

## CONSORTIUM



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**ESS-I-AAR**  
Planning, Engineering & Services  
Consultants

Ref: ABM/ESS-I-AAR/RBOD/1148

Date: 12<sup>th</sup> February 2014

Executive Engineer,  
Reach-III, RBOD  
Thatta at Makli.

**PROJECT:** Tenders for construction of Siphons & Fall Structures of RBOD in:  
*Package 1:-* for crossing MRB Link Canal at RD 739+500.  
*Package 2:-* for crossing KB Feeder Lower at RD 749.  
*Package 3:-* for crossing KG Canal at RD 782 including Construction of Village  
Road Bridge over RBOD on Jhampeer Road at RD 783.

**SUBJECT:** Tender Evaluation of above mentioned Packages.

**Reference:** Your letter No. TC/Bid/Eval:/dated 10 February, 2014.

Dear Sir,

1. The Tenders were evaluated to check the Compliance with general conditions, Arithmetic errors and any pre-conditions from the Contractors.

We found that the Tenders complied with the general conditions and the arithmetical errors were corrected wherever required. None of the contractors put any pre-conditions/deviations in the Tender.

The enclosed Tables give the comparison of tenders for each package. Following Contractors are recommended for respective package at the mentioned cost:

Package 1: M/s. Hafiz Rabnawaz & Co. at Rs. 629,535,028/-  
This price is 19.98% above Engineer's Estimate.

Package 2: M/s. ACCL at Rs. 752,359,566/-  
This price is 18.66% above Engineer's Estimate.

Package 3: M/s. Pritam Das at Rs. 820,344,700/-  
This price is 19.41% above Engineer's Estimate.

2. The Tender Securities are in order.

3. The completion time has been confirmed as 280 days by the Contractors for each package.

This is forwarded for your further necessary action. Thanks & Regards.

Yours truly,  
For **ABM ENGINEERS & ESS-I-AAR (JV)**

  
(**MOHAMMAD RIAZUDDIN**)

Project Coordinator

Encl.: As stated above.

Copy to:-

- |                     |         |
|---------------------|---------|
| 1) Project Director | 3) PSMT |
| 2) SE               | 4) File |

**Project Office:** 117/C, 2<sup>nd</sup> Floor, 12<sup>th</sup> East Street, Phase - I, Defence Housing Authority, Karachi  
Phone: 021-35383846 & 35383849, Fax: 021-35383834 Email: [abmeng@cyber.net.pk](mailto:abmeng@cyber.net.pk) & [mail@abm.com.pk](mailto:mail@abm.com.pk)

**Head Office:** Suite No. 314, 3<sup>rd</sup> Floor Mashriq Centre, Sir Shah Suleman Road, Gulshan-e-Iqbal, Karachi.  
Phone: 021-34852589, Fax: 021-34941059

RECEIVED DIARY

NO. 22660  
DATE: 3/3/14

CDM  
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**CONTRACT PACKAGE-1 "Construction of a Fall Structure on RBOD connected with Siphon Structure of Box culvert crossing under Escape of MRB Link Canal at RD 739+500 near Keenjhar Lake."**

**SUMMARY / ABSTRACT**

S.Nr	DESCRIPTION	Engineers Estimate		Hafiz Kabnawaz		Preetum Das		S. Sheraz Traders		A.C.C.L	
		Amount (Rs.)	Amount (Rs.)	Amount (Rs.)	Amount (Rs.)	Amount (Rs.)	Amount (Rs.)	Amount (Rs.)	Amount (Rs.)	Amount (Rs.)	Amount (Rs.)
1	Bill No: 1 Engineers Requirement	13,578,000	11,973,600	13,200,000	11,995,000	13,325,000					
2	Bill No: 2 Construction of Fall Structure	482,091,131	608,787,540	611,930,680	617,911,557	613,757,645					
3	Bill No: 3 Earthwork	29,043,521	8,773,889	11,698,518	9,748,765	12,673,395					
<b>CONSTRUCTION COST (Pak Rs.)</b>		<b>524,712,652</b>	<b>629,535,028</b>	<b>636,829,198</b>	<b>639,655,322</b>	<b>639,756,040</b>					
<b>Percentage Above Estimate</b>		-	19.98%	21.37%	21.91%	21.93%					

*[Signature]*  
**Imran Shaikh**  
 Superintending Engineer  
 RBOD Circle, Hyderabad @ Jamshoro.  
 Chairman Bidding Committee

*[Signature]*  
**Representative of PSMT (RBOD)**  
 Headquarters Engineers 5 Corps  
 Member Bidding Committee

*[Signature]*  
**Ghulam Yasin Qureshi**  
 Executive Engineer RBOD  
 Division - III Thatta  
 Secretary Bidding Committee

*[Signature]*  
**Manzoor Ansari**  
 Representative Assurance  
 Project NESPAK  
 Member Bidding Committee

*[Signature]*  
**Zahid Hussain Shaikh**  
 Superintending Engineer Lower Sindh  
 Drainage Circle, Hyderabad  
 Member Bidding Committee

*[Signature]*  
**Tehseen Palejo**  
 Resident Engineer M/s ABM  
 Engineers (Pvt) Ltd. Karachi  
 Member Bidding Committee

*[Signature]*  
 Lowest rate is hereby approved.  
 as recommended by  
 Superintending Engineer  
 RBOD Circle Hyderabad  
 @ 19.98% above estimated  
 cost.

*[Signature]*  
**PROJECT DIRECTOR**  
 RBOD - IN Project Karachi.

**COMPARATIVE STATEMENT OF PACKAGE NO: 01**  
**"Construction of a Fall Structure on RBOD connected with Siphon Structure of Box culvert crossing under Escape**  
**of MRB Link Canal at RD 739+500 near Keenjhar Lake."**

**Bill No. 1: ENGINEER'S REQUIREMENTS**

Item No.	Description	Unit	Quantity	Engineers Estimate		Hafiz Rabnawaz		Preetum Das		M/s S. Sheraz Traders		A.C.C.L	
				Rate	Amount (Rs.)	Rate	Amount (Rs.)	Rate	Amount (Rs.)	Rate	Amount (Rs.)	Rate	Amount (Rs.)
1	Providing & maintaining constructing Engineer's office Block cum Laboratory at approved location of plan in brick masonry with RCC roofing including necessary services like electrification, sanitation etc all completed as directed as per approved plan for entire period of construction.	Sq. Ft	500	3,000	1,500,000	2,500	1,250,000	3,000	1,500,000	3,000	1,500,000	3,500	1,750,000
2	Operate & maintain Engineer's Block Office and Car Parking at site including all Laboratory Staff, all utilities i.e. Lab, Electric, Water Gas, Telephone etc. for 18 months	Months	18	100,000	1,800,000	75,000	1,350,000	80,000	1,440,000	50,000	900,000	90,000	1,620,000
3	Providing Office Furniture for Consultants (Minimum) Requirement is as stated below:												
3.1	Wooden office table with drawers and side racks (6x3 ft. size)	Nr.	1	15,000	15,000	18,000	18,000	20,000	20,000	20,000	20,000	25,000	25,000
3.2	Officer's table with drawers and side racks (6x4 ft. size)	Nr.	3	10,000	30,000	12,000	36,000	15,000	45,000	15,000	45,000	16,000	48,000
3.3	Steel revolving sitting chairs with arms (standard size)	Nr.	4	8,000	32,000	9,600	38,400	10,000	40,000	5,000	20,000	12,000	48,000
3.4	Steel sitting chairs with arms (standard size)	Nr.	8	2,000	16,000	2,400	19,200	2,500	20,000	2,500	20,000	3,000	24,000
3.5	Steel filing cabinet (standard size)	Nr.	1	5,000	5,000	6,000	6,000	5,000	5,000	10,000	10,000	6,000	6,000
4	Providing & Supply walkss Phone including maintenance	Nr.	18	10,000	180,000	12,000	216,000	10,000	180,000	10,000	180,000	8,000	144,000

Description	Unit	Quantity	Rate	Amount (Rs.)	Rate	Amount (Rs.)	Rate	Amount (Rs.)	Rate	Amount (Rs.)	Rate	Amount (Rs.)
providing & Supplying as & when required, new & unused, latest model of approved vehicles to Engineer as under: including registration & comprehensive insurances												
5.1 4WD- 5-Speed Manual, brand new Suzuki Jeep with all standard accessories providing by the manufacturer Model-2013 including Registration Insurance Comprehensive & Satellite track system.	Nr.	1	3,500,000	3,500,000	3,000,000	3,000,000	3,500,000	3,500,000	3,500,000	3,500,000	3,500,000	3,300,000
5.2 Toyota 2014 Model VIGO (2494 cc) with all standard accessories providing by the manufacturer Model-2013 including Registration Insurance, Comprehensive & Satellite track system.	Nr.	1	4,700,000	4,700,000	4,600,000	4,600,000	4,650,000	4,650,000	4,000,000	4,000,000	4,200,000	4,200,000
5.3 Toyota 2014 Model 2D Saloon (1975 CC) or equivalent with all standard accessories providing by the manufacturer Model-2013 i/c Registration, Insurance, Comprehensive & Satellite track system.	Nr.		2,500,000									
5.4 Operate and maintain above vehicle including POI. and maintenance for 18 months.	Months	18	100,000	1,800,000	80,000	1,440,000	100,000	1,800,000	100,000	1,800,000	120,000	2,160,000
			Total (Rs)	13,578,000	11,973,600	13,200,000		11,995,000		13,325,000		13,325,000
			Amount in Millions	13.578	11.974	13.200		11.995		13.325		13.325

**COMPARATIVE STATEMENT OF PACKAGE NO: 01**  
**"Construction of a Fall Structure on RBOD connected with Siphon Structure of Box culvertcrossing under Escape**  
**of MRB Link Canal at RD 739+500 near Keenjhar Lake."**

**Part No. 2: CIVIL WORK**

Item No.	Description	Unit	Quantity	Engineers Estimate		Hafiz Rabnawaz		Preetum Das		M/s S. Sheraz Traders		A.C.C.L	
				Rate	Amount (Rs.)	Rate	Amount (Rs.)	Rate	Amount (Rs.)	Rate	Amount (Rs.)	Rate	Amount (Rs.)
1	jungle Clearance and removing within 100 feet												
	(a) Light	% Sft											
	(b) Thick	% Sft	500,000	151.25	75,625	150	75,000	101	50,500	150	75,000	102	51,000
2A	<b>Earth Works</b>												
	(1) Excavation in foundation of Building, Bridges and other structures including Dagbelling, dressing, refilling around structure with excavated earth watering and ramming upto 5 ft. In Transitions, Fall Structure and Box culverts.												
	a) In Sand	% Cft	2,000,000	2722.50	5,445,000	2,500	5,000,000	2,525	5,050,000	4,000	8,000,000	2,538	5,076,000
	b) In Ordinary Soil	% Cft	7,630,000	3176.25	24,234,788	3,500	26,705,000	3,535	26,972,050	3,500	26,705,000	3,553	27,109,390
	c) In hard soil or soft murrum	% Cft	2,350,000	3554.38	8,352,793	4,500	10,575,000	4,545	10,680,750	4,500	10,575,000	4,568	10,734,800
2B	Extra for Slush or Daldal.	% Cft	1,200,000	2420.00	2,904,000	2,000	2,400,000	2,020	2,424,000	1,000	1,200,000	2,030	2,436,000
3	<b>Earthwork Excavation by Hydraulic Excavator leads up to 50 ft. in ordinary soil.</b>												
	a) Retaining Walls	% Cft	450,000	1748.57	786,857	2,500	1,125,000	2,525	1,136,250	2,500	1,125,000	2,538	1,142,100
	b) Removal Bunds	% Cft	13,220,000	2331.43	30,821,505	500	6,610,000	455	6,015,100	300	3,966,000	457	6,041,540
4	<b>Borrow Excavation</b>												
	Borrow pit excavation undressed lead up to 100 ft. in ordinary soil.												
	a) Coffor Dam	% Cft	1,080,000	2117.50	2,286,900	2,200	2,376,000	2,222	2,399,760	2,000	2,160,000	2,233	2,411,640
	b) Extra for additional lead	% Cft	1,080,000	107.89	116,521	115	124,200	116	125,280	100	108,000	117	126,360
5	<b>Earthwork by Tractor with scraper including compaction, dressing leveling etc. complete in accordance with profile in ordinary soil lead up to 100 ft.</b>												
	Canal making over Box culverts												

**COMPARATIVE STATEMENT OF PACKAGE NO: 01**  
**"Construction of a Fall Structure with Siphon Structure of Box culvert crossing under Escape**  
**of MRB Link Canal at RD 739+500 near Keenjhar Lake."**

**No. 2: CIVIL WORK**

Sl. No.	Description	Unit	Quantity	Engineers Estimate		Hafiz Rabnawaz		Preetum Das		M/s S. Sheraz Traders		A.C.C.L	
				Rate	Amount (Rs.)	Rate	Amount (Rs.)	Rate	Amount (Rs.)	Rate	Amount (Rs.)	Rate	Amount (Rs.)
6	1) Diversion channel	% Cft	120,000	2058.13	246,976	2,367	284,022	2,391	286,920	2,000	240,000	2,402	288,240
	2) Canal making over Box culverts	% Cft	855,000	2058.13	1,759,701	2,367	2,023,657	2,391	2,044,305	2,000	1,710,000	2,402	2,053,710
	Earthwork compaction in ordinary soil by rolling excluding hire charges of the Roller.	% Cft	855,000	756.00	646,380	847	723,946	855	731,025	500	427,500	859	734,445
7	Earthwork excavation in irrigation channels dressed to design section grades & profiles excavated material disposed of undressed with in 50 ft. lead. In ordinary soil for rehabilitation of KG Canal.	% Cft	1,675,000	2420.00	4,053,500	3,000	5,025,000	3,030	5,075,250	3,000	5,025,000	3,045	5,100,375
8	Dressing and leveling of earth work to designed section, etc. complete.												
9	1) Canal over culverts	% Cft	855,000	187.55	160,355	216	184,406	218	186,390	200	171,000	219	187,245
	2) Areas adjoining Fall structure	% Cft	200,000	187.55	37,510	210	42,012	220	44,000	220	44,000	213	42,600
	a) Supplying and filling new Jute bags 4 to 5 Cft. Capacity with sand or earth sewing stacking in dry.	Each bag	50,000	202.46	10,123,000	150	7,500,000	152	7,600,000	100	5,000,000	152	7,600,000
	b) Carrying of new Jute bags 4 to 5 cft. Capacity filled with sand or earth first chain.	% Bag	50,000	605.00	302,500	300	150,000			500	250,000	305	152,500
10	Hire charges of 10-12 Ton Road Roller.	Per Hr.	1,800	822.58	1,480,644	987	1,776,780	997	1,794,600	1,000	1,800,000	1,002	1,803,600
11	Stone Pitching hand packed with surface leveled off to the Correct Section with hammer dressed Stone & voids filled in 1:8 cement mortar in floors of bridges and along hands & in aprons etc. including three chains lead	% Cft	26,000	7708.47	2,004,202	3,000	780,000	3,030	787,800	3,000	780,000	3,045	791,700

**COMPARATIVE STATEMENT OF PACKAGE NO: 01**  
**"Construction of a Fall Structure with Siphon Structure of Box culvertcrossing under Escape**  
**of MRB Link Canal at RD 739+500 near Keenjhar Lake."**

**No. 2: CIVIL WORK**

Item No.	Description	Unit	Quantity	Engineers Estimate		Hafiz Rabnawaz		Preetum Das		M/s S. Sheraz Traders		A.C.C.L	
				Rate	Amount (Rs.)	Rate	Amount (Rs.)	Rate	Amount (Rs.)	Rate	Amount (Rs.)	Rate	Amount (Rs.)
12	Random, rubble masonry un-coursed under the foundation of Fall structure and Culverts. Dry masonry	% Cft	200,000	19757.03	39,514,060	12,000	24,000,000	12,120	24,240,000	12,000	24,000,000	12,180	24,360,000
13	CC plain i/c placing, compacting, finishing and curing, complete (i/c screening & washing at stone aggregate without shuttering in 1:2:4).	% Cft	60,000	14429.25	8,657,550	12,000	7,200,000	12,120	7,272,000	12,000	7,200,000	12,180	7,308,000
14	RCC work i/c all labour & material in roof slab, beams, columns, raft, lintels & other structural members laid on situ or precast except the cost of steel reinforcement & its labour for bending and binding, which will be paid separately. This rate also i/c all kinds of forms moulds: lifting, shuttering, mixing, placing in position, vibrating curing rendering & finishing the exposed surface (including screening & washing of shingle/ crushed stone aggregate of 4000psi(cylinder) with min 22 bags of cement per 100cft in:	Per Cft	450,000	349.00	157,050,000	535	240,750,000	550	247,500,000	576	259,335,000	570	256,500,000
15	Fabrication of Hard Grade deformed Grade 60(60ksi yield strength) reinforcement for cement concrete i/c cutting, bending, laying in position, making joints & fastenings, i/c cost of binding wire, chairs etc (also i/c removal of rust from bars).	Per Cwt	31,500	5001.70	157,553,350	7,600	239,400,000	7,575	238,612,500	7,500	236,250,000	7,300	229,950,000

**COMPARATIVE STATEMENT OF PACKAGE NO: 01**  
**"Construction of a Fall Structure on RBOD connected with Siphon Structure of Box culvert crossing under Escape**  
**of MRB Link Canal at RD 739+500 near Keenjhar Lake."**

**No. 2: CIVIL WORK**

Item No.	Description	Unit	Quantity	Enhineers Estimate		Hafiz Rabnawaz		Preetum Das		M/s S. Sheraz Traders		A.C.C.I	
				Rate	Amount (Rs.)	Rate	Amount (Rs.)	Rate	Amount (Rs.)	Rate	Amount (Rs.)	Rate	Amount (Rs.)
16	P/ Applying Hi Bond (Sealer) water proofing polymer Modified cementation slurries (WPMCS) to be used as water proofing, anticorrosion, water resistance or curing membrane for fresh concrete having thickness upto 2mm in coats upto 20' height textured or trowel finish grey i/c preparing the surface for application as directed by engineer In charge.	% Sft	150,000	2282.77	3,424,155	2,648	3,972,015	2,674	4,011,000	3,000	4,500,000	3,000	4,500,000
17	Providing "expansion joint" in concrete work of 9" wide corrugated PVC water stop (with bulb) i/c soldering cost of material and labour etc. complete.	Per RM	600	282.17	169,302	322	193,002	325	195,000	300	180,000	400	240,000
18	<b>Cement Concrete Lining</b> Cement concrete lining ratio 1:2:4												
	(a) In Beds	% Cft	12,000	13789.32	1,654,718	19,000	2,280,000	18,180	2,181,600	20,000	2,400,000	20,300	2,436,000
	(b) In Slopes	% Cft	20,000	14227.95	2,845,590	20,000	4,000,000	20,200	4,040,000	22,000	4,400,000	20,300	4,060,000
19	Filling of joints in Canal	Per ft.	5,000	22.69	113,450	31	152,500	31	155,000	30	150,000	31	155,000
20	Fire charges of pump set up to 10 HP.	Per day	180	1500.00	270,000	2,000	360,000	2,020	363,600	2,000	360,000	2,030	365,100
21	Installing well point system in stages to dewater the area for keeping the site of construction dry till finishing the concrete structure "The unit is item and the rate shall be Lump Sum"	Lump Sum	-	-	15,000,000	-	13,000,000	-	10,000,000	-	9,775,057	-	10,000,000
<b>Total Amount (Rs.)</b>					<b>482,091,131</b>		<b>608,787,540</b>		<b>611,930,680</b>		<b>617,911,557</b>		<b>613,757,645</b>
				<b>Millions</b>	<b>482.091</b>	<b>608.788</b>	<b>611.931</b>	<b>617.912</b>	<b>613.758</b>				



**COMPARATIVE STATEMENT OF PACKAGE NO: 01**  
**"Construction of a Fall Structure on RBOD connected with Siphon Structure of Box culvert crossing under Escape**  
**of MRB Link Canal at RD 739+500 near Keenjhar Lake."**

**Bill No. 3: EARTHWORK & DRAIN EMBANKMENT**

S. No	Description of Item	Unit	Quantity	Engineers Estimate		Hafiz Rabnawaz		Preetum Das		M/s S. Sheraz Traders		A.C.C.L	
				Rate	Amount (Rs.)	Rate	Amount (Rs.)	Rate	Amount (Rs.)	Rate	Amount (Rs.)	Rate	Amount (Rs.)
1	Earth work excavation in irrigation channels, drain in any kind of soil dressed and profiles as per drawing. This item comprises the following: (a) Laying earth in 6" layers. (b) Compaction by mechanical roller. (c) Remanding of earth work. (d) Borrow pit excavation.	% Cft	1,949,753	14,896	29,043,521	4,500	8,773,889	6,000	11,698,518	5,000	9,748,765	6,500	12,673,395
<b>Total Amount (Pak Rs)</b>					29,043,521		8,773,889		11,698,518		9,748,765		12,673,395
				Million	29.044		8.774		11.699		9.749		12.673

**CONTRACT PACKAGE-2 "Construction of a Fall Structure on RBOD connected with Siphon Structure of Box culverts crossing under K.B. Feeder Lower at RD 749+000."**

**SUMMARY / ABSTRACT**

S NO.	DESCRIPTION	Engineers Estimate	Hafiz Rabnawaz	Preetum Das	Sehwani Enterprises	A.C.C.L
		Amount (Rs.)	Amount (Rs.)	Amount (Rs.)	Amount (Rs.)	Amount (Rs.)
1	Bill No: 1 Engineers Requirement	13,578,000	12,010,770	11,896,587	12,271,000	11,172,800
2	Bill No: 2 Construction of Fall Structure	597,108,275	749,238,215	738,968,619	791,449,100	732,554,516
3	Bill No: 3 Earthwork	23,379,272	6,326,655	6,254,458	6,591,900	8,632,250
<b>CONSTRUCTION COST (Pak Rs.)</b>		<b>634,065,547</b>	<b>767,575,639</b>	<b>757,119,663</b>	<b>810,312,000</b>	<b>752,359,566</b>
<b>Percentage Above Estimate</b>		-	21.06%	19.41%	27.80%	18.66%

*lowest rate is hereby approved as recommended by Superintendent Engineer RBOD Circle Hyderabad @ 18.66% above estimate.*

*lowest*

**Imran Shaikh**  
Superintending Engineer  
RBOD Circle, Hyderabad @ Jamshoro.  
Chairman Bidding Committee

**Ghulam Yasin Qureshi**  
Executive Engineer RBOD  
Division - III Thatta  
Secretary Bidding Committee

**Zahid Hussain Shaikh**  
Superintending Engineer Lower Sindh  
Drainage Circle, Hyderabad  
Member Bidding Committee

**Tehseen Paleejo**  
Resident Engineer M/s ABM  
Engineers (Pvt) Ltd. Karachi  
Member Bidding Committee

**Manzoor Ansari**  
Representative Assurance  
Project NESPAK  
Member Bidding Committee

**PROJECT DIRECTOR**  
RBOD-III Project Karachi

**COMPARATIVE STATEMENT OF PACKAGE NO: 02**

**"Construction of a Fall Structure on RBOD connected with Siphon Structure of Box culverts crossing under K.B. Feeder Lower at RD 749+000."**

**Bill No. 1: ENGINEER'S REQUIREMENTS**

Item No.	Description	Unit	Quantity	Engineers Estimate		Hafiz Rabnawaz		Preetum Das		Schwami Enterprises		A.C.C.I	
				Rate	Amount (Rs.)	Rate	Amount (Rs.)	Rate	Amount (Rs.)	Rate	Amount (Rs.)	Rate	Amount (Rs.)
1	Providing & maintaining constructing Engineer's office Block cum Laboratory at approved location of plan in brick masonry with RCC roofing including necessary services like electrification, sanitation etc all completed as directed as per approved plan for entire period of construction.	Sq Ft	500	3,000	1,500,000	2,365	1,182,500	2,338	1,169,000	2,470	1,235,000	2,200	1,100,000
2	Operate & maintain Engineer's Block Office and Car Parking at site including all Laboratory Staff, all utilities i.e. Lab, Electric, Water Gas, Telephone etc. for 18 months.	Months	18	100,000	1,800,000	76,863	1,383,534	76,148	1,370,664	80,000	1,440,000	71,500	1,287,000
3	Providing Office Furniture for Consultants (Minimum) Requirement as stated below:												
3.1	Wooden office table with drawers and side racks (6x3 ft. size)	Nr.	1	15,000	15,000	17,738	17,738	17,578	17,578	18,000	18,000	16,500	16,500
3.2	Officer's table with drawers and side racks (6x4 ft. size)	Nr.	3	10,000	30,000	11,825	35,475	11,715	35,145	12,000	36,000	11,000	33,000
3.3	Steel revolving sitting chairs with arms (standard size)	Nr.	4	8,000	32,000	9,460	37,840	9,372	37,488	10,000	40,000	8,800	35,200
3.4	Steel sitting chairs with arms (standard size)	Nr.	8	2,000	16,000	2,365	18,920	2,348	18,784	2,500	20,000	2,200	17,600
3.5	Steel filing cabinet (standard size)	Nr.	1	5,000	5,000	5,913	5,913	5,858	5,858	6,000	6,000	5,500	5,500

MRBOD Sehwan to Sea

Description	Unit	Quantity	Rate	Amount (Rs.)	Rate	Amount (Rs.)	Rate	Amount (Rs.)	Rate	Amount (Rs.)	Rate	Amount (Rs.)
Providing & Supply wireless Phone including maintenance	Nr.	18	10,000	180,000	11,825	212,850	11,715	210,870	12,000	216,000	11,000	198,000
Providing & Supplying as & when required, new & unused, latest model of approved vehicles to Engineer & under including registration & comprehensive insurances.												
5.1 4WD- 5-Speed Manual, brand new Suzuki Jeep with all standard accessories providing by the manufacturer Model-2013 including Registration Insurance Comprehensive & Satellite track system.	Nr.	1	3,500,000	3,500,000	2,687,500	2,662,500	2,662,500	2,700,000	2,700,000	2,700,000	2,500,000	2,500,000
5.2 Toyota 2014 Model VIGO (2494 cc) with all standard accessories providing by the manufacturer Model-2013 including Registration Insurance, Comprehensive & Satellite track system.	Nr.	1	4,700,000	4,700,000	4,300,000	4,260,000	4,260,000	4,400,000	4,400,000	4,400,000	4,000,000	4,000,000
5.3 Toyota 2014 Model 2D Saloon (1975 CC) or equivalent with all standard accessories providing by the manufacturer Model-2013 i/c Registration, Insurance, Comprehensive & Satellite track system.	Nr.	0	2,000,000	-	-	-	-	-	-	-	-	-
5.4 Operate and maintain above vehicle including PDL and maintenance for 18 months.	Months	18	100,000	1,800,000	118,250	2,128,500	117,150	2,108,700	120,000	2,160,000	110,000	1,980,000
Total (Rs)				13,578,000		12,010,770		11,896,587		12,271,000		11,172,800
Amount in Millions				13.578		12.011		11.897		12.271		11.173

COMPARATIVE STATEMENT OF PACKAGE NO: 02

"Construction of a Fall Structure on RBOD connected with Siphon Structure of Box culverts crossing under K.B. Feeder Lower at RD 749+000.

CIVIL WORK

Sl. No.	Description	Unit	Quantity	Engineers Estimate		Hafiz Rabnawaz		Preetum Das		Selhwani Enterprises		A.C.C.L	
				Rate	Amount	Rate	Amount	Rate	Amount	Rate	Amount	Rate	Amount
1	Jungle Clearance and removing within 100 feet												
	(a) Light	% Sft	500,000	75.63	37,815	109.76	54,880	108.48	54,240	110	55,000	102.10	51,050
	(b) Thick	% Sft	5,000	151.25	756	219.5	1,098	216.75	1,084	220	1,100	204.19	1,021
2A	Earth Works.												
	(1) Excavation in foundation of Building, Bridges and other structures including Dagbelling, dressing, refilling around structure with excavated earth watering and ramming upto 5 ft. In Transitions, Fall Structure & Box culverts.												
	a) In Sand	% Cft	3,500,000	2,722.50	9,528,750	3010	10,535,000	2,975	10,412,500	3,100	10,850,000	2,800	9,800,000
	b) In Ordinary Soil	% Cft	4,650,000	3,176.25	14,769,563	4515	20,994,750	4,462.50	20,750,625	4,700	21,855,000	4,200	19,530,000
	c) In hard soil or soft murrum	% Cft	350,000	3,554.38	1,244,033	3332	1,166,200	3,293.75	1,152,813	3,500	1,225,000	3,100	1,085,000
	Extra for Slush or Dalidal.	% Cft	1,200,000	2.470	2,904,000	1935	2,322,000	1,912.50	2,295,000	2,000	2,400,000	1,800	2,160,000
3	Earthwork Excavation by Hydraulic Excavator leads up to 50 ft. in ordinary soil.												
	a) Retaining Walls	% Cft	600,000	1,743.57	1,049,142	2236	1,341,600	2,210.00	1,326,000	2,300	1,380,000	2,080	1,248,000
	b) Removal Burns	% Cft	8250,000	2,331.43	19,234,298	107.5	886,875	106.25	876,563	109	899,250	100	825,000
4	Borrow Excavation												
	Borrow pit excavation undressed lead up to 100 ft. in ordinary soil.												
	a) Coffor Dam	% Cft	950,000	2,117.50	2,011,625	3225	3,063,750	3,187.50	3,028,125	3,300	3,135,000	3,000	2,850,000
	b) Extra for additional lead	% Cft	650,000	107.89	70,129	268.75	174,688	265.63	172,660	270	175,500	250	1,62,500

**COMPARATIVE STATEMENT OF PACKAGE NO: 02**  
**"Construction of a Fall Structure on RBOD connected with Siphon Structure of Box culverts**  
**crossing under K.B. Feeder Lower at RD 749+000.**

**No. 2: CIVIL WORK**

Item No.	Description	Unit	Quantity	Engineers Estimate		Hafiz Rabnawaz		Preetum Das		Sehwani Enterprises		A.C.C.L	
				Rate	Amount	Rate	Amount	Rate	Amount	Rate	Amount	Rate	Amount
5	Earthwork by Tractor with scraper including compaction, dressing leveling etc. complete in accordance with profile in ordinary soil lead up to 100 ft. Canal making over Box culverts												
	1) Diversion channel	% Cft	120,000	2,058.13	246,976	1612.5	193,500	1,598.75	191,850	1,700	204,000	1,500	180,000
	2) Canal making over Box culvert	% Cft	1,035,000	2,058.13	2,130,165	337.5	556,313	531.25	549,844	550	569,250	500	517,500
6	Earthwork compaction in ordinary soil by rolling excluding hire charges of the Roller.	% Cft	1,250,000	756	945,000	1097.15	1,371,438	1,084.39	1,355,488	1,100	1,375,000	1,020.6	1,275,750
7	Earthwork excavation in irrigation channels dressed to design section grades and profiles excavated material disposed of undressed with in 50 ft. lead. In ordinary soil for rehabilitation of KG Canal.	% Cft	2,675,000	2,420	6,473,500	2687.5	7,189,063	2,636.25	7,105,469	2,700	7,222,500	2,500	6,687,500
8	Dressing and leveling of earth work to designed section, etc. complete.												
	1) Canal over culverts	% Cft	1,250,000	187.55	234,438	272.18	340,225	269.02	336,275	300	375,000	10,253.00	12,815,250
	2) Areas adjoining Fall structure	% Cft	450,000	187.55	84,398	272.18	122,481	269.02	121,059	300	135,000	10,253.00	4,613,850
9	a) Supplying and filling new jute bags 4 to 5 Cft. Capacity with sand or earth sewing stacking in dry.	Each bag	50,000	202.46	10,123,000	188.13	9,406,500	185.94	9,297,000	200	10,140,000	200	11,000,000
	b) Carrying of new jute bags 4 to 5 Cft. Capacity filled with sand or earth first chain.	% Bag	30,000	405	302,500	430	215,300	425.00	212,500	450	225,000	400	200,000

COMPARATIVE STATEMENT OF PACKAGE NO: 02

"Construction of a Fall Structure on RBOD connected with Siphon Structure of Box culverts crossing under K.B. Feeder Lower at RD 749+000.

2. CIVIL WORK

S.No.	Description	Unit	Quantity	Engineers Estimate		Hafiz Rabnawaz		Preetum Das		Sehwani Enterprises		A.C.C.L	
				Rate	Amount	Rate	Amount	Rate	Amount	Rate	Amount	Rate	Amount
10	Hire charges of 10-12 Ton Road Roller.	Per Hr.	1,600	822.58	1,316,128	1193.77	1,910,032	1,179.89	1,887,824	1,200	1,920,000	1,110.48	1,776,768
11	Stone Pitching hand packed with surface leveled off to the Correct Section with hammer dressed Stone & voids filled in 1:8 cement mortar in floors of bridges and along hands & in aprons etc. including three chains lead	% Cft	300,000	7,708.47	23,125,410	4837.5	14,512,500	4,781.25	14,343,750	5,000	15,000,000	10,000	30,000,000
12	Random, rubble masonry un-coursed under the foundation of Fall structure and Culverts. Dry masonry	% Cft	385,000	19,757.03	76,064,566	14212.58	54,718,433	14,047.33	54,082,221	15,000	57,750,000	13,221	50,900,850
13	CC plain i/c placing, compacting, finishing and curing, complete (i/c screening & washing at stone aggregate without shuttering in 1:2:4).	% Cft	70,000	14,129.25	10,100,475	13975	9,782,500	13,812.50	9,668,750	14,000	9,800,000	13,000	9,100,000
14	RCC work i/c all labour & material in roof slab beams columns raft lintels & other structural member laid situ or pre-cast except the cost of steel & its labour for bending & binding which will be paid separately. This rate i/c all kind of form mould lifting, shuttering mixing placing in position vibrating curing render finishing exposed surface (i/c screening stone aggregate of 4000 psi (cylinder) with min 22 bag of cement per 100cft in.	Per Cft	550,000	349	191,950,000	523.53	287,111,500	517.40	284,570,000	600	330,000,000	487	267,000,000

COMPARATIVE STATEMENT OF PACKAGE NO: 02

"Construction of a Fall Structure on RBOD connected with Siphon Structure of Box culverts crossing under K.B. Feeder Lower at RD 749+000.

CIVIL WORK

Description	Unit	Quantity	Engineers Estimate		Haifiz Rabnawaz		Preetum Das		Sehwani Enterprises		A.C.C.I	
			Rate	Amount	Rate	Amount	Rate	Amount	Rate	Amount	Rate	Amount
Fabrication of Hard Grade deformed Grade 60(60ksi yield strength) RCC i/c cutting, bending, laying in position, making joints & fastenings, including cost of binding wire, chairs etc (also includes removal of rust from bars).	Per Cwt	33,000	5,001.70	165,056,100	7770.1	256,413,300	7,679.75	253,431,750	7,500	247,500,000	7,228	238,524,000
16 P/Applying Hi Bond (Scaler) water proofing polymer Modified cementations slurries (WPMCS) to be used as water proofing, anticorrosion, water resistance or curing, membrane for fresh concrete having thickness upto 2mm in coats upto 20' height textured or trowel finish grey i/c preparing the surface for application as directed by engineer in charge.	% Sit	180,000	2,282.77	4,108,986	2687.5	4,837,500	2,656.25	4,781,250	3,000	5,400,000	2,500	4,500,000
17 Providing "expansion joint" in concrete work of 9" wide corrugated PVC water stop (with bulb) i/c soldering cost of material and labour etc. complete	in/Per RM	750	282.17	211,928	409.5	307,125	401.74	303,555	450	3,37,500	380.93	285,698
18 Cement Concrete Lining												
Cement concrete lining, ratio 1:2:4												
(a) In Beds	% Cft	50,000	13,789.32	6,894,660	18275	9,137,500	18,062.50	9,031,250	18,500	9,230,000	17,000	8,500,000
(b) In Slopes	% Cft	14,000	14,227.95	1,991,913	18812.5	2,631,750	18,593.75	2,603,125	19,000	2,660,000	17,500	2,450,000
Filling of joints in sand	Per ft.	6,000	22.69	136,074	32.93	197,580	32.55	195,300	35	210,000	30.63	183,780



Shwani to Sea

COMPARATIVE STATEMENT OF PACKAGE NO: 02

"Construction of a Fall Structure on RBOD connected with Siphon Structure of Box culverts crossing under K.B. Feeder Lower at RD 749+000.

0.2: CIVIL WORK

Sl. No.	Description	Unit	Quantity	Engineers Estimate		Hafiz Rabnawaz		Preetum Das		Selhwani Enterprises		A.C.C.I.	
				Rate	Amount	Rate	Amount	Rate	Amount	Rate	Amount	Rate	Amount
20	Hire charges of pump set up to 10 HP.	Per day	3,200	1,500	4,800,000	2176.88	6,966,016	2,151.56	6,884,992	2,200	7,040,000	2,025	6,480,000
21	Installing well point system in stages to dewater the area for keeping the site of construction dry till finishing the concrete structure "The unit is Item and the rate shall be Lump Sum"	Lump Sum	-	-	40,000,000	-	40,000,000	-	38,000,000	-	42,500,000	-	38,000,000
Total Amount (Rs.)					597,108,275		749,238,215		738,968,619		791,449,100		732,554,516
					Millions		749,238		738,969		791,449		732,555

COMPARATIVE STATEMENT OF PACKAGE NO: 02

"Construction of a Fall Structure on RBOD connected with Siphon Structure of Box culverts crossing under K.B. Feeder Lower at RD 749+000.

Bill No. 3: EARTHWORK & DRAIN EMBANKMENT

S. No	Description of item	Unit	Quantity	Engineers Estimate		Hafiz Rabnawaz		Preetum Das		Sehwani Enterprises		A.C.C.I.	
				Rate	Amount (Rs.)	Rate	Amount (Rs.)	Rate	Amount (Rs.)	Rate	Amount (Rs.)	Rate	Amount (Rs.)
1	Earth work excavation in irrigation channels, drain in any kind of soil dressed and profiles as per drawing. This item comprises the following: (a) Laying earth in 6" layers (b) Compaction by mechanical roller. (c) Rentending of earth work. (d) Borrow, pit excavation.	% Cft	1,569,500	14,896.00	23,379,272	4,031	6,226,655	3,985	6,254,458	4,200	6,591,900	5,500	8,632,250
Total Amount (Pak Rs)					23,379,272		6,326,655		6,254,458		6,591,900		8,632,250
					23,379		6,327		6,254		6,592		8,632
					Million								

**CONTRACT PACKAGE-3**

**"Construction of Siphon Structure on RBOD for crossing K.G. Canal at RD 782+000"**  
**"Construction of a Village Road Bridge across RBOD on Jhampeer Road at RD 783+000"**

**SUMMARY / ABSTRACT**

S NO.	DESCRIPTION	Engineers Estimate	Hafiz Rabnawaz	Preetum Das	Liaquat Ali	A.C.C.L
		Amount (Rs.)	Amount (Rs.)	Amount (Rs.)	Amount (Rs.)	Amount (Rs.)
1	Bill No: 1 Engineers Requirement	13,578,000	11,306,000	11,306,000	12,819,000	11,588,904
2	Bill No: 2 Construction of Box Culverts	537,734,769	762,956,000	736,352,500	742,915,500	764,854,390
3	Bill No: 2A Construction of VRB	22,905,414	35,044,700	34,828,700	37,074,347	35,699,422
4	Bill No: 3 Earthwork	112,785,064	28,771,700	37,857,500	34,071,750	24,834,520
<b>CONSTRUCTION COST (Pak Rs.)</b>		<b>687,003,246</b>	<b>838,078,400</b>	<b>820,344,700</b>	<b>826,880,597</b>	<b>836,977,236</b>
<b>Percentage Above Estimate</b>		-	21.99%	19.41%	20.36%	21.83%

*lowest rate is hereby approved.*  
*as per attached copy.*  
*Supervising Engineer RBOD Circle Hyderabad @ 19.41% above estimate.*

**Inam Shaikh**  
 Superintending Engineer  
 RBOD Circle, Hyderabad @ Jamshoro.  
 Chairman Bidding Committee

**Ghulam Yasin Qureshi**  
 Executive Engineer RBOD  
 Division - III Thatta  
 Secretary Bidding Committee

**Zahid Hussain Shaikh**  
 Superintending Engineer Lower Sindh  
 Drainage Circle, Hyderabad  
 Member Bidding Committee

**Tenseen Palejo**  
 Resident Engineer M/s ABM Engineers (Pvt) Ltd. Karachi  
 Member Bidding Committee

**PROJECT DIRECTOR**  
**RBOD-II Project Karachi.**

**COMPARATIVE STATEMENT OF PACKAGE NO: 03**

**"Construction of Siphon Structure on RBOD for crossing K.G. Canal at RD 782+000"**

**"Construction of a Village Road Bridge across RBOD on Jhampeer Road at RD 783+000"**

**Bill No. 1: ENGINEER'S REQUIREMENTS**

Item No.	Description	Unit	Quantity	Engineers Estimate		Hafiz Rabnawaz		Preetum Das		Liaquat Ali		A.C.C.I.	
				Rate	Amount (Rs.)	Rate	Amount (Rs.)	Rate	Amount (Rs.)	Rate	Amount (Rs.)	Rate	Amount (Rs.)
1	Providing & maintaining constructing Engineer's office Block cum Laboratory at approved location of plan in brick masonry with RCC roofing including necessary services like electrification, sanitation etc all completed as directed as per approved plan for entire period of construction.	Sq. Ft	500	3,000	1,500,000	2,100	1,050,000	2,100	1,050,000	2,100	1,050,000	2,153	1,076,500
2	Operate & maintain Engineer's Block Office and Car Parking at site including all Laboratory Staff, all utilities i.e. Lab, Electric, Water Gas, Telephone etc. for 18 months	Months	18	100,000	1,800,000	70,000	1,260,000	70,000	1,260,000	70,000	1,260,000	71,750	1,291,500
3	Providing Office Furniture for Consultants (Minimum) Requirement is as stated below:												
3.1	Wooden office table with drawers and side racks (6x3 ft. size)	Nr.	1	15,000	15,000	18,000	18,000	18,000	18,000	18,000	18,000	18,450	18,450
3.2	Officer's table with drawers and side racks (6x4 ft. size)	Nr.	3	10,000	30,000	10,000	30,000	10,000	30,000	20,000	60,000	10,250	30,750
3.3	Steel revolving sitting chairs with arms (standard size)	Nr.	4	8,000	32,000	9,000	36,000	9,000	36,000	9,000	36,000	9,225	36,900
3.4	Steel sitting chairs with arms (standard size)	Nr.	8	2,000	16,000	2,500	20,000	2,500	20,000	7,500	60,000	2,563	20,504
3.5	Steel filing cabinet (standard size)	Nr.	1	5,000	5,000	6,000	6,000	6,000	6,000	15,000	15,000	6,150	6,150

Description	Unit	Quantity	Rate	Amount (Rs.)	Rate	Amount (Rs.)	Rate	Amount (Rs.)	Rate	Amount (Rs.)	Rate	Amount (Rs.)
Providing & Supply wireless Phone including maintenance	Nr.	18	10,000	180,000	12,000	216,000	12,000	216,000	15,000	270,000	12,300	221,400
Providing & Supplying as & when required, new & unused, latest model of approved vehicles to Engineer as under: including registration & comprehensive insurances.												
5.1 4WD- 5-Speed Manual, brand new Suzuki Jeep with all standard accessories providing by the manufacturer Model-2013 including Registration Insurance Comprehensive & Satellite track system.	Nr.	1	3,500,000	3,500,000	2,600,000	2,600,000	2,600,000	2,600,000	2,850,000	2,850,000	2,665,000	2,665,000
5.2 Toyota 2014 Model VIGO (2494 cc) with all standard accessories providing by the manufacturer Model-2013 including Registration Insurance, Comprehensive & Satellite track system.	Nr.	1	4,700,000	4,700,000	4,000,000	4,000,000	4,000,000	4,000,000	4,500,000	4,500,000	4,100,000	4,100,000
5.3 Toyota 2014 Model 2D Saloon (1975 CC) or equivalent with all standard accessories providing by the manufacturer Model-2013 i/c Registration, Insurance, Comprehensive & Satellite track system.	Nr.	0	2,000,000									
5.4 Operate and maintain above vehicle including POL and maintenance for 18 months.	Months	18	100,000	1,800,000	115,000	2,070,000	115,000	2,070,000	150,000	2,700,000	117,875	2,121,750
			Total (Rs)	13,578,000		11,306,000		11,306,000		12,819,000		11,588,904
			Amount in Millions			13.578		11.306		12.819		11.589

**COMPARATIVE STATEMENT OF PACKAGE NO: 03**  
**"Construction of Siphon Structure on RBOD for crossing K.G. Canal at RD 782+000"**  
**"Construction of a Village Road Bridge across RBOD on Jhampeer Road at RD 783+000"**

**No. 2: CIVIL WORK**

Sl. No.	Description	Unit	Quantity	Engineers Estimate		Hafiz Rabnawaz		Preetum Das		Liaquat Ali		A.C.C.L	
				Rate	Amount	Rate	Amount	Rate	Amount	Rate	Amount	Rate	Amount
1	Jungle Clearance and removing within 100 feet												
	(a) Light	% Sft		151.25	75,625	200	100,000	2,000	1,000,000	2,200	1,100,000	1,800	900,000
	(b) Thick	% Sft											
2	Secant piles along KG Canal												
	a) Drilling 36" dia upto 30ft from ground level	Per Cft	15,000	5,000	75,000,000	14,900	223,500,000	7,500	112,500,000	7,900	118,500,000	8,500	127,500,000
	b) Providing & pouring cement concrete 4000psi for hard piles	Cft	20,000	349	6,980,000	1,000	20,000,000	550	11,000,000	590	11,800,000	600	12,000,000
	c) Providing Fabricating & lowering the steel cage (Grade 60) in the boaring of hard pile	Tons	70	100,020	7,001,400	200,000	14,000,000	160,000	11,200,000	161,000	11,270,000	163,500	11,445,000
	d) Providing & pouring cement concrete 2500psi for soft piles	Cft	20,000	337	6,740,000	500	10,000,000	421	8,420,000	460	9,200,000	425	8,500,000
3	Earth Works												
	(1) Excavation in foundation of Building, Bridges and other structures including Dagbelling, dressing, refilling around structure with excavated earth watering and ramming upto 5 ft. In Transitions, Fall Structure & Box culverts.												
	a) In Sand	% Cft	1,500,000	2,722.50	4,083,750	2,600	3,900,000	2,600	3,900,000	7,000	10,500,000	6,000	9,000,000
	b) In Ordinary Soil	% Cft	3,500,000	3,176.25	11,116,875	4,300	15,050,000	4,300	15,050,000	5,300	18,550,000	4,508	15,778,000
	c) In hard soil or soft murrum	% Cft	50,000	3,554.38	1,777,190	3,000	150,000	3,000	150,000	5,500	275,000	3,075	153,750
3B	Extra for Slush or Daldal.	% Cft	200,000	2,420	484,000	2,000	400,000	20,000	4,000,000	2,600	520,000	2,050	410,000
4	Earthwork Excavation by Hydraulic Excavator leads up to 50 ft. in ordinary soil.												
	a) Retaining Walls	% Cft	250,000	1,748.57	437,143	2,800	700,000	2,800	700,000	3,200	800,000	2,900	725,000

COMPARATIVE STATEMENT OF PACKAGE NO: 03

"Construction of Siphon Structure on RBOD for crossing K.G. Canal at RD 782+000"  
 "Construction of a Village Road Bridge across RBOD on Jhampeer Road at RD 783+000"

No. 2: CIVIL WORK

Sl. No.	Description	Unit	Quantity	Engineers Estimate		Hafiz Rabnawaz		Preetum Das		Liaquat Ali		A.C.C.L	
				Rate	Amount	Rate	Amount	Rate	Amount	Rate	Amount	Rate	Amount
5	Borrow Excavation												
	Borrow pit excavation undressed lead up to 100 ft. in ordinary soil.												
	a) Coffor Dam	% Cft	1,250,000	2,117.50	2,646,875	3,000	3,750,000	2,400	3,000,000	3,000	3,750,000	2,500	3,125,000
	b) Extra for additional lead	% Cft	1,250,000	107.89	134,863	150	187,500	800	1,000,000	150	187,500	200	250,000
6	Earthwork by Tractor with scraper including compaction, dressing leveling etc. complete in accordance with profile in ordinary soil lead up to 100 ft. Canal making over Box culverts												
	2) Canal making over Box culvert	% Cft	3,500,000	2,058.13	7,203,455	2,000	7,000,000	5,000	17,500,000	5,500	19,250,000	5,130	17,955,000
7	Earthwork compaction in ordinary soil by rolling excluding hire charges of the Roller.	% Cft	400,000	756	302,400	800	320,000	800	320,000	900	360,000	1,000.0	400,000
8	Earthwork excavation in irrigation channels dressed to design section grades and profiles excavated material disposed of undressed with in 50 ft. lead. In ordinary soil for rehabilitation of KG Canal.	% Cft	2,675,000	2,420	6,473,500	2,400	6,420,000	2,400	6,420,000	2,800	7,490,000	2,460	6,580,500
9	Dressing & leveling of earth work to designed section etc. complete												
	1) Canal over culverts	% Cft	400,000	187.55	75,020	220	88,000	220	88,000	230	92,000	226	90,400
	2) Areas adjoining Fall structure	% Cft	200,000	187.55	37,510	220	44,000	220	44,000	230	46,000	226	45,200
10	a) Supplying & filling new Jute bags 4 to 5 Cft Capacity sand or earth sewing stacking in dry.	Each bag	15,000	202.46	3,036,900	180	2,700,000	180	2,700,000	202	3,030,000	500	7,500,000
	b) Carrying of new Jute bags 4 to 5 cft. Capacity filled with sand or earth first chain.	% Bag	15,000	605	90,750	350	52,500	350	52,500	5,500	825,000	395	59,250

**COMPARATIVE STATEMENT OF PACKAGE NO: 03**  
**"Construction of Siphon Structure on RBOD for crossing K.G. Canal at RD 782+000"**  
**"Construction of a Village Road Bridge across RBOD on Jhampeer Road at RD 783+000"**

**0. 2: CIVIL WORK**

Sl. No.	Description	Unit	Quantity	Engineers Estimate		Hafiz Rabnawaz		Preetum Das		Liaquat Ali		A.C.C.L	
				Rate	Amount	Rate	Amount	Rate	Amount	Rate	Amount	Rate	Amount
11	Hire charges of 10-12 Ton Road Roller.	Per Hr.	2,000	822.58	1,645,160	890	1,780,000	890	1,780,000	1,000	2,000,000	912	1,824,000
12	Stone Pitching hand packed with surface leveled off to the Correct Section with hammer dressed Stone & voids filled in 1:8 cement mortar in floors of bridges & along hand & in apron etc i/c three chains lead	% Cft	120,000	7,708.47	9,250,164	4,600	5,520,000	7,000	8,400,000	8,000	9,600,000	7,600	9,120,000
13	Random, rubble masonry un-coursed under the foundation of Fall str: & Culverts. Dry masonry	% Cft	600,000	19,757.03	118,542,180	13,000	78,000,000	15,000	90,000,000	14,900	89,400,000	16,000	96,000,000
14	CC plain i/c placing, compacting finishing & curing complete (i/c screening & washing at stone without shuttering in 1:2:4).	% Cft	45,000	14,429.25	6,493,163	15,000	6,750,000	12,200	5,490,000	17,000	7,650,000	12,505	5,627,250
15	RCC work i/c all labour & material in roof slab beams columns raft lintels & other structural members laid on situ or precast except the cost of steel reinforcement & its labour for bending & binding which will be paid separately. This rate i/c all kinds of forms moulds: lifting, shuttering, mixing, placing in position vibrating curing render & finishing the exposed surface (i/c screeding & washing of shingle/ crushed stone aggregate of 4000psi(cylinder) with min 22 bags of cement per 100cft in	Per Cft	260,000	349	90,740,000	430	111,800,000	600	156,000,000	520	135,200,000	560	145,600,000



of RBOD Sehwan to Sea

**COMPARATIVE STATEMENT OF PACKAGE NO: 03**  
**"Construction of Siphon Structure on RBOD for crossing K.G. Canal at RD 782+000"**  
**"Construction of a Village Road Bridge across RBOD on Jhampeer Road at RD 783+000"**

**No. 2: CIVIL WORK**

Item No.	Description	Unit	Quantity	Engineers Estimate		Hafiz Rabnawaz		Preetum Das		Liaquat Ali		A.C.C.L	
				Rate	Amount	Rate	Amount	Rate	Amount	Rate	Amount	Rate	Amount
16	Fabrication of Hard Grade deformed Grade 60(60ksi yield strength) RCC i/c cutting bending laying in position making joints & fastenings, including cost of binding wire chairs etc (also i/c removal of rust from bars).	Per Cwt	28,000	5,001.70	140,047,600	7,400	207,200,000	8,200	229,600,000	8,200	229,600,000	8,600	240,800,000
17	P/Applying Hi Bond (Sealer) water proofing polymer Modified cementations slurries (WPMCS) to be used as water proofing, anticorrosion, water resistance or curing membrane for fresh concrete having thickness upto 2mm in coats upto 20' height textured or trowel finish grey i/c preparing the surface for application as directed by engineer in charge.	% Sft	80,000	2,282.77	1,826,216	2,550	2,040,000	2,550	2,040,000	2,600	2,080,000	2,614	2,091,200
18	Providing "expansion joint" in concrete work of 9" wide corrugated PVC water stop (with bulb) i/c soldering cost of material and labour etc. complete	Per RM	300	282.17	84,651	600	180,000	400	120,000	600	180,000	410.00	123,000
19	<b>Cement Concrete Lining</b>												
	Cement concrete lining ratio 1:2:4												
	(a) In Beds	% Cft	27,000	13,789.32	3,723,116	18,000	4,860,000	18,200	4,914,000	30,000	8,100,000	25,000	6,750,000
	(b) In Slopes	% Cft	50,000	14,227.95	7,113,975	20,000	10,000,000	35,000	17,500,000	36,000	18,000,000	25,000	12,500,000
20	Filling of joints in Canal	Per ft.	4,000	22.69	90,760	24	96,000	24	96,000	30	120,000	25.00	100,000
21	Hire charges of pump set up to 10 HP.	Per day	720	1,500	1,080,000	1,900	1,368,000	1,900	1,368,000	2,000	1,440,000	1,947	1,401,840

of RBOD Sehwan to Sea

**COMPARATIVE STATEMENT OF PACKAGE NO: 03**

"Construction of Siphon Structure on RBOD for crossing K.G. Canal at RD 782+000"

"Construction of a Village Road Bridge across RBOD on Jhampeer Road at RD 783+000"

**No. 2: CIVIL WORK**

Item No.	Description	Unit	Quantity	Engineers Estimate		Hafiz Rabnawaz		Preetum Das		Liaquat Ali		A.C.C.I.	
				Rate	Amount	Rate	Amount	Rate	Amount	Rate	Amount	Rate	Amount
22	Installing well point system in stages to dewater the area for keeping the site of construction dry till finishing the concrete structure "The unit is Item and the rate shall be Lump Sum"	Lump Sum	-	-	25,000,000	-	25,000,000	-	20,000,000	-	22,000,000	-	20,500,000
Total Amount (Rs.)					537,734,769		762,956,000		736,352,500		742,915,500		764,854,390
					537.735		762.956		736.353		742.916		764.854
					Millions								

of RBOD Sehwan to Sea

**COMPARATIVE STATEMENT OF PACKAGE NO: 03**

**"Construction of Siphon Structure on RBOD for crossing K.G. Canal at RD 782+000"**  
**"Construction of a Village Road Bridge across RBOD on Jhampeer Road at RD 783+000"**

**No. 2A: Village Road Bridge**

Sl. No.	Description	Unit	Quantity	Engineers Estimate		Hafiz Rabnawaz		Preetum Das		Liaquat Ali		A.C.C.L	
				Rate	Amount	Rate	Amount	Rate	Amount	Rate	Amount	Rate	Amount
1	<b>Jungle Clearance</b>												
	Cutting & removing trees within a distance of 160 feet	Each No.	6	535.43	3,213	6,000	36,000	6,000	36,000	6	36	6,150.00	36,900
2	[P-100/2, vol-III, part-II]												
	(a) Upto 2.5 feet girth	Each	10	1,043.63	10,436	12,000	120,000	12,000	120,000	12	120	12,300	123,000
3	[P-100/4, vol-III, part-II]												
	(b) From 2.6 feet to 6.0 feet girth	% Sft	5,025	75.63	3,800	200	1,005	200	1,005	200	1,005	205	1,030
3	<b>Earth Works.</b>												
	Earthwork excavation in Irrigation Channel, Drains, dressed to designed section, grades, profile foundation excavated material disposed off within 50 ft lead & lift i/c all machinery carriage cartage etc.	% Sft	5,025	151.25	7,600	250	1,256	250	1,256	250	1,256	256.25	1,288
3	[P-2/6, vol-II, part-II]												
	(a) All kind of soil(dry/wet) which can be excavated using mechanical means such as excavator, bulldozer, drag line or ripper etc. i/c dewatering if any	% Cft	2,550	7,260	18,513	3,500	8,925	3,500	8,925	3,500	8,925	3,587.50	9,148
3	[P-2/6b, vol-II, part-II]												
	(b) Excavation in medium hard Rock dressed to design section grades & profiles. It will i/c all excavation made using compressed air loads such as jack hammer.	% Cft	460	10,133	4,661	25,000	11,500	25,000	11,500	25,000	11,500	25,625	11,788

of RBOD Sehwan to Sea

**COMPARATIVE STATEMENT OF PACKAGE NO: 03**

**"Construction of Siphon Structure on RBOD for crossing K.G. Canal at RD 782+000"**

**"Construction of a Village Road Bridge across RBOD on Jhampeer Road at RD 783+000"**

**Bill No. 2A: Village Road Bridge**

Item No.	Description	Unit	Quantity	Engineers Estimate		Hafiz Rabnawaz		Preetum Das		Liaquat Ali		A.C.C.L	
				Rate	Amount	Rate	Amount	Rate	Amount	Rate	Amount	Rate	Amount
4	(c) Excavation in rocks requiring blasting dressed to designed section grades & profiles, excavated material disposed off within 50 ft. lead. It includes all excavation by blasting with use of explosives. [P-2/7f, vol-III, part-II]	% Cft	30	12,968	389	30,000	900	30,000	900	30,000	900	30,750	923
				25,936	207	30,000	240	30,000	240	30,750	246		
4	Extra for every 50 ft additional lead or part thereof. [P-3/8, vol-III, part-II]	% Cft	8	100.78	1	10,000	80	10,000	80	10,000	80	10,250	82
				354	18,691	1,500	79,200	1,500	79,200	1,600	84,480	1,537.5	81,180
5	(a) For earth work (soft, ordinary, hard and very hard)	% Cft	52,800	756	39,917	1,200	63,360	1,200	63,360	1,500	79,200	1,230	64,624
				832	9,984	1,500	18,000	1,500	18,000	1,800	21,600	1,537.5	18,450
6	(b) Laying earth in 6" layers leveling, dressing and watering for compaction etc. complete.	% Cft	30,000	1,058.75	31,763	8,000	240,000	800	24,000	10,000	300,000	820	24,600
6	(c) Compaction by rolling including (Roller which is to be supplied by the Contractor)	% Cft	52,800										
6	(ii) Ordinary Soil	% Cft	12,000										
6	(iii) Hard Soil	% Cft	30,000										
6	Extra for wet earth work (i/c dewatering) (Provisional) [P-4/15, vol-II, part-II]	% Cft											

son of RBOD Sehwan to Sea

**COMPARATIVE STATEMENT OF PACKAGE NO: 03**

**"Construction of Siphon Structure on RBOD for crossing K.G. Canal at RD 782+000"**  
**"Construction of a Village Road Bridge across RBOD on Jhampeer Road at RD 783+000"**

**Bill No. 2A: Village Road Bridge**

Item No.	Description	Unit	Quantity	Engineers Estimate		Hafiz Rabnawaz		Preetum Das		Liaquat Ali		A.C.C.I.	
				Rate	Amount	Rate	Amount	Rate	Amount	Rate	Amount	Rate	Amount
7	(a) Earth for Slush or Daldal (1/c dewatering). (Provisional). [P-4/16, vol-III, part-II]	% Cft	12,000	2,420	29,040	15,000	180,000	15,000	180,000	17,000	204,000	15,375	184,500
8	Plain / Reinforcement cement concrete works. CC plain i/c placing compacting finishing & curing complete (i/c screening & washing of stone aggregate) [P-18/5, vol-II, part-II]	% Cft	350	11,288.75	39,511	14,000	49,000	14,000	49,000	15,000	52,500	14,350	50,225
9	(i) Ratio 1:4:8. RCC work i/c all labour & material except the cost of steel reinforcement & its labour for bending & binding which will be paid separately. This rate also i/c all kinds of forms moulds: lifting, shuttering, mixing, placing in position, vibrating curing rendering & finishing the exposed surface (i/c screening & washing of shingle/ crushed stone aggregate of 4000 psi (cylinder) with min 22 bags of cement per 100cft in: [P-18/6(ii), vol-III, part-II]	Per Cft	432	349	150,768	550	237,600	550	237,600	500	216,000	563.75	243,540
	(a) Foundation	Per Cft	720	349	251,280	560	403,200	560	403,200	600	432,000	574	413,280
	(b) Wall	Per Cft	6,504	349	2,269,896	560	3,642,240	560	3,642,240	600	3,902,400	574	3,733,296
	(c) Beams, Transom	Per Cft	135	349	47,115	560	75,600	560	75,600	600	81,000	574	77,490
	(d) Perdi	Per Cft	3,330	349	1,162,170	600	1,998,000	600	1,998,000	600	1,998,000	615	2,047,950
	(e) Slab	Per Cft	268	349	93,532	550	147,400	550	147,400	500	134,000	563.75	151,085
	(f) Approach Slab	Per Cft											

**COMPARATIVE STATEMENT OF PACKAGE NO: 03**

**"Construction of Siphon Structure on RBOD for crossing K.G. Canal at RD 782+000"**  
**"Construction of a Village Road Bridge across RBOD on Jhampeer Road at RD 783+000"**

**Bill No. 2A: Village Road Bridge**

Item No.	Description	Unit	Quantity	Engineers Estimate		Hafiz Rabnawaz		Preetum Das		Liaquat Ali		A.C.C.I.	
				Rate	Amount	Rate	Amount	Rate	Amount	Rate	Amount	Rate	Amount
10	P/Applying Hi Bond (Sealer) water proofing polymer modified cementation slurries (WPMCS) to be used as water proofing, anticorrosion, water resistance or curing membrane fresh concrete having thickness upto 2mm coat upto 20' height textured trowel finish grey i/c preparin the surface application as directed by engineer in charge. [P-20/7(i)a, vol-III, part-II]	% Sft	10,950	2,282.77	249,963	2,500	273,750	2,500	273,750	2,400	262,800	2,562.5	280,594
11	Fabrication of Hard Grade deformed Grade 60(60ksi yield strength) reinforcement for cement concrete i/c cutting bending, laying in position, making joints & fastenings, i/c cost of binding wire, chairs etc (also i/c removal of rust from bars). [P-20/7(ii)b, vol-III, part-II]	Per Cwt	1,740	5,001.70	8,702,958	7,400	12,876,000	7,400	12,876,000	8,000	13,920,000	7,585	13,197,900
12	Stone pitching i/c sub-base with hammer dressed stone on surface laid-in courses i/c carriage of materials with in 3 chains (including cartage). [P-37/23, vol-III, part-II]	% Cft	7,100	5,377.63	381,812	15,000	1,065,000	15,000	1,065,000	14,000	994,000	15,375	1,091,625
13	Providing & laying G.I. Iron Spout fix in place i/c painting as per design	Each	12	275.11	3,301	2,000	24,000	2,000	24,000	3,000	36,000	2,050	24,600
14	Embankments & Road Works Earthwork embankment for borrow pits i/c laying in 6" layers, clod breaking ramming dressing complete for all lead & lift ( In ordinary soil). [P-1/2, vol-III, part-VI]	% Cft	52,800	2,208.37	116,602	8,000	422,400	8,000	422,400	8,200	432,960	8,200	432,960

**COMPARATIVE STATEMENT OF PACKAGE NO: 03**  
**"Construction of Siphon Structure on RBOD for crossing K.G. Canal at RD 782+000"**  
**"Construction of a Village Road Bridge across RBOD on Jhampeer Road at RD 783+000"**

Man to Sea

**No. 2A: Village Road Bridge**

Item No.	Description	Unit	Quantity	Engineers Estimate		Hafiz Rabnawaz		Preetum Das		Liaquat Ali		A.C.C.I.	
				Rate	Amount	Rate	Amount	Rate	Amount	Rate	Amount	Rate	Amount
15	Earthwork compaction by sheep Foot Roller and Power Roller with optimum moisture content dressed to designed section, grades and profiles, excavated material disposed off and dressed for all leads & lifts	% Cft	52,800	3,975.35	209,898	2,000	105,600	2,000	105,600	3,000	158,400	2,050	108,240
16	Preparing of sub grade i/c earth excavation or filling to an average depth of 9" dressing to camber & consolidation with power Roller.	% Sft	6,700	526.28	35,261	400	26,800	400	26,800	300	20,100	410	27,470
17	Excavation in existing berm for widening the road, i/c preparation of sub-grade after watering rolling with power Roller dressing the excavated stuff etc complete [P-2/7, vol-III, part-VI]	% Sft	2,010	526.27	10,578	3,500	70,350	3,500	70,350	3,450	69,345	3,587.5	72,109
18	Preparing sub-base course by supply-ing & spreading stone metal 1-1/2" to 2" gauge of approved quality from approved quarry in required thickness to proper camber & grade i/c hand packing filling voids with 20 Cft of pit / canal sand having plasticity index of not more than 6% of suitable quality. Watering & compacting to achieve 98-100% density per modified AASHO specifications (Rate i/c all cost of material T & P and carriage). (P-3/8(a), vol-III, part-VI)	% Cft	2,500	4,381.76	109,544	6,500	162,500	6,500	162,500	5,900	147,500	7,687.5	192,188

**COMPARATIVE STATEMENT OF PACKAGE NO: 03**

**"Construction of Siphon Structure on RBOD for crossing K.G. Canal at RD 782+000"**  
**"Construction of a Village Road Bridge across RBOD on Jhampeer Road at RD 783+000"**

**o. 2A: Village Road Bridge**

Item No.	Description	Unit	Quantity	Engineers Estimate		Hafiz Rabnawaz		Preetum Das		Liaquat Ali		A.C.C.L	
				Rate	Amount	Rate	Amount	Rate	Amount	Rate	Amount	Rate	Amount
19	Preparing base course i/c supplying & spreading stone metal of approved quality properly graded to max size of 1-1/2" in required thickness to proper camber & grade i/c supplying & spreading 15 Cft: screenings & non plastic quarry fines, filling depression with stone metal after initial rolling i/c watering & compaction the same so as to achieve 100% density as per modified AASHO specifications. (Rate i/c providing & using templates, camber plates, screens, forms as directed. (Rate i/c all cost of materials T & P & carriage upto 3 chains) [P-4/10, vol-III, part-VI]	% Cft	2,500	3,380.43	84,511	7,500	187,500	7,500	187,500	7,600	190,000	6,662.5	166,563
20	Providing 1-1/2" Thick (consolidated) premixed carpet proper camber & grade i/c supplying 15 Cft: Crushed stone aggregate, 5Cft: hill sand (of approved quality & grade ) bitumen of 100/80 penetration including mixing in mechanical mixture in required proportion including heating material and cleaning the road surface (Fill sand 3Cft: for mixing and 2 Cft: for dusting ). (Rate includes all cost of materials T & P and carriage). [P-7/16, vol-III, part-VI]	% 5ft	6,700	5,882.07	394,099	600	40,200	600	40,200	560	37,520	615	41,205
21	Protection Works / Stone Masonry Grouting stone pitching or apron in 1:3 cement mortar.	% 5ft	25,500	4,480.44	1,142,512	16,000	4,080,000	16,000	4,080,000	17,000	4,335,000	16,400	4,182,000



**COMPARATIVE STATEMENT OF PACKAGE NO: 03**  
**"Construction of Siphon Structure on RBOD for crossing K.G. Canal at RD 782+000"**  
**"Construction of a Village Road Bridge across RBOD on Jhampeer Road at RD 783+000"**

OD Sehwan to Sea

**Bill No. 2A: Village Road Bridge**

Item No.	Description	Unit	Linear Estimate		Hafiz Rabnawaz		Preetum Das		Liaquat Ali		A.C.C.L	
			Rate	Amount	Rate	Amount	Rate	Amount	Rate	Amount	Rate	Amount
22	Stone Paving etc.		14,000	3,570,000	14,000	3,570,000	14,200	3,621,000	14,350	3,659,250		
				1,965,660								
		360	8,000	2,880,000	7,500	2,700,000	8,000	2,880,000	7,687.50	2,767,500		
	Reinforced cement concrete of size & approved foundation in all kinds of rocky strata to bear safe load per pile using concrete ration 1:1.5:3 having cylinder crushing strength. Reinforcement measured separately 36" Dia	Rft	8,000	480,000	7,500	450,000	8,000	480,000	7,687.50	461,250		
25	Carrying of pile load test to 2 times the design load	Nos	800,000	1,600,000	650,000	1,300,000	800,000	1,600,000	666,250	1,332,500		
26	Providing & fixing MS Plate 3/4" thick with holdfast and other attachment as per drawings on expansion joint.	Kg	160	131,200	175	143,500	160	131,200	179.38	147,092		

**COMPARATIVE STATEMENT OF PACKAGE NO: 03**  
**"Construction of Siphon Structure on RBOD for crossing K.G. Canal at RD 782+000"**  
**"Construction of a Village Road Bridge across RBOD on Jhampeer Road at RD 783+000"**

**2A: Village Road Bridge**

Item No.	Description	Unit	Quantity	Engineers Estimate		Hafiz Rabnawaz		Preetum Das		Liaquat Ali		A.C.C.L	
				Rate	Amount	Rate	Amount	Rate	Amount	Rate	Amount	Rate	Amount
27	Providing Elastomeric bearing pads (according to size and thickness).	Cu.inch	10,368	10	103,680	8	82,944	8	82,944	10	103,680	8.20	85,018
28	Making & maintaining diversion during construction including supplying necessary barrier, notice board with the lighting arrangements, complete in all respect or as per specification & direction of Engineer Incharge.	% Cft	10,000	9,000	90,000	10,000	100,000	10,000	100,000	9,000	90,000	10,250	102,500
29	Extra for Additional Lead	% Cft	10,000	107.89	1,079	2,000	20,000	2,000	20,000	1,500	15,000	2,050	20,500
30	Providing water stopper 9" size.	Rft	50	400	20,000	600	30,000	600	30,000	400	20,000	615	30,750
31	Stone filling dry hand packed as filling behind retaining walls or in pitching and aprons. (including cartage)	% Cft	10	2,684	268	6,500	650	6,500	650	6,000	600	6,662.5	666
				Total Amount (Rs.)		35,044,700		34,828,700		37,074,347		35,699,422	
				Total Amount (Rs.)		Millions		22,905		35,045		34,829	

in to Sea

COMPARATIVE STATEMENT OF PACKAGE NO: 03

"Construction of Siphon Structure on RBOD for crossing K.G. Canal at RD 782+000"

"Construction of a Village Road Bridge across RBOD on Jhampeer Road at RD 783+000"

No. 3: EARTHWORK & DRAIN EMBANKMENT

S. No	Description of Item	Unit	Engineers Estimate		Hafiz Rabnawaz		Preetum Das		Liaquat Ali		A.C.C.L		
			Quantity	Rate	Amount (Rs.)	Rate	Amount (Rs.)	Rate	Amount (Rs.)	Rate	Amount (Rs.)	Rate	Amount (Rs.)
1	Earth work excavation in irrigation channels, drain in any kind of soil dressed and profiles as per drawing. This item comprises the following. (a) Laying earth in 6" layers. (b) Compaction by mechanical roller. (c) Remanding of earth work. (d) Borrow pit excavation.	% Cft	7,571,500	14,896.00	112,785,064	3,800	28,771,700	5,000	37,857,500	4,500	34,071,750	3,280	24,834,520
Total Amount (Pak Rs)					112,785,064		28,771,700		37,857,500		34,071,750		24,834,520
				Million	112.785		28.772		37.858		34.072		24.835