	20,000
	b) 75 mm	No.	1	Soporo	50,000
02b-9P	Float valve shall be of copper alloy piston type & conform to BS 1212 including float shall be of copper conforming to BS 1968.				
	a) 75 mm	No.	1	100,000	100,000





CODE NO.02 WATER SUPPLY SYSTEM.

Item No.	Description	Unit	Quantity	Rate (Rs.)	Amount (Rs.)
	PUMPING MACHINERY AND ACCESSORIES Ref. Spec. No. 5240				
02b-10P	Deep well turbes stable water purip and motor of the following capacity and head including all accessories, pressure guage, etc.			æ	A
	a) Q = 140 US GPM	No.	3	500,000	12 00000
02b-11P	H = 4 bars Deep well turbine fire water pump and motor of the following capacity and head including all accessories, pressure guage, pressure switch, etc.				
	a) Q = 500 US GPM	No.	3	1500,000	4500,00
	H = 7.5 bars				
02b-12P	Deep well turbine fire water jockey pump and motor of the following capacity and head including all accessories.				
	a) Q = 100 US GPM H = 8.5 bars	No.	1	200,000	200,000
02b-13P	Water level indicator with level switches for stopping of potable pumps as specified.	No.	1	10,000	10,000
02b-14P	Girder and pulley block arrangement for 3 ton lifting capacity as shown on drawings and as specified.	No.	1	Soooo	500,000
02b-15P	Pipe support as shown on drawing.	No.	20	19,000	200,000
02b-16P	MISCELLANEOUS STEEL WORKS Ref. Spec. No. 3100 6.4 mm thick hinged steel cover and frame of the following sizes, complete in all respect:				
	a) 1000 mm x 1000 mm (4 No.)	Kg	250	200	

CODE NO.02 WATER SUPPLY SYSTEM.

Item	Description	Unit	Quantity	Rate	Amount
No.				(Rs.)	(Rs.)

02b-17P Mild steel overflow funnel of following size:

a) Dia. 100 x 150

No.

1

50,00

50,000

Total Amount
Carried over to summary of cost

9,991,000







KARACH FIST HARBOUR AUTHORITY

REHABILITAT 1 & RENG. TION OF KARACHI FISH HARBOUR

EXTERNAL SERVICES (PART-I)
PACKAGE "A" - CIVIL WORKS
BILL OF QUANTITIES

CODE NO. 02: WATER SUPPLY SYSTEM.

Item	Description	Unit	Quantity	Rate	Amount
No.				(Rs.)	11 1

02b. UG Tank, Pump Room.

E. ELECTRICAL WORKS

Supply, installation, testing and commissioning of the following items of work (unless specifically stated otherwise) including all material, labour, tools, plant, accessories, related civil works, etc., required for proper completion of each item as per specifications (Section-8001 "General Specifications for Electrical Works" shall be applicable to all BOQ items).

and the second second

MOTOR CONTROL CENTRES

Ref. Sec. No. 8132, 8133,8135,8240

02b-1E Following MCC (as per single line diagram shown on drawing.) including all control wiring, foundation, mounting arrangement, related civil works and all accessories, etc., complete in all respects:

a) MCC-PW

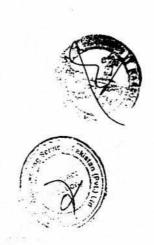
Job 1 800,000 80

LIGHT FIXTURES

Ref. Spec. Sec. 8150, 8212, 8240

02b-2E Following lighting fixtures with fluorescent or compact fluorescent or incandescent lamps or as per lighting fixture schedule installed on surface or on false ceiling complete with all accessories such as lamps, lamp holders, ballast, starters, capacitors, as applicable, etc. and all relevant installation material as approved by the Engineer:





CODE NO. 02: WATER SUPPL, SYSTEM.

Item	Description	Unit	Quantity	Rate	Amount
No.		1,000,000		(Rs.)	(Rs.)

a) Type A1

Surface mounted batten light fixture body made of cold rolled (CRC) sheet pretreated, painted and every enameled in white color with 1X36W fluorescent lamp. Diffuser made of clear prismatic pattern acrylic sheet.

No. 30 50,000 1500 US

LOW TENSION CABLES

Ref. Spec. Sec. 8212

02b-3E Following sizes single core/multi core PVC insulated and PVC sheathed, unarmoured copper conductor cables in already installed surface mounted/concealed PVC conduit or underground PVC pipe or on cable tray, for power and miscellaneous wiring including all accessories:

a) 3 core 6 sq.mm PVC/PVC

RM 40 3000 120,000

WIRING

Ref. Sec. 8212,8220,8230,8240,8290

02b-4E Wiring of Distribution Board (DB) to contactor controlled, first light point with 3(1x2.5 sq.mm) single core copper conductor, PVC cable complete with appropriate size surface mounted medium duty GI conduit and all accessories, etc. including two coats of suitable weather resistant matt finish paint on entire length of surface GI conduits and all accessories, complete in all respects.

No. 3 50,000 150,000

02b-5E Wiring from light point to point (Contactor controlled) with 3(1x2.5 sq.mm) single core copper conductor PVC cable complete with appropriate size surface mounted medium duty GI conduit and all accessories, etc. including two coats of suitable weather resistant matt finish paint on entire length of surface GI conduits and all accessories, complete in all respects.

No. 27 13000 351,000



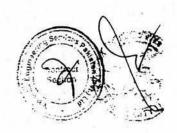


CODE NO. 02: WATER SUPPLY 5. STEM.

Description

Item No.	Description	Unit	Quantity	Rate (Rs.)	Amount (Rs.)
02b-6E	Wiring of 16A, 250 Volt socket outlets with single core, copper conductor, PVC cable complete with appropriate size surface and attended medium duty. GI conduit and all accessories, etc. including two coats of suitable weather resistant matt finish paint on entire length of surface GI conduits and all accessories, complete in all respects.				
	a) From Distribution Board (DB) to outlet with 3(1x2.5 sq.mm) cable.	No.	2	50,020	ממניי יהיין
	b) From outlet to outlet with 3(1x2.5 sq.mm) cable.	No.	8	50,0 00	you, can
	WIRING ACCESSORIES Ref. Spec. Sec.8220			*	
02b-7E	16 Amp, 250 Volt, 2 pin + earth, schuko socket outlet with sheet steel surface back box and all accessories.	No.	10	15,av	150,a0
	Ref. Spec. Sec. 8212, 8240				185
02b-8E	Following sizes of single core PVC insulated copper conductor cable as earth continuity conductor (ECC) installed on surface or on already installed cable tray or on already installed pipes/conduits or in trench etc.				8
	a) 6 sq. mm.	RM	40	5000	200, ord
02b-9E	600 mmx 600 mm x 3 mm tin plated copper Plate type earth electrode including 2x70 sq.mm PVC copper conductor cable as earthing lead, inspection chamber with medium duty C.I cover, 50 mm dia medium duty G.I. pipe as shown on				
	50 mm dia medium duty G.I pipe as shown on drawings, complete in all respect.	No.	1	So,ao	50,000





CODE NO. 02: WATER SUPPLY SYS " M.

Item	Description	Unit	Quantity	Rate	Amount
No.				(Rs.)	(Rs.)

MISCELLANEOUS ITEMS

Ref. Spec. Sec. 8290

02b-10E Following sizes perforated G.I. shake trays powder coated after fabrication including cover, joints, bend, mounting brackets hanger complete with all accessories:

> 100mmX50mm a)

15 5,000 75,000 10 5,000 50,000

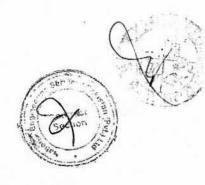
300mmX75mm

RM

RM

Total Amount 3,946





10,000 3

325

R.m.

REHABILITATION AND RENO OF TO RACHI FISH HARBOUR EXTERNAL SERVICES (PART-I) PACKAGE "A" - CIVIL WORKS BILL OF QUANTITIES

CODE NO.02 WATER SUPPLY SYSTEM.

a) 0 - 17 meters

Item No.	Description	Unit	Quantity	Rate (Rs.)	Amount (Rs.)
	02c. Water Tower.				
	C. CIVIL WORKS				
	EARTHWORKS Ref.Spec. No.1100				
02c-1C	Excavation of trenches in all kinds of subsurface material up to following depths including dewatering and disposal of surplus/rejected excavated material to designated places.				
	a) 0 - 2 meter	Cu.m.	145	600	
	b) 2 - 4 meter	Cu.m.	20	600	12000
02c-2C	Fill & backfill with selected material obtained from required excavation.	Cu.m.	90	300	27,000
	STONE SOLING Ref. Sec.No. 1330				
02c-3C	150mm thick compacted stone soling.	Sq.m.	65	1000	65000
	TERMITE CONTROL TREATMENT Ref.Spec. No.1600				+1
02c-4C	Termite control treatment.	Sq.m.	65	100	6500
	PILING WORKS Ref. Sec.No. 1520				
02c-5C	Load test on selected working pile onshore upto 195 tonnes as per ASTM 1143-81 (1987).		1	1,000,000	1,000,000
02c-6C	Drilling of boreholes upto following depth for piles 780mm diameter in all kinds of subsurface material including disposal of drilled material to designated places.				

CODE NO.02 WATER SUPPLY SYSTEM.

Item No.	Description	Unit	Quantity	Rate (Rs.)	Amount (Rs.)
02c-7C	Class 'A' reinforced concrete piles 760mm diametre using specified cement including water proofing admixture BETOCRETE- Or equivalent and Polypropylene fibrible (Duracrete 25mm Fibrillated DCF-25/13 or	•			
	approved equivalent) excluding the cost of reinforcement.	R.m.	290	15000	14,35¢ 000
02c-8C	Permanent steel liner (780mm dia.) 10mm wall thickness including specified paint system and driving etc. complete in all respect as				
	shown on the drawings and specifications.	R.m.	165	ו אוסטי	2,475,00
	REINFORCEMENT Ref. Sec.No. 2200				
02c-9C	Grade 60 deformed hot rolled billet steel bars conforming to ASTM A-615.	tonne	65	115,000	7, 475, 000
	PLAIN AND REINFORCED CONCRETE Ref. Sec.No. 2300, 2100				
02c-10C	Class 'E' concrete using specified cement in foundations.	Cu.m.	7	15,000	105,000
02c-11C	Class 'A' reinforced concrete in pile caps using specified cement including Polypropylene fibrous (Duracrete 25mm Fibrillated DCF-25 or approved equivalent) complete in all respect as shown on the drawings &				
	specifications.	Cu.m.	66	18,000	1,188,000
02c-12C	Class 'B' reinforced concrete in following sub- structures using specified cement complete in all respect as shown on the drawings & specifications.				
	a) Plinth Beams	Cu.m	. 4	16000	64, aer



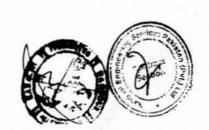


CODE NO.02 WATER SUPPLY SYSTEM.

Item Description

Item No.	Description	Unit	Quantity	Rate (Rs.)	Amount (Rs.)
02c-13C	Class 'A' fair faced reinforced concrete as per design in Over Head Water Tank using specified cement including water proofing admixture BETOCRETE C-16 and Polypropylene fibrous (Duracrete 25mm Fibrillated DCF-25 or approved equivalent) complete in all respect as shown on the drawings and specifications.				
	a) Walls	Cu.m.	75	19,00	1,350,000
	b) Slabs	Cu.m.	40	1300	720,000
	c) Beams	Cu.m.	10	19000	130,000
02c-14C	Class 'B' fair faced reinforced concrete in following super structures using specified cement complete in all respect as shown on the drawings & specifications.				
	a) Columns	Cu.m.	82	20,00	1,640,000
	b) Staircase	Cu.mi.	14	24,av	280,000
	c) Beams	Cu.m.	18	20,000	360,000
02c-15C	200mm wide Pvc Water stop.	R.m.	40	2000	360,000 80,000
	FLOOR AND WALL FINISHES Ref. Sec. No. 6600				
02c-16C	150mm thick Class 'D' cement concrete sub- floor	Sq.m.	65	2000	130,000
02c-17C	50mm thick Class 'C' cement concrete floor steel trowelled finished laid in panels.	Sq.m.	65	las.	65,000
	CEMENT PLASTER Ref. Sec.No. 6521				
02c-18C	20mm thick, 1:4 cement sand smooth Water proof plaster to specified surfaces.	Sq.m.	290	920	266, 300





ODE NO.02 WATER SUPPLY SYSTEM.

Item	Description	Unit	Quantity	Rate	Amount
No.				(Rs.)	(Rs.)

STRUCTURAL STEEL WORKS

Ref.Spec. No. 3000

C Staircase handrailing as per design comprising 40mm nominal dia Schedule 40 m.s. pipe handrail, middle rail and ballustrades etc. including specified painting and all accessories complete in all respect as shown on the drawings and as directed by the Engineer.

a) Floor mounted

R.m. 125 3000 37500

02c-20C Structural steel monkey ladder works including anchor bolts, embedding and specified painting/ coating complete in all respect as per specifications and as shown on the drawings.

Kg 1,000 1000 1,000,000

MISCELLANEOUS STEEL WORKS

Ref.Spec. No. 3100

02c-21C 6.4mm thick hinged steel cover and frame of the following sizes,complete in all respect as per specifications and as shown on the drawings.

Kg 60 350 21,000

CAST IRON COVERS WITH FRAME & LADDER RUNGS

Ref. Sec. No. 5233

02c-22C 20mm dia. M.s. galvanised ladder rungs including fixing and fixing accessories complete in all respect as shown on the drawings.

No 50 3000 150,000

WATER PROOFING AND BUILT-UP ROOFING

Ref. Sec.No. 6411

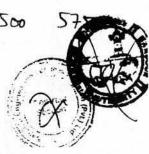
o2c-23C Water proofing and built-up roofing over slab as per specifications and as shown on the drawings.

Sq.m. 90 2000 ! 30,000

02c-24C Two coats of hot bitumen grade 10/20 applied at the rate of 1 kg./Sq.m. per coat to all exposed structural concrete surfaces in contact with earth.

Sq.m. 115 500





CUTE NO.02 WATER SUPPLY SYSTEM.

Item	Description	Unit	Quantity	Rate	Amount
No.				(Rs.)	(Rs.)

PAINTING

Ref.Spec. No. 6700

O2c hree coats of (comprising Aqua primer X, Aqua flex ,Aqua shield or approved equivalent) of approved quality, colour & shade applied upto desired finish to specified exterior surfaces including primer and surface preparation complete in all respect as per specifications.

Sq.m. 500

320

27

Total Amount Carried over to summary of cost





KARACHI FISHERIES HARBOUR AUTHORITY REHABIL.: ATION & RENOVATION OF KARACH: "SH HARBOUR EXTERNAL SERVICES (PART - I) PACKAGE "A" - CIVIL WORKS BILL OF QUANTITIES

CODE NO.02 WATER SUPPLY SYSTEM.

Item	Description	Unit	Quantit		Amount
No.	125.2		•	. : (Rs.)	(Rs.)
	02c. Water Tower				
	P. PIPING / PLUMBING WORKS				
	STEEL PIPES & PIPE FITTINGS				
	Ref. Spec. No. 3100, 5214 and 5280				
02c-1P	Black steel pipes including fittings of the following diameters conforming to API 5L				
	Grade 42 as shown on the drawings, as specified or as directed by the Engineer.				
	a) 200 mm	Rm	40	4,000	160,000
	b) 150 mm	Rm	110	3000	330,000
02c-2P	Galvanized mild steel U-turned vent pipes of following diameters:				
	a) 100 mm	No.	2	Solono	100,000
02c-3P	Removeable brass dome strainer of following diameters:				
*	a) 150 mm	No.	1	50,000	50,000
02c-4P	Black steel bell mouth inlet with flange of following diameters:				
	a) 150 mm	No.	1	25000	25000
02c-5P	Brass bucket strainer with flange of following diameters:				
	a) 200 mm	No.	1	Solar	50,000
02c-6P	M.S. puddle flange of following diameters:				
	a) 200 mm	No.	1	10,000	10,000
	b) 150 mm	No.	4	50,00	20,00
	c) 100 mm	No.	2	5,000	10,000

CODE NO.02 WATER SUPPLY SYSTEM.

Item	Description	Unit	Quantity	Rate	Amount
No.	1993 1993 2011 10 10 10 10 10 10 10 10 10 10 10 10			(Rs.)	(Rs.)

VALVES AND APPURTENANCES

Ref. Spec. No. 5220

Castain anged gate valve of the following diameters conforming to BS 5163 or equivalent, PN 10 of Western European or Japan origin as shown on drawing and as specified.

a) 225 mm

No.

1 200,000 200,000

b) 150 mm

No.

1 150,000 150,000

PUMPING MACHINERY AND ACCESSORIES

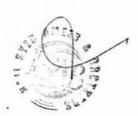
Ref. Spec. No. 5240

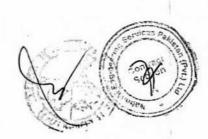
02c-8P

Water level indicator with level switches for start/stop of pumps in underground water tank as specified.

Total Amount Carried over to summary of cost

1.505,000 1,505,000





**ARACH FISH HARBOUR AUTHORITY HABILITA 'N & RENOVATION OF KARACHI FIS HARBOUN EXTERNAL SERVICES (PART-!) PACKAGE "A" - CIVIL WORKS BILL OF QUANTITIES

CODE NO. 02: WATER SUPPLY SYSTEM.

Item	Description	Unit	Quantity	Rate	Amount
No.	P - 1				(Rs.)

02c. Water ower.

E. ELECTRICAL WORKS

Supply, installation, testing and commissioning of the following items of work (unless specifically stated otherwise) including all material, labour, tools, plant, accessories, related civil works, etc., required for proper completion of each item as per specifications (Section-8001 "General Specifications for Electrical Works" shall be applicable to all BOQ items).

L.T. DISTRIBUTION BOARDS

Ref. Spec. Sec. 8133, 8212, 8240

02c-1E Following LT Distribution Boards (as per single line diagrams), recessed/surface mounted including all accessories, related civil works etc. complete in all respects.

a) DB-WT

Job 1 Savoao

200,000

LIGHT FIXTURES

Ref. Spec. Sec. 8150, 8212, 8240

02c-2E Following lighting fixtures with fluorescent or compact fluorescent or incandescent lamps or as per lighting fixture schedule installed on surface or on false ceiling complete with all accessories such as lamps, lamp holders, ballast, starters, capacitors, as applicable, etc. and all relevant installation material as approved by the Engineer.







Engineer's Estimate

CODE NO. 02: WATER SUPPLY SYSTEM.

Item No.	Description	Unit	Quantity	Rate	Amount
110.				(Rs.)	(Rs.)
	a) Type W3				196
	Surface mounted light fixture body made		- 1		
	of non-corrosive, high pressure die-cast		W 101		
	aluminium, stove enameled, painted in				
	white color with 2X11W compact				
	florescent lamp along with clear				
	polycarbonate diffuser.	No.	18	9.500	450.000
		140.	10	8,500	153,000
	b) Type OB				1 11
	Philips make type Obstruction light XGP-			T , 1 = 1 &	
	500 (OBSTIVION) or equivalent with low		3		(43)
	intensity long life led lamps, flasher,				
	glass cover, photo switch and sensor,				
	junction box, etc. IP65 with 2-meter-high				
	suitable G.I. pipe.	No.	. 1	24,000 `	24,000
					Te Company
	WIRING				
	Ref. Sec. 8212,8220,8230,8240,8290				
02c-3E	Wiring of light circuits from distribution board (DB)				
	to point/switch including wiring between switches	3			7 2
	on the same circuit with 3(1x2.5sq.mm) single core				2
	copper conductor PVC cable complete with			1/2	a a
137	appropriate size surface mounted medium duty G.I				
	conduit and all accessories, etc., including two				
	coats of matching weather resistant paint on entire	10			
	length of surface GI conduits.complete in all				
	respects.	1125		44.000	
		No.	2	11,000	22,000
00- 45	Militar from Enhalfen (substitute for point to quitch		÷ 1		
U2C-4E	Wiring from light/fan/exhaust fan point to switch			1.1.5	
	with 3(1x1.5sq.mm) single core copper conductor, PVC cable in appropriate size surface mounted	50 (94)			61 40
	medium duty G.I conduit, including ceiling rose, 10		a		
	Amps weather proof light control gang switch, sheet				
	steel surface back box, 3 core flexible cable and all				
	accessories, etc., including two coats of matching		8		
	weather resistant paint on entire length of surface				
	GI conduits, complete in all respect.	No	4.	4,500	4,500
		No.	1-	4,300	4,300



CODE NO. 02: WATER SUPPLY SYSTEM.

Item No.	Description	Unit	Quantity	Rate (Rs.)	Amount (Rs.)
02c-5E	Wiring of Distribution Board (DB) to contactor controlled, first light point with 3(1x2.5 sq.mm) single core copper conductor, PVC including appropriate size surface mounted medium duty GI conduits and all accessories including two coats of matching weather resistant paint on entire length of surface GI conduits etc., complete in all respect.	No.	6	30,000	180,000
02c-6E	Wiring from light point to point (Contactor controlled) with 3(1x2.5 sq.mm) single core copper conductor PVC cable including appropriate size surface mounted medium duty GI conduit and all accessories including two coats of matching weather resistant paint on entire length of surface GI conduits etc., complete in all respect.	No.	12	/ 30,000	369 <i>our</i>
02c-7E	Wiring of two way light points including wiring between the switches and 10A light control two way gang switch as required with 3(1x1.5 sq.mm) single core copper conductor PVC cable, including appropriate size surface mounted medium duty GI conduit, ceiling rose, 10 Amps two way light control gang switch, sheet steel back box, 3 core flexible cable and all accessories including two coats of matching weather resistant paint on entire length of surface GI conduits etc., complete in all respect.	No.	2	30,000	60,000
02c-8E	Wiring of 16A, 250 Volt socket outlets with single core, copper conductor, PVC cable complete with appropriate size surface mounted medium duty GI conduit and all accessories, etc. including two coats of suitable weather resistant matt finish paint on entire length of surface GI conduits and all accessories.			1	
	 a) From Distribution Board (DB) to outlet with 3(1x2.5 sq.mm) cable. 	No.	1	30,000	30,000







Item No.	Description	Unit	Quantity	Rate (Rs.)	Amount (Rs.)
	a) From Distribution Board (DB) to outlet			<	
	with 3(1x2.5 sq.mm) cable.	No.	1	50,000	Cr. iniv
	s, »,				!
	WIRING ACCESSORIES Ref. Spec. Sec.8220				
02c-9E	16 Amp, 250 Volt, 2 pin + earth, schuko			(
	socket outlet with sheet steel surface back box and all accessories.	11808000	San	50,000	Sojowa
	box and all accessories.	No.	1	2.0 ⁵ CDM	7 (GCC
	EARTHING Ref. Spec. Sec. 8212, 8240				
)2c-10E	600 mmx 600 mm x 3 mm tin plated copper Plate type earth electrode including 2x70 sq.mm PVC copper conductor cable as				
	earthing lead, inspection chamber with medium duty C.I cover, 50 mm dia medium duty G.I pipe as shown on drawings, complete in all respect.	No.	1	So,ow	Soors
		CATA SERVICE	1173	1 00	
2c-11E	19 mm dia, 3 meter long copper clad steel Rod type earth electrode including 2x70 sq.mm PVC copper conductor cable as earthing lead, clamp with nuts and bolts, R.C.C. inspection chamber with medium				
	duty C.I cover, excavation, backfilling, and all accessories, etc., as shown on the				
	drawings, complete in all respects.	No.	2	200,000	400 ou
	LIGHTNING PROTECTION				
	Ref. Spec. Sec. 8212, 8250				- 2 ²
2c-12E	2 meter high, 15 mm dia Air terminal	No.	1	1500	1200
2c-13E	25mmx3mm tinned copper strip as roof/down conductor installed on surface				
	including copper clamps and all mounting	RM	200	1500	200
	accessories etc.	IXIVI	200	1200	2m,m

CODE NO 02: WATER SULT Y SYSTEM

OODL NO.	OL. WATEROOF LI OTOTEM.				
Item	Description	Unit	Quantity	Rate	Amount
No.		A		(Rs.)	(Rs.)

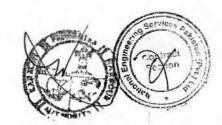
02c-15E Cad welding of the copper conductor with copper conductor and copper conductor with mild steel.

Job

100,000

Total Amount Carried over to summary of cost





KARACHI FISHERIF: :: ARBOUR AUTHORITY REHABILITATION A RENOVA ON OF KARACHI FISH HARBOUR EXIERNAL SERVICES (PART-I) PACKAGE "A" - CIVIL WORKS **BILL OF QUANTITIES**

CODE NO.03 SEWAGE SYSTEM

Item	Description	Unit	Quantity	Rate	Amount
No.				(Rs.)	(Rs.;

03a.External Sewage Network

C. CIVIL WORKS

	EARTHWORKS Ref.Spec. No.1100				
03a-1C	Excavation of trenches in all kinds of sub- surface material up to following depths including dewatering and disposal of surplus/rejected excavated material to designated places.				
	a) 0 - 2 meter	Cu.m.	9155	600	5,493,000
	b) 2 - 4 meter	Cu.m.	3305	600	1983,000
03a-2C	Fill & backfill with selected material obtained from required excavation.	Cu.m.	10270	300	3,081,000
03a-3C	Fine sand bedding including compaction.	Cu.m.	650	1800	1000 06 11
	PLAIN AND REINFORCED CONCRETE Ref. Sec.No. 2300, 2100		14	V	/
03a-4C	Class 'E' concrete using specified cement in foundations.	Cu.m.	42	15ovo	630,000
03a-5C	Class 'B' reinforced concrete using specified cement in following manholes/ chambers structures complete in all respect as shown on the drawings.				
	a) Base Slab	Cu.m.	70	18,000	1260,000
	b) Walls	Cu.m.	545	13000	7,085,000
	c) Top Slab	Cu.m.	70	18000	1260,000
03a-6C	Class 'C' plain concrete using specified				/

cement including M.S. anchor bars in thrust

blocks.

5 20,000 Cu.m.

100,000

CODE NO.03 SEWAGE SYSTEM

item	Description	Unit	Quantity	Rate	Amount
No.				(Rs.)	(Rs.)

03a-7C RCC Class 'B' cover of following sizes including fixing complete in all respects as shown on the drawing and specifical

600 mm x 600 mm

No.

132

REINFORCEMENT

Ref. Sec. No. 2200

03a-8C Grade 60 deformed hot rolled billet steel bars conforming to ASTM A-615.

tonne

!!Sax

CAST IRON COVERS WITH FRAME & LADDER RUNGS

Ref.Sec. 5233

03a-9C 20mm dia. M.s. galvanised ladder rungs including fixing and fixing accessories complete in all respect as shown on the drawings.

1,350 No

1000

1350,000

STEEL PIPE & FITTINGS

Ref.Sec. 5214

03a-10C Steel pipe conforming to API 5L (8mm wall thickness) sleeves on road crossings.

i) 300mm	Rm	166	18000	2,988,000
ii) 350mm	Rm	27	26000	702,000
iii) 400mm	Rm	27	35 00 0	945,000
iv) 450mm	Rm	39	32000	1,365,000/
v) 550mm	Rm	12	45000	

THRUST BORING

Ref.Sec. 5820

03a-11C Thrust Boring below road for providing dia. Following dia steel pipe conforming to API 5L (8mm wall thickness) sleeves for pipe crossings.

i) 300mm

Rm

ii) 350mm



270,000 10,000





CODE NO.03 SEWAGE SYSTEM

Item No.		Description	Unit	Quantity	Rate (Rs.)	Amount (Rs.)
	iii) 400mm		Rm	27	10,000	270,00
	iv) 450mm		Rm	39	10,000	390,60
	v) 550mm		Rm	12	10,000	120,06

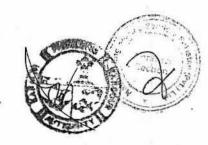
WATER PROOFING AND BUILT-UP ROOFING Ref. Sec.No. 6411

03a-12C Two coats of hot bitumen grade 10/20 applied at the rate of 1 kg./Sq.m. per coat to all exposed structural concrete surfaces in contact with earth.

765,000 Sq.m.

Total Amount Carried over to summary of cost





KARACHI FISHERIES MARBOUR AUTHORITY REHABILITATION & RENOVAT ALL OF KARACHI FISH HARBOUR EXTERNAL SERVICES (PART - I) PACKAGE "A" - CIVIL WORKS BILL OF QUANTITIES

CODE NO.03 SEWAGE SYSTEM

Item	Description	Unit	Quantity	Rate	Amount
No.	£	4.) 4		(Rs.)	(Rs.)

03a. External Sewage Network

P. PIPING WORKS

uPVC PIPES & PIPE FITTINGS

Ref. Spec. No. 5218 and 5280

03a-1P uPVC sewage pipes & fittings conforming to BS 3505 & BS 4346 of class B as specified of following pipe diameters:

a) 200 mm	R.m.	2,060	900	1854,000
b) 250 mm	R.m.	650	1500	975,000
c) 300 mm	R.m.	220	2,000	440,000
d) 350 mm	R.m.	360	2500	900,000
e) 450 mm	R.m.	260	2000	1300,000
f) 550 mm	R.m.	620	6,000	3720,000
g) 600 mm	R.m.	60	15000	900,000

Total Amount Carried over to summary of cost 10,083,000



KARACHI FISHERIES HARBOUR AUTHORITY REHABILITATION AND RENOVAT - JOF KAR, HI FISH HARBOUR PACKAGE "A" - CIVIL WORKS BILL OF QUANTITIES

CODE NO.03 SEWAGE SYSTEM

Item	Description	Unit	Quantity	Rate	Amount
No.				(Rs.)	(Rs.)

03b.Sewage Lift Station 1&2

C. CIVIL WORKS

EARTHWORKS

Ref.Spec. No.1100

03b-1C Excavation in all kinds of sub-surface materials upto following depths including dewatering and disposal of surplus/ rejected excavated materials to designated places.

	excavated materials to designated places.				
	a) 0 - 2 metere	Cu.m.	230	800	184,000
	b) 2 - 4 metere	Cu.m.	454	1000	454,000
	c) 4 - 6 metere	Cu.m.	65	1600	104, orc
03b-2C	Fill & backfill with selected material obtained from required excavation.	Cu.m.	560	400	224,000
	STONE SOLING				
	Ref. Sec.No. 1330				
03b-3C	100mm thick compacted stone soling.	Sq.m.	100	2 000	20000

TERMITE CONTROL TREATMENT

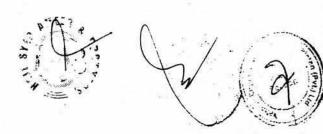
Ref.Spec. No.1600

03b-4C Termite control treatment. Sq.m. 100 / 000 / 000

REINFORCEMENT

Ref. Sec. No. 2200

03b-5C Grade 60 deformed hot rolled billet steel bars conforming to ASTM A-615. tonne 30 115000 3450,000



CODE NO.03 SEWAGE SYSTEM

Item No.	Description	Unit	Quantity	Rate (Rs.)	Amount (Rs.)
	PLAIN AND REINFORCED CONCRETE Ref. Sec.No. 2300, 2100				
	Nei: 3ec.No. 2300, 2100				
6C-نر	Class 'E' concrete using specified cement in foundations.	Cu.m.	40	18000	720,000
03b-7C	Class 'D' concrete using specified cement in steps & foundations etc.	Cu.m.	2	18000	36,000
03b-8C	Class 'D' plain cement concrete using ordinary Portland cement in plinth protection			a	
	including bitumen seal.	Sq.m	100	13000	1,300,000
03b-9C	Class 'B' reinforced concrete in following sub- structures using specified cement complete				
	in all respect as shown on the drawings & specifications.				
	a) Foundations/Grade Slab	Cu.m.	62	13000	80 b, 000
	b) Wall	Cu.m.	130	13000	1,690,000
	c) Pads	Cu.m.	2	20,000	40,000
03b-10C	Class 'B' reinforced concrete in following super structures using specified cement				
	complete in all respect as shown on the drawings & specifications.				
	a) Columns	Cu.m.	10	20,000	200,000
	b) Beams & lintels	Cu.m.	10	20,000	200,000
	c) Slabs & projections	Cu.m.	14	20,000	280,000
	d) Purdi	Cu.m.		$20,\infty$	80,000
	e) Precast Planks	Cu.m.	4	20,000	80,000







1.00			
CUDE	NO.03	SEWAGE	SYSTEM

STRUCTURAL STEEL WORKS

Ref.Spec. No. 3000

- GGG- 10 Mild steel Louvered Door, grill & Ventilators as per design including fixing and specified paint system complete in all respect as shown on the drawings and specifications.
- 3,810 300 1143,000
- 03b-12C Structural steel comprising angles, plates, chequered plates, Grating bars etc. including hot dipped galvanizing, fabrication, erection, embedding and painting comp'ete in all respect as shown on the drawings.
- 550 300 165,000
- 03b-13C Structural steel monkey ladder works including anchor bolts, embedding and specified painting/ coating complete in all respect as per specifications and as shown on the drawings.
- 600 300 180,000
- 03b-14C Handrailing as per design comprising 65mm nominal dia hot dipped galvanizing pipe handrail, middle rail and ballustrades etc. specified painting and all accessories complete in all respect as shown on the drawings and as directed by the Engineer.
- 12 2000 24000 R.m

BLOCK MASONRY

Ref. Sec. No. 4100

- 03b-15C Reinforced block masonry of the following thicknesses set in 1:6 cement sand mortar.
 - a) 150mm thick solid

Cu.m.

15000 330,000

CAST IRON COVERS WITH FRAME & LADDER RUNGS

Ref.Sec. 5233

- 03b-16C Cast iron cover with frame of following sizes including fixing. (Medium duty)
 - a) 750 mm x 750 mm

No.

2 50,000 100,000



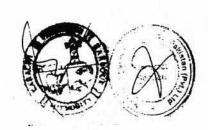




COLL NO.03 SEWAGE SYSTEM

Item No.	Description	Unit	Quantity	Rate (Rs.)	Amount (Rs.)
	20mm dia. M.s. galvanised ladder rungs including fixing and fixing accessories amplete in all respect as shown on the lawings.	No	720	300T	60,000
	CEMENT PLASTER Ref. Sec.No. 6521				
03b-18C	12mm thick 1:4 cement sand plaster to specified interior surfaces.	Sq.m.	272	१००	2:7600
03b-19C	20mm thick 1:4 cement sand plaster to specified exterior surfaces.	Sq.m.	316	1000	316,000
	FLOOR AND WALL FINISHES Ref. Sec.No. 6600				
03b-20C	75mm thick Class 'C' cement concrete floor.	Sq.m.	50	2000	100,00
03b-21C	Cement concrete skirting 100mm high including rough base plaster complete in all respect as shown on the drawings & specifications.	Sq.m.	4	4000	16,000
03b-22C	Chequred tile floor using of size 300x300x25mm thick in approved colour laid in approved pattern set in specified cement sand mortar including Class 'C' cement concrete screed base complete in all respect				
	as shown on the drawings & specifications.	Sq.m.	100	2000	200,000
	WATER PROOFING AND BUILT-UP ROOFIN Ref. Sec.No. 6411	<u>IG</u>			
03b-23C	Water proofing and built-up roofing over slab as per specifications and as shown on the drawings.		130	3000	390,000
03b-240	Two coats of hot bitumen grade 10/20 applied at the rate of 1 kg./Sq.m. per coat to all exposed structural concrete surfaces in				
	contact with earth.	Sq.m.	200	500	100,000





CODE NJ.03 SEWAGE SYSTEM

Item No.	Description	Unit	Quantity .	Rate (Rs.)	Amount (Rs.)
	PAINTING				
	Ref.Spec. No. 6700				
03h 25C	Disterniper paint to specified surfaces on		4	í	
030-230	ceiling inclulding sealer primer.	Sq.m.	52	300	15,600
03b-26C	Matt finish paint of approved make, quality, colour/ shade including wall sealer, primer, surfaces preparation to specified interior surfaces complete in all respect as shown on			ā	
41	the drawings and specifications.	Sq.m.	220	200	110,000
)3b-27C	Weather resistant paint of approved make, quality, colour shade including surfaces preparation to specified exterior surfaces			*	
	complete in all respect as shown on the drawings and specifications.	Sq.m.	308	San	154,000
	Total Amount Carried over to	sumn	nary of cost		13,769,20



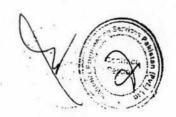


KARACHI FISHERIES HARBOUR AUTHORITY * HABILITATION & RENOVATION OF KARACHI FLATHARBOUR EXTERNAL SERVICES (PART - I) PACKAGE "A" - CIVIL WORKS **BILL OF QUANTITIES**

CODE NO.03 SEWAGE SYSTEM

Item No.	Description	Unit	Quantit	y	ente .s.)	Amount (Rs.)
110.	03b. Sewage Lift Station 1 & 2					(NS.)
	P. PIPING / PLUMBING WORKS				+	
	MS PIPES & PIPE FITTINGS					
	Ref. Spec. No. 5214					
001 40	Plack steel sizes including Shippe of the					
03b-1P	Black steel pipes including fittings of the following diameters conforming to API 5L					
	Grade 42 as shown on the drawings, as					
	specified or as directed by the Engineer.					
	a) 450 mm (6.4mm thick)	RM		6	30,000	180,00
	b) 350 mm (6.4mm thick)	RM ·		6	20,000	120,00
	c) 250 mm (6.4mm thick)	RM		1		ı
	c) 250 mm (6.4mm thick)	TXIVI			20,000	20,000
	d) 200 mm (6.4mm thick)	RM		1	20,000	20,000
	VALVES AND APPURTENANCES					
	Ref. Spec. No. 5220					
03b-2P	Cast iron flanged gate valve of the following diameters conforming to BS 5163 or equivalent, PN 10 of Western European or		78			
	Japan origin as shown on drawing and as specified.					
	a) 450 mm	No.		1	200,000	200000
	b) 350 mm	No.		1	300,000	300,000
	c) 250 mm	RM		3	200,000	600,000
	d) 200 mm	RM		3	200,000 200,000	600,00
						•





CODE NO.03 SEVVAGE SYSTEM

Item No.	Description	Unit	Quantity	Rate (Rs.)	Amount (Rs.)
03b-3P	Cast iron flanged check valve of the following diameters conforming to BS 5163 or equivalent in 10 of Western European or Japan or shown on drawing and as specified.			72. 14	
	a) 250 mm	No.	3	200,000	600,000
	b) 200 mm	No.	3	200,000	600,000
	PUMPING MACHINERY AND ACCESSORIES				
	Ref. Spec. No. 5240				
03b-4P	Submersible sewage pump (with cutter) and motor of the following capacity and head with level switches, electric cable, control panel, lifting arrangement, flexible pipe, (as per recommendation of manaufacturer) etc. including all accessories required for installation, maintenance and operation (complete in all respects). (two duty & one standby).				
a)	Discharge = 800 GPM				
15	Head = 10 meters	No.	3	1,500,000	4,5000
b)	Discharge = 650 GPM				641
	Head = 10 meters	No.	3	1500,000	4500,0
03b-5P	Water level indicator with level switches for				
	start/stop of pumps inside the wetwell at designated levels.	No.	16	25,000	400,00
03b-6P	Girder and pulley block arrangement for the following lifting capacities.				
a)	6 tonnes	No.	1	3 00 000	300,000
b)	5 tonnes	No.	1	200,000	200,000
03b-7P	1.5 meter stainless steel sluice gate with gear handle to be fixed as per Manufacturer's		91	I ms	2
	requirements and as shown on the drawing.	No.	2	1,000,000	2,000,00





JUNGTER

BILL OF QUANTITIES

CODE NO.03 SEWAGE SYSTEM

Item	Description	Unit	Quantity	Rate	Amount
No.				(Rs.)	. (Rs.)

STAINLESS STEEL MATERIAL & FININSHES

Ref. Spec. No. 3010

03b-8P Stainless steel par rack comprising of rectangular steel sections, stainless steel plate, stainless steel bolts and stainless steel angle etc. complete as shown on drawings.

j. 120

120

Total Amount
Carried over to summary of cost







KARACH FISH HARBOUR AUTHORITY

REHAB! TATION & NOVATION OF KARACHI FISH HARBOUR

EXTERNAL SERVICES (PART-I) PACKAGE "A" - CIVIL WORKS BILL OF QUANTITIES

CODE NO. 03: SEWAGE NETWORK SYSTEM.

Item	Description	Unit	Quantity	Rate	Amount
No.				(Rs.)	(Rs.)

03b. Sewage Line Station 1 & 2.

E. ELECTRICAL WORKS

Supply, installation, testing and commissioning of the following items of work (unless specifically stated otherwise) including all material, labour, tools, plant, accessories, related civil works, etc., required for proper completion of each item as per specifications (Section-8001 "General Specifications for Electrical Works" shall be applicable to all BOQ items).

MOTOR CONTROL CENTRES

Ref. Sec. No. 8132, 8133,8135,8240

03b-1E Following MCC (as per single line diagram shown on drawing.) including all control wiring, foundation, mounting arrangement, related civil works and all accessories, etc., complete in all respects.

a) MCC-SP (1 & 2)

Job 2 500,000 1000,000

LIGHT FIXTURES

Ref. Spec. Sec. 8150, 8212, 8240

- O3b-2E Following lighting fixtures with fluorescent or compact fluorescent or incandescent lamps or as per lighting fixture schedule installed on surface or on false ceiling complete with all accessories such as lamps, lamp holders, ballast, starters, capacitors, as applicable, etc. and all relevant installation material as approved by the Engineer.
 - a) Type A1 Surface mounted batten light fixture body made of cold rolled steel (CRC) sheet pretreated, painted and stove enameled in white color with 1X36W fluorescent lamp. Diffuser made of clear prismatic pattern acrylic sheet.

No. 6 50000

100



CODE NO. 03: SEWAGE NETWORK SYSTEM.

Item No.	Description	Unit	Quantity	Rate (Rs.)	Amount (Rs.)
	b) Type W1 Surface mounted light fixture body made of non-corrosive, high pressure die-cast aluminium, enameled, painted in white color with 2/11W compact florescent lamp along with clear polycarbonate	No.	2	25,000	
03b-3E	Ref. Sec. 8212,8220,8230,8240,8290 Wiring of light circuits from distribution board (DB) to point/switch including wiring between switches on the same circuit with 3(1x2.5sq.mm) single core copper cor:ductor PVC cable complete with appropriate size surface mounted medium duty GI conduit and all accessories, etc. including two coats of suitable weather resistant matt finish paint on entire length of surface GI conduits and all accessories, complete in all respect.	No.	2	25av	50,00
03b-4E	Wiring from light/fan/exhaust fan point to switch with 3(1x1.5sq.mm) single core copper conductor, PVC cable in appropriate size surface mounted medium duty G.I conduit, including ceiling rose, 10 Amps weather proof light control gang switch, sheet steel surface back box, 3 core flexible cable and all accessories, etc., including two coats of matching weather resistant paint on entire length of surface GI conduits. complete in all respect.	No.	4	2500	100,000
03b-5E	Same as item No. 03b-4E, but wiring from point to point.	No.	2 ,	10,000	20,000
03b-6E	Wiring of 16A, 250 Volt socket outlets with single core, copper conductor, PVC cable complete with appropriate size surface mounted medium duty GI conduit and all accessories, etc. including two coats of suitable weather resistant matt finish paint on entire length of surface GI conduits and all accessories, complete in all				
	 a) From Distribution Board (DB) to outlet with 3(1x2.5 sq.mm) cable. 	No.	2	25000	So, coo
	b) From outlet to outlet with 3(1x2.5 sq.mm)	No.	2	2,5000	Socoo







CODE NO. 03: SEWAGE N. WORK SYSTEM.

Item	Description	Unit	Quantity	Rate	Amount
No.			185	(Rs.)	(Rs.)

WIRING ACCESSORIES

Ref. Spec. Sec.8220

03b-7E 16 Amp, 250 Volt, 2 post th, schuko socket outlet with sheet steel surface back box and all accessories.

No. 4 25000

100,000

EARTHING

Ref. Spec. Sec. 8212, 8240

03b-8E 600 mmx 600 mm x 3 mm tin plated copper Plate type earth electrode including 2x70 sq.mm PVC copper conductor cable as earthing lead, inspection chamber with medium duty C.I cover, 50 mm dia medium duty G.I pipe as shown on drawings, complete in all respect.

No. 2 50,000

100,000

Total Amount 1820, 500





KARACHI FISHERIES HARBOUR AUTHORITY REHABILITATION AN RENOVAL IN OF KARACHI FISH HARBOUR EXTERNAL SERVICES (PART-I) PACKAGE "A" - CIVIL WORKS BILL OF QUANTITIES

CODE NO.04 FIRE FIGHTING SYSTEM

Item	Description	Unit	Quantity	Rate	Amount
-No.	, , set		SEVERITALISES.	(Rs.)	(Rs.)

C. CIVIL WORKS

EARTHWORKS

Ref.Spec. No.1100

04-1C Excavation of trenches in all kinds of subsurface material up to following depths including dewatering and disposal of surplus/rejected excavated material to designated places.

	a) 0 - 2 meter	Cu.m.	9060	600	5,436,000
04-2C	Fill & backfill with selected material obtained from required excavation.	Cu.m.	8011	300	2,403,300
04-3C	Fine sand bedding including compaction.	Cu.m.	25	2000	50,000

PLAIN AND REINFORCED CONCRETE

Ref. Sec.No. 2300, 2100

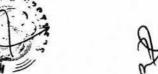
04-4C	Class 'E' concrete using specified cer	nent in	_	15000
	foundations.	Cu.m.	10 1500	15,000
			17	

04-5C Class 'B' reinforced concrete using specified cement in following manholes/ chambers structures complete in all respect as shown on the drawings.

a) Base Slab	Cu.m.	16	18000	288,000
b) Walls	Cu.m.	60	20,000	1,20000
c) Ton Slah	Cu.m.	16	20,00	320,000

04-6C Class 'C' plain concrete using specified cement including M.S. anchor bars in thrust blocks.

Cu.m. 5 70,000 100,000





CODE NO.04 FIRE FIGHTING SYSTEM

Item No.	Description	Unit	Quantity	Rate (Rs.)	Amount (Rs.)
580	REINFORCEMENT Ref. Sec.No. 2200				
04-7C	Grade 60 deformed hot rolled billet steel bars conforming to ASTM A-615.	tonne	0.1	180,00	! 3,000
	CAST IRON COVERS WITH FRAME & LADD Ref.Sec. 5233	ER RU	NGS		
04-8C	Cast iron cover with frame of following sizes including fixing complete in all respects as shown on the drawing and specifications. (Heavy Duty)				
	a) 600 mm x 600 mm	No.	31	2000	12.2
04-9C	20mm dia. M.s. galvanised ladder rungs including fixing and fixing accessories complete in all respect as shown on the drawings.	No	160	1900	160,000
	STEEL PIPE & FITTINGS Ref.Sec. 5214				
04-10C	Steel pipe conforming to API 5L (8mm wall thickness) sleeves on road crossings.				
	i) 300mm	Rm	58	10,000	580,000 340,000
	ii) 350mm	Rm	34	10,000	340,000
	THRUST BORING Ref.Sec. 5820				
04-11C	Thrust Boring below road for providing dia. Following dia steel pipe conforming to API 5L				

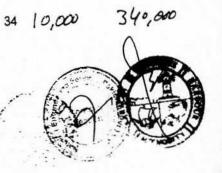


(8mm wall thickness) sleeves for pipe

crossings.

i) 300mm

ii) 350mm



58 10,000

Rm

Rm

CODE NO.04 FIRE FIGHTING SYSTEM

Item	Description	Unit	Quantity	Rate	Amount
No.				(Rs.)	(Rs.)

WATER PROOFING AND BUILT-UP ROOFING

Ref. Sec.No.6411

04-12C Two coats of hot bitumen grace 0.40 applied at the rate of 1 kg./Sq.m. per coat to all exposed structural concrete surfaces in contact with earth.

Sq.m. 300

500

150,000

Total Amount
Carried over to summary of cost

12,135,300







REHABILITATION & RENOVAT. OF KAKE, HI FISH HARBOUR EXTERNAL SERVICES (PART - I) PACKAGE "A" - CIVIL WORKS BILL OF QUANTITIES

CODE NO.04 FIRE FIGHTING SYSTEM

1	Item	Description	1 Unit	Quantity	Rate	Amount
٠	No.		*		(Rs.)	(Rs.)

P. PIPING WORKS

POLY ETHYLENE PIPES & PIPE FITTINGS

Ref. Spec. No. 5213

04-1P H.D.P.E. Pipes PN-16 conforming to ISO-4427:1996 and fittings conforming to ISO-3458 of following diameters as shown on drawing and as specified.

a) 355 mm	Rm	170	13,000	2210,000
b) 280 mm	Rm	1,900	4,000	7,600,000
c) 225 mm	Rm	3,350	3,000	10,050,000
d) 90 mm	Rm	20	5,000	100,000

FIRE HYDRANTS

Ref. Spec. No. 5220

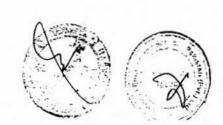
04-2P Above ground fire hydrant with two 65mm dia. outlet and one 100mm dia. outlet, valves, chain etc. including MS extension pipe, fitting and accessories complete in all respect as shown on the drawings, as specified and as directed by the Engineer.

No. 26 100,000 7,600

04-3P Below ground fire hydrant with 65mm dia. outlet, valves, chain etc. including MS extension pipe fitting and accessories complete in all respect as shown on the drawings, as specified and as directed by the Engineer.

No. 28 100,000 2,800,000





CODE NO.04 FIRE FIGHTING SYSTEM

Item	Description	Unit	Quantity	Rate	Amount
No.				(Rs.)	(Rs.)

VALVES AND APPURTENANCES

Ref. Spec. No. 5220

O4-4P Cast iron flanged gate valve of the following diameters conforming to BS 5163 or equivalent, PN 16 as shown on drawing and as specified.

a) 355 mm

b) 280 mm

c) 225 mm

No.

No.

2 %00,00

100

7,00,000

No. 9

9 100,000

900,000

04-5P Cast iron flanged double acting air valve including approved isolating valves of the following diameters as per AWWA C512 or BS equivalent, PN-16 of Western European or Japan origin as shown on drawings and as specified.

a) 50 mm

No.

2 300,000

600,000

Total Amount Carried over to summary of cost 27,960,000







KARACH FISH HARBOUR AUTHORITY

REHABILITATION & RENOVATION O ARACHI (A HARBOUR EXTERNAL SERVICES (PART-I) PACKAGE "A" - CIVIL WORKS BILL OF QUANTITIES

CODE NO. 04: FIRE FIGHTING SYSTEM

Item	Description	Unit	Quantity	Rate	Amount
. No.				(Rs)	(Rs.)

E. ELECTRICAL WORKS

Supply, installation, testing and commissioning of the following items of work (unless specifically stated otherwise) including all material, labour, tools, plant, accessories, related civil works, etc., required for proper completion of each item as per specifications (Section-8001 "General Specifications for Electrical Works" shall be applicable to all BOQ items).

MOTOR CONTROL CENTRES

Ref. Sec. No. 8132, 8133,8135,8240

04-1E Following MCC (as per single line diagram shown on drawing.) including all control wiring, foundation, mounting arrangement, related civil works and all accessories, etc., complete in all respects.

a) MCC-FW

Job 1 300,000 300,000

LOW TENSION CABLES

Ref. Spec. Sec. 8212

04-2E Following sizes single core/multi core PVC insulated and PVC sheathed, unarmoured copper conductor cables in already installed surface mounted/concealed PVC conduit or underground PVC pipe or on cable tray, for power and miscellaneous wiring including all accessories.

a) 3 dore 16 sq.mm PVC/PVC

24 %

48000

b) 3 core 70 sq.mm PVC/PVC

RM 84 900

RM

672 000







DDE NO. 04. FIRE FIGHTING SYSTEM

Item	Description	Unit	Quantity	Rate	Amount
No.				(Rs.)	(Rs.)

EARTHING

Ref. Spec. Sec. 8212, 8240

Following sizes of single core PVC insulated copper conductor cable as earth continuity conductor (ECC) installed on surface or on already installed cable tray or on already installed pipes/conduits or in trench etc.

> a) 16 sq. mm.

RM

35 sq. mm.

RM

04-4E 600 mmx 600 mm x 3 mm tin plated copper Plate type earth electrode including 2x70 sq.mm PVC copper conductor cable as earthing lead, inspection chamber with medium duty C.I cover, 50 mm dia medium duty G.I pipe as shown on drawings, complete in all respect.

1 /00,000 /00,000 Nos.

MISCELLANEOUS ITEMS

Ref. Spec. Sec. 8290

04-5E Following sizes perforated G.I. sheet cable trays powder coated after fabrication including cover, joints, bend, mounting brackets hanger complete with all accessories:

100 mm x 50 mm

RM

20 Sove 100,000 15 Sove 120,000

750 mm x 100 mm

RM

Total Amount Carried over to summary of cost







KARACHI FISHERIES HARBOUR AUTHORITY REHAM JITATION AND RENOVATION OF KALL SHI FISH TEXTROUR **EXTERNAL SERVICES (PART-1)** PACKAGE "A" - CIVIL WORKS **BILL OF QUANTITIES**

CODE NO.05 ANCILLIARY BUILDINGS.

Item	Description	Unit	Quantity	Rate	Amount
No	V.		1.600	(Rs.)	(Rs.)

05a. Guard Room 1& 2

C. CIVIL WORKS

EARTHWORKS

Ref.Spec. No.1100

05a-1C	Excavation	in	all	kinds	of	sub-surface
	materials	upto	follo	wing	depth	s including
	dewatering	and	dispo	osal of	surpl	us/ rejected
	excavated	mate	rials t	o desig	gnated	places.

	excavated materials to designated places.				(
	a) 0 - 2 metere	Cu.m.	28	500	16,800
	b) 2 - 4 metere	Cu.m.	5	600	3,000
05a-2C	Fill & backfill with selected material obtained from required excavation.	Cu.m.	25	3 ow	75000
	STONE SOLING Ref. Sec.No. 1330				(
05a-3C	100mm thick compacted stone soling.	Sq.m.	21	zav	42000
05a-4C	150mm thick compacted stone soling.	Sq.m.	15	Zao	30,000 /
05a-5C	300mm thick compacted stone soling.	Sq.m.	12	now	30,000 /
	TERMITE CONTROL TREATMENT				

Ref.Spec. No.1600

48 1000 48000 05a-6C Termite control treatment. Sq.m.

REINFORCEMENT

Ref. Sec. No. 2200

05a-7C Grade 60 deformed hot rolled billet steel bars conforming to ASTM A-615.

tonne





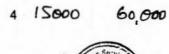
CODE NO.05 ANCILLIARY BUILDINGS.

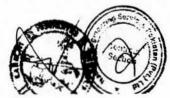
item No.	Description	Unit	Quantity	Rate (Rs.)	Amount (Rs.)
	PLAIN AND REINFORCED CONCRETE				
	Ref. Sec. No. 2300, 2100				
	1		241		
05a-8C	Class É' concrete using specified cement in			i)	/
	foundations.	Cu.m.	3	! 5,000	15 m
				,,,,,	, , ,,,,,,,
05a-9C	Class 'D' concrete using specified cement in				/
	steps & foundations etc.	Cu.m.	4	18000	72 200
					. 27-00
)5a-10C	Class 'D' plain cement concrete using				,
	ordinary Portland cement in plinth protection			. 1	2.6
	including bitumen seal.	Cu.m.	2	13000	3600
)En 110	Close IPI reinforced expenses in falleuring and				
Joa-11C	Class 'B' reinforced concrete in following sub- structures using specified cement complete				
	in all respect as shown on the drawings &				
	specifications.				/
					2
	a) Foundations	Cu.m.	4	18000	7200
					' (
	b) Plinth beam	Cu.m.	2	20,000	40,00
	c) Column upto plinth	Cu.m.	1	18000 20,000 20,000	20,0
NEO 120	Class 'B' reinforced concrete in following				
J5a-120	super structures using specified cement				
	complete in all respect as shown on the				
	drawings & specifications.				
					. (
	a) Columns	Cu.m.	2	20,000	40,00
					1. /
	b) Beams & lintels	Cu.m.	2	20,000	40,00
			20	2	1~
	c) Slabs & projections	Cu.m.	5	20,000	100,00
	d) Purdi	Cu.m.	2	2	Lie
	d) Purdi	ou.iii.	2	20,000	70,00
	ALUMINIUM WORKS				
	Ref. Sec.No. 6220, 6250				
	waso antikus tustusi salis				/
05a-13C	Anodized aluminium glazed sliding windows				/
	including 5mm thick clear glass and hardware				/
	set as per schedule complete in all respect as				1
	shown on the drawings			15	



Sq.m.

shown on the drawings.

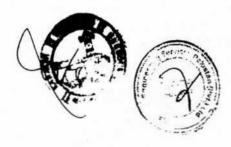




CODE NO.05 ANCILLIARY BUILDINGS.

Item No.	Description	Unit	Quantity	Rate (Rs.)	Amount (Rs.)
	BLOCK MASONRY Ref. Sec.No. 4100				
05a-14C	Reinforces block masonry of the following thicknesses set in 1:6 cement sand mortar.				
	a) 150mm thick solid	Cu.m.	7	15000	1050
	CEMENT PLASTER Ref. Sec.No. 6521				
05a-15C	12mm thick 1:4 cement sand plaster to specified interior surfaces.	Sq.m.	90	1200	1080
05a-16C	20mm thick 1:4 cement sand plaster to specified exterior surfaces.	Sq.m.	110	1500	165,0
	FLOOR AND WALL FINISHES Ref. Sec.No. 6600				
05a-17C	100mm thick Class 'D' cement concrete sub- floor.	Sq.m.	15	1500	2150
05a-18C	Porcelain tile floor using of size 600x600mm in approved colour laid in approved pattern set in specified cement sand mortar including Class 'C' cement concrete screed base complete in all respect as shown on the				,
	drawings & specifications.	Sq.m.	16	10,000	160,00
05a-19C	Porcelain tile skirting 100mm high using tile of approved size, colour and quality laid in approved pattern including rough base plaster complete in all respect as shown on the				,
	drawings & specifications.	Sq.m.	3	12000	3600
05a-20C	Chequered tile floor using of size 300x300x25mm thick in approved colour laid in approved pattern set in specified cement sand mortar including Class 'C' cement concrete screed base complete in all respect				
	as shown on the drawings & specifications.	Sq.m.	21	12000	252,





CODE NO.05 A. SILLIARY BUILDINGS.

Item No.	Description	Unit	Quantity	Rate (Rs.)	Amount " (Rs.)
	WATER PROOFING AND BUILT-UP ROOFIN	<u>IG</u>			1
	Ref. Sec.No. 6411				
5a-210	Water proofing and built-up roofing over slab			A market	
	as per specifications and as shown on the drawings.	Sq.m.	35	1500	52500
5a-22C	Two coats of hot bitumen grade 10/20 applied at the rate of 1 kg./Sq.m. per coat to all exposed structural concrete surfaces in			1	
	contact with earth.	Sq.m.	52	500	26,000
	CARPENTRY & JOINERY Ref.Spec. No. 4600, 6700			•	
5a-23C	Wooden doors including hardwares set as per schedule and paint complete in all				1
	respect as shown on the drawings.	Sq.m.	5	15000	· 75,00
	PAINTING Ref.Spec. No. 6700				
5a-240	Distemper paint to specified surfaces on			1	6
	ceiling inclulding sealer primer.	Sq.m.	25	600	15,000
5a-250	Matt enamel paint of approved make, quality, colour/ shade including wall sealer, primer, surfaces preparation to specified interior surfaces complete in all respect as shown on		5		/
	the drawings and specifications.	Sq.m.	70	1000	70,000
5a-260	Weather resistant paint of approved make, quality, colour/ shade including surfaces preparation to specified exterior surfaces complete in all respect as shown on the			1500	
	drawings and specifications.	Sq.m.	110	(15000)	165,0

Total Amount
Carried over to summary of cost

2, 335, 800







KARACH FISH HARBOUR AUTHORITY

REHAMILITATION CRENOVATION OF KARACHI FISH HAMDOUR
EXTERNAL SERVICES (PART-I)
PACKAGE "A" - CIVIL WORKS
BILL OF QUANTITIES

CODE NO. 05: ANCILLARY BUILDING

Item	Description	Unit	Quantity	Rate	Amount
No.	Sescription	Offic	Quantity	(R:	_ (Rs.)

05a. Guard Room 1 & 2.

E. ELECTRICAL WORKS

Supply, installation, testing and commissioning of the following items of work (unless specifically stated otherwise) including all material, labour, tools, plant, accessories, related civil works, etc., required for proper completion of each item as per specifications (Section-8001 "General Specifications for Electrical Works" shall be applicable to all BOQ items).

LT DISTRIBUTION BOARDS

Ref. Spec. Sec. 8133, 8212, 8240

05a-1E Following LT Distribution Boards (as per single line diagrams), recessed/surface mounted including all accessories, related civil works etc. complete in all respects.

a) DB-GR-1 & 2

Job 2 150,000 300,000

LIGHT FIXTURES

Ref. Spec. Sec. 8150,8240

05a-2E Following lighting fixtures with fluorescent or compact fluorescent or incandescent lamps or as per lighting fixture schedule installed on surface or on false ceiling complete with all accessories such as lamps, lamp holders, ballast, starters, capacitors, as applicable, etc. and all relevant installation material as approved by the Engineer.

a) Type A1

Surface mounted batten light fixture body made of cold rolled steel (CRC) sheet pretreated, painted and stove enameled in white color with 1X36W fluorescent lamp. Diffuser made of clear prismatic pattern acrylic sheet.

No. 4 25000

100,000



CODE NO. 05: ANCILLARY BUILDING

Item No.	Description	Unit	Quantity	Rate (Rs.)	Amount (Rs.)
	b) Type W1 Surface mounted light fixture body made of non-corrosive high pressure die-cast aluminium, surface nameled, painted in white color with 1X11W compact florescent lamp along with clear polycarbonate diffuser. WIRING	No.	2		Sc,000
	Ref. Sec. 8212,8220,8230,8240,8290				
05a-3E	Wiring of light circuits from distribution board (DB) to point/switch including wiring between switches on the same circuit with 3(1x2.5sq.mm) single core copper conductor PVC cable complete with appropriate size surface/ concealed PVC conduit and all accessories etc., complete in all respect.	No.	2	15000	30,000
05a-4E	Wiring from light/exhaust fan point to switch with 3(1x1.5 sq.mm) single core copper conductor PVC cable, including appropriate size surface/ concealed PVC conduit, ceiling rose, 10 Amps light control gang switch, sheet steel back box, 3 core flexible cable and all accessories etc., complete in all respect.	No.	6	15000	90,000
)5a-5E	Wiring of 16A socket outlets with single core, copper conductor PVC cable complete with appropriate size concealed / surface PVC conduit and all accessories etc., complete in all respects.				
	 a) From Distribution Board (DB) to outlet with 3(1x2.5 sq.mm.) cable. 	No.	2	30,000	60,000
	 From outlet to outlet with 3(1x2.5 sq.mm.) cable. 	No.	2	30,000	60,000
	WIRING ACCESSORIES Ref. Spec. Sec.8220, 8290				
05a-6E	16 amps, 250 volts, 2 pin + earth Schuko socket outlett, with sheet steel back box and all accessories.	No.	4	30,000	120,00







CODE NO. 05: ANCILLA BUILDING

Item No.	Description	Unit	Quantity	Rate (Rs.)	Amount (Rs.)
05a-7E	Sheet steel backbox with plastic cover plate including all mounting and installation accessories.	No.	2	50,000	100,00
	Ref. Spec. Sec.8230			40	w-, - y
05a-8E	25 mm dia PVC conduit installed concealed including all mounting and installation accessories.	RM.	20	10,000	200,00
	EARTHING Ref. Spec. Sec. 8212, 8240				
05a-9E	600 mmx 600 mm x 3 mm tin plated copper Plate type earth electrode including 2x70 sq.mm PVC copper conductor cable as earthing lead, inspection chamber with medium duty C.I			8	
	cover, 50 mm dia medium duty G.I pipe as shown on drawings, complete in all respect.	No.	2 /	2,000	4,000
	MISCELLANEOUS Ref. Spec. Sec. 8290				
05a-10E	56" sweep, single phase, 250V, ceiling fan including fan speed regulators / dimmers,fan hook and all mounting accessories, as required,				
	complete in all respects.	No.	2	12,000	24000
	. 39 - 31 Hill				/





Total Amount 1138, 200



KARACHI FISHERIES HARBOUR AUTHORITY REHABILITATION AND RENCES ON OF KARACHI FISH HARBOUR EXTERNAL SERVICES (PART-I) PACKAGE "A" - CIVIL WORKS BILL OF QUANTITIES

CODE NO.05 ANCILLIARY BUILDINGS.

Item	Description	Unit	Quantity	Rate	Amount
No.				(Rs.)	(Rr

05b. Security Room

C. CIVIL WORKS

EARTHWORKS

Ref.Spec. No.1100

05b-1C Excavation in all kinds of sub-surface materials upto following depths including dewatering and disposal of surplus/ rejected excavated materials to designated places.

	excavated materials to designated places.				
	a) 0 - 2 metere	Cu.m.	52	600	31,200
	b) 2 - 4 metere	Cu.m.	9	600	5,400
05b-2C	Fill & backfill with selected material obtained from required excavation.	Cu.m.	47	300	14,100
	STONE SOLING Ref. Sec.No. 1330				
05b-3C	100mm thick compacted stone soling.	Sq.m.	35 .	2000	70,000
05b-4C	150mm thick compacted stone soling.	Sq.m.	30	2000	60,000
05b-5C	300mm thick compacted stone soling.	Sq.m.	25	200	50,000
	TERMITE CONTROL TREATMENT				1

TERMITE CONTROL TREATMENT

Ref.Spec. No.1600

05b-6C Termite control treatment. Sq.m. 87 1000 87000

REINFORCEMENT

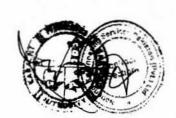
Ref. Sec.No. 2200

05b-7C Grade 60 deformed hot rolled billet steel bars conforming to ASTM A-615.

tonne

4 160,000 640,000





CODE NO.05 ANCILLIARY BUILDINGS.

Item No.	Description	Unit	Quantity	Rate (Rs.)	Amount (Rs.)
	PLAIN AND REINFORCED CONCRETE				
	Ref. Sec.No. 2300, 2100				
05b-8C	Class 'E' concrete using specific cement in foundations.	Cu.m.	4	15000	60,000
05b-9C	Class 'D' concrete using specified cement in foundations.	Cu.m.	4	18000	72,000
05b-10C	Class 'D' plain cement concrete using ordinary Portland cement in plinth protection including bitumen seal.	Cu.m.	4	18000	72,000
05b-11C	Class 'B' reinforced concrete in following sub- structures using specified cement complete in all respect as shown on the drawings & specifications.				
	a) Foundations	Cu.m.	7	20,000	
	b) Plinth beam	Cu.m.	4	20,000	80,000
	c) Column upto plinth	Cu.m.	3	20,000	60,000
05b-12C	Class 'B' reinforced concrete in following super structures using specified cement				
	complete in all respect as shown on the drawings & specifications.	×		•	
	a) Columns	Cu.m.	3	20,000	60,000
	b) Beams & lintels	Cu.m.	4	20,00	80,000
	c) Slabs & projections	Cu.m.	7	Wo,ow	140,000
	d) Purdi	Cu.m.	2	Zoon	80,000 140,000 40,000
	ALUMINIUM WORKS Ref. Sec.No. 6220, 6250				

05b-13C Anodized aluminium glazed sliding windows including 5mm thick clear glass and hardware set as per schedule complete in all respect as shown on the drawings.

Sq.m. 6 15000 90,000



Item Description

Item No.	Description	Unit	Quantity	Rate (Rs.)	Amount (Rs.)
	BLOCK MASONRY Ref. Sec.No. 4100				
05b-14C	Reinforced block masonry of the so owing thicknesses set in 1:6 cement sand mortar.				
	a) 150mm thick solid	Cu.m.	13	:5000	195,000
	CEMENT PLASTER Ref. Sec.No. 6521				
05b-15C	12mm thick 1:4 cement sand plaster to specified interior surfaces.	Sq.m.	165	1200	198,000
05b-16C	20mm thick 1:4 cement sand plaster to specified exterior surfaces.	Sq.m.	160	1500	249,000
	FLOOR AND WALL FINISHES Ref. Sec.No. 6600				
05b-17C	100mm thick Class 'D' cement concrete sub- floor.	Sq.m.	30	2000	60,000
05b-18C	Porcelain tile floor using of size 600x600mm in approved colour laid in approved pattern set in specified cement sand mortar including Class 'C' cement concrete screed base complete in all respect as shown on the				
	drawings & specifications.	Sq.m.	29	10,000	290,00
05b-19C	Porcelain tile skirting 100mm high using tile of approved size, colour and quality laid in approved pattern including rough base plaster complete in all respect as shown on the				
	drawings & specifications.	Sq.m.	5	12000	60,000
05b-20C	Chequred tile floor using of size 300x300x25mm thick in approved colour laid in approved pattern set in specified cement sand mortar including Class 'C' cement concrete screed base complete in all respect				
	as shown on the drawings & specifications.	Sq.m.	35	2000	70,000







CODE NO.05 ANCILLIARY BUILDINGS.

Item No.	Description	Unit	Quantity	Rate (Rs.)	Amount (Rs.)
	WATER PROOFING AND BUILT-UP ROOFIN	IG			
	Ref. Sec.No. 6411				
)5b-21C	Water proofing and built-up roofing cva side as per specifications and as shown on the drawings.	Sq.m.	48	1500	7200
)5b-22C	Two coats of hot bitumen grade 10/20 applied at the rate of 1 kg./Sq.m. per coat to			1 300	12,00
	all exposed structural concrete surfaces in contact with earth.	Sq.m.	85	500	42,500
		oq			12,000
	Ref.Spec. No. 4600, 6700			•	
5b-23C	Wooden doors including hardwares set as				i i
	per schedule and paint complete in all respect as shown on the drawings.	Sq.m.	9	15000	135,00
	PAINTING				
4	Ref.Spec. No. 6700				
)5b-24C	Distemper paint to specified surfaces on ceiling inclulding sealer primer.	Sq.m.	31	800	24800
5b-25C	Matt enamel paint of approved make, quality, colour/ shade including wall sealer, primer, surfaces preparation to specified interior surfaces complete in all respect as shown on				
	the drawings and specifications.	Sq.m.	131	1020	131,000
5b-26C	Weather resistant paint of approved make, quality, colour/ shade including surfaces preparation to specified exterior surfaces complete in all respect as shown on the			-	
	drawings and specifications.	Sq.m.	160	1500	240,000
	Total Amount				3,610,000



Carried over to summary of cost





KARACH FISH HARBOUR AUTHORITY

REHABILITATION & RENOVAT SELOF KASSES HI FISH HARBOUR

EXTERNAL SEKVICES (PART-I) PACKAGE "A" - CIVIL WORKS **BILL OF QUANTITIES**

CODE NO. 05: ANCILLARY BUILDING

Item	Description	Unit	Quantity	Rate	Amount
No.	Description	John	Quantity	(Rs.)	(Rs.)

05b.Security Room.

E. **ELECTRICAL WORKS**

Supply, installation, testing and commissioning of the following items of work (unless specifically stated otherwise) including all material, labour, tools, plant, accessories, related civil works, etc., required for proper completion of each item as per specifications (Section-8001 "General Specifications for Electrical Works" shall be applicable to all BOQ items).

LT DISTRIBUTION BOARDS

Ref. Spec. Sec. 8133, 8212, 8240

05b-1E Following LT Distribution Boards (as per single line diagrams), recessed/surface mounted including all accessories, related civil works etc. complete in all respects.

a) DB-SR

Job

LIGHT FIXTURES

Ref. Spec. Sec. 8150,8240

05b-2E Following lighting fixtures with fluorescent or compact fluorescent or incandescent lamps or as per lighting fixture schedule installed on surface or on false ceiling complete with all accessories such as lamps, lamp holders, ballast, starters, capacitors, as applicable, etc. and all relevant installation material as approved by the Engineer.

a) Type A1

Surface mounted batten light fixture body made of cold rolled steel (CRC) sheet pretreated, painted and stove enameled in white color with 1X36W fluorescent lamp. Diffuser made of clear prismatic pattern acrylic sheet.

30,000 No.



CODE NO. 05: ANCILLARY BUILDING

Item No.	Description	Unit	Quantity	Rate (Rs.)	Amount (Rs.)
	b) Type W1 Surface mounted light fixture body made of non-corrosive, high pressure die-cast aluminium, stove enameled, painted in which color with 1X11W compact florescent lamp along with clear polycarbonate diffuser.	. + No.	4	3 i, 500	120,000
	WIRING Ref. Sec. 8212,8220,8230,8240,8290				
05b-3E	Wiring of light circuits from distribution board (DB) to point/switch including wiring between switches on the same circuit with 3(1x2.5sq.mm) single core copper conductor PVC cable complete with appropriate size surface/ concealed PVC conduit and all accessories etc., complete in all respect.	No.	3	20,000	60,000
05b-4E	Wiring from light/exhaust fan point to switch with 3(1x1.5 sq.mm) single core copper conductor PVC cable, including appropriate size surface/ concealed PVC conduit, ceiling rose, 10 Amps light control gang switch, sheet steel back box, 3 core flexible cable and all accessories etc., complete in all respect.		40	2	260
05h-5E	Same as item No. 05b-4E, but wiring from point	No.	12	20,000	240,000
000-02	to point.	No.	4	20,000	80,000
05b-6E	Wiring of 16A socket outlets with single core, copper conductor PVC cable complete with appropriate size concealed / surface PVC conduit and all accessories etc., complete in all respects.				
	 a) From Distribution Board (DB) to outlet with 3(1x2.5 sq.mm.) cable. 	No.	2	20,000	40,000
	b) From outlet to outlet with 3(1x2.5 sq.mm.) cable.	No.	10	10,000	100,000

WIRING ACCESSORIES

Ref. Spec. Sec.8220, 8290

05b-7E 16 Amp, 250 Volt, 2 pin + earth, schuko socket outlet, with sheet steel back to and, all accessories.



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BILL OF QUANTITIES

CODE NO. 02: V. TER SUPPLY SYSTEM.

Item No.	Description	Unit	Quantity	Rate (Rs.)	Amount (Rs.)
	a) Type W3 Surface mounted light fixture body made of non-corrosive, high pressure die-cast aluminities over enameled, painted in white color with 2X11W compact florescent lamp along with clear polycarbonate diffuser.	No.	18	45_ 710,000	360,000
	b) Type OB Philips make type Obstruction light XGP- 500 (OBSTIVION) or equivalent with low intensity long life led lamps, flasher, glass cover, photo switch and sensor, junction box, etc. IP65 with 2-meter-high suitable G.I. pipe.	No.	1	200,000	200,000
	<u>WIRING</u> Ref. Sec. 8212,8220,8230,8240,8290				- I
02c-3E	Wiring of light circuits from distribution board (DB) to point/switch including wiring between switches on the same circuit with 3(1x2.5sq.mm) single core copper conductor PVC cable complete with appropriate size surface mounted medium duty G.I conduit and all accessories, etc., including two coats of matching weather resistant paint on entire length of surface GI conduits.complete in all respects.		2	20,000	40,000
02c-4E	Wiring from light/fan/exhaust fan point to switch with 3(1x1.5sq.mm) single core copper conductor, PVC cable in appropriate size surface mounted medium duty G.I conduit, including ceiling rose, 10 Amps weather proof light control gang switch, sheet steel surface back box, 3 core flexible cable and all accessories, etc., including two coats of matching weather resistant paint on entire length of surface GI conduits.			7.	
	complete in all respect.	No.	1	3°,000	30,000







CODE NO. 05: ANCILLARY BUILDING

Item No.	Description	Unit	Quantity	Rate (Rs.)	Amount (Rs.)
05b-8E	Sheet steel backbox with plastic cover plate including all mounting and installation accessories.		4	10,000	40,000
	CONDUIT & PIPES Ref. Spec. Sec.8230				
05b-9E	25 mm dia PVC conduit installed concealed including all mounting and installation				* :
	accessories.	RM.	40	3,000	120,00
	EARTHING Ref. Spec. Sec. 8212, 8240				
05b-10E	E600 mmx 600 mm x 3 mm tin plated copper Plate type earth electrode including 2x70 sq.mm PVC copper conductor cable as earthing		*	/	,
	lead, inspection chamber with medium duty C.I cover, 50 mm dia medium duty G.I pipe as				
	shown on drawings, complete in all respect.	No.	1	50,000	50,000
	MISCELLANEOUS Ref. Spec. Sec. 8290				
05b-11E	56" sweep, single phase, 250V, ceiling fan including fan speed regulators / dimmers,fan hook and all mounting accessories, as required,				74
	complete in all respects.	No.	4	10,000	40,000
					1

Total Amount 1,750,000







KARACHI FISHERIES HARBOUR AUTHORITY REISABILITATION AND RENOVATION OF ISSUACHI FISSUARBOUR EXTERNAL SERVICES (PART-I) PACKAGE "A" - CIVIL WORKS BILL OF QUANTITIES

CODE NO.05 ANCILLIARY BUILDINGS.

REINFORCEMENT Ref. Sec.No. 2200

05c-7C Grade 60 deformed hot rolled billet steel bars

conforming to ASTM A-615.

Item Light	Description 3	Unit	Quantity	Rate (Rs.)	Amount (Rs.)
	05c. Toilet Block.				
	C. CIVIL WORKS				
	EARTHWORKS Ref.Spec. No.1100				
05c-1C	Excavation in all kinds of sub-surface materials upto following depths including dewatering and disposal of surplus/ rejected excavated materials to designated places.				
	a) 0 - 2 metere	Cu.m.	44	600	2640
	b) 2 - 4 metere	Cu.m.	9	600	2640 5400
05c-2C	Fill & backfill with selected material obtained from required excavation.	Cu.m.		300	12600
	STONE SOLING Ref. Sec.No. 1330				
05c-3C	100mm thick compacted stone soling.	Sq.m.	21	2000	42,000
05c-4C	150mm thick compacted stone soling.	Sq.m.	15	2000	92,000 39000
05c-5C	300mm thick compacted stone soling.	Sq.m.	21	2000	42000
	TERMITE CONTROL TREATMENT Ref.Spec. No.1600				
05c-6C	Termite control treatment.	Sq.m.	57	1000	57000



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3 140,000 420,000

CODL 10.05 ANCILLIARY BUILDINGS.

Item No.	Description	Unit	Quantity	Rate (Rs.)	Amount (Rs.)
	PLAIN AND REINFORCED CONCRETE Ref. Sec.No. 2300, 2100				
05c-8¢	Class 'E' concrete using specified cement in foundations.	Cu.m.	3	15,000	usas
05c-9C	Class 'D' concrete using specified cement in steps & foundations.	Cu.m.	3	! 8,000	54, ouc
05c-10C	Class 'D' plain cement concrete using ordinary Portland cement in plinth protection including bitumen seal.	Cu.m.	2	20,0m	40,000
05c-11C	Class 'B' reinforced concrete in following sub- structures using specified cement complete in all respect as shown on the drawings & specifications.				
	a) Foundations	Cu.m.	7	20,00	140,000 40,000 20,000
	b) Plinth beam	Cu.m.	2	20,000	40,000
	c) Column upto plinth	Cu.m.	1	20,00	20,000
05c-12C	Class 'B' reinforced concrete in following super structures using specified cement complete in all respect as shown on the drawings & specifications.				
	a) Columns	Cu.m.	2	20,000	40,000
	b) Beams & lintels	Cu.m.	2	20,00	40,000
	c; Slabs & projections	Cu.m.	- 5	20,000	60,000
	d) Purdi	Cu.m.	3	20,00	60,000
	ALUMINIUM WORKS Ref. Sec. No. 6220, 6250				

05c-13C Anodized aluminium glazed sliding Ventilators including 5mm thick clear glass and hardware set as per schedule complete in all respect as shown on the drawings.

Sq.m.

2 29 on 49,000

CODE NO 35 ANCILLIARY BUILDINGS.

Item No.	Description	Unit	Quantity	Rate (Rs.)	Amount (Rs.)
	BLOCK MASONRY Ref. Sec.No. 4100				
05c-14C	Residued block masonry of the following thicknesses set in 1:6 cement sand mortar.		6K_	<u></u>	
	a) 200mm thick solid	Cu.m.	7	15,000	105,000 30,000
	b) 100mm thick solid	Cu.m.	2	15,000	30,000
	CEMENT PLASTER Ref. Sec.No. 6521				
05c-15C	12mm thick 1:4 cement sand plaster to specified interior surfaces.	Sq.m.	40	1,500	60,00c
05c-16C	20mm thick 1:4 cement sand plaster to specified exterior surfaces.	Sq.m.	126	1500	189,00
	FLOOR AND WALL FINISHES Ref. Sec.No. 6600				
05c-17C	100mm thick Class 'D' cement concrete subfloor.	Sq.m.	15	1500	22,500
05c-18C	Porcelain tile floor matt finish using of size 300x300mm in approved colour laid in approved pattern set in specified cement sand mortar including Class 'C' cement concrete screed base complete in all respect as shown on the drawings & specifications.	Sq.m.	15	Sow	750m
05c-19C	Porcelain tile dado using tile of size 200x300mm, approved colour and quality laid in approved pattern including rough base plaster complete in all respect as shown on the drawings & specifications.	Sq.m.	48	5,000	240,000
05c-20C	Chequred tile floor using of size 300x300x25mm thick in approved colour laid in approved pattern set in specified cement sand mortar including Class 'C' cement concrete screed base complete in all respect				
	as shown on the drawings & specifications.	Sq.m.	21	5,000	105,000

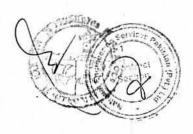






Item - No.	Description	Unit	Quantity	Rate (Rs.)	Amount (Rs.)
	WATER PROOFING AND BUILT-UP ROOFIN	IG			1
	Ref. Sec.No. 6411	_			
)5c-21C	Water proofing and built-up roofing over slab as per specifications and as shown on the		_ 'hi'	14 21	
	drawings.	Sq.m.	37	5,000	185,000
)5c-22C	Two coats of hot bitumen grade 10/20 applied at the rate of 1 kg./Sq.m. per coat to all exposed structural concrete surfaces in				
	contact with earth.	Sq.m.	62	500	31,000
X	CARPENTRY & JOINERY Ref.Spec. No. 4600, 6700		34 11 1	× 3	
)5c-23C	Wooden doors including hardwares set as per schedule and paint complete in all				V V
	respect as shown on the drawings.	Sq.m.	7	25,000	1750
	PAINTING Ref.Spec. No. 6700		9:		
)5c-24C	Distemper paint to specified surfaces on ceiling inclulding sealer primer.	Sq.m.	27	1200	32400
5c-25C	Matt enamel paint of approved make, quality, colour/ shade including wall sealer, primer, surfaces preparation to specified interior surfaces complete in all respect as shown on		i i i i i i i i i i i i i i i i i i i		(*)
	the drawings and specifications.	Sq.m.	14	1200	16,800
)5c-26C	Weather resistant paint of approved make, quality, colour/ shade including surfaces preparation to specified exterior surfaces				
	complete in all respect as shown on the drawings and specifications.	Sq.m.	126	1200	151,200
	Total Amount			-	1
	Carried over to	elimm	ary of con	. 2	2,672.30



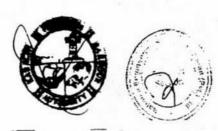


KARACHI FISHERIES HARBOUR AUTHORITY REH-BILITATION A RENOVATION OF KARACHI FISH HABBOUR EXTERNAL SERVICES (PART - I) PACKAGE "A" - CIVIL WORKS BILL OF QUANTITIES

CODE NO.05c Toilet Block

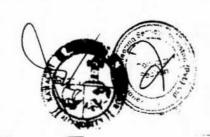
Item No.	Description	Unit	Quantity	Rate (F:	Amount (Rs.)
05	P. PLUMBING WORKS				
	WATER SUPPLY				
	Ref: Spec. No. 5100, 5180				
05c-1P	PPR cold & hot water pipes SDR 6 (PN 20) conforming to DIN 8077 & DIN 8078 & fittings SDR 6 (PN20) conforming to DIN 16962 of following diameters.				
	a) 15 mm	RM	4	2,000	3,000
	b) 20 mm	RM	6	2000	12000
	c) 25 mm	RM	6	2000	12000
	d) 40 mm	RM	6	2000	12000
05c-2P	C.P. brass bib cock of the following diameter with perinial spray including all accessories:				
	a) 15 mm	No.	3	1000	3000
05c-3P	Bronze gate valves of the following diameters as specified.				,*
	a) 40 mm	No.	1	2000	2000
05c-4P	Electric Water Heater of following capacities:				· ·
	a) 10 gallons	No.	1	50,0w	50,000
05c-5P	Fiber Glass Water tank of 800 gallons capacity as specified on drawing.	No.	. 1	50,000 50,000	50,000
	PLUMBING FIXTURES				
	Ref: Spec. No. 5100				
05c-6P	Wash basin counter type with all other accessories.	No.	3	15000	45000





(Rs.) (Rs.) (Rs.) (Rs.) (Rs.) (Rs.) (Rs.)
000 7500 See 7500
000 7500 See 7500
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CODE NO.05c Toilet Block

İtem	Description	Unit	Quantity	Rate	Amount
No.				(Rs.)	(Rs.)

05c-16P Cast iron gully trap in block work chamber of the following size including C.I cover & Frame(light duty)complete as shown on the drawing & as specified.

a) 300 mm x 300 mm

No.

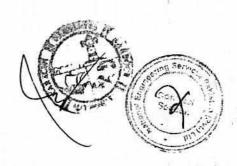
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120,000

120,000

Total Amount
Carried over to summary of cost





KARACH FISH HARBOUR AUTHORITY

REHABILITATI ! & RENC ! ION OF KARACHI FISH HARBOUR

EXTERNAL SERVICES (PART-I) PACKAGE "A" - CIVIL WORKS BILL OF QUANTITIES

CODE NO. 05: ANCILLARY BUILDING

Item	Descri lica	Unit	Quantity	Rate	Amount
No.	Descr. ich	Unit	Quartuly	(Rs.)	235

05c. Toilet Block.

E. ELECTRICAL WORKS

Supply, installation, testing and commissioning of the following items of work (unless specifically stated otherwise) including all material, labour, tools, plant, accessories, related civil works, etc., required for proper completion of each item as per specifications (Section-8001 "General Specifications for Electrical Works" shall be applicable to all BOQ items).

LT DISTRIBUTION BOARDS

Ref. Spec. Sec. 8133, 8212, 8240

05c-1E Following LT Distribution Boards (as per single line diagrams), recessed/surface mounted including all accessories, related civil works etc. complete in all respects.

a) DB-TOILET

Job 1 50,000 So,000

LIGHT FIXTURES

Ref. Spec. Sec. 8150,8240

05c-2E Following lighting fixtures with fluorescent or compact fluorescent or incandescent lamps or as per lighting fixture schedule installed on surface or on false ceiling complete with all accessories such as lamps, lamp holders, ballast, starters, capacitors, as applicable, etc. and all relevant installation material as approved by the Engineer.

a) Type A1

Surface mounted batten light fixture body made of cold rolled steel (CRC) sheet pretreated, painted and stove enameled in white color with 1X36W fluorescent lamp. No.

No. 1 20,000

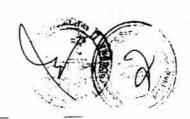






Item No.	Description	Unit	Quantity	Rate (Rs.)	Amount (Rs.)
	b) Type A3 Surface mounted batten light fixture body made of cold rolled stant (CRC) sheet pretreated, painted article e enameled in white color with 1X18W fluorescent lamp. Diffuser made of clear prismatic pattern acrylic sheet.	No.	2	30 00	60,000
		INO.	2	30,000	60,000
	 Type D1 Surface mounted down lighter. Reflector made of highly polished specular aluminium finishes, white polycarbonate outer ring with 1X18W compact fluorescent lamp with glass 				
	cover.	No.	3	30,000	90,000
	d) Type W1 Surface mounted light fixture body made of non-corrosive, high pressure die-cast aluminium, stove enameled, painted in white color with 1X11W compact florescent lamp along with clear polycarbonate diffuser.	No.	1	30,0w	30,000
	WIRING Ref. Sec. 8212,8220,8230,8240,8290				
05c-3E	Wiring of light circuits from distribution board (DB) to point/switch including wiring between switches on the same circuit with 3(1x2.5sq.mm) single core copper conductor PVC cable complete with appropriate size surface/ concealed PVC conduit and all accessories etc., complete in all respect.	No.	1	20,000	20,000
05c-4E	Wiring from light/exhaust fan point to switch with 3(1x1.5 sq.mm) single core copper conductor PVC cable, including appropriate size surface/ concealed PVC conduit, ceiling rose, 10 Amps light control gang switch, sheet steel back box, 3 core flexible cable and all accessories etc., complete in all respect.				
		No.		20,000	140,000
0,5c-5E	Same as item No. 05c-4E, but wiring from point to point.	No.	3	20,000 20,000	60,000





Item No.	Description	Unit	Quantity	Rate (Rs.)	Amount (Rs.)
05c-6E	Wiring of 16A socket outlets with single core, copper conductor PVC cable complete with appropriate size concealed / curface PVC conduit and all accessories elaboration applete in all respects.				*****
	 a) From Distribution Board (DB) to outlet with 3(1x2.5 sq.mm.) cable. 	No.	1	20,000	20,000
05c-7E	Wiring from distribution board (DB) to 16 A, SP&N+E, 250 volts load break switch in weather proof enclosure with 3 (1x4.0 sq.mm) single core copper conductor PVC cable complete with appropriate size				
	concealed/surface PVC conduit and all accessories etc. complete in all respect.	No.	1	200w	20,000
	WIRING ACCESSORIES Ref. Spec. Sec.8220, 8290				
05c-8E	16 Amp, 250 Volt, 2 pin + earth, schuko socket outlet, with sheet steel back box and all accessories.	No.	1	20,000	20,000
	EARTHING Ref. Spec. Sec. 8212, 8240				,000
05c-9E	600 mmx 600 mm x 3 mm tin plated copper Plate type earth electrode including 2x70 sq.mm PVC copper conductor cable as earthing lead, inspection chamber with medium duty C.I cover, 50 mm dia medium duty G.I pipe as				
	shown on drawings, complete in all respect.	No.	1	20,00	20,000





Item No.	Description	Unit	Quantity	Rate (Rs.)	Amount (Rs.)
	MISCELLANEOUS				-
	Ref. Spec. Sec. 8290				1
)5c-10E	8" dia single phase, 250V exhaus, fons with back draft dampers, anti-vermine screen, mounting accessories etc., including making opening in wall and making surface good,				
	complete in all respects.	No.	3	10,000	30,000
)5c-11E	E 16 A, SP&N+E load break switches AC-3 duty				
	in normal/weather proof enclosure.	No.	1	5000	5000
				tal Amount	585,00
	Carried	dover	to summ	ary of cost	Parco







KARACHI FISHERIES HARBOUR AUTHORITY REHABILITATION AND RENC TION Oi . RACHI FISH HARBOUR EXTERNAL SERVICES (PART-1) PACKAGE "A" - CIVIL WORKS **BILL OF QUANTITIES**

CODE NO.05 ANCILLIARY BUILDINGS.

Item	Description	Unit	Quantity	Rate	Amount
No.				(Rs.)	(Rs.)

05d. Public Toilet (3.Nos).

C. CIVIL WORKS

EARTHWORKS

Ref.Spec. No.1100

05d-1C Excavation in all kinds of sub-surface materials upto following depths including

	dewatering and disposal of surplus/ rejected excavated materials to designated places.				
	a) 0 - 2 metere	Cu.m.	135	600	छ।, ०००
	b) 2 - 4 metere	Cu.m.	28	600	16800
05d-2C	Fill & backfill with selected material obtained from required excavation.	Cu.m.	120	300	36,000
	STONE SOLING Ref. Sec.No. 1330				
05d-3C	100mm thick compacted stone soling.	Sq.m.	85	2000	170,000
05d-4C	150mm thick compacted stone soling.	Sq.m.	112	2000	224,000
05d-5C	300mm thick compacted stone soling.	Sq.m.	60	2000	120,000
	TERMITE CONTROL TREATMENT Ref.Spec. No.1600				
				1949/65 1.08	V2 V >=

255000 05d-6C Termite control treatment. Sq.m. 1000

REINFORCEMENT

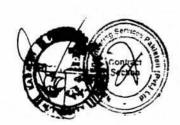
Ref. Sec. No. 2200

05d-7C Grade 60 deformed hot rolled billet steel bars conforming to ASTM A-615.

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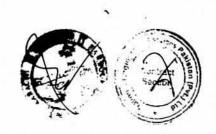
140,000 1,540,000





	Item No.	Description	Unit	Quantity	Rate (Rs.)	Amount (Rs.)
		PLAIN AND REINFORCED CONCRETE Ref. Sec.No. 2300, 2100				
,	05d-8C	Class 'E' concrete using specified cemeil condations.	 Cu.m.	13	15,000	195,000
	05d-9C	Class 'D' concrete using specified cement in steps & foundations.	Cu.m.	9	! 8000	1.62,000
	05d-10C	Class 'D' plain cement concrete using ordinary Portland cement in plinth protection including bitumen seal.	Cu.m.	6	13000	7-890c
	05d-11C	Class 'B' reinforced concrete in following sub- structures using specified cement complete in all respect as shown on the drawings & specifications.				
		a) Foundations	Cu.m.	. 18	13000	234,000
		b) Plinth beam	Cu.m.	14	13000	18) 000
		c) Column upto plinth	Cu.m.	4	13000	\$2,000
	05d-120	Class 'B' reinforced concrete in following super structures using specified cement complete in all respect as shown on the drawings & specifications.				
		a) Columns	Cu.m.	5	13,000	65,000
		b) Beams & lintels	Cu.m.	14	13000	182,000
		c) Slabs & projections	Cu.m.	30	20,000	6000m
		d) Purdi	Cu.m.	5	20,000	600,000





CODE NO.05 ANCILLIARY BUILDINGS.

Item No.	Description	Unit	Quantity	Rate	Amount
				(Rs.)	(Rs.)

ALUMINIUM WORKS

Ref. Sec. No. 6220, 6250

Windows, Ventilators including 5mm thick clear glass and hardware set as per schedule complete in all respect as shown on the drawings.

sq.m. 18 ! 5000 270,000

BLOCK MASONRY

Ref. Sec.No. 4100

05d-14C Reinforced block masonry of the following thicknesses set in 1:6 cement sand mortar.

a) 150mm thick solid

Cu.m. 43 15000 645,000

CEMENT PLASTER

Ref. Sec. No. 6521

05d-15C 12mm thick 1:4 cement sand plaster to specified interior surfaces.

sq.m. 180 1200 216,000

05d-16C 20mm thick 1:4 cement sand plaster to specified exterior surfaces.

sq.m. 396 15,00 594,000

FLOOR AND WALL FINISHES

Ref. Sec. No. 6600

05d-17C 100mm thick Class 'D' cement concrete subfloor.

sq.m. 112 1500 168,000

05d-18C Porcelain tile floor matt finish using of size 300x300mm in approved colour laid in approved pattern set in specified cement sand mortar including Class 'C' cement concrete screed base complete in all respect as shown on the drawings & specifications.

Sq.m. 125 S &

5,000 625,000

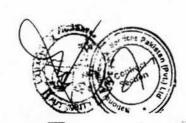






Item No.	Description	Unit	Quantity	Rate (Rs.)	Amount (Rs.)
05d-19C	Porcelain tile dado using tile of size 200x300mm, approved colour and quality laid in approved pattern including rough base				
	plaster complete in all respect as shown on the drawings & specifications.	Sq.m.	260	1000	260,000
)5c-20C	Chequred tile floor using of size 300x300x25mm thick in approved colour laid in approved pattern set in specified cement sand mortar including Class 'C' cement				
	concrete screed base complete in all respect as shown on the drawings & specifications.	Sq.m.	85	1000	850cc
	WATER PROOFING AND BUILT-UP ROOFIN Ref. Sec.No. 6411	G			
)5c-21C	Water proofing and built-up roofing over slab as per specifications and as shown on the				
	drawings.	Sq.m.	190	1200	228000
)5d-22C	Two coats of hot bitumen grade 10/20 applied at the rate of 1 kg./Sq.m. per coat to all exposed structural concrete surfaces in				
	contact with earth.	Sq.m.	295	500	147,500
	CARPENTRY & JOINERY Ref.Spec. No. 4600, 6700				
05d-23C	Wooden doors including hardwares set as per schedule and paint complete in all	t. x			
	respect as shown on the drawings.	Sq.m.	45	2∞	90,000
	PAINTING Ref.Spec. No. 6700				
05d-24C	Distemper paint to specified surfaces on ceiling inclulding sealer primer.	Sq.m.	148	600	88,800
05d-25C	Matt enamel paint of approved make, quality, colour/ shade including wall sealer, primer, surfaces preparation to specified interior				
	surfaces complete in all respect as shown on the drawings and specifications.	Sq.m.	30	800	24,000
	2 1 2				





CODE NO.05 ANCILLIARY BUILDINGS.

Item	Description	Unit	Quantity	Rate	Amount
No.				(Rs.)	(Rs.)

05d-26C Weather resistant paint of approved make, quality, colour/ shade including surfaces preparation to specified exterior surfaces complete in all respect as shown on the drawings and specifications.

Sq.m. 396 500

198,00

Total Amount Carried over to summary of cost 7,932,100







REHAL TATION & RENOVATION OF KARAC SISH HARE OUR EXTERNAL SERVICES (PART - I) PACKAGE "A" - CIVIL WORKS BILL OF QUANTITIES

CODE NO.05d Public Toilet

Item No.	Description	Unit	Quantity	Rate (Rs.)	Amount (Rs.)
05	P. ZLUMBING WORKS			7	
	WATER SUPPLY Ref: Spec. No. 5100, 5180				
05d-1P	PPR cold & hot water pipes SDR 6 (PN 20) conforming to DIN 8077 & DIN 8078 & fittings SDR 6 (PN20) conforming to DIN 16962 of following diameters.				-
	a) 15 mm	RM	49	1000	4900
	b) 20 mm	RM	30	1000	30,000 21000
	c) 25 mm	RM	21	1000	21000
	d) 40 mm	RM	35	1000	35000
05d-2P	C.P. brass bib cock of the following diameter				
	with perinial spray including all accessories:			4.0	
	a) 15 mm	No.	24	2000	48000
05d-3P	Bronze gate valves of the following diameters as specified.				
	a) 40 mm	No.	12	2000	24000
05d-4P	Electric Water Heater of following capacities:				
	a) 25 gallons	No.	3	50,000	150,000
05d-5P	Fiber Glass Water tank of 800 gallons capacity as specified on drawing.	No.	3	50,000	150,000
	PLUMBING FIXTURES Ref: Spec. No. 5100				
05d-6P	Wash basin counter type with all other accessories.	No.	24	5,000	120,000



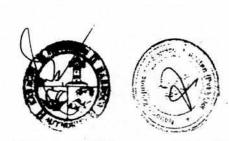




CODE NO. vod Public Toilet

Item No.	Description	Unit	Quantity	Rate (Rs.)	Amount (Rs.)
05d-7P	Eastern water closet with all other accessories.	No.	24	15,000	360,000
05d-8P	Imparter Belgium glass mirror.	Sq.M.	24 70	-5000	!20,00°
05d-9P	Toilet Paper Holder as specified	No.	24	Sow	120,000
05d-10P	Towel rail as specified.	No.	6	5000	30,000
05d-11P	Janitor Sink with all other accessories as specified.	No.	3	SON	15000
	SANITARY DRAINAGE Ref: Spec. No. 5100 & 5180				
05d-12P	uPVC soil, waste and vent pipes conforming to ASTM D-1785 of Schedule 40 & fittings D-2466 of Schedule 40 including fittings compatible with pipe of following diameter as specified: (for unexpose piping).				
				115.	
	a) 100 mm	RM	55	200	11,000
	b) 75 mm	RM	39	200	7,800
	c) 32 mm	RM	21	200	4200
05d-13P	uPVC floor drains of the following diameter:	Ci.			
	a) 75 mm	No.	9	5,000	45,000
05d-14P	uPVC floor traps of the following diameter:				
	a) 75 mm	No.	3	5000	15000
05d-15P	uPVC floor clean out of following diameter:				
	a) 75 mm	No.	6	5000	30,000
	b) 100 mm	No.	6	San	30,000





CODE NO.050 ublic Toilet

Item 1	Description	Unit	Quantity	Rate	Amount
No.			N. 10. 10. 10. 10.	(Rs.)	(Rs.)

05d-16P Cast iron gully trap in block work chamber of the following size including C.I cover & Frame(light duty)complete as shown on the drawing ಜಿ.ಆ. specified.

a) 300 mm x 300 mm

No.

3

3000

9,000

Total Amount Carried over to summary of cost







REF-3ILITATION RENOVATION OF KARACHI FISH H-BOUR EXTERNAL SERVICES (PART-I) PACKAGE "A" - CIVIL WORKS BILL OF QUANTITIES

CODE NO. 05: ANCILLARY BUILDING

Item	Description	Unit	Quantity	Rate	Amount
No.	Description	Offic	Quantity	(5	(Rs.)

05d. Public Toilets.

E. ELECTRICAL WORKS

Supply, installation, testing and commissioning of the following items of work (unless specifically stated otherwise) including all material, labour, tools, plant, accessories, related civil works, etc., required for proper completion of each item as per specifications (Section-8001 "General Specifications for Electrical Works" shall be applicable to all BOQ items).

LT DISTRIBUTION BOARDS

Ref. Spec. Sec. 8133, 8212, 8240

05d-1E Following LT Distribution Boards (as per single line diagrams), recessed/surface mounted including all accessories, related civil works etc. complete in all respects.

a) DB-PT(1-3)

Job 3 100,000 30

LIGHT FIXTURES

Ref. Spec. Sec. 8150,8240

05d-2E Following lighting fixtures with fluorescent or compact fluorescent or incandescent lamps or as per lighting fixture schedule installed on surface or on false ceiling complete with all accessories such as lamps, lamp holders, ballast, starters, capacitors, as applicable, etc. and all relevant installation material as approved by the Engineer.

a) Type A1

Surface mounted batten light fixture body made of cold rolled steel (CRC) sheet pretreated, painted and stove enameled in white color with 1X36W fluorescent lamp. Diffuser made of clear prismatic pattern acrylic sheet.

No. 15 25000



375au



Description	Unit	Quantity	Rate	Amount
			(RS.)	(Rs.)
b) Type A3 Surface mounted batten light fixture body made of cold rolled steel (CRC) sheet				
pretreated seed and stove enameled in white color with 1X18W fluorescent lamp. Diffuser made of clear prismatic pattern			المراجعة الم	.æ.i
acrylic sheet.	No.	12	15000	180,000
c) Type D1				
Surface mounted down lighter. Reflector made of highly polished specular aluminium finishes, white polycarbonate outer ring with				
1X18W compact fluorescent lamp.	No.	27	5000	13500
d) Type W1				
Surface mounted light fixture body made of non-corrosive, high pressure die-cast				
along with clear polycarbonate diffuser.	No.	3	15000	45000
WIRING Ref. Sec. 8212,8220,8230,8240,8290				
switches on the same circuit with				
3(1x2.5sq.mm) single core copper conductor				
		12		
스크스 (1775-1771) 가격된 내가 되었다면서 하는 뭐 [[] [] [] [] [] [] [] [] []	No	12	7 000	1.
accessories etc., complete in all respect.	140.	12	2 000	60,000
Wiring from light/exhaust fan point to switch with 3(1x1.5 sq.mm) single core copper conductor PVC cable, including appropriate size				
back box, 3 core flexible cable and all			۲.,	20 202
accessories etc., complete in all respect.	No.	51	7000	522 cm
Same as item No. 05b-4E, but wiring from point				
to point.	No.	30	1	120,000
	b) Type A3 Surface mounted batten light fixture body made of cold rolled steel (CRC) sheet pretreated and stove enameled in white color with 1X18W fluorescent lamp. Diffuser made of clear prismatic pattern acrylic sheet. c) Type D1 Surface mounted down lighter. Reflector made of highly polished specular aluminium finishes, white polycarbonate outer ring with 1X18W compact fluorescent lamp. d) Type W1 Surface mounted light fixture body made of non-corrosive, high pressure die-cast aluminium, stove enameled, painted in white color with 1X11W compact florescent lamp along with clear polycarbonate diffuser. WIRING Ref. Sec. 8212,8220,8230,8240,8290 Wiring of light circuits from distribution board (DB) to point/switch including wiring between switches on the same circuit with 3(1x2.5sq.mm) single core copper conductor PVC cable complete with appropriate size surface/ concealed PVC conduit and all accessories etc., complete in all respect. Wiring from light/exhaust fan point to switch with 3(1x1.5 sq.mm) single core copper conductor PVC cable, including appropriate size surface/ concealed PVC conduit, ceiling rose, 10 Amps light control gang switch, sheet steel back box, 3 core flexible cable and all	b) Type A3 Surface mounted batten light fixture body made of cold rolled steel (CRC) sheet pretreated and stove enameled in white color with 1X18W fluorescent lamp. Diffuser made of clear prismatic pattern acrylic sheet. c) Type D1 Surface mounted down lighter. Reflector made of highly polished specular aluminium finishes, white polycarbonate outer ring with 1X18W compact fluorescent lamp. No. d) Type W1 Surface mounted light fixture body made of non-corrosive, high pressure die-cast aluminium, stove enameled, painted in white color with 1X11W compact florescent lamp along with clear polycarbonate diffuser. No. WIRING Ref. Sec. 8212,8220,8230,8240,8290 Wiring of light circuits from distribution board (DB) to point/switch including wiring between switches on the same circuit with 3(1x2.5sq.mm) single core copper conductor PVC cable complete with appropriate size surface/ concealed PVC conduit and all accessories etc., complete in all respect. No. Wiring from light/exhaust fan point to switch with 3(1x1.5 sq.mm) single core copper conductor PVC cable, including appropriate size surface/ concealed PVC conduit, ceiling rose, 10 Amps light control gang switch, sheet steel back box, 3 core flexible cable and all accessories etc., complete in all respect. No.	b) Type A3 Surface mounted batten light fixture body made of cold rolled steel (CRC) sheet pretreated and stove enameled in white color with 1X18W fluorescent lamp. Diffuser made of clear prismatic pattern acrylic sheet. c) Type D1 Surface mounted down lighter. Reflector made of highly polished specular aluminium finishes, white polycarbonate outer ring with 1X18W compact fluorescent lamp. No. 27 d) Type W1 Surface mounted light fixture body made of non-corrosive, high pressure die-cast aluminium, stove enameled, painted in white color with 1X11W compact florescent lamp along with clear polycarbonate diffuser. No. 3 WIRING Ref. Sec. 8212,8220,8230,8240,8290 Wiring of light circuits from distribution board (DB) to point/switch including wiring between switches on the same circuit with 3(1x2.5sq.mm) single core copper conductor PVC cable complete with appropriate size surface/ concealed PVC conduit and all accessories etc., complete in all respect. No. 12 Wiring from light/exhaust fan point to switch with 3(1x1.5 sq.mm) single core copper conductor PVC cable, including appropriate size surface/ concealed PVC conduit, ceiling rose, 10 Amps light control gang switch, sheet steel back box, 3 core flexible cable and all accessories etc., complete in all respect. No. 51 Same as item No. 05b-4E, but wiring from point	b) Type A3 Surface mounted batten light fixture body made of cold rolled steel (CRC) sheet pretreated and stove enameled in white color with 1X18W fluorescent lamp. Diffuser made of clear prismatic pattern acrylic sheet. c) Type D1 Surface mounted down lighter. Reflector made of highly polished specular aluminium finishes, white polycarbonate outer ring with 1X18W compact fluorescent lamp. d) Type W1 Surface mounted light fixture body made of non-corrosive, high pressure die-cast aluminium, stove enameled, painted in white color with 1X11W compact florescent lamp along with clear polycarbonate diffuser. No. 3 WIRING Ref. Sec. 8212,8220,8230,8240,8290 Wiring of light circuits from distribution board (DB) to point/switch including wiring between switches on the same circuit with 3(1x2.5sq.mm) single core copper conductor PVC cable complete with appropriate size surface/ concealed PVC conduit and all accessories etc., complete in all respect. No. 12 Viring from light/exhaust fan point to switch with 3(1x1.5 sq.mm) single core copper conductor PVC cable, including appropriate size surface/ concealed PVC conduit, ceiling rose, 10 Amps light control gang switch, sheet steel back box, 3 core flexible cable and all accessories etc., complete in all respect. No. 51 Same as item No. 05b-4E, but wiring from point







Item No.	Description	Unit	Quantity	Rate (Rs.)	Amount (Rs.)
05d-6E	Wiring of 16A socket outlets with single core, copper conductor PVC cable complete with appropriate size concealed / surface PVC conduit and all accesses etc., complete in all respects.				احرعما
	 a) From Distribution Board (DB) to outlet with 3(1x2.5 sq.mm.) cable. 	No.	3	1.5 500	
	 a) From outlet to outlet with 3(1x2.5 sq.mm) cable. 	No.	3	2000 2!	4500
05d-7E	Wiring from distribution board (DB) to 16 A, TP&N+E, 500 volts load break switch in weather proof enclosure with 5 (1x4.0 sq.mm) single core copper conductor PVC cable complete with appropriate size concealed/surface PVC conduit and all accessories etc. complete in all respect.	No.	1	2000	2000
	WIRING ACCESSORIES Ref. Spec. Sec.8220, 8290				
05d-8E	16 Amp, 250 Volt, 2 pin + earth, schuko socket outlet, with sheet steel back box and all accessories.		6	5000	30,000
	EARTHING Ref. Spec. Sec. 8212, 8240			,	
05d-9E	600 mmx 600 mm x 3 mm tin plated copper Plate type earth electrode including 2x70 sq.mm PVC copper conductor cable as earthing lead, inspection chamber with medium duty C.I cover, 50 mm dia medium duty G.I pipe as shown on drawings, complete in all respect.		3	50,000	150,000
					- o,ua







CODE NO. 05: ANCILLAR, BUILDING

Item No.	Description	Unit	Quantity	Rate (Rs.)	Amount (Rs.)
MISC	FLLANFOUS				

Ref. Spec. Sec. 8290

05d-10E8" dia single phase, 2501/ exhaust fans with back draft dampera, screen, mounting accessories etc., including making opening in wall and making surface good, complete in all respects.

5000 No.

05d-11E16 A, TP&N+E load break switches AC-3 duty in normal/weather proof enclosure.

50,000 No.

Total Amount 1943







KARACHI FISHERIES HARBOUR AUTHORITY REHABILITATION AND RENOVA ON OF KARACHI FISH HARBOUR EXTERNAL SERVICES (PART-1) PACKAGE "A" - CIVIL WORKS BILL OF QUANTITIES

CODE NO.05 ANCILLIARY BUILDINGS.

Item	Description	Unit	Quantity	Rate	Amount
No.	·			(Rs.)	(Rs.).

05e. Gate Houses(5.Nos)

C. CIVIL WORKS

EARTHWORKS

Ref.Spec. No.1100

05e-1C	Excavation in	all kinds	of sub-surface
	materials upto	following	depths including
	dewatering and	disposal of	surplus/ rejected
	excavated mater	ials to desig	nated places.

	a) 0 - 2 metere	Cu.m.	100	600	60,000
	b) 2 - 4 metere	Cu.m.	20	600	12000
05e-2C	Fill & backfill with selected material obtained from required excavation.	Cu.m.	85	300	25500
	STONE SOLING Ref. Sec.No. 1330				
05e-3C	100mm thick compacted stone soling.	Sq.m.	56	2000	112,000

05e-3C	100mm thick compacted stone soling.	Sq.m.	56	2000	115000
05e-4C	150mm thick compacted stone soling.	Sq.m.	62	2000	124000
05e-5C	300mm thick compacted stone soling.	Sq.m.	42	2000	84,000
	TERMITE CONTROL TREATMENT				7556

TERMITE CONTROL TREATMENT

Ref.Spec. No.1600

05e-6C Termite control treatment. Sq.m. 160 1000 166,000

REINFORCEMENT

Ref. Sec.No. 2200

05e-7C Grade 60 deformed hot rolled billet steel bars conforming to ASTM A-615. tonne 8 140,000 1, 20,000





CODE NO.05 ANCILLIARY BUILDI. SS.

Item No.	Description	Unit	Quantity	Rate (Rs.)	Arnount (Rs.)
	PLAIN AND REINFORCED CONCRETE				
	Ref. Sec.No. 2300, 2100				
05e-8C	Class 'E' concrete using specimes dement in foundations.	Cu.m.	10	12900	150,000
05e-9C	Class 'D' concrete using specified cement in steps & foundations etc.	Cu.m.	9	18500	162,000
05e-10C	Class 'D' plain cement concrete using ordinary Portland cement in plinth protection				
	including bitumen seal.	Cu.m.	4	13,000	S 2,000
05e-11C	Class 'B' reinforced concrete in following sub- structures using specified cement complete in all respect as shown on the drawings & specifications.				
	a) Foundations	Cu.m.	12	13,000	156000
	b) Plinth beam	Cu.m.	8	13,000	104,000
	c) Column upto plinth	Cu.m.	6	13000	
05e-12C	Class 'B' reinforced concrete in following super structures using specified cement complete in all respect as shown on the drawings & specifications.				
	a) Columns	Cu.m.	6	13,000	7 8000
	b) Beams & lintels	Cu.m.	9	13000	117000
	c) Slabs & projections	Cu.m.	17	13000	
	d) Purdi	Cu.m.	5	13000	221,000
	ALUMINIUM WORKS Ref. Sec.No. 6220, 6250				20
05e-13C	Anodized aluminium glazed sliding Windows, Ventilators including 5mm thick clear glass and hardware set as per schedule complete in all respect as shown on the				
	drawings.	Sq.m.	25	2000	172000
		0		1	· ·

Amount

BILL OF QUANTITIES

Unit Quantity

CODE	NO.05	ANCIL	LIARY	BUIL	DING.
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Item

No.				(Rs.)	(Rs.)
	BLOCK MASONRY Ref. Sec.No. 4100				
05e-14C	Reinforced block masonry of the sowing thicknesses set in 1:6 cement sand mortar.				
	a) 150mm thick solid	Cu.m.	25	!5000	3750cm
	CEMENT PLASTER Ref. Sec.No. 6521				
05e-15C	12mm thick 1:4 cement sand plaster to specified interior surfaces.	Sq.m.	255	1000	255,000
05e-16C	20mm thick 1:4 cement sand plaster to specified exterior surfaces.	Sq.m.	365	1200	438,000
	FLOOR AND WALL FINISHES Ref. Sec.No. 6600				
05e-17C	100mm thick Class 'D' cement concrete sub-floor.	Sq.m.	62	1800	111,600
05e-18C	Porcelain tile floor using of size 600x600mm in approved colour laid in approved pattern set in specified cement sand mortar including				
	Class 'C' cement concrete screed base complete in all respect as shown on the drawings & specifications.	Sq.m.	48	1800	86400

05e-19C Porcelain tile floor matt finish using of size 300x300mm in approved colour laid in approved pattern set in specified cement sand mortar including Class 'C' cement concrete screed base complete in all respect as shown on the drawings & specifications. Sq.m.

05e-20C Porcelain tile dado using tile of size 200x300mm, approved colour and quality laid in approved pattern including rough base plaster complete in all respect as shown on the drawings & specifications.

1800 Sq.m.

61200

19800

1800

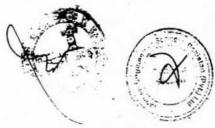






Item No.	Description	Unit	Quantity	Rate (Rs.)	Amount (Rs.)
05e-210	Porcelain tile skirting 100mm high using tile of				
000-210	approved size, colour and quality laid in				
	approved pattern including rough base " to:				
	complete in all respect as shown 5 3				
	drawings & specifications.	Sq.m.	6	2000	12000
		2.0			·
)5e-22C	Chequred tile floor using of size				
	300x300x25mm thick in approved colour laid				
	in approved pattern set in specified cement				
	sand mortar including Class 'C' cement				
	concrete screed base complete in all respect				
	as shown on the drawings & specifications.	Sq.m.	56	! 5∞	84000
	WATER PROOFING AND BUILT-UP ROOFIN	G			
	Ref. Sec.No. 6411				
05e-230	Water proofing and built-up roofing over slab				
	as per specifications and as shown on the				
	drawings.	Sq.m.	110	1500	165,000
		53.50 (1)			105,000
05e-240	Two coats of hot bitumen grade 10/20				
	applied at the rate of 1 kg./Sq.m. per coat to				
	all exposed structural concrete surfaces in				
	contact with earth.	Sq.m.	235	2~	∞2,0F
		04	200	300	10,200
	CARPENTRY & JOINERY				
	Ref.Spec. No. 4600, 6700				
	No. opec. No. 4000, 0700				E
05e-250	Wooden doors including hardwares set as				
	per schedule and paint complete in all				
	respect as shown on the drawings.	Sq.m.	18	2000	360,00
				20,000	360,000
	PAINTING				
	Ref.Spec. No. 6700				
- 1					
05e-260	Distemper paint to specified surfaces on				
	ceiling inclulding sealer primer.	Sq.m.	84	300	25200
	coming moralous grounds primes	Oq.m.	04	500	23200
05e-270	Matt enamel paint of approved make, quality,				
	colour/ shade including wall sealer, primer,				
	surfaces preparation to specified interior				
	surfaces complete in all respect as shown on				
	the drawings and specifications.	Sq.m.	175	200	87,500
		04.111.		- 00	0 1,300
			-		





CODE NO.05 ANCILLIARY BUILDINGS.

Item	Description	Unit	Quantity	Rate	Amount
No.	**			(Rs.)	(Rs.)

05e-28C Weather resistant paint of approved make, quality, colour/ shade including surfaces preparation to specified exterior surface complete in all respect as shown on drawings and specifications.

Sq.m. 3

365

200

182500

Total Amount Carried over to summary of cost 5, 339, 200





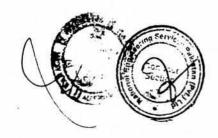


KARACHI FISHERIES HARBOUR AUTHORITY REHABILITATION & RENOVATION Of ARACHI for H HARBOUR EXTERNAL SERVICES (PART - I) PACKAGE "A" - CIVIL WORKS BILL OF QUANTITIES

CODE NO.05e Gate House

l	Item	Description	Unit I	Quantity	Rate	Amount
1	1-1-12.j			- 1	(Rs.)	(Rs.)
•	05	P. PLUMBING WORKS				Ā
		WATER SUPPLY				
		Ref. Spec. No. 5100, 5180				
	05e-1P	PPR cold & hot water pipes SDR 6 (PN 20) conforming to DIN 8077 & DIN 8078 & fittings SDR 6 (PN20) conforming to DIN 16962 of following diameters.				
		a) 15 mm	RM	25	500	12500
		b) 25 mm	RM	30	loov	30,000
	05e-2P	C.P. brass bib cock of the following diameter with perinial spray including all accessories:				r
		a) 15 mm	No.	5	low	Sav
	05e-3P	Fiber Glass Water tank of 500 gallons capacity as specified on drawing.	No.	5	520w	260,000
		PLUMBING FIXTURES				94
		Ref: Spec. No. 5100				
	05e-4P	Wash basin padestal type with all other accessories.	No.	3	15000	45000
	05e-5P	Wash basin counter type with all other accessories.	No.	3	Ssow	45000 165000 125000
	05e-6P	Westren water closet with all other accessories.	No.	5	25000	125 au
	05e-7P	Imported Belgium glass mirror.	Sq.M.	5	5000	2500
	05e-8P	Toilet Paper Holder as specified	No.	5	2000	25000 25000
	05e-9P	Towel rail as specified.	No.	5	5000	2500

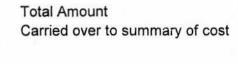




CC_E NO.05e Gate House

Item No.	Description	Unit	Quantity	Rate (Rs.)	Amount (Rs.)
	SANITARY DRAINAGE				
	Ref: Spec. No. 5100 & 5180				,
05e-101-	TuPVC soil, waste and vent pipes conforming to ASTM D-1785 of Schedule 40 & fittings D-		100,04		1
	2466 of Schedule 40 including fittings				1
	compatible with pipe of following diameter as				
	specified: (for unexpose piping).				
	a) 100 mm	RM	15	3500	2520
	b) 75 mm	RM	10	2500	25,000
	c) 32 mm	RM	5	1500	3500
05e-11P	uPVC floor drains of the following diameter:				, 500
	a) 75 mm	No.	5	15000	75000
05e-12P	uPVC floor clean out of following diameter:				
	a) 75 mm	No.	5	15000	75000
05e-13P	Cast iron gully trap in block work chamber of the following size including C.I cover & Frame(light duty)complete as shown on the drawing & as specified.				
	a) 300 mm x 300 mm	No.	5	115000	255









RESERVICES (PART-I) PACKAGE "A" - CIVIL WORKS BILL OF QUANTITIES

CODE NO. 05: ANCILLARY BUILDINGS.

Item No	Description	Unit Quantity	Rate	Amount
	0)		(Rs.)	(Rs.)

55e. Gate Houses (Main KFH Boundary Wall Gates).

E. ELECTRICAL WORKS

Supply, installation, testing and commissioning of the following items of work (unless specifically stated otherwise) including all material, labour, tools, plant, accessories, related civil works, etc., required for proper completion of each item as per specifications (Section-8001 "General Specifications for Electrical Works" shall be applicable to all BOQ items).

LT DISTRIBUTION BOARDS

Ref. Spec. Sec. 8133, 8212, 8240

05e-1E Following LT Distribution Boards (as per single line diagrams), recessed/surface mounted including all accessories, related civil works etc. complete in all respects.

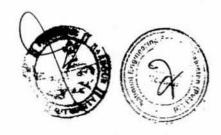
a) DB-GH(1 & 2)	Job	2	50,000	100,000
b) DB-GH(3 - 6)	Job	4	So,au	20000

LIGHT FIXTURES

Ref. Spec. Sec. 8150,8240

O5e-2E Following lighting fixtures with fluorescent or compact fluorescent or incandescent lamps or as per lighting fixture schedule installed on surface or on false ceiling complete with all accessories such as lamps, lamp holders, ballast, starters, capacitors, as applicable, etc. and all relevant installation material as approved by the Engineer.





Item No.	Description	Unit	Quantity	Rate (Rs.)	Amount (Rs.)
_	a) Type A1 Surface mounted batten light fixture body made of cold rolled steel (CRC) sheet Light retreated, painted and stove enameled in white color with 1X36W fluorescent lamp. Diffuser made of clear prismatic pattern		ಷ್ಟ		
	acrylic sheet.	No.	12	25000	300,00
	 b) Type D1 Surface mounted down lighter. Reflector made of highly polished specular aluminium finishes, white polycarbonate outer ring with 1X18W compact fluorescent lamp. WIRING 	No.	12	3 <i>S,0</i> 00	420,000
	Ref. Sec. 8212,8220,8230,8240,8290				
05e-3E	Wiring of light circuits from distribution board (DB) to point/switch including wiring between switches on the same circuit with 3(1x2.5sq.mm) single core copper conductor PVC cable complete with appropriate size surface/ concealed PVC conduit and all accessories etc., complete in all respect.	No.	6	25 <i>0</i> 00	00021
05e-4E	Wiring from light/exhaust fan point to switch with 3(1x1.5 sq.mm) single core copper conductor PVC cable, including appropriate size surface/ concealed PVC conduit, ceiling rose, 10 Amps light control gang switch, sheet steel back box, 3 core flexible cable and all				
	accessories etc., complete in all respect.	No.	30	Soco	120,000
05e-5E	Same as item No. 05e-4E, but wiring from point to point.	No.	6	52€	120,00
05e-6E	Wiring of 16A socket outlets with single core, copper conductor PVC cable complete with appropriate size concealed / surface PVC conduit and all accessories etc., complete in all respects.				
	 a) From Distribution Board (DB) to outlet with 3(1x2.5 sq.mm.) cable. 	No.	6	25000	120,021
	b) From outlet to outlet with 3(1x2.5 sq.mm) cable.	No.	12	15000	180,00

CODE NO 5: ANCILLARY BUILDINGS.

Item No.	Description	Unit	Quantity	Rate (Rs.)	Amount (Rs.)
*	WIRING ACCESSORIES Ref. Spec. Sec.8220, 8290				•
05e-7E	16,500,250 Volt, 2 pin ÷ earth, schuko socket outlet, with sheet steel back box and all		يثيد		
	accessories.	No.	18	15000	2.70,000
05e-8E	Sheet steel backbox with plastic cover plate including all mounting and installation accessories.			1	
	40000001100.	No.	2	(7000	30,000
	CONDUIT & PIPES Ref. Spec. Sec.8230				
05e-9E	25 mm dia PVC conduit installed concealed including all mounting and installation				1
	accessories.	RM.	20	1500	30,00
	EARTHING Ref. Spec. Sec. 8212, 8240				
05e-10E	600 mmx 600 mm x 3 mm tin plated copper Plate type earth electrode including 2x70 sq.mm PVC copper conductor cable as earthing lead, inspection chamber with medium duty C.I cover, 50 mm dia medium duty G.I pipe as shown on drawings, complete in all respect.				
	shown on drawings, complete in all respect.	No.	6	52,000	31200
	MISCELLANEOUS Ref. Spec. Sec. 8290				
05e-11E	56" sweep, single phase, 250V, ceiling fan including fan speed regulators / dimmers, fan			*	
	hook and all mounting accessories, as required, complete in all respects.	No.	6	600 Z	30,000
05e-12E	8" dia single phase, 250V exhaust fans with back draft dampers, anti-vermin screen, mounting accessories etc., including making opening in wall and making surface good, complete in all respects.	Ne	6	22	
	complete in all respects.	No.	6	5000	30,000



Carried over to summary of cost 2,502,000



RE : BILITATION AND RENOVATION OF KARACHI FISHARBOUR EXTERNAL SERVICES (PART- !) PACKAGE "A" - CIVIL WORKS BILL OF QUANTITIES

CODE NO.05 ANCILLIARY BUILDINGS.

Item No.	Description	Unit	Quantity	Rate	Amount (Rs.)
0	5f. Boundary Wall (Water Works)				

_.___

C. CIVIL WORKS

EARTHWORKS

Ref.Spec. No.1100

- 05f-1C Excavation of trenches in all kinds of subsurface material up to following depths including dewatering and disposal of surplus/rejected excavated material to designated places.
- a) 0 2 mater Cu.m. 312 Geo 18+200

 05f-2C Fill & backfill with selected material obtained from required excavation. Cu.m. 145 300 43500

REINFORCEMENT

Ref. Sec. No. 2200

05f-3C Grade 60 deformed hot rolled billet steel bars conforming to ASTM A-615. tonne 13 120,000 1560,000

PLAIN AND REINFORCED CONCRETE

Ref. Sec. No. 2300, 2100

- 05f-4C Class 'E' concrete using specified cement in foundations. Cu.m. 35 15000 525000
- 05f-5C Class 'D' concrete using specified cement in situ etc.

 Cu.m. 34 / 5000 510,000
- 05f-6C Class 'B' reinforced concrete in following substructures using specified cement complete in all respect as shown on the drawings & specifications.
 - a) Foundations Cu.m. 48 ! See 720,000
 b) Plinth Beams Cu.m. 30 13 8 39,000
 - c) Columns upto plinth Cu.m.





CODE NO.05 ANCILLIARY BUILDINGS.

Item No.	Description	Unit	Quantity	Rate (Rs.)	Amount (Rs.)
05f-7C	Class 'B' reinforced concrete in columns above plinth using specified cement complete in all respect as shown on the drawings.	Cu.m.	20	238	· 460,000
05f-8C	Precast Class 'B' reinforced concrete coping as per design using specified cement set in specified cement sand mortar complete in all respect as shown on the drawings.	Cu.m.	3	3200	n 105,00
	STRUCTURAL STEEL WORKS Ref.Spec. No. 3000				
05f-9C	Mild steel gate as per design including fixing and specified paint system complete in all respect as shown on the drawings and specifications.	Kg.	2,100	∞Z	1050,000
	BLOCK MASONRY Ref. Sec.No. 4100				,
05f-10C	150mm thick Reinforced block masonry set in 1:6 cement sand mortar.	Cu.m.	85	10,000	850,000
	WATER PROOFING AND BUILT-UP ROOFIN Ref. Sec.No. 6411	<u>IG</u>			
05f-11C	Two coats of hot bitumen grade 10/20 applied at the rate of 1 kg./Sq.m. per coat to all exposed structural concrete surfaces in contact with earth.	Sq.m.	720	C &	360,000
	CEMENT PLASTER Ref. Sec.No. 6521	54.	, 20	2 00	360,000
05f-12C	20mm thick 1:4 cement sand plaster to specified exterior surfaces.	Sq.m.	1,450	200	725,00
					,







CODE NO.05 ANCILLIARY BUILDINGS.

Item	Description	Unit	Quantity	Rate	Amount
No.	1.0			(Rs.)	(Rs.)

PAINTING

Ref.Spec. No. 6700

05f-13C Weather resistant dint of approved make, quality, colour/ shade including surfaces preparation to specified exterior surfaces complete in all respect as shown on the drawings and specifications.

Sq.m. 1,450

002

7-23,000

Total Amount
Carried over to summary of cost

8,330,701







KARACHI FISH MARBOUR AUTHORITY

REHABILITATION & RENCYPTION OF KARACHI FISH HARBOUR

EXTERNAL SERVICES (PART-I)
PACKAGE "A" - CIVIL WORKS
BILL OF QUANTITIES

CODE NO.06: EXTERNAL ELECTRICAL WORKS

Item	Description	Unit	Quantity	Rate	Amount
No.	Maria 27 /			(Rs.)	100 19

C. CIVIL WORKS

STEEL PIPE & FITTINGS

Ref.Sec. 5214

O6-1C Steel pipe conforming to API 5L (8mm wall thickness) sleeves on road crossings.

i) 550mm	Rm	15	26000	390,000
ii) 450mm	Rm	26	20,000	520,000
iii) 250mm	Rm			780,00
TURUST ROPING			1	

THRUST BORING

Ref.Sec. 5820

iii) 250mm

Thrust Boring below road for providing dia.
Following dia steel pipe conforming to API 5L
(8mm wall thickness) sleeves for pipe crossings.

i) 550mm	Rm	15 10,0	es 150,000
ii) 450mm	Rm [‡]	26 10,0	260000

Total Amount

Total Amount Carried over to summary of cost







65 10,000

KARACH FISH MARBOUR AUTHORITY

REHABILITATION & RENCY ION OF KARACHI FISH HARBOUR

EXTERNAL SERVICES (PART-I) PACKAGE "A" - CIVIL WORKS BILL OF QUANTITIES

CODE NO.06: EXTERNAL ELECTRICAL WORKS

Item	Description	Unit	Quantity	Rate	Amount
No.	Descrip	Unit	Quantity	(Rs.)	y New Y

E. ELECTRICAL WORKS

Supply and installation of the following items of work (unless specifically stated otherwise) including all material, labour, tools, plant, accessories, related civil works, etc., required for proper completion of each item as per specifications (Section-8001 "General Specifications for Electrical Works" shall be applicable to all BOQ items).

CONDUITS & PIPES

Ref. Spec. Sec. 8230

06-1E Following sizes (Internal Diameter) of underground uPVC Class 'D' pipes including all accessories, pipe range spacers, pull rope, sand bed, excavation & selected backfilling from excavation, complete in all respects:

a)	200 mm dia	RM	1,580	2500	3,950,000
b)	150 mm dia	RM	3,050	1000	3,050,000
c)	100 mm dia	RM			12,698,000
d)	50 mm dia	RM	1,240	1000	1,240,000
	N 2		T-4-	. 1 . A	

Total Amount 20,938,000



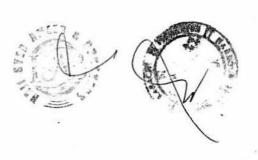




REHABILITATION & REN ATION C. KARACHI FISH HARBOUR EXTERNAL SERVICES (PART-I) PACKAGE "A" - CIVIL WORKS BILL OF QUANTITIES

Item No.	Description	Unit '	Quantity	Rate (Rs.)	Amoust (Rs.)
	06a. CCTV System for Harbour			-	
	C. CIVIL WORKS				
	STEEL PIPE & FITTINGS Ref.Sec. 5214				
06-1C	Steel pipe conforming to API 5L (8mm wall thickness) sleeves on road crossings.			* 3	
	i) 250mm	Rm	48	15000	7200
	ii) 200mm	Rm	150	10,000	1,5000 1,5000
	iii) 150mm	Rm	85	10,000	850a
	THRUST BORING Ref.Sec. 5820				,
06-2C	Thrust Boring below road for providing dia. Following dia steel pipe conforming to API 5L (8mm wall thickness) sleeves for pipe crossings.			,	
	i) 250mm	Rm	48	10,000	480,00 e,002,1 e00,028
	ii) 200mm	Rm	150	10,000	LSma
	iii) 150mm	Rm	85	10 800	2500

Total Amount Carried over to summary of cost





,900,000

REHABILITATION & R POVATION & KARACHI FISH HARBOUR EXTERNAL SERVICES (PART-I) PACKAGE "A" - CIVIL WORKS BILL OF QUANTITIES

CODE NO.06 EXTERNAL ELECTRICAL WORKS.

Item	Description	on	Unit	Quantity	Rate	Amount
No. 1		16.2	100		(Rs.)	(Rs.)

06a. CCTV System for Harbour.

E. ELECTRICAL WORKS

Supply and installation of the following items of work (unless specifically stated otherwise) including all material, labour, tools, plant, accessories, related civil works, etc., required for proper completion of each item as per specifications (Section-8001 "General Specifications for Electrical Works" shall be applicable to all BOQ items).

CONDUITS & PIPES

Ref. Spec. Sec. 8230

06a-1E 50 mm (Internal Diameter) of underground uPVC Class 'D' pipes including all accessories, pipe range spacers, pull rope, sand bed, excavation & selected backfilling from excavation, complete in all respects:

RM. 14,000

500

7,000,000

Total Amount

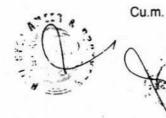
Carried over to summary of cost





REHABILITATION AND REN MATION OF KARACHI FISH HARBOUR EXTERNAL SERVICES (PART-I) PACKAGE "A" - CIVIL WORKS BILL OF QUANTITIES

Item No.	Description	Unit	Quantity	Rate (Rs.)	Amount (Rs.)
	06b. Electrical Manhole				
	C. CIVIL WORKS				
	EARTHWORKS Ref.Spec. No.1100				
06b-1C	Excavation of trenches in all kinds of sub- surface material up to following depths including dewatering and disposal of surplus/rejected excavated material to designated places.				
	a) 0 - 2 meter	Cu.m.	1500	600	900,000
	b) 2 - 4 meter	Cu.m.	50	800	40,000
06b-2C	Fill & backfill with selected material obtained from required excavation.	Cu.m.	250	300	900,000 40,000 75,000
	PLAIN AND REINFORCED CONCRETE Ref. Sec.No. 2300, 2100				
06b-3C	Class 'E' concrete using specified cement in foundations.	Cu.m.	80	15000	1,200,000
06b-4C	Class 'C' Plain Concrete using ordinary Portland Cement in benching Concrete	Cum	65	15an	9750m
)6b-5C	Class 'B' reinforced concrete using specified cement in following manholes/ chambers structures complete in all respect as shown on the drawings.				
	a) Base Slab	Cu.m.	150	15,000	7250, au
	b) Walls	Cu.m.	555	18,000	7,990, ax



c) Top Slab

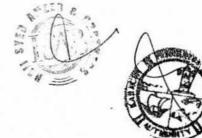
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CODE NO.06 EXTERNAL ELECTRICAL WALKS

Item No.	Description	Unit	Quantity	Rate (Rs.)	Amount (Rs.)
	REINFORCEMENT Ref. Sec.No. 2200	,		÷	
06b-6C	Grade 60 deformed hot rolled billet steel bars conforming to ASTM A-615.	tonne	101	150,000	15,150,00
	C.I COVERS WITH FRAME				
	Ref.Sec. 5233				
06b-7C	Water and dust tight cast iron cover with frame of 600 mm dia size including fixing. (Heavy duty)		244	10,000	2,440,00
06b-8C	20mm dia. M.s. galvanised ladder rungs including fixing and fixing accessories complete in all respect as shown on the drawings.		1,155	2000	2,310,000
	WATER PROOFING AND BUILT-UP ROOFII Ref. Sec.No.6411	<u>NG</u>		7	
06b-9C	Two coats of hot bitumen grade 10/20 applied at the rate of 1 kg./Sq.m. per coat to all exposed structural concrete surfaces in contact with earth.		1,650	500	825, au

Total Amount
Carried over to summary of cost

38,355,000



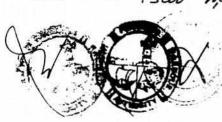


REHABILITATION AND RENOVATI SOF KARS HIS HARBOUR EXTERNAL SERVICES (PART-I) PACKAGE "A" - CIVIL WORKS BILL OF QUANTITIES

CODE NO.0	7 MAIN KFH	BOUNDARY WALL
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Item No.	Description	Unit	Quantity	Rate (Rs.)	Amount (Rs.)
	07. Boundary Wall				
	C. CIVIL WORKS				
	EARTHWORKS Ref.Spec. No.1100				
07-1C	Excavation of trenches in all kinds of subsurface material up to following depths including dewatering and disposal of surplus/rejected excavated material to designated places.				(
	a) 0 - 2 meter	Cu.m.	1,250	600	750,000
07-2C	Fill & backfill with selected material obtained from required excavation.	Cu.m.	665		199500
14	REINFORCEMENT Ref. Sec.No. 2200				7
07-3C	Grade 60 deformed hot rolled billet steel bars conforming to ASTM A-615.	tonne	60	110,000	6,600, ox
	PLAIN AND REINFORCED CONCRETE Ref. Sec.No. 2300, 2100				
07-4C	Class 'E' concrete using specified cement in foundations.	Cu.m.	170	15,000	2,550, aero
07-5C	Class 'D' concrete using specified cement in situ etc.	Cu.m.	. 165	15an	2,475,000
07-6C	Class 'B' reinforced concrete in following sub- structures using specified cement complete in all respect as shown on the drawings & specifications:	6 .			
	a) Foundations	Cu.m	. 230	Isax	3,450,000
	b) Plinth Beams	Cu.m	. 190	1 Sax	3,450,000 2,850,000





CODE NO.07 MAIN KFH BOUNDARY WALL

Item No.	Description	Unit	Quantity	Rate (Rs.)	Amount (Rs.)
	c) Columns upto plinth	Cu.m.	35	:5000	27300
∩7-7C 4	Class 'B' reinforced concrete in columns above plinth using specified cement complete in all respect as shown on the				
	drawings.	Cu.m.	115	15000	1,725,000
07-8C	Precast Class 'B' reinforced concrete coping as per design using specified cement set in specified cement sand mortar complete in all respect as shown on the drawings.	Cu.m.	95	15av	1425,000
	STRUCTURAL STEEL WORKS Ref.Spec. No. 3000				
07-9C	Mild steel gate as per design including fixing and specified paint system complete in all respect as shown on the drawings and specifications.	Kg.	1 570	3.6	549,500
	GALVANIZED IRON BARBED WIRE FENCIN Ref.Spec. No. 0420	Men Men	,,,,,,		11,000
07-10C	G.I Barbed wire fencing as per design including Y-shape angles, cutting, hoisting, welding, making pockets, cement grout, with all fixing accessories & painting on angles etc. complete in all respect as shown on the drawings and specifications.	Rm	760	3000	2,280, a
*	BLOCK MASONRY Ref. Sec.No. 4100				
07-11C	150mm thick Reinforced block masonry set in 1:6 cement sand mortar.	Cu.m.	510	10,000	5,100,000
	WATER PROOFING AND BUILT-UP ROOFIN Ref. Sec.No. 6411	<u>IG</u>			
07-12C	Two coats of hot bitumen grade 10/20 applied at the rate of 1 kg./Sq.m. per coat to all exposed structural concrete surfaces in		2.222	5~	1,950, a
	contact with earth.	Sq.m.	3,900	200	1,130,00



DDE NO.07 WAIN KFH BOUNDARY WALL

Item	Description	Unit	Quantity	Rate	Amount
No.				(Rs.)	(Rs.)

CEMENT PLASTER

Ref. Sec.No. 6521

0 20mm thick 1:4 cement sand plaster to specified exterior surfaces.

Sq.m. 6,800

900 6,120,0

PAINTING

Ref.Spec. No. 6700

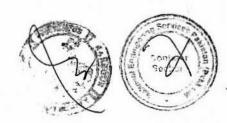
07-14C Weather resistant paint of approved make, quality, colour/ shade including surfaces preparation to specified exterior surfaces complete in all respect as shown on the drawings and specifications.

Sq.m. 6,800

500. 3,400,000

Total Amount Carried over to summary of cost





REHATITATION AND RENOVATION OF KATCHI FISH FORBOUR EXTERNAL SERVICES (PART-I) PACKAGE "A" - CIVIL WORKS BILL OF QUANTITIES

CODE NO.08 PRE INVESTIGATION FOR R.O. PLANT

Item !	Description	Unit	C	Rate	Amount
No.			7	(Rs.)	(Rs.)

EARTHWORKS

Ref. Sec.No. 1100

08-1 Soil Electrical Resistivity Survey for ground water/aquifer study at different locations as per site requirement and engineer's instructions complete in all respects along with complete ERS report.

No.

5 100,000

1

Total Amount Carried over to summary of cost

KARACHI FISHERIES HARBOUR AUTHORITY REHADI STATION AND RENOVATION OF KARAC FISH HAREOUR EXTERNAL SERVICES (PART- I) PACKAGE "A" - CIVIL WORKS **BILL OF QUANTITIES**

CODE	NO.	09	RO	ADS
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Item	Description	Unit	Quantity	Rate	Amount
No. 1				: (Rs.)	(Rs.)

C. CIVIL WORKS

EARTHWORKS

Ref. Sec.No. 1100

09-1C Excavation/ cutting in all kinds of sub-surface material including disposal of surplus/ rejected excavated materials to designated places.

Cu.m. 25,765

09-2C Selected earthfill including compaction 95% T-180, Method-D) modified (AASHTO complete in all respect as shown on the drawings, specifications and as directed by the Engineer.

1,000 1850 1850,000 Cu.m.

09-3C Selected fill with improved soil having CBR ≥ 15% at 95% modified (AASHTO T-180, Method-D) including compaction complete in all respect in conformity with the lines, levels and grades as shown on the drawings, specifications and as directed by the Engineer.

8,080 1200 9696000 Cu.m.

SUBGRADE PREPARATION

Ref. Sec.No. 7111

09-4C Subgrade preparation including compaction 95% modified (AASHTO T-180, Method-D)

44,500 108 4,806,000 Sq.m.

AGGREGATE SUBBASE & AGGREGATE BASE COURSE

Ref. Sec.No. 7120

09-5C Aggregate base Course, 200mm thick.

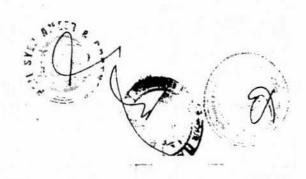
Cu.m.

8,725, 1800-15,705,000

09-6C Aggregate base Course, 150mm thick.

Cu.m.

130 2800 364,000



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BILL OF QUANTITIES

CODE NO. 5 RC	ADS
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Item No.	Description	Unit	Quantity	Rate (Rs.)	Amount (Rs.)
	CEMENT CONCRETE PAVEMENT				
	Ref. Sec.No. 7170				
09-7C	Concrete pavement of flexural strength 4.50 Mpa, using sulphate resistant cement, including all types of expansion. contraction			* 5	
	construction joints and dowel bars, complete in all respect.	Cu.m.	4,800	10,000	48,000,000
09-8C	Rehabilitation/ repair of existing concrete roads comprising cleaning and jet washing of existing top surface, repair of cracks by using polysulphide joint sealant and backer rod etc. complete in all respect as shown on the				
	drawings, specifications and as directed by			_	
	the Engineer.	Sq.m.	26,140	Sa	13,070,00
	REINFORCEMENT Ref. Sec.No. 2200				
09-9C	Grade 60 deformed hot rolled billet steel bars				NAME OF THE OWNER
	conforming to ASTM A-615.	tonne	33	115,000	3,795,000
09-10C	Welded wire fabric mesh type A193, BRC or approved equivalent including fixing.	Sq.m.	24,000	7,00	3,795,000 4,801,000
	PLAIN AND REINFORCED CONCRETE Ref. Sec.No. 2300,2200				
09-11C	Class 'E' plain concrete using ordinary Portland cement.	Cu.m.	1,485	10,000	14,850,000
09-12C	150 micron thick polyethylene sheet conforming to ASTM E-154 complete in all				07-
	respect as shown on the drawings.	Sq.m.	27,000	100	2,700,000
	CONCRETE PAVERS Ref. Sec. 2510				
09-13C	Concrete paving blocks (7700 PSI) 80mm thick of size 8"x4" (200x100mm) laid in approved pattern including 2" thick (50mm) sand cushion complete in all respect as				
	shown on the drawings.	Sq.m.	18,635	1500	27,952,500





CODE N	IO.09	ROA	DS
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Item	Description	Unit	Quantity	Rate	Amount
No.				(Rs.)	(Rs.)

MISCELLANEOUS ROAD WORKS

Ref. Sec. No. 7190

09-14C Precast fairfaced Class 'B' reinforced cement concrete Kerb stone as per design using sulphate resistant cement set in 1:4 cement sand mortar including earthworks, Class 'E' concrete etc. complete in all respect as shown on the drawings. (excluding the cost of steel reinforcement)

> 3,270 1500 4,905,000 a) Kerb stone with drain gutter R.M. 1,060 1200 1,272, an b) Kerb stone R.M.

FLOOR FINISHES

Ref. Sec. No. 6600

09-15C 75mm thick Class 'C' cement concrete 880 1500 1,320, an pavement over footpath. Sq.m.

TRAFFIC MARKING & PAVEMENT STUDS

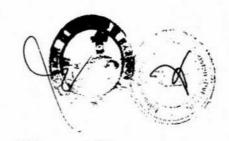
Ref. Sec.No. 7370

09-16C Pavement markings as shown on the drawings using thermoplastic paint complete in all respect as per specifications and as directed by the Engineer.

1,110 500 555,000 a)-Lane marking Sq.m. Sq.m. b) Zebra Crossing 09-17C Reflectorized road studs (heavy duty) as shown on the drawings and as per 1,380 500 690,000 specifications complete in all respect.

No.





CODE NO.09 ROALS

Item	Description	Unit	Quantity	Rate	Amount
No.				(Rs.)	(Rs.)

TRAFFIC SIGNS

Ref. Sec.No. 7380

09-18C Traffic sign boards (permanent) of the following types including reflective sheeting (diamond grade), posts, foundations earthwork and related civil work etc. as shown on the drawings complete in all respect.

a) Triangular

No.

50,000

200,00

b) Circular

No.

2 50.0W

100,000

Total Amount
Carried over to summary of cost

165,117,500





