

KARACHI WATER AND SEWERAGE BOARD

CONTRACT EVALUATION FORM

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

- 1) NAME OF THE ORGANIZATION / DEPT. KWSSB -
- 2) PROVINCIAL / LOCAL GOVT / OTHER Local Gov Dept
- 3) TITLE OF CONTRACT Rm. of 4500 m³/h (25MGD) Pump B1 of H-166
- 4) TENDER NUMBER 01-012
- 5) BRIEF DESCRIPTION OF CONTRACT The Pump B1 complete more than 85000 Running Hours since installation.
- 6) OFFICER THAT APPROVED THE SCHEME The Chairman - KWSSB -
- 7) TENDER ESTIMATED VALUE Rs 2910496
- 8) ENGINEER'S ESTIMATE (For civil works only) NIL
- 9) ESTIMATED COMPLETION PERIOD (AS PER CONTRACT) Rs 3194000-
- 10) TENDER OPENED ON (DATE & TIME) 23-07-2013 -
- 11) NUMBER OF TENDER DOCUMENTS SOLD (Attach list of buyers) 03 - Three
- 12) NUMBER OF BIDS RECEIVED 03 - Three
- 13) NUMBER OF BIDDERS PRESENT AT THE TIME OF OPENING OF BIDS 03 - Three
- 14) BID EVALUATION REPORT (Enclose a copy) Attached
- 15) NAME AND ADDRESS OF THE SUCCESSFUL BIDDER M/s H.R. Brothers
- 16) CONTRACT AWARD PRICE Rs 3194000/-
- 17) RANKING OF SUCCESSFUL BIDDER IN EVALUATION REPORT (i.e. 1st, 2nd, 3rd EVALUATION BID).
01 M/s H.R. Brothers Rs 3194000
02 M/s Al-Hannan Builders Rs 3256350
03 M/s Saim & Co Rs 3209474

- 18) METHOD OF PROCUREMENT USED :- (Tick one)
- | | |
|---|-------------------------------------|
| a) SINGLE STAGE - ONE ENVELOPE PROCEDURE | <input type="checkbox"/> |
| b) SINGLE STAGE - TWO ENVELOPE PROCEDURE | <input type="checkbox"/> |
| c) TWO STAGE BIDDING PROCEDURE | <input checked="" type="checkbox"/> |
| d) TWO STAGE - TWO ENVELOPE BIDDING PROCEDURE | <input type="checkbox"/> |

PLEASE SPECIFY IF ANY OTHER METHOD OF PROCUREMENT WAS ADOPTED i.e. EMERGENCY, DIRECT CONTRACTING ETC. WITH BRIEF REASONS.

19) APPROVING AUTHORITY FOR AWARD OF CONTRACT The chairman

20) WHETHER THE PROCUREMENT WAS INCLUDED IN ANNUAL PROCUREMENT PLAN?

| | | | |
|-----|-------------------------------------|----|--------------------------|
| Yes | <input checked="" type="checkbox"/> | No | <input type="checkbox"/> |
|-----|-------------------------------------|----|--------------------------|

21) ADVERTISEMENT:

i) SPPRA Website
(If yes, give date and SPPRA Identification No.)

| | | | |
|-----|-------------------------------------|--|--------------------------|
| Yes | <input checked="" type="checkbox"/> | SPPRA Website Sind No-16816- — Date | <input type="checkbox"/> |
| No | <input type="checkbox"/> | | <input type="checkbox"/> |

ii) News Papers
(If yes, give number of newspapers and dates)

| | | | |
|-----|-------------------------------------|---|--------------------------|
| Yes | <input checked="" type="checkbox"/> | Daily "The News" Nay Baat" Jahan-e-Pakistan - 04.02.03 | <input type="checkbox"/> |
| No | <input type="checkbox"/> | | <input type="checkbox"/> |

22) NATURE OF CONTRACT

| | | | |
|--------------------------|-------------------------------------|------|--------------------------|
| <input type="checkbox"/> | <input checked="" type="checkbox"/> | Int. | <input type="checkbox"/> |
|--------------------------|-------------------------------------|------|--------------------------|

23) WHETHER QUALIFICATION CRITERIA WAS INCLUDED IN BIDDING / TENDER DOCUMENTS?
(If yes, enclose a copy)

| | | | |
|-----|-------------------------------------|----|--------------------------|
| Yes | <input checked="" type="checkbox"/> | No | <input type="checkbox"/> |
|-----|-------------------------------------|----|--------------------------|

24) WHETHER BID EVALUATION CRITERIA WAS INCLUDED IN BIDDING / TENDER DOCUMENTS?
(If yes, enclose a copy)

| | | | |
|-----|-------------------------------------|----|--------------------------|
| Yes | <input checked="" type="checkbox"/> | No | <input type="checkbox"/> |
|-----|-------------------------------------|----|--------------------------|

25) WHETHER APPROVAL OF COMPETENT AUTHORITY WAS OBTAINED FOR USING A METHOD OTHER THAN OPEN COMPETITIVE BIDDING?

| | | | |
|-----|--------------------------|----|-------------------------------------|
| Yes | <input type="checkbox"/> | No | <input checked="" type="checkbox"/> |
|-----|--------------------------|----|-------------------------------------|

26) WAS BID SECURITY OBTAINED FROM ALL THE BIDDERS?

| | | | |
|-----|-------------------------------------|----|--------------------------|
| Yes | <input checked="" type="checkbox"/> | No | <input type="checkbox"/> |
|-----|-------------------------------------|----|--------------------------|

27) WHETHER THE SUCCESSFUL BID WAS LOWEST EVALUATED BID / BEST EVALUATED BID (in case of Consultancies)

| | | | |
|-----|-------------------------------------|----|--------------------------|
| Yes | <input checked="" type="checkbox"/> | No | <input type="checkbox"/> |
|-----|-------------------------------------|----|--------------------------|

28) WHETHER THE SUCCESSFUL BIDDER WAS TECHNICALLY COMPLIANT?

| | | | |
|-----|--------------------------|----|-------------------------------------|
| Yes | <input type="checkbox"/> | No | <input checked="" type="checkbox"/> |
|-----|--------------------------|----|-------------------------------------|

29) WHETHER NAMES OF THE BIDDERS AND THEIR QUOTED PRICES WERE READ OUT AT THE TIME OF OPENING OF BIDS?

| | | | |
|-----|-------------------------------------|----|--------------------------|
| Yes | <input checked="" type="checkbox"/> | No | <input type="checkbox"/> |
|-----|-------------------------------------|----|--------------------------|

30) WHETHER EVALUATION REPORT GIVEN TO BIDDERS BEFORE THE AWARD OF CONTRACT?
(Attach copy of the bid evaluation report)

| | | | |
|-----|-------------------------------------|----|--------------------------|
| Yes | <input checked="" type="checkbox"/> | No | <input type="checkbox"/> |
|-----|-------------------------------------|----|--------------------------|

31) ANY COMPLAINTS RECEIVED
(If yes, result thereof)

| | |
|-----|-------------------------------------|
| Yes | |
| No | <input checked="" type="checkbox"/> |

32) ANY DEVIATION FROM SPECIFICATIONS GIVEN IN THE TENDER NOTICE / DOCUMENTS
(If yes, give details)

| | |
|-----|-------------------------------------|
| Yes | |
| No | <input checked="" type="checkbox"/> |

33) WAS THE EXTENSION MADE IN RESPONSE TIME?
(If yes, give reasons)

| | |
|-----|-------------------------------------|
| Yes | |
| No | <input checked="" type="checkbox"/> |

34) DEVIATION FROM QUALIFICATION CRITERIA
(If yes, give details and reasons)

| | |
|-----|-------------------------------------|
| Yes | |
| No | <input checked="" type="checkbox"/> |

35) WAS IT ASSURED BY THE PROCURING AGENCY THAT THE SELECTED FIRM IS NOT
BLACK LISTED?

| | | | |
|-----|-------------------------------------|----|--------------------------|
| Yes | <input checked="" type="checkbox"/> | No | <input type="checkbox"/> |
|-----|-------------------------------------|----|--------------------------|

36) WAS A VISIT MADE BY ANY OFFICER/OFFICIAL OF THE PROCURING AGENCY TO THE
SUPPLIER'S PREMISES IN CONNECTION WITH THE PROCUREMENT? IF SO, DETAILS TO
BE ASCERTAINED REGARDING FINANCING ARRANGEMENT, IF A ROAD:
(If yes, enclose a copy)

| | | | |
|-----|--------------------------|----|-------------------------------------|
| Yes | <input type="checkbox"/> | No | <input checked="" type="checkbox"/> |
|-----|--------------------------|----|-------------------------------------|

37) WERE PROPER SAFEGUARDS PROVIDED ON MORTGAGE/ ADVANCE PAYMENT IN
THE CONTRACT (BANK GUARANTEE ETC.)?

| | | | |
|-----|--------------------------|----|-------------------------------------|
| Yes | <input type="checkbox"/> | No | <input checked="" type="checkbox"/> |
|-----|--------------------------|----|-------------------------------------|

38) SPECIAL CONDITIONS, IF ANY
(If yes, give Brief Description)

| | |
|-----|-------------------------------------|
| Yes | |
| No | <input checked="" type="checkbox"/> |

39) Date of Award of Contract: RE/N.E.K(P&F) Kill/Wo/13-14/21
Date- 14-10-2013

Signature & Official Stamp of
Authorized Officer

Ayaz Ahmad Shaik
AYAZ AHMAD SHAIK
RESIDENT ENGINEER
N.E.K (P&F) R-II
K W & S B

FOR OFFICE USE ONLY

OFFICE OF THE RESIDENT ENGINEER
N.E.K. (P&F) K-II, KW&SB

No. RE/NEK(P&F)/K-II/WO/13-14/2/

Dated: 14/10/2013

M/s. H. R. Brothers,
Contractor,
Karachi.

WORK ORDER

Subject:- REPAIRING / MAINTENANCE WORK OF 4500M3/H (25MGD) PUMP "B" AT HIGH LIFT PUMP HOUSE AT N.E.K.(P&F) K-II PLANT, KW&SB

Ref.: Your Tender 23.07.2013.

Your Tender (On item rate basis) invited through Press under SPPR-2010 for the above subjected work as evaluated / recommended by the Procurement / Evaluation Committee-I, KW&SB, amounting to Rs.31,94,000/= as per your quoted amount has been accepted by the competent authority being the first lowest bidder. The Finance Department, KW&SB has already concurred in and booked amounting to Rs.31,94,000/= (Rupees Thirty One Lac Ninety Four Thousand only) duly approved by the competent authority i.e. The Chairman, KW&SB along with (30) days extension in bid validity also granted. The expenditure will be chargeable against the B.G. No.6024-16 for the year 2013-2014.

The work will be carried out under the supervision of A.E.E./Engineer Incharge, N.E.K., (P&F) K-II, KW&SB. You are requested to contact him for receiving instruction and for completing required formalities for start of work and work will be started from the date of issue / receiving of this work order, and period for completion of work is within (15) days.


Resident Engineer
NEK (P&F) K-II
K.W.& S.B.

Copy to:-

1. S.E.(P&F)-2, KW&SB.
2. A.E.E., N.E.K.(P&F) K-II, KW&SB.
3. Work File.
4. Office copy.

OFFICE OF THE CHIEF ENGINEER (E&M)-W
KARACHI WATER & SEWERAGE BOARD

No.KW&SB/CE/E&M-W/2013/ 103
Dated: 14-10-2013

M/s. H.R. Brothers,
Contractor,
Karachi.

LETTER OF ACCEPTANCE / SANCTION LETTER

SUBJECT:- REPAIRING / MAINTENANCE OF 4500 m³/h (25 MGD) PUMP "B" AT HIGH LIFT PUMP HOUSE AT NEK (P&F) K-II PLANT, KW&SB

On behalf of the employers, it is notified that following the approval of the Managing Director, KW&SB vide Para-46/N, your bid for the subjected work is hereby accepted for the sum of Rs.31,94,000/= (Rupees Thirty One Lac Ninety Four Thousand only) as worked out / evaluated by Procurement / Evaluation Committee-I vide Para-55/N and financially concurred by Finance Department, KW&SB vide Para-61 to 72/N, duly approved by Chairman, KW&SB vide Para-77/N. The expenditure is chargeable to B.G. No.6024-16 for the financial year 2013-2014.

The approval of 30 days extension in bid validity has been granted by the Chairman, KW&SB vide Para-77/N..

There is now binding contract between KW&SB and M/s. H.R. Brothers.

In accordance with the existing practice in vogue in KW&SB, you are required to enter in to and execute a Contract agreement. This agreement shall be signed by the employer and M/s. H.R. Brothers.

Provide with the 02% @ Rs.31,94,000/= of above cost as performance security in accordance with existing clause of SPPR Rules-2010 in shape of Bank Guarantee / Pay order or Bank Draft from any scheduled Bank of Pakistan.

You are therefore, directed to contact Resident Engineer, N.E.K. (P&F) K-II Division Office for execution of Agreement, the value of Stamp paper will be Rs.9,600/= @ 0.30% of sanctioned cost which should be produced by you.

All correspondence onward shall be carried out through Superintending Engineer (P&F)-2, KW&SB.

In case of failure, the Letter of Acceptance / Sanction Letter shall be stand cancelled.



(Noor Muhammad Chohan)
Chief Engineer (E&M)-W
K. W. & S. B.

Copy to:-

1. The D.C.E. (E&M)-W, KW&SB.
2. The S.E.(P&F)-2, KW&SB. With directives to abide all codal formalities under Rules SPPR-2010 before submission of Bill. Original work file of the above subjected work is enclosed herewith.
3. The Director Accounts, KW&SB.
4. The A.D. (LFA), KW&SB.
5. Office copy.



KARACHI WATER & SEWERAGE BOARD

OFFICE OF THE CHIEF ENGINEER (IP&D)

BID OPENING REPORT

| | | |
|----|--|---|
| 1 | Name of Procuring Agency | KARACHI WATER & SEWERAGE BOARD |
| 2 | Tender Reference No | SPPRA Serial No. 16816 I.D No. /2013 |
| 3 | Tender Description/Name of Work/Item | REPAIRING / MAINTENANCE WORK OF 4500M3/H (25MGD) PUMP "B" AT HIGH LIFT PUMP HOUSE AT N.E.K (P&F) K-II PLANT, KW&SB. |
| 4 | Method of Procurement | Single Stage (One Envelop) |
| 5 | Tender Published | I) The News ii) Daily Nai Baat iii) Jahan Pakistan on Dated 04-07-2013. |
| 6 | Total Bid Documents Sold | 03 Nos |
| 7 | Total Bid Received | 03 Nos |
| 8 | Technical Bid Opening Date (if applicable) | N/A . |
| 9 | No. of Bid Technically Qualified (if applicable) | N/A . |
| 10 | Financial Bid Opening Date | 23-07-2013 |

11 Bid Opening Report

| S # | NAME OF FIRM OR BIDDER | COST OFFERED BY THE BIDDERS | RANKING IN TERMS OF COST | REMARKS |
|-----|-------------------------|-----------------------------|--------------------------|---|
| 1 | M/s. HR Brothers | Rs.3,194,000/- | 1st Lowest | P.O # 8306570 Dt:22-07-2013 Rs.64,000/- HBL Malir Cantt Br.1217 |
| 2 | M/s. Al-Hannan Builders | Rs.3,256,350/- | 2nd Lowest | P.O # 6620101 Dt: 20-05-13 Rs.70,900/- UBL Malir Cantt Br. |
| 3 | M/s. Saim & Co | Rs.3,309,474/- | 3rd Lowest | P.O # DRA/537086/245975 Dt:19-06-2013 Rs.66,200/- Bank Islami Pakistan Malir Cantt Br |

M/s. HR Brothers declared as the lowest responsive bidder


(Muhammad Riaz)
Accounts Officer (E&M)
Member/Secretary


(Saif-ul-Haque)
Additional Director Internal
Audit - KMC Member


(Maqsood Ahmed Shaikh)
Superintending Engineer (KMC)
Member


(Zaheer Abbas Zaidi)
Chief Engineer (E&M)
Member


(Abdul Rahim Khatti)
Chief Engineer (IPD),
(Convener)



KARACHI WATER & SEWERAGE BOARD

OFFICE OF THE CHIEF ENGINEER (IP&D)

BID EVALUATION REPORT


| | | |
|----|---|--|
| 1 | Name of Procuring Agency | KARACHI WATER & SEWERAGE BOARD |
| 2 | Tender Reference No | SPPRA Serial No.16816 I.D No. /2013 |
| 3 | Tender Description/Name of Work/Item | REPAIRING / MAINTENANCE WORK OF 4500M3/H (25MGD) PUMP "B" AT HIGH LIFT PUMP HOUSE AT N.E.K (P&F) K-II PLANT, KW&SB.. |
| 4 | Method of Procurement | Single Stage (One Envelop) |
| 5 | Tender Published | i) The News ii) Daily Nai Baat iii) Jahan Pakistan on Dated 04-07-2013. |
| 6 | Total Bid Documents Sold | 03 Nos |
| 7 | Total Bid Received | 03 Nos |
| 8 | Technical Bid Opening Date (if applicable) | N/A . |
| 9 | No. of Bid Technically Qualified (if applicable) | N/A . |
| 10 | Bid (s) rejected | Nil |
| 11 | Financial Bid Opening Date | 23-07-2013 |

12 Bid Evaluation Report

| S # | NAME OF FIRM OR BIDDER | COST OFFERED BY THE BIDDERS | RANKING IN TERMS OF COST | COMPARISON WITH ESTIMATED COST | REASON FOR ACCEPTANCE/ REJECTION | REMARKS |
|-----|-------------------------|-----------------------------|--------------------------|--------------------------------|----------------------------------|---|
| 1 | M/s. HR Brothers | Rs.3,194,000/- | 1st Lowest | @ 9.7407% Above | Substantially Responsive | P.O # 8306570 Dt:22-07-2013 Rs.64,000/- HBL Malir Cantt Br.1217 |
| 2 | M/s. Al-Hannan Builders | Rs.3,256,350/- | 2nd Lowest | @ 11.8829% Above | Substantially Responsive | P.O # 6620101 Dt: 20-05-13 Rs.70,900/- UBL Malir Cantt Br. |
| 3 | M/s. Saim & Co | Rs.3,309,474/- | 3rd Lowest | @ 13.7082% Above | Substantially Responsive | P.O # DRA/537086/245975 Dt:19-06-2013 Rs 66,200/- Bank Islami Pakistan Malir Cantt Br |

The all concerned bidder are being informed accordingly.

The E.E Concerned for compliance of rule 45 of SPPRA 2010 M/s. HR Brothers declared as the lowest responsive bidder by the Committee and recommended for Sanction from Competent Authority.


(Muhammad Riaz)
Accounts Officer (E&M)
Member/Secretary


(Saif-ul-Haque)
Additional Director Internal
Audit - KMC Member


(Maqsood Ahmed Shaikh)
Superintending Engineer (KMC)
Member


(Zaheer Abbas Zaidi)
Chief Engineer (E&M)
Member


(Abdul Rahim Khattai)
Chief Engineer (IPD),
(Convener)

COMPARATIVE STATEMENT
NAME OF WORK: REPAIRING / MAINTENANCE WORK OF 4500M³/H (25MGD) PUMP "B" AT HIGH LIFT PUMP HOUSE AT N.E.K
(P&F) K-II PLANT, KW&SB.

| S.No | Description of Work | Engineer's Estimate | | M/s. HR Brothers | | M/s. Al-Hannan Builders | | M/s. Salm & Co. | | |
|------|---|---------------------|--------|------------------|-------|-------------------------|-------|-----------------|-------|--------|
| | | Quantity | Rate | Amount | Rate | Amount | Rate | Amount | Rate | Amount |
| 1 | Removal of Termination & Terminal box and isolated the 412KW Electric Motor from the Pump remove from base then dismantle the pump from foundation and de-bolting the equipment (i.e. discharge head 3228' dia having 30-30 bolts off size in each flange, de-bolting & removal of universal shaft and pump casing, taken out the equipment from pump basement about 30 ft. on the floor of Machine Hall, then re-assembling the pump after Engineering servicing. Complete its termination after servicing & fixing of Terminal Box complete in all respect and as per direction of Engineer incharge. | 1 Job | 47,475 | 47,475 | 52000 | 52000 | 50000 | 50000 | 55000 | 55000 |
| 2 | Removal of Impeller from Pump shaft with the help of hydraulic pressure machine & oxygen acetylene flame & chemical treatment as per direction of Engineer incharge. | 1 Job | 16,275 | 16,275 | 17700 | 17700 | 18000 | 18000 | 20000 | 20000 |
| 3 | Reconditioning & balancing of UNIGLIDE type Impeller of weir pump by welding of worn-out wings used special organ welding with the help of Kansai Electrodes & machining and grinding to bring finished size without disturbing its original shape & balancing as per sample & direction of Engineer in charge. | 1 Job | 78,600 | 78,600 | 87000 | 87000 | 90000 | 90000 | 92000 | 92000 |
| 4 | Re-fixing of impeller in pump shaft with the help of hydraulic pressure machine and balancing with accurate centre. | 1 Job | 11,075 | 11,075 | 12000 | 12000 | 10000 | 10000 | 10100 | 10100 |
| 5 | Providing 20 x 20mm Teflon gland packing. | 10 Kg | 1,250 | 12,500 | 1400 | 14000 | 1500 | 15000 | 1525 | 15250 |

| S.No | Description of Work | Engineer's Estimate | | | M/s. HR Brothers | | M/s. Al-Hannan Builders | | M/s. Saim & Co. | |
|------|--|---------------------|---------|---------|------------------|--------|-------------------------|--------|-----------------|--------|
| | | Quantity | Rate | Amount | Rate | Amount | Rate | Amount | Rate | Amount |
| 6 | Providing Rubber flange gas kit size 4 x 1/8" thick, 2mm | 25 Kg | 220 | 5,500 | 200 | 5000 | 220 | 5500 | 250 | 6250 |
| 7 | Providing DADDEX Joining solution. (Made in USA) | 1 Kg | 1,200 | 1,200 | 1400 | 1400 | 1500 | 1500 | 1550 | 1550 |
| 8 | Supply of Cotton Waste Bags (50Kgs. each) | 2 Bags | 1,800 | 3,600 | 2000 | 4000 | 2050 | 4100 | 2100 | 4200 |
| 9 | P/F 0.5mm Fiber Paper sheet (England made) having width 1 meter. | 4 Meter | 300 | 1,200 | 300 | 1200 | 500 | 2000 | 550 | 2200 |
| 10 | Providing of Bearing No.6318 BCG (SKF) with following Services :- i). Vibration Analysis Service Fee. ii). Dynamic Balancing Service Fee. iii). Service fee Laser Alignment / checking. iv). Service fee Bearing Mounting & dismounting. v). Transportation charges of all equipments vi). Weights / Shimms charges. | 1 No | 57,330 | 57,330 | 64000 | 64000 | 70000 | 70000 | 70500 | 70500 |
| 11 | Removal of Pulley from Pump shaft with the help hydraulic pressure machine & oxygen acetylene flame as per direction of E/L. | 1 Job | 11,475 | 11,475 | 12300 | 12300 | 15000 | 15000 | 15750 | 15750 |
| 12 | Repairing & Reconditioning polishing of Bearing housing having size 1 st . 190mm 2 nd . 125mm taper depth 315mm complete in all respect as per direction of E/L. | 1 Job | 35,075 | 35,075 | 40000 | 40000 | 35000 | 35000 | 38000 | 38000 |
| 13 | Removal of Wear Ring & Neck ring from the Pump casing with the help of Hydraulic pressure machine and oxygen acetylene flame as direction of E/L | 4 Nos | 11,475 | 45,900 | 13000 | 52000 | 14100 | 56400 | 14500 | 58000 |
| 14 | Mfg. of Wear Ring from Bronze metal (Imported) as per sample and direction of Engineer incharge. Size of Wear Ring: 600-550-100mm, & thickness 6mm. | 2 Nos | 120,632 | 241,264 | 135000 | 270000 | 140000 | 280000 | 141525 | 283050 |
| 15 | Fixing of Bronze made Neck & Wear ring. Size of Wear Ring: 600-550-100mm, Size of Neck Ring: 575-525-100mm. | 4 Nos | 11,325 | 45,300 | 12500 | 50000 | 13000 | 52000 | 12575 | 50300 |


| S.No | Description of Work | Engineer's Estimate | | | M/s. HR Brothers | | M/s. Al-Hannan Builders | | M/s. Saim & Co. | |
|------|--|---------------------|---------|---------|------------------|--------|-------------------------|--------|-----------------|--------|
| | | Quantity | Rate | Amount | Rate | Amount | Rate | Amount | Rate | Amount |
| 16 | Fixing of Bronze made Sleeve (upper side) in pump shaft with the help of Hydraulic pressure machine & oxygen acetylene flame as per direction of E/I. | 1 No | 11,325 | 11,325 | 12000 | 12000 | 10000 | 10000 | 12333 | 12333 |
| 17 | Removal of Bronze made Sleeve upper side with the help of Hydraulic pressure machine & oxygen acetylene flame as per direction of Engineer incharge | 1 No | 11,475 | 11,475 | 12500 | 12500 | 12000 | 12000 | 12595 | 12595 |
| 18 | Mfg. of Neck Ring with Bronze metal (Imported) as per sample & direction of Engineer incharge Size= O.D= 575mm, I.D=525mm, Thickness 100mm. | 2 Nos | 118,208 | 236,416 | 120000 | 240000 | 110000 | 220000 | 114000 | 228000 |
| 19 | Removal of Bronze made Sleeve Lower side with the help of Hydraulic pressure machine & oxygen acetylene flame as per direction of Engineer incharge | 1 No | 11,475 | 11,475 | 12500 | 12500 | 15000 | 15000 | 15321 | 15321 |
| 20 | Fixing of Bronze made Sleeve (Lower side) in Pump shaft fix with the help of Hydraulic pressure machine & oxygen acetylene flame as per direction of E/I. | 1 No | 11,325 | 11,325 | 13000 | 13000 | 14100 | 14100 | 14175 | 14175 |
| 21 | Mfg. of Pulley Collar type from Bronze metal (Imported) having size: L-175mm, OD=175mm, ID=150mm, Collar 10mm as per sample and direction of Engineer incharge. | 2 Nos | 35,495 | 70,990 | 40000 | 80000 | 50000 | 100000 | 50999 | 101998 |
| 22 | Removal of Bronze made Bush from shaft with the help of Hydraulic pressure machine & oxygen acetylene flame as per direction of Engineer incharge | 1 No | 11,475 | 11,475 | 13000 | 13000 | 15000 | 15000 | 15800 | 15800 |
| 23 | Mfg. of Shaft Bush from Bronze metal (Imported) as per sample and direction of Engineer incharge: having size: L-192mm, OD=140mm, ID=85mm, L-2 361mm, OD=125mm, ID=85mm. | 2 Nos | 48,363 | 96,726 | 55000 | 110000 | 56500 | 113000 | 57800 | 115600 |
| 24 | Providing Nuts & Bolts i/c Plain & Spring washers. | 85 Kg | 250 | 21,250 | 240 | 20400 | 250 | 21250 | 258 | 21930 |

| S.No | Description of Work | Engineer's Estimate | | M/s. HR Brothers | | M/s. Al-Hannan Builders | | M/s. Saim & Co. | | |
|------|---|---------------------|--------|------------------|-------|-------------------------|-------|-----------------|-------|--------|
| | | Quantity | Rate | Amount | Rate | Amount | Rate | Amount | Rate | Amount |
| 25 | Fixing of Bronze made Bush in pump shaft with the help of Hydraulic pressure machine & oxygen acetylene flame size of Bush: L=134mm, 140mm, with 10mm collar 2 nd 125mm as per direction of E / I. | 1 No | 11,325 | 11,325 | 12000 | 12000 | 15000 | 15000 | 15367 | 15367 |
| 26 | Removal of Rubber Bearing (Spider Bush) from shaft with the help of Hydraulic pressure machine & oxygen acetylene flame as per direction of E / I. | 1 No | 4,925 | 4,925 | 6000 | 6000 | 5000 | 5000 | 5555 | 5555 |
| 27 | Mfg. of Spider Bush Rubber Bearing with Bronze body re-enforces with neuprem rubber as per sample Size L=130mm. O.D. = 150mm, I.D. = 115mm as per direction of Engg: in charge. | 1 No | 19,152 | 19,152 | 25000 | 25000 | 27500 | 27500 | 27525 | 27525 |
| 28 | Fixing of Rubber Bearing (Spider Bush) on lower sleeve with the help of Hydraulic pressure machine. | 1 No | 11,325 | 11,325 | 12500 | 12500 | 13000 | 13000 | 12500 | 12500 |
| 29 | Local Mfg. of shaft protecting sleeve made by high carbon alloy steel (Imported) for 85mm dia solid shaft sleeve, Fix on shaft size L=305mm, O.D.=114mm, I.D.=85mm, with the help of hydraulic pressure machine after removing worn out sleeve, complete in all respect as per direction of Engineer in charge. | 1 Job | 23,760 | 23,760 | 27500 | 27500 | 26000 | 26000 | 26125 | 26125 |

| S.No | Description of Work | Engineer's Estimate | | | M/s. HR Brothers | | M/s. Al-Hannan Builders | | M/s. Saim & Co. | |
|------|---|---------------------|-----------|--------------|------------------|--------------|-------------------------|--------------|-----------------|--------------|
| | | Quantity | Rate | Amount | Rate | Amount | Rate | Amount | Rate | Amount |
| 30 | Repairing of Pitted surface and applying Corrosion protective coating at 25MGD (4500m ³ /h) Pump casing. Detail of work is as under: <ul style="list-style-type: none"> • Jet washing with potable water. • Power wash substrate using fresh water and allow corroding 10 Hour. • Remove all excess water & spent abrasive. • Fresh blast to previous standard. • Grinding work • Decontamination of blasted surface with Belzona 9111NF. • Re-building of eroded surface of pump casing with Belzona 1311 Ceramic R metal • Protective coating of Pump casing with Belzona 1341 super metal Glide. • Pin Hole inspection with pin hole detector. | 1 Job | 1,743,783 | 1,743,783 | 1915000 | 1915000 | 2E+06 | 1945000 | 1962500 | 1962500 |
| | Total Quoted / Corrected Cost | | | 2,910,496.00 | | 3,194,000.00 | | 3,256,350.00 | | 3,308,474.00 |
| | Say | | | 2,910,496 | | 3,194,000 | | 3,256,350 | | 3,308,474 |


 (Muhammad Riaz)
 Accounts Officer (E&M)
 Member/Secretary


 (Zahoor Abbas Zaidi)
 Chief Engineer (E&M)
 Member


 (Saif-ur-Haque)
 Additional Director
 Internal


 (Abdul Rahim Khatt)
 Chief Engineer (IPD),
 (Convener)


 (Maqsood Ahmed Shaikh)
 Superintending Engineer (KMC)
 Member

**NAME OF WORK:- REPAIRING / MAINTENANCE WORK OF 4500M3/H (25MGD)
PUMP "B" AT HIGH LIFT PUMP HOUSE AT N.E.K.(P&F) K-II
PLANT, KW&SB.**

(B) Description and rate of Items based on Market (Offered rates)

| Item No. | Qty. | Description of item to be executed at site | Rate | Unit | Amount in Rupees |
|----------|---------|--|--------|------|------------------|
| 1. | 01Job | Removal of Termination & Terminal box and isolated the 412KW Electric Motor from the Pump remove from base then dismantle the pump from foundation and de-bolting the equipment (i.e. discharge head 32/28' dia having 30+30 bolts off size in each flange, de-bolting & removal of universal shaft and pump casing, taken out the equipment from pump basement about 30 ft. on the floor of Machine Hall, then re-assembling the pump after Engineering servicing. Complete its termination after servicing & fixing of Terminal Box complete in all respect and as per direction of Engineer incharge. | 5200/- | Job | 5200/- |
| 2. | 01Job | Removal of Impeller from Pump shaft with the help of hydraulic pressure machine & oxygen acetylene flame & chemical treatment as per direction of Engineer incharge. | 1770/- | Job | 1770/- |
| 3. | 01Job | Reconditioning & balancing of UNIGLIDE type Impeller of weir pump by welding of worn-out wings used special organ welding with the help of Kansi Electrodes & machining and grinding to bring finished size without disturbing its original shape & balancing as per sample & direction of Engineer in charge. | 8700/- | Job | 8700/- |
| 4. | 01Job | Re-fixing of impeller in pump shaft with the help of hydraulic pressure machine and balancing with accurate centre. | 1200/- | Job | 1200/- |
| 5. | 10Kgs. | Providing 20 x 20mm Teflon gland packing. | 140/- | Kg. | 1400/- |
| 6. | 25Kgs. | Providing Rubber flange gas kit size 4 x 1/8" thick, 2mm | 20/- | Kg. | 500/- |
| 7. | 01Kg. | Providing DADEX J.ining solution. (Made in USA) | 140/- | Kg. | 140/- |
| 8. | 02Bags. | Supply of Cotton Waste Bags (50Kgs. each) | 200/- | Bag. | 400/- |

[Handwritten signature]

[Handwritten signature]

[Handwritten signature]

| | | | | | |
|-----|---------|--|----------|--------|----------|
| 9. | 04Meter | P/F 0.5mm Fiber Paper sheet (England made) having width 1 meter. | 300/- | Meter. | 1200/- |
| 10. | 01No. | Providing of Bearing No.6318 BCG (SKF) with following Services :- i). Vibration Analysis Service Fee. ii). Dynamic Balancing Service Fee. iii). Service fee Laser Alignment / checking. iv). Service fee Bearing Mounting & dismounting. v). Transportation charges of all equipments vi). Weights / Shims charges. | 6400/- | Each | 6400/- |
| 11. | 01Job | Removal of Pulley from Pump shaft with the help hydraulic pressure machine & oxygen acetylene flame as per direction of E/I. | 12300/- | Job | 12300/- |
| 12. | 01Job | Repairing & Reconditioning polishing of Bearing housing having size 1 st . 190mm 2 nd . 125mm taper depth 315mm complete in all respect as per direction of E/I. | 4000/- | Job | 4000/- |
| 13. | 04Nos. | Removal of Wear Ring & Neck ring from the Pump casing with the help of Hydraulic pressure machine and oxygen acetylene flame as direction of E/I. | 13000/- | Job | 52000/- |
| 14. | 02Nos. | Mfg. of Wear Ring from Bronze metal (Imported) as per sample and direction of Engineer incharge. Size of Wear Ring: 600-550-100mm, & thickness 66mm. | 135000/- | Each | 270000/- |
| 15. | 04Nos. | Fixing of Bronze made Neck & Wear ring. Size of Wear Ring: 600-550-100mm, Size of Neck Ring: 575-525-100mm. | 12500/- | Each | 50000/- |
| 16. | 01No. | Fixing of Bronze made Sleeve (upper side) in pump shaft with the help of Hydraulic pressure machine & oxygen acetylene flame as per direction of E/I. | 12000/- | Each | 12000/- |
| 17. | 01No. | Removal of Bronze made Sleeve upper side with the help of Hydraulic pressure machine & oxygen acetylene flame as per direction of Engineer incharge | 12500/- | Each | 12500/- |
| 18. | 02Nos. | Mfg. of Neck Ring with Bronze metal (Imported) as per sample & direction of Engineer incharge Size= O.D= 575mm, I.D=525mm, Thickness 100mm. | 12000/- | Each | 24000/- |

[Handwritten signature]

[Handwritten signature]

| | | | | | |
|-----|--------|---|---------|------|---------|
| 19. | 01No. | Removal of Bronze made Sleeve Lower side with the help of Hydraulic pressure machine & oxygen acetylene flame as per direction of Engineer incharge | 12500/- | Each | 12500/- |
| 20. | 01No. | Fixing of Bronze made Sleeve (Lower side) in Pump shaft fix with the help of Hydraulic pressure machine & oxygen acetylene flame as per direction of E / I. | 13000/- | Each | 13000/- |
| 21. | 02Nos. | Mfg. of Pulley Collar type from Bronze metal (Imported) having size: L-175mm, OD=175mm, ID=150mm, Collar 10mm as per sample and direction of Engineer incharge. | 4000/- | Each | 8000/- |
| 22. | 01No. | Removal of Bronze made Bush from shaft with the help of Hydraulic pressure machine & oxygen acetylene flame as per direction of Engineer incharge | 13000/- | Each | 13000/- |
| 23. | 02Nos. | Mfg. of Shaft Bush from Bronze metal (Imported) as per sample and direction of Engineer incharge: having size: L-192mm, OD=140mm, ID=85mm, L-2361mm, OD=125mm, ID=85mm. | 5500/- | Each | 11000/- |
| 24. | 85Kgs. | Providing Nuts & Bolts i/c Plain & Spring washers. | 240/- | Kg. | 20400/- |
| 25. | 01No. | Fixing of Bronze made Bush in pump shaft with the help of Hydraulic pressure machine & oxygen acetylene flame size of Bush: L=134mm, 140mm, with 10mm collar 2 nd 125mm as per direction of E / I. | 12000/- | Each | 12000/- |
| 26. | 01No. | Removal of Rubber Bearing (Spider Bush) from shaft with the help of Hydraulic pressure machine & oxygen acetylene flame as per direction of E / I. | 6000/- | Each | 6000/- |
| 27. | 01No. | Mfg. of Spider Bush Rubber Bearing with Bronze body re-enforces with neuprem rubber as per sample Size L =130mm. O.D. = 150mm, I.D. = 115mm as per direction of Engg. in charge. | 25000/- | Each | 25000/- |
| 28. | 01No. | Fixing of Rubber Bearing (Spider Bush) on lower sleeve with the help of Hydraulic pressure machine. | 12500/- | Each | 12500/- |
| 29. | 01Job | Local Mfg. of shaft protecting sleeve made by high carbon alloy steel (Imported) for 85mm dia solid shaft sleeve. Fix on shaft size L=305mm, O.D.=114mm, I.D.=85mm, with the help of hydraulic pressure machine after removing worn out sleeve, complete in all respect as per direction of Engineer in charge. | 27500/- | Job | 27500/- |

| | | | | | |
|-----|--------|--|-----------|-----|-----------|
| 30. | 01 Job | Repairing of Pitted surface and applying Corrosion protective coating at 25MGD (4500m³/h) Pump casing. Detail of work is as under: <ul style="list-style-type: none"> • Jet washing with potable water. • Power wash substrate using fresh water and allow corroding 10 Hour. • Remove all excess water & spent abrasive. • Fresh blast to previous standard. • Grinding work • Decontamination of blasted surface with Belzona 9111NF. • Re-building of eroded surface of pump casing with Belzona 1311 Ceramic R metal • Protective coating of Pump casing with Belzona 1341 super metal Glide. • Pin Hole inspection with pin hole detectoe. | 1915000/- | Job | 1915000/- |
|-----|--------|--|-----------|-----|-----------|

Total: Rs: 3194000/-

I/We hereby quoted Rs. 3194000/- (Rupees Thirty One Lac Ninety Four Thousand Only)

M. Saeed
 Resident Engineer
AYAZ AHMAD SHAIKH
 RESIDENT ENGINEER
 N.E.K (P&F) K-II
 K.W.S.B.

execution of above work and I/ We hereby undertaking to accept all clauses of SPPR-2010 and comply the Rules of K.W.S.B.

1- Tender/Quotation received in sealed cover and opened by Tender Opening Committee.
 2- No cutting or overwriting found (cutting or overwriting found).
 3- Contractor has enclosed Earnest money of bid amount pay order Rs. 64000/- No. 83006570 Dt. 22/7/13
 Draw on H.R. Brothers
 4- Contractor H.R. Brothers has quoted Rs. 3194000/- (Rupees Thirty One Lac Ninety Four Thousand Only)

H.R. Brothers
 Signature of Contractor
 With name of firm & Seal
 Address H.R. Brothers
 Contact # 0321-2578773

[Signature]
 I.A.O. (E&M)-Water
 (Member/Secretary)

[Signature]
 C.E. (E&M)-Water
 (Member)

[Signature]
 Addt. Dir.
 Internal Audit-KMC
 (Member)

[Signature]
 23/7
 S.E. (KMC)
 (Member)

[Signature]
 C.E. (P&F)
 (Convener)



NOTE SHEET

DMD (T.S.)
 Dir. 1657/P
 Dated 4/10/13

Paras

(=10=)

Reference

SUBJECT:- REPAIRING / MAINTENANCE WORK OF 4500 m³/H (25 MGD) PUMP "B" AT HIGH LIFT PUMP HOUSE AT NEK (P&F) K-II PLANT, KW&SB

74/

After opening of tender on 23.7.2013 of the subjected work, the Procuring Committee-I has evaluated bid cost of Rs.31,94,000/- and recommended vide para 55(6)/N. The Finance Department, KW&SB has also concurred in vide para 61/N to 72/N. Hence sanction of work may kindly be obtained from Chairman, KW&SB for Rs.31,94,000/- in favour of M/s. H.R. Brothers alongwith extension of 30 days in validity period of tender as per Rule 38 (4) of SPPRA-2010 for completion of all codal formalities and also technical sanction, permission for execution of agreement by the undersigned on behalf of competent authority of KW&SB.

75/

Submitted please.

[Signature]

D.M.D (T.S.)

C.E.(E&M)-W

Approval / sanction of work of Rs.31,94,000/- may kindly be accorded by the Hon'ble chairman, KW&SB, through worthy MD, KW&SB, as recommended by Procuring Committee, vide para 55(6)/N, the case is financially concurred in by IAO-II, Finance Deptt, KW&SB, vide para 70/N, and requested by CE(E&M)W vide para 74/N, please.

76/

MD, KW&SB.

Para 75/N may kindly be approved
[Signature]
 4/10

M. H. J. K
 DMD (T.S.)
 4/10/13

77/

Chairman - KW&SB.

As Proposed

78/

MD

[Signature]
 I J K

79/

DMD (T.S.)
 80/- CE(E&M)W

AO (F)

[Signature]
 M. H. J. K
 DMD (T.S.)
 CE(E&M)W

NOTE SHEET



| | |
|-------|---------|
| DMD | 796/E |
| Diary | 15/5/13 |
| Dated | |

(=6=)

Reference

Paras

SUBJECT:- REPAIRING / MAINTENANCE WORK OF 4500 m³/h (25 MGD) PUMP "B" AT HIGH LIFT PUMP HOUSE, AT N.E.K. (P&F) K-II, KW&SB

Reference query made by M.D., KW&SB at para 32/N. The matter has been discussed by the undersigned with concerned S.E.

It is submitted that out of 05 pumps, 3 remains in operation round the clock. One No. motor of 412 KW of H/L Pump room, lying in Siemens workshop and now one Pump (Set "B") is out of order from H/L Pump House, and the standby position of pumps is 'ALARMING". Furthermore the pump set "B" completes more than 85000 running hours since installation and no maintenance work has been carried out till date, as explained by R.E. vide para 36-39/N and recommended by S.E. vide para 41/N.

The case is re-submitted with strong recommendations that the approval of M.D., KW&SB may kindly be obtained as already requested in para 30/N, please.



| | |
|-----------------|---------|
| DMD (P&F) KW&SB | 1640/E |
| Diary | 28/6/13 |
| Dated | |

D.M.D.(T/S)

C.E.(E&M)-W

In continuation of para 32/N, the necessity justification has been explained vide para 36/N, to 41/N, hence, the case is submitted for necessary Administrative approval for inviting tender through press as per SPPRA-2010, as recommended by CE(E&M), N, vide para 42/N, to 44/N, please.

M.D. KW&SB.

All done as proper.

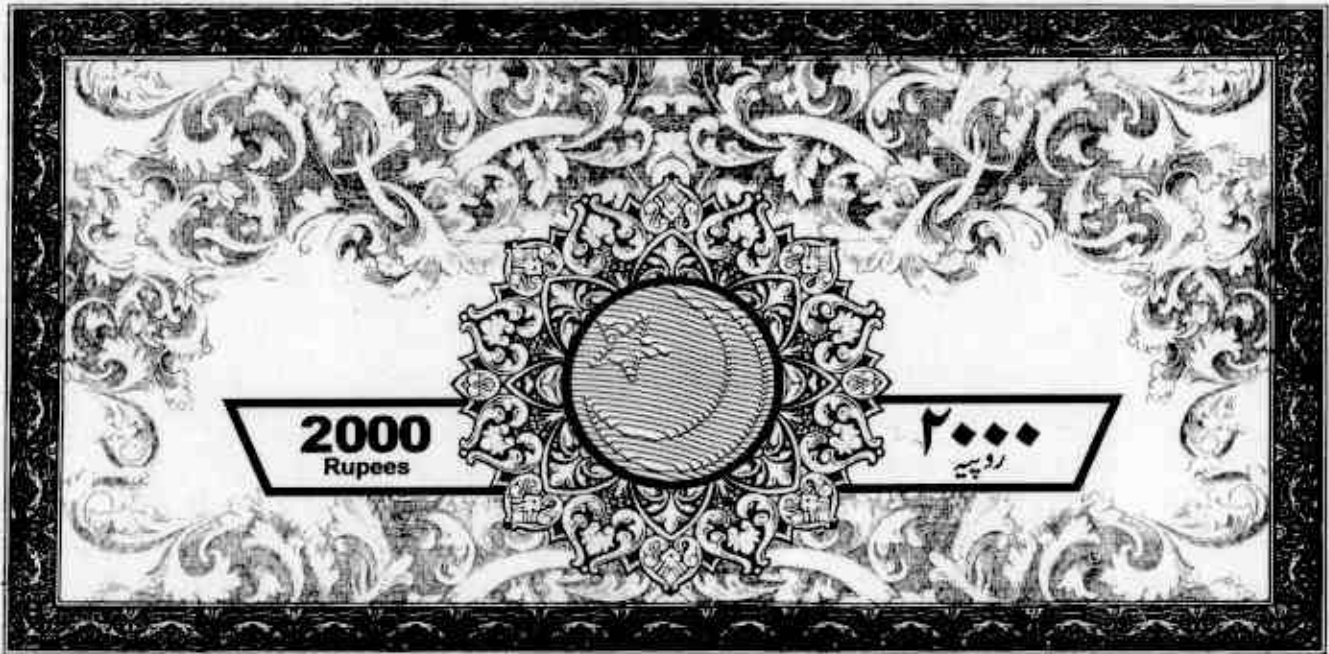
DMD P.S

CE(E&M)

28/6/2013
DMD(T/S)

| | |
|------------|-----------|
| M.D. KW&SB | 783/W |
| DIARY NO | 17/5/2013 |
| DATE | |





STAMP OFFICE GEN. CLERK
 Issued to Muhammad Saad Siddiqi AL
 NIC Company Card No. 873
 Vide D.S.R. No. 11/1480 dt. 3-10-13
 On behalf of challan No. 11/1480 dt. 3-10-13
 for the purpose of _____
 A. No. 11 Dated 3-10-13

3/10/13

AGREEMENT
Between
M/s. H. R. Brothers,
and
Karachi Water & Sewerage Board.

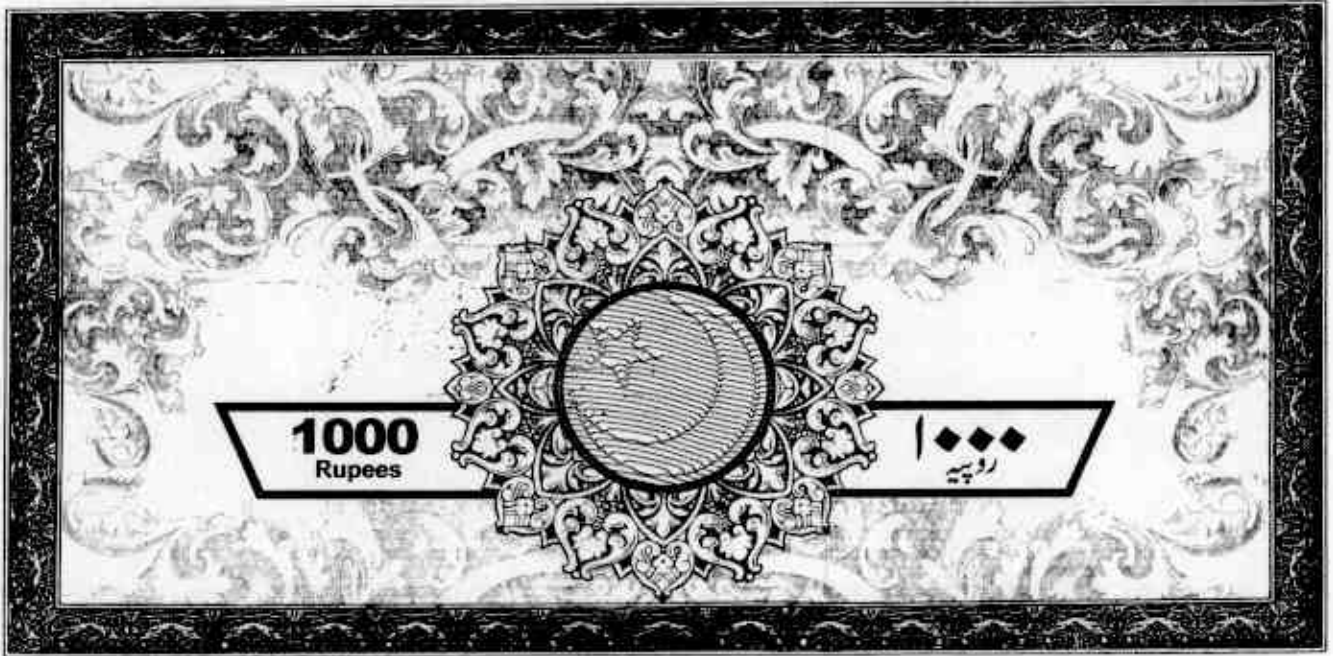
This agreement made on this _____ day of _____ 2013, between Karachi Water & Sewerage Board, Block-B, 9th Mile Shahra-e-Faisal, Karsaz, Karachi, through its Chief Engineer (E&M)-Water / S.E. (P&F)-2, KW&SB, hereinafter called the Board (hereinafter called the employer of the one part) and M/s. H. R. Brothers, Karachi, hereinafter called the Contractor of the other part.

Whereas the KW&SB has accepted the Contractor's Tender here unto Annexed and marked 1/3 dated 23.07.2013 for the work of "REPAIRING / MAINTENANCE WORK OF 4500M3/H (25MGD) PUMP "B" AT HIGH LIFT PUMP HOUSE AT N.E.K.(P&F) K-II PLANT, KW&SB". Estimated cost: (On Item rate basis) under SPPR-2010. The total sanctioned amount is Rs.31,94,000/= (Rupees Thirty One Lac Ninety Four Thousand only) as evaluated / recommended by Procurement / Evaluation

PAGE 1 OF 3

[Signature]

[Signature]



M. NAJAM Stamp Vendor

Licence No. _____
 Block No. _____
 S.No. 3210
 ISSUED BY: M. NAJAM
 THROUGH: M. NAJAM
 VALUE: _____
 10 OCT 2013
 CHECKED: _____

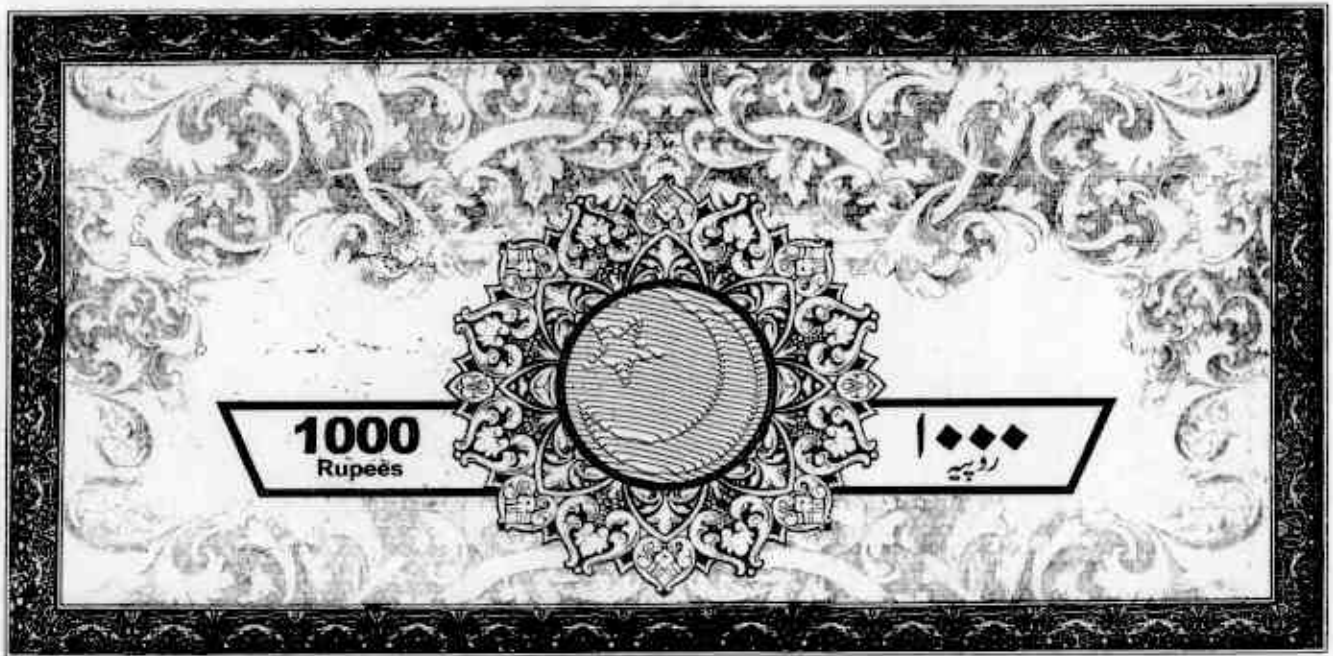
Committee-I, KW&SB vide Para-55/N and financially concurred by the Finance Department, KW&SB vide Para-61 to 72/N duly approved by the Chairman, KW&SB vide Para-77/N as per Contractor's quoted amount, the amount put to tender. According to the specifications and general terms and conditions vide Para-7&8 CPWA Code duly signed by the Contractor have made them fully acquainted with its meanings.

The approval of 30 days extension in bid validity also granted by M.D. KW&SB vides Para-77/N.

WHEREAS 10% Security Deposit (02% Earnest Money on Quoted amount is deposited by Contractor in favour of KW&SB) will be deducted from the Contractor's bill and such amount have given a lien over as security for the due fulfillment of the contract and the Contractor abide all the terms and conditions and aforesaid specification of the tender. Security Deposit deducted to be refunded after three months of satisfactory completion of the work.

The payment to be made by KW&SB to the contractor as per prevailing legal / codal practice

PAGE 2 OF 3



S.M. NAJAM Stamp Vendor

Licence No. 1000/2013
Block-14-C

10 OCT 2013

S.No. 32150

ISSUED

THROUGH

S. HAWAZI ARI AJIB

PURPOSE

VALUE

STAMP VENDOR

1000

The Contractor due hereby bind themselves their heirs successors / legal representatives and assignee to pay 0.5% of Bid Cost per day of delay to the KW&SB or such smaller amount fixed by the competent authority. The time for completion of this work is within (15) Days.

IN WITNESS WHEREOF the said parties have set their respective hands on this ____ day

____, 2013.

M/s. H. R. Brothers,
(Contractor)

RESIDENT ENGINEER
NORTH EAST KARACHI (P&F) K-II
DIVISION, KW&SB

SUPERINTENDING ENGINEER
(PUMPING & FILTER)-2,
KW&SB

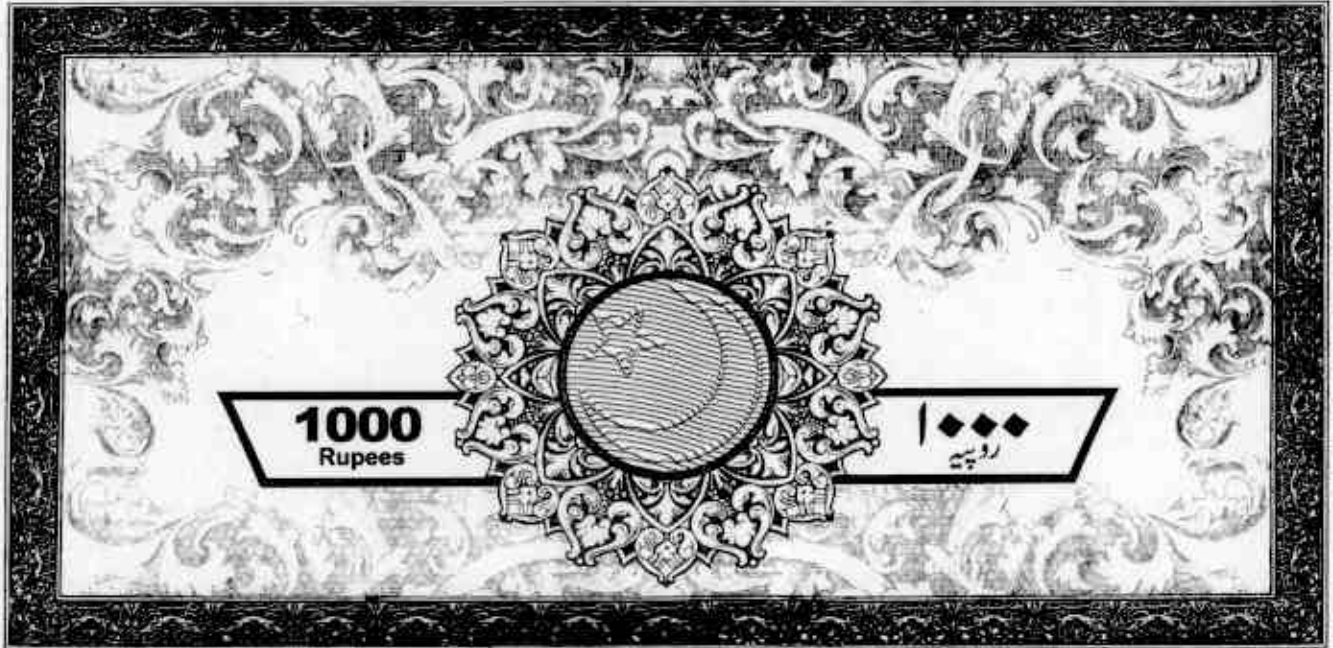
CHIEF ENGINEER (E&M)-WATER
K.W. & S.B.

WITNESSES:

1. Jalman Talik

2. M. Hannam

AAPM construction Al-Hannam Builders



STAMP OFFICE CITY COURT, KARACHI
 Issued to Tareeq Ahmad
 NIC/Company Card No. 14
 Visited D.S.R. No. 164 dated 2-10-13
 On behalf of challan No. 164 Dt. 2-10-13
 for the purpose of SA
 E. No: 14 Dated 2-10-13

[Signature]
 [Illegible text]

AGREEMENT

Between

M/s. H. R. Brothers,
 and
Karachi Water & Sewerage Board.

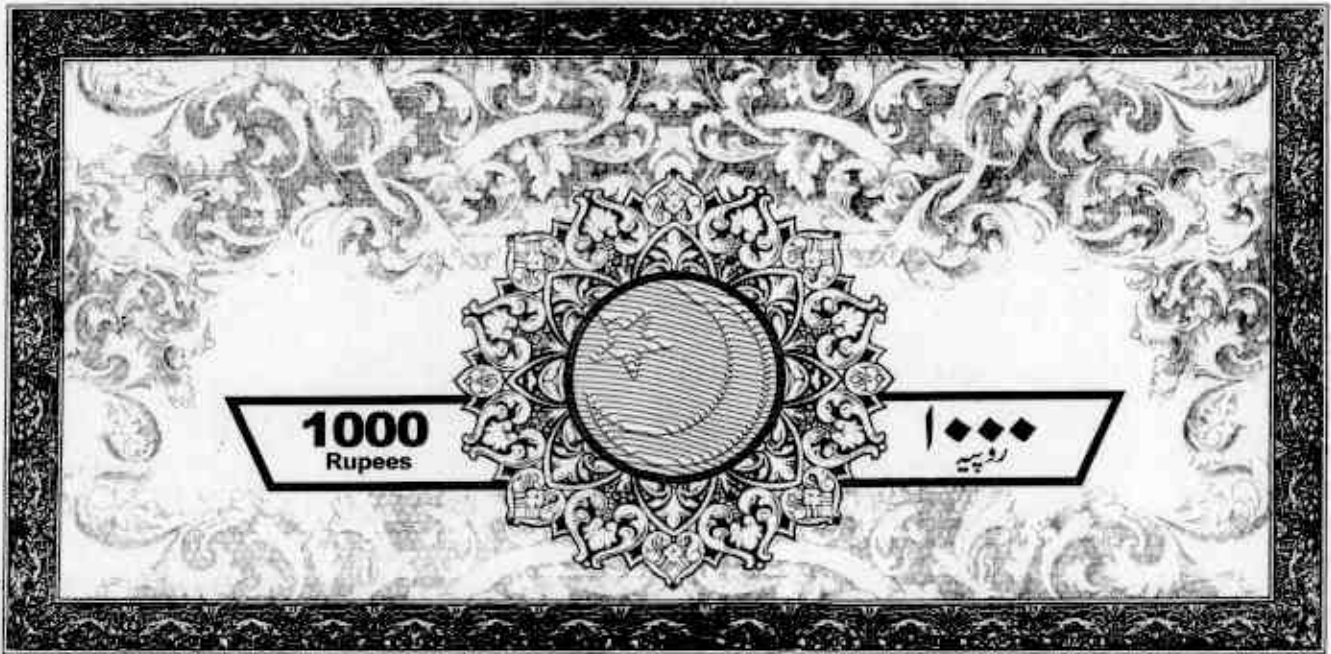
Name of Work:- REPAIRING / MAINTENANCE WORK OF 4500M3/H (25MGD) PUMP "B" AT HIGH LIFT PUMP HOUSE AT N.E.K.(P&F) K-II PLANT, KW&SB

[Signature]

M/s. H. R. Brothers,
 (Contractor)

[Signature]

RESIDENT ENGINEER
 NORTH EAST KARACHI (P&F) K-II
 DIVISION, KW&SB



STAMP OFFICE CITY COURT, KARACHI

Issued to Mr. H. R. Brothers Al
 NIC/Company Card No. _____
 V.D.S.R. No. " _____ dated 4.10.13
 On behalf of challan No: 198 Dt. 4.10.13
 for the purpose of id.
 E. No: " _____ Dated 4.10.13

4/10/13

AGREEMENT

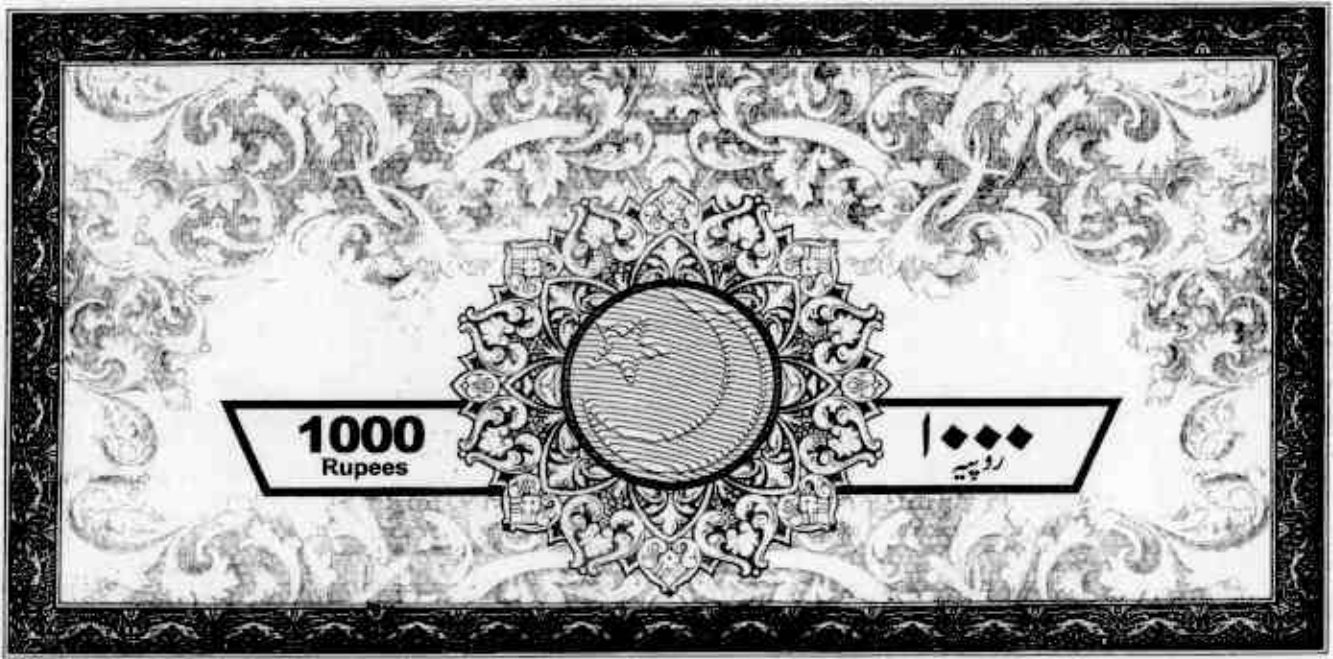
Between

M/s. H. R. Brothers,
 and
Karachi Water & Sewerage Board.

Name of Work:- REPAIRING / MAINTENANCE WORK OF 4500M³/H (25MGD) PUMP "B" AT HIGH LIFT PUMP HOUSE AT N.E.K.(P&F) K-II PLANT, KW&SB

M/s. H. R. Brothers,
 (Contractor)

RESIDENT ENGINEER
 NORTH EAST KARACHI (P&F) K-II
 DIVISION, KW&SB



STAMP OFFICE CITY COURT, KARACHI
 Issued to Mr. H. R. Brothers
 NIC/Company Card No. _____
 Vid. S.R. No. 12 Date 14.10.13
 On behalf of challan No: 203 Date 14.10.13
 for the purpose of RD
 E. No: 72 Date 14.10.13

[Signature] Wanda

AGREEMENT

Between

**M/s. H. R. Brothers,
and
Karachi Water & Sewerage Board.**

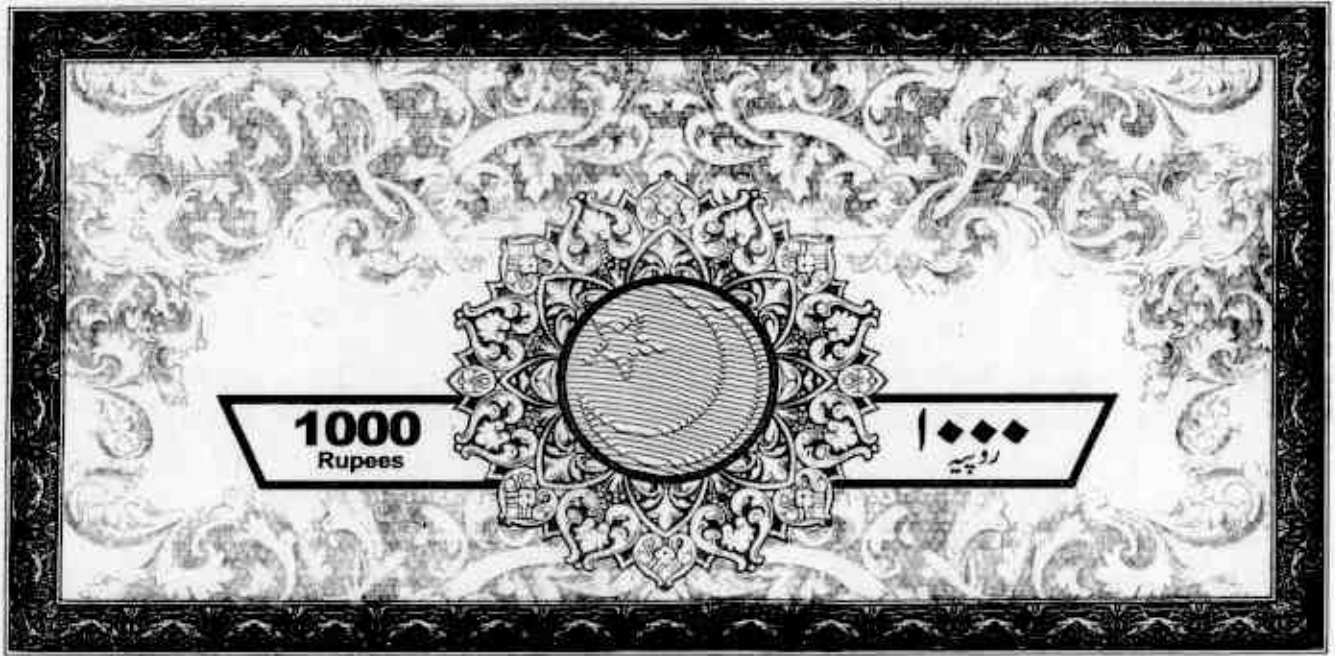
Name of Work:- REPAIRING / MAINTENANCE WORK OF 4500M3/H (25MGD) PUMP "B" AT HIGH LIFT PUMP HOUSE AT N.E.K.(P&F) K-II PLANT, KW&SB

[Signature]

**M/s. H. R. Brothers,
(Contractor)**

[Signature]

**RESIDENT ENGINEER
NORTH EAST KARACHI (P&F) K-II
DIVISION, KW&SB**



Issued to: *House No. Ahmed Guliyi*
 MIC/Company Card No. *825*
 Via: U.S.R. No. *12* *14.10.13*
 No. of bill of exchange *203* *14.10.13*
 for the purpose *12*
 IE. No. *14.10.13*

AGREEMENT

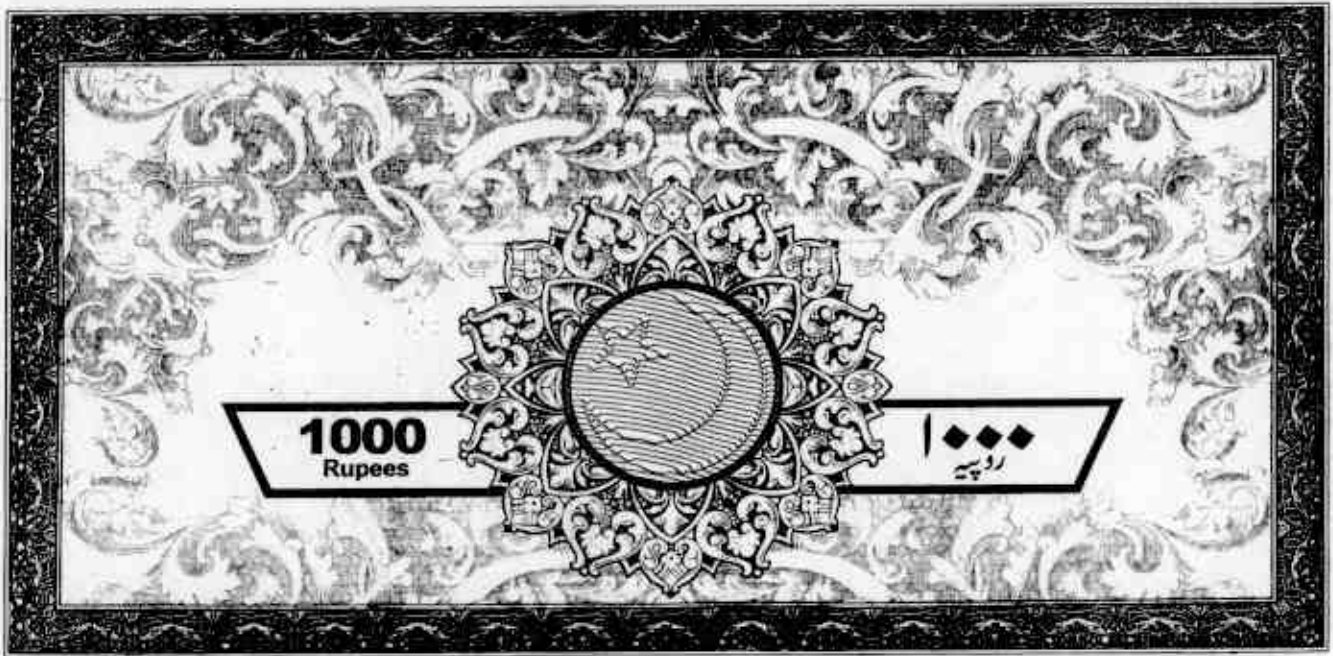
Between

**M/s. H. R. Brothers,
and
Karachi Water & Sewerage Board.**

Name of Work:- REPAIRING / MAINTENANCE WORK OF 4500M3/H (25MGD) PUMP "B" AT HIGH LIFT PUMP HOUSE AT N.E.K.(P&F) K-II PLANT, KW&SB

[Signature]
**M/s. H. R. Brothers,
(Contractor)**

[Signature]
**RESIDENT ENGINEER
NORTH EAST KARACHI (P&F) K-II
DIVISION, KW&SB**



Licence No 85, Shop No. 1, Karama Plaza
 Gulshan-e-Iqbal, Block-14, Room No. 14
 No. 52560 Date
 Address...
 Address...
 Rs. **HASHMI**
 KARACHI

11 OCT 2013

AGREEMENT

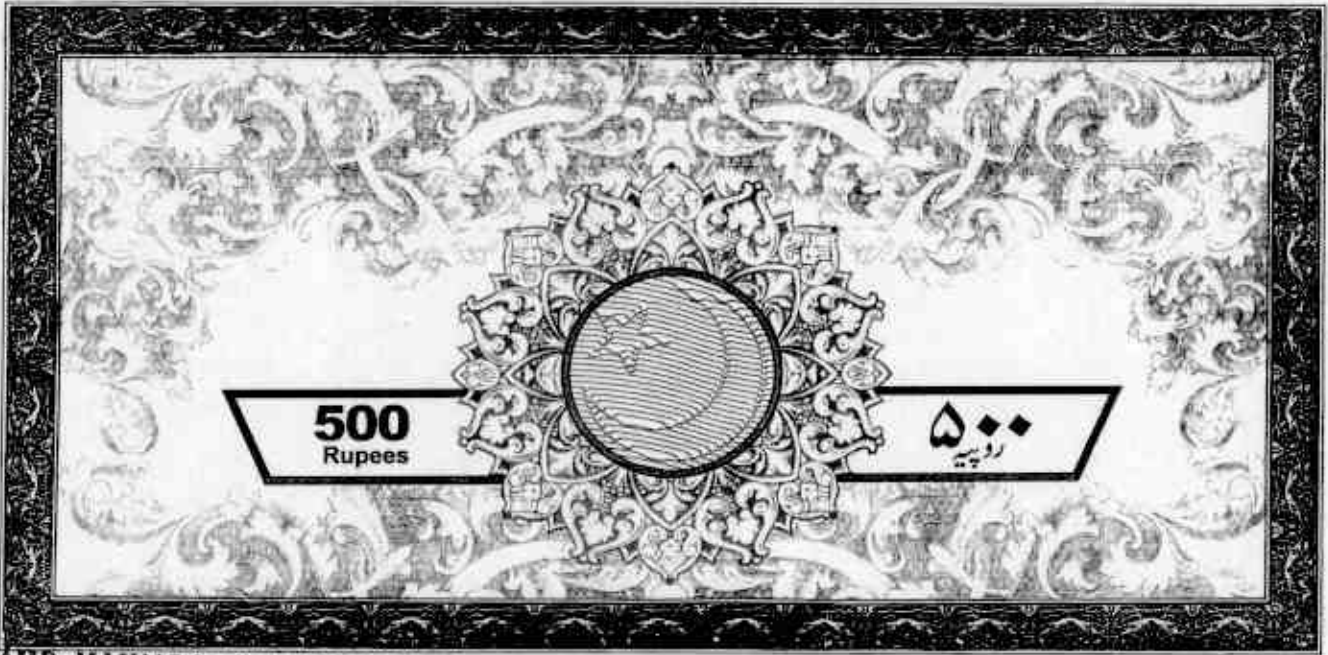
Between

M/s. H. R. Brothers,
 and
Karachi Water & Sewerage Board.

Name of Work:- REPAIRING / MAINTENANCE WORK OF 4500M3/H
(25MGD) PUMP "B" AT HIGH LIFT PUMP HOUSE AT
N.E.K.(P&F) K-II PLANT, KW&SB


 M/s. H. R. Brothers,
 (Contractor)


 RESIDENT ENGINEER
 NORTH EAST KARACHI (P&F) K-II
 DIVISION, KW&SB



SAIB MAHMOOD STAMP VENDOR
 TAHIR KHAN
 Advocate High Court Karachi
 STAMP VENDOR'S SIGNATURE

10 OCT 2013

AGREEMENT

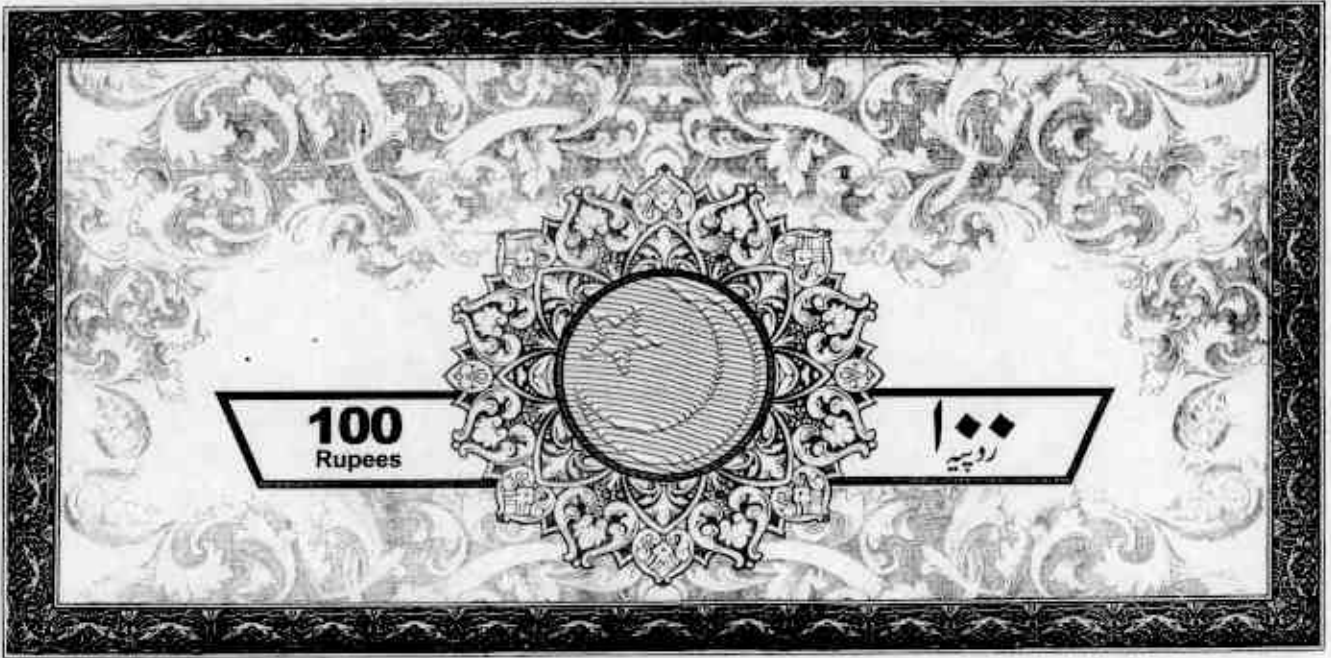
Between

M/s. H. R. Brothers,
 and
Karachi Water & Sewerage Board.

Name of Work:- REPAIRING / MAINTENANCE WORK OF 4500M³/H
 (25MGD) PUMP "B" AT HIGH LIFT PUMP HOUSE AT
 N.E.K.(P&F) K-II PLANT, KW&SB

M/s. H. R. Brothers,
 (Contractor)

RESIDENT ENGINEER
 NORTH EAST KARACHI (P&F) K-II
 DIVISION, KW&SB



08 OCT 2013

G.M. NAJAM Stamp Vendor

Licence No. 146, Street, P.O. Tarni, P.O. Box 1, Civil Lines, Faisalabad

S.No. 31815

ISSUED THROUGH **Zohaib Ahmed Khan** Advocate

PURPOSE: [Handwritten mark] VALUE: [Handwritten mark] ATTACHED [Handwritten mark] STAMP VENDOR'S SIGNATURE: [Handwritten mark]

AGREEMENT

Between

**M/s. H. R. Brothers,
and
Karachi Water & Sewerage Board.**

Name of Work:- REPAIRING / MAINTENANCE WORK OF 4500M3/H (25MGD) PUMP "B" AT HIGH LIFT PUMP HOUSE AT N.E.K.(P&F) K-II PLANT, KW&SB


**M/s. H. R. Brothers,
(Contractor)**


**RESIDENT ENGINEER
NORTH EAST KARACHI (P&F) K-II
DIVISION, KW&SB**



KARACHI WATER & SEWERAGE BOARD

OFFICE OF THE CHIEF ENGINEER (IP&D)

BID EVALUATION REPORT

| | | |
|----|---|---|
| 1 | Name of Procuring Agency | KARACHI WATER & SEWERAGE BOARD |
| 2 | Tender Reference No | SPPRA Serial No.16816 I.D No. /2013 |
| 3 | Tender Description/Name of Work/Item | REPAIRING / MAITENANCE WORK OF 4500M3/H (25MGD) PUMP "B" AT HIGH LIFT PUMP HOUSE AT N.E.K (P&F) K-II PLANT, KW&SB.. |
| 4 | Method of Procurement | Single Stage (One Envelop) |
| 5 | Tender Published | i) The News ii) Daily Nai Baat iii) Jahan Pakistan on Dated 04-07-2013. |
| 6 | Total Bid Documents Sold | 03 Nos |
| 7 | Total Bid Received | 03 Nos |
| 8 | Technical Bid Opening Date (if applicable) | N/A . |
| 9 | No. of Bid Technically Qualified (if applicable) | N/A . |
| 10 | Bid (s) rejected | Nil |
| 11 | Financial Bid Opening Date | 23-07-2013 |

12 Bid Evaluation Report

| S # | NAME OF FIRM OR BIDDER | COST OFFERED BY THE BIDDERS | RANKING IN TERMS OF COST | COMPARISON WITH ESTIMATED COST | REASON FOR ACCEPTANCE/ REJECTION | REMARKS |
|-----|-------------------------|-----------------------------|--------------------------|--------------------------------|----------------------------------|---|
| 1 | M/s. HR Brothers | Rs.3,194,000/- | 1st Lowest | @ 9.7407% Above | Substantially Responsive | P.O # 8306570 Dt:22-07-2013 Rs.64,000/- HBL Malir Cantt Br.1217 |
| 2 | M/s. Al-Hannan Builders | Rs.3,256,350/- | 2nd Lowest | @ 11.8829% Above | Substantially Responsive | P.O # 6620101 Dt: 20-05-13 Rs.70,900/- UBL Malir Cantt Br. |
| 3 | M/s. Saim & Co | Rs.3,309,474/- | 3rd Lowest | @ 13.7082% Above | Substantially Responsive | P.O # DRA/537086/245975 Dt:19-06-2013 Rs.66,200/- Bank Islami Pakistan Malir Cantt Br |

The all concerned bidder are being informed accordingly.

The E.E Concerned for compliance of rule 45 of SPPRA 2010 M/s. HR Brothers declared as the lowest responsive bidder by the Committee and recommended for Sanction from Competent Authority.


(Muhammad Riaz)
Accounts Officer (E&M)
Member/Secretary


(Saif-ul-Haque)
Additional Director Internal
Audit - KMC Member


(Maqsood Ahmed Shaikh)
Superintending Engineer (KMC)
Member


(Zaheer Abbas Zaidi)
Chief Engineer (E&M)
Member


(Abdul Rahim Khattai)
Chief Engineer (IPD),
(Convener)



KARACHI WATER & SEWERAGE BOARD

OFFICE OF THE CHIEF ENGINEER (IP&D)

BID EVALUATION REPORT

| | | |
|----|---|---|
| 1 | Name of Procuring Agency | KARACHI WATER & SEWERAGE BOARD |
| 2 | Tender Reference No | SPPRA Serial No.16816 I.D No. /2013 |
| 3 | Tender Description/Name of Work/Item | REPAIRING / MAINTENANCE WORK OF 6660M3/H (35MGD) PUMP SET "C" AT LOW LIFT PUMP HOUSE AT N.E.K. (P&F) K-II PLANT, KW&SB. |
| 4 | Method of Procurement | Single Stage (One Envelop) |
| 5 | Tender Published | i) The News ii) Daily Nai Baat iii) Jahan Pakistan on Dated 04-07-2013. |
| 6 | Total Bid Documents Sold | 02 Nos |
| 7 | Total Bid Received | 02 Nos |
| 8 | Technical Bid Opening Date (if applicable) | N/A |
| 9 | No. of Bid Technically Qualified (if applicable) | N/A |
| 10 | Bid (s) rejected | Nil |
| 11 | Financial Bid Opening Date | 23-07-2013 |

12 Bid Evaluation Report

| S # | NAME OF FIRM OR BIDDER | COST OFFERED BY THE BIDDERS | RANKING IN TERMS OF COST | COMPARISON WITH ESTIMATED COST | REASON FOR ACCEPTANCE/ REJECTION | REMARKS |
|-----|-------------------------|-----------------------------|--------------------------|--------------------------------|----------------------------------|---|
| 1 | M/s. HR Brothers | Rs.3,857,000/- | 1st Lowest | @ 9.8126% Above | Substantially Responsive | P.O # 8306569 Dt:22-07-13 Rs.58,700/- P.O # 8399341 Dt:09-05-13 Rs.18,450/- Total Rs.77,150/- HBL Malir Cantt Br.1217 |
| 2 | M/s. Al-Hannan Builders | Rs.3,890,109/- | 2nd Lowest | @ 10.7552% Above | Substantially Responsive | P.O # 6620188 Dt: 19-06-13 Rs.60,500/- P.O # 6620040 Dt: 24-05-13 Rs.19,870/- UBL Malir Cantt Br. Total Rs.80,370/- |

The all concerned bidder are being informed accordingly.

The E.E Concerned for compliance of rule 45 of SPPRA 2010 M/s. HR Brothers declared as the lowest responsive bidder by the Committee and recommended for Sanction from Competent Authority.


(Muhammad Riaz)
Accounts Officer (E&M)
Member/Secretary


(Saif-ul-Haque)
Additional Director Internal
Audit - KMC Member


(Maqsood Ahmed Shaikh)
Superintending Engineer (KMC)
Member


(Zaheer Abbas Zaidi)
Chief Engineer (E&M)
Member


(Abdul Rahim Khattai)
Chief Engineer (IPD),
(Convener)



KARACHI WATER & SEWERAGE BOARD
OFFICE OF THE CHIEF ENGINEER (IP&D)

BID EVALUATION REPORT

| | | |
|----|---|---|
| 1 | Name of Procuring Agency | KARACHI WATER & SEWERAGE BOARD |
| 2 | Tender Reference No | SPPRA Serial No.16816 I.D No. /2013 |
| 3 | Tender Description/Name of Work/Item | REPAIRING / MAINTENANCE WORK OF 01 NO. WEIR PUMP 660M3/H (35MGD) PUMP "A" INSTALLED AT LW LIFT PUMP HOUSE AT N.E.K (P&F) K-II PLANT, KW&SB. |
| 4 | Method of Procurement | Single Stage (One Envelop) |
| 5 | Tender Published | i) The News ii) Daily Nai Baat iii) Jahan Pakistan on Dated 04-07-2013. |
| 6 | Total Bid Documents Sold | 03 Nos |
| 7 | Total Bid Received | 03 Nos |
| 8 | Technical Bid Opening Date (if applicable) | N/A . |
| 9 | No. of Bid Technically Qualified (if applicable) | N/A . |
| 10 | Bid (s) rejected | One 1 |
| 11 | Financial Bid Opening Date | 23-07-2013 |

| S # | NAME OF FIRM OR BIDDER | COST OFFERED BY THE BIDDERS | RANKING IN TERMS OF COST | COMPARISON WITH ESTIMATED COST | REASON FOR ACCEPTANCE/ REJECTION | REMARKS |
|-----|-------------------------|-----------------------------|--------------------------|--------------------------------|----------------------------------|---|
| 1 | M/s. Malik & Company | Rs.3,488,979/- | 1st Lowest | @10.00% Above | Substantially Responsive | P.O # 8306576 Dt:22-07-2013 Rs.69,800/- HBL Malir Cantt Br.1217 |
| 2 | M/s. Kashif Engg. Works | Rs.3,647,569/- | 2nd Lowest | @15.00% Above | Substantially Responsive | P.O # 6726216 Dt: 08-04-2013 Rs.74,600/- UBL Model Colony Br.0845 |
| 3 | M/s. Saim & Co | Not Quoted | ----- | ----- | ----- | ----- |

The all concerned bidder are being informed accordingly.

The E.E Concerned for compliance of rule 45 of SPPRA 2010 M/s. Malik & Company declared as the lowest responsive bidder by the Committee and recommended for Sanction from Competent Authority.


(Muhammad Riaz)
Accounts Officer (E&M)
Member/Secretary


(Saif-ul-Haque)
Additional Director Internal
Audit - KMC Member


(Maqsood Ahmed Shaikh)
Superintending Engineer (KMC)
Member


(Zaheer Abbas Zaidi)
Chief Engineer (E&M)
Member


(Abdul Rahim Khattai)
Chief Engineer (IPD),
(Convener)

COMPARATIVE STATEMENT

**NAME OF WORK: REPAIRING / MAINTENANCE WORK OF 4500M3/H (25MGD) PUMP "B" AT HIGH LIFT PUMP HOUSE AT N.E.K
(P&F) K-II PLANT, KW&SB.**

| S.No | Description of Work | Engineer's Estimate | | M/s. HR Brothers | | M/s. Al-Hannan Builders | | M/s. Saim & Co. | | |
|------|--|---------------------|--------|------------------|-------|-------------------------|-------|-----------------|-------|--------|
| | | Quantity | Rate | Amount | Rate | Amount | Rate | Amount | Rate | Amount |
| 1 | Removal of Termination & Terminal box and isolated the 412KW Electric Motor from the Pump remove from base then dismantle the pump from foundation and de-bolting the equipment (i.e. discharge head 32/28" dia having 30+30 bolts off size in each flange, de-bolting & removal of universal shaft and pump casing, taken out the equipment from pump basement about 30 ft. on the floor of Machine Hall, then re-assembling the pump after Engineering servicing. Complete its termination after servicing & fixing of Terminal Box complete in all respect and as per direction of Engineer incharge. | 1 Job | 47,475 | 47,475 | 52000 | 52000 | 50000 | 50000 | 55000 | 55000 |
| 2 | Removal of Impeller from Pump shaft with the help of hydraulic pressure machine & oxygen acetylene flame & chemical treatment as per direction of Engineer incharge. | 1 Job | 16,275 | 16,275 | 17700 | 17700 | 18000 | 18000 | 20000 | 20000 |
| 3 | Reconditioning & balancing of UNIGLIDE type Impeller of weir pump by welding of worn-out wings used special organ welding with the help of Kansai Electrodes & machining and grinding to bring finished size without disturbing its original shape & balancing as per sample & direction of Engineer in charge. | 1 Job | 78,600 | 78,600 | 87000 | 87000 | 90000 | 90000 | 92000 | 92000 |
| 4 | Re-fixing of impeller in pump shaft with the help of hydraulic pressure machine and balancing with accurate centre. | 1 Job | 11,075 | 11,075 | 12000 | 12000 | 10000 | 10000 | 10100 | 10100 |
| 5 | Providing 20 x 20mm Teflon gland packing. | 10 Kg | 1,250 | 12,500 | 1400 | 14000 | 1500 | 15000 | 1525 | 15250 |


| S.No | Description of Work | Engineer's Estimate | | | M/s. HR Brothers | | M/s. Al-Hannan Builders | | M/s. Saim & Co. | |
|------|--|---------------------|---------|---------|------------------|--------|-------------------------|--------|-----------------|--------|
| | | Quantity | Rate | Amount | Rate | Amount | Rate | Amount | Rate | Amount |
| 6 | Providing Rubber flange gas kit size 4 x 1/8" thick, 2mm | 25 Kg | 220 | 5,500 | 200 | 5000 | 220 | 5500 | 250 | 6250 |
| 7 | Providing DADEX Joining solution. (Made in USA) | 1 Kg | 1,200 | 1,200 | 1400 | 1400 | 1500 | 1500 | 1550 | 1550 |
| 8 | Supply of Cotton Waste Bags (50Kgs. each) | 2 Bags | 1,800 | 3,600 | 2000 | 4000 | 2050 | 4100 | 2100 | 4200 |
| 9 | P/F 0.5mm Fiber Paper sheet (England made) having width 1 meter. | 4 Meter | 300 | 1,200 | 300 | 1200 | 500 | 2000 | 550 | 2200 |
| 10 | Providing of Bearing No.6318 BCG (SKF) with following Services :- i). Vibration Analysis Service Fee. ii). Dynamic Balancing Service Fee. iii). Service fee Laser Alignment / checking. iv). Service fee Bearing Mounting & dismantling. v). Transportation charges of all equipments vi).Weights / Shims charges. | 1 No | 57,330 | 57,330 | 64000 | 64000 | 70000 | 70000 | 70500 | 70500 |
| 11 | Removal of Pulley from Pump shaft with the help hydraulic pressure machine & oxygen acetylene flame as per direction of E/I. | 1 Job | 11,475 | 11,475 | 12300 | 12300 | 15000 | 15000 | 15750 | 15750 |
| 12 | Repairing & Reconditioning polishing of Bearing housing having size 1 st . 190mm 2 nd . 125mm taper depth 315mm complete in all respect as per direction of E/I. | 1 Job | 35,075 | 35,075 | 40000 | 40000 | 35000 | 35000 | 38000 | 38000 |
| 13 | Removal of Wear Ring & Neck ring from the Pump casing with the help of Hydraulic pressure machine and oxygen acetylene flame as direction of E/I. | 4 Nos | 11,475 | 45,900 | 13000 | 52000 | 14100 | 56400 | 14500 | 58000 |
| 14 | Mfg. of Wear Ring from Bronze metal (Imported) as per sample and direction of Engineer incharge. Size of Wear Ring: 600-550-100mm. & thickness 66mm. | 2 Nos | 120,632 | 241,264 | 135000 | 270000 | 140000 | 280000 | 141525 | 283050 |
| 15 | Fixing of Bronze made Neck & Wear ring. Size of Wear Ring: 600-550-100mm. Size of Neck Ring: 575-525-100mm. | 4 Nos | 11,325 | 45,300 | 12500 | 50000 | 13000 | 52000 | 12575 | 50300 |

| S.No | Description of Work | Engineer's Estimate | | | M/s. HR Brothers | | M/s. Al-Hannan Builders | | M/s. Saim & Co. | |
|------|---|---------------------|---------|---------|------------------|--------|-------------------------|--------|-----------------|--------|
| | | Quantity | Rate | Amount | Rate | Amount | Rate | Amount | Rate | Amount |
| 16 | Fixing of Bronze made Sleeve (upper side) in pump shaft with the help of Hydraulic pressure machine & oxygen acetylene flame as per direction of E/I. | 1 No | 11,325 | 11,325 | 12000 | 12000 | 10000 | 10000 | 12333 | 12333 |
| 17 | Removal of Bronze made Sleeve upper side with the help of Hydraulic pressure machine & oxygen acetylene flame as per direction of Engineer incharge | 1 No | 11,475 | 11,475 | 12500 | 12500 | 12000 | 12000 | 12595 | 12595 |
| 18 | Mfg. of Neck Ring with Bronze metal (Imported) as per sample & direction of Engineer incharge Size= O.D= 575mm, I.D=525mm, Thickness 100mm. | 2 Nos | 118,208 | 236,416 | 120000 | 240000 | 110000 | 220000 | 114000 | 228000 |
| 19 | Removal of Bronze made Sleeve Lower side with the help of Hydraulic pressure machine & oxygen acetylene flame as per direction of Engineer incharge | 1 No | 11,475 | 11,475 | 12500 | 12500 | 15000 | 15000 | 15321 | 15321 |
| 20 | Fixing of Bronze made Sleeve (Lower side) in Pump shaft fix with the help of Hydraulic pressure machine & oxygen acetylene flame as per direction of E/I. | 1 No | 11,325 | 11,325 | 13000 | 13000 | 14100 | 14100 | 14175 | 14175 |
| 21 | Mfg. of Pulley Collar type from Bronze metal (Imported) having size: L-175mm, OD=175mm, ID=150mm, Collar 10mm as per sample and direction of Engineer incharge. | 2 Nos | 35,495 | 70,990 | 40000 | 80000 | 50000 | 100000 | 50999 | 101998 |
| 22 | Removal of Bronze made Bush from shaft with the help of Hydraulic pressure machine & oxygen acetylene flame as per direction of Engineer incharge | 1 No | 11,475 | 11,475 | 13000 | 13000 | 15000 | 15000 | 15800 | 15800 |
| 23 | Mfg. of Shaft Bush from Bronze metal (Imported) as per sample and direction of Engineer incharge: having size: L-192mm, OD=140mm, ID=85mm, L-2 361mm, OD=125mm, ID=85mm | 2 Nos | 48,363 | 96,726 | 55000 | 110000 | 56500 | 113000 | 57800 | 115600 |
| 24 | Providing Nuts & Bolts i/c Plain & Spring washers. | 85 Kg | 250 | 21,250 | 240 | 20400 | 250 | 21250 | 258 | 21930 |

| S.No | Description of Work | Quantity | | Rate | | Amount | | Rate | | Amount | | | | | | | | |
|------|---|----------|--|--------|--|--------|--|-------|--|--------|--|-------|--|-------|--|-------|--|-------|
| | | | | | | | | | | | | | | | | | | |
| 25 | Fixing of Bronze made Bush in pump shaft with the help of Hydraulic pressure machine & oxygen acetylene flame size of Bush: L=134mm, 140mm, with 10mm collar 2 nd 125mm as per direction of E./I. | 1 No | | 11.325 | | 11.325 | | 12000 | | 12000 | | 15000 | | 15000 | | 15367 | | 15367 |
| 26 | Removal of Rubber Bearing (Spider Bush) from shaft with the help of Hydraulic pressure machine & oxygen acetylene flame as per direction of E./I. | 1 No | | 4.925 | | 4.925 | | 6000 | | 6000 | | 5000 | | 5000 | | 5555 | | 5555 |
| 27 | Mfg. of Spider Bush Rubber Bearing with Bronze body re-enforces with neuprem rubber as per sample Size L = 130mm, O.D. = 150mm, I.D. = 115mm as per direction of Engg. in charge. | 1 No | | 19.152 | | 19.152 | | 25000 | | 25000 | | 27500 | | 27500 | | 27525 | | 27525 |
| 28 | Fixing of Rubber Bearing (Spider Bush) on lower sleeve with the help of Hydraulic pressure machine. | 1 No | | 11.325 | | 11.325 | | 12500 | | 12500 | | 13000 | | 13000 | | 12500 | | 12500 |
| 29 | Local Mfg. of shaft protecting sleeve made by high carbon alloy steel (Imported) for 85mm dia solid shaft sleeve. Fix on shaft size L=305mm, O.D.=114mm, I.D.=85mm, with the help of hydraulic pressure machine after removing worn out sleeve, complete in all respect as per direction of Engineer in charge. | 1 Job | | 23.760 | | 23.760 | | 27500 | | 27500 | | 26000 | | 26000 | | 26125 | | 26125 |


| S.No | Description of Work | Engineer's Estimate | | | M/s. HR Brothers | | M/s. Al-Hannan Builders | | M/s. Salm & Co. | |
|------|---|---------------------|-----------|---------------------|------------------|---------------------|-------------------------|---------------------|-----------------|---------------------|
| | | Quantity | Rate | Amount | Rate | Amount | Rate | Amount | Rate | Amount |
| 30 | Repairing of Pitted surface and applying Corrosion protective coating at 25MGD (4500m ³ /h) Pump casing. <u>Detail of work is as under:</u> <ul style="list-style-type: none"> • Jet washing with potable water. • Power wash substrate using fresh water and allow corroding 10 Hour. • Remove all excess water & spent abrasive. • Fresh blast to previous standard. • Grinding work • Decantamination of blasted surface with Belzona 9111NF. • Re-building of eroded surface of pump casing with Belzona 1311 Ceramic R metal • Protective coating of Pump casing with Belzona 1341 super metal Glide. • Pin Hole inspection with pin hole detector. | 1 Job | 1,743,783 | 1,743,783 | 191,5000 | 191,5000 | 2E+06 | 1,945,000 | 1,962,500 | 1,962,500 |
| | Total Quoted / Corrected Cost | | | 2,910,496.00 | | 3,194,000.00 | | 3,256,350.00 | | 3,309,474.00 |
| | Say | | | 2,910,496 | | 3,194,000 | | 3,256,350 | | 3,309,474 |

(Muhammad Riaz) 
 Accounts Officer (E&M)
 Member/Secretary

(Saif-ul-Haque) 
 Additional Director
 Internal

(Magsood/Ahmed Shaikh) 
 Superintending Engineer (KMC)
 Member

(Zahoor Abbas Zaidi) 
 Chief Engineer (E&M)
 Member

(Abdul Rahim Khattai) 
 Chief Engineer (IPD),
 (Convener)

COMPARATIVE STATEMENT
NAME OF WORK: REPAIRING / MAINTENANCE WORK OF 01 NO. WEIR PUMP 660M³/H (35MGD) PUMP "A"
INSTALLED AT LW LIFT PUMP HOUSE AT N.E.K (P&F) K-II PLANT, KW&SB.

| S.No | Description of Work | Engineer's Estimate | | M/s. Malik & Company | | M/s. Kashif Engg. Works | | |
|------|--|---------------------|--------|----------------------|-------|-------------------------|-------|--------|
| | | Quantity | Rate | Amount | Rate | Amount | Rate | Amount |
| 1 | Removal of Termination & Terminal box isolated the 315KW Electric motor from Pump & remove from base then dismantle the Pump from foundation & de-bolting the equipments (i.e. Discharge head 34/28" dia having 30-30 bolts of sizes, in each flange, De-bolting and removal column pipe 28" dia 03Nos. having 30 Bolts of sizes in each flange. De-bolting de-fuser & removal of bell mouth etc.) Then re-assembling the Pump after Engineering Services, Complete its termination after Servicing & fixing of Terminal Box complete in all respect as per direction of Engineer in charge. | 1 Job | 55,938 | 55,938 | 61530 | 61530 | 64300 | 64300 |
| 2 | Removal of Bearing housing i/c Bearing No. H119236649 (Roller) with the help of hydraulic pressure machining & oxygen acetylene flame as per direction of Engineer in charge | 1 Job | 7,175 | 7,175 | 7890 | 7890 | 8250 | 8250 |
| 3 | Repairing & Re-conditioning, Polishing of Bearing housing having size 1", 62mm dia and 2 nd 31mm dia tapered depth 256mm complete in all respects & direction of E/I | 1 Job | 35,075 | 35,075 | 38580 | 38580 | 40330 | 40330 |
| 4 | Fixing of Roller Bearing No. H119236649 with the help of heat Engineering process as per direction of E/I | 1 Job | 4,900 | 4,900 | 5390 | 5390 | 5630 | 5630 |
| 5 | Removal of Impeller from Shaft with the help of hydraulic pressure machine & oxygen acetylene flame as per direction of Engineer in charge | 1 Job | 16,975 | 16,975 | 18670 | 18670 | 19520 | 19520 |
| 6 | Reconditioning & Balancing of vertical mixed flow type Impeller of Weir Pump CRIR69 by welding of worn-out wings used special organ welding with the help of Kansli electrodes and machining and grinding to bring finished size without disturbing its original shape & balancing as per sample & direction of Engineer in charge | 1 Job | 76,950 | 76,950 | 84670 | 84670 | 88940 | 88940 |
| 7 | Re-fixing of Impeller in Pump shaft with the help of hydraulic pressure machine (heavy duty) and balancing with accurate centre as per direction of Enger. in charge. | 1 Job | 11,075 | 11,075 | 12180 | 12180 | 12730 | 12730 |

**NAME OF WORK: REPAIRING / MAINTENANCE WORK OF 01 NO. WEIR PUMP 660M³/H (35MGD) PUMP "A"
 INSTALLED AT LW LIFT PUMP HOUSE AT N.E.K (P&F) K-II PLANT, KW&SB.**

| S.No | Description of Work | Engineer's Estimate | | | M/s. Malik & Company | | M/s. Kashif Engg. Works | |
|------|---|---------------------|--------|--------|----------------------|--------|-------------------------|--------|
| | | Quantity | Rate | Amount | Rate | Amount | Rate | Amount |
| 8 | Mfg. & Providing S.S Sleeve as per sample Size = 80x70x140mm & as per direction of Enggr. in charge. | 3 Nos | 4,686 | 14,058 | 5153 | 15459 | 5389 | 16167 |
| 9 | Mfg. & Providing S.S Sleeve as per sample 80x70x200mm & as per direction of Engineer in charge. | 1 No | 6,369 | 6,369 | 7000 | 7000 | 7320 | 7320 |
| 10 | Mfg. & Providing S.S Sleeve as per sample 80x70x235mm & as per direction of Engineer in charge. | 1 No | 7,342 | 7,342 | 8070 | 8070 | 8440 | 8440 |
| 11 | Mfg. & Providing M.S. Sleeve as per sample 80x70x340mm & as per direction of Engineer in charge. | 3 Nos | 3,349 | 10,047 | 3684 | 11052 | 3850 | 11550 |
| 12 | Removal of Sleeve with the help of hydraulic pressure machine (Heavy duty) & oxygen acetylene flame as per direction of Engineer in charge. | 8 Nos | 11,562 | 92,496 | 12718 | 101744 | 13296 | 106368 |
| 13 | Fixing of Sleeve in Pump shaft by heat Engineering process as per direction of Engineer in charge. | 8 Nos | 4,900 | 39,200 | 5390 | 43120 | 5635 | 45080 |
| 14 | Mfg. & Providing M.S. Lock key as per sample Size=150x20x12mm as per direction of Enggr. in charge. | 6 Nos | 771 | 4,626 | 848 | 5088 | 886 | 5316 |
| 15 | Mfg. & Providing Spider bush Rubber bearing with gun metal steel body re-reinforced with Neuprem rubber as per sample & direction of Engineer in charge. Size = 100x80x160mm. | 1 No | 12,011 | 12,011 | 13210 | 13210 | 13800 | 13800 |
| 16 | Mfg. & Providing Spider bush Rubber bearing with rubber as per sample & direction of Engineer in charge. Size = 100x80x120mm. | 3 Nos | 10,217 | 30,651 | 11239 | 33717 | 11749 | 35247 |
| 17 | Removal of Rubber Bearing (Spider Bush) from housing with the help of Hydraulic pressure machine (heavy duty) & oxygen acetylene flame as per direction of E/I. | 4 Nos | 7,175 | 28,700 | 7892 | 31568 | 8250 | 33000 |
| 18 | Fixing of Rubber Bearing (Spider bush) in housing by heat Engineering process as per direction of E/I. | 4 Nos | 4,900 | 19,600 | 5390 | 21560 | 5635 | 22540 |
| 19 | Mfg. & Providing Stud / Bolts as per sample and direction of E/I. | 3 Kgs | 725 | 2,175 | 797 | 2391 | 833 | 2499 |

**NAME OF WORK: REPAIRING / MAINTENANCE WORK OF 01 NO. WEIR PUMP 660M³/H (35MGD) PUMP "A"
 INSTALLED AT LW LIFT PUMP HOUSE AT N.E.K (P&F) K-II PLANT, KW&SB.**

| S.No | Description of Work | Engineer's Estimate | | | M/s. Malik & Company | | M/s. Kashif Engg. Works | |
|------|--|---------------------|---------|---------|----------------------|--------|-------------------------|--------|
| | | Quantity | Rate | Amount | Rate | Amount | Rate | Amount |
| 20 | Mfg. of S.S. Neck ring having size 540 x 520 x 53mm for weir pump as per sample & direction of Engg. Incharge. | 1 No | 17,746 | 17,746 | 19520 | 19520 | 20400 | 20400 |
| 21 | Removal of S.S. Neck Ring from defuser housing with the help of Hydraulic pressure machine as per direction of E./I. | 1 Job | 11,562 | 11,562 | 12720 | 12720 | 13290 | 13290 |
| 22 | Fixing of S.S. Neck ring in the defuser housing by Heat Engineering process. | 1 Job | 4,900 | 4,900 | 5390 | 5390 | 5630 | 5630 |
| 23 | Providing 20 x 20mm Teflon gland packing. | 5 Kgs | 1,250 | 6,250 | 1375 | 6875 | 1437 | 7185 |
| 24 | Providing Rubber Flange Gas kit. Size= 4x1/8" thick, 2mm. | 25 Kgs | 220 | 5,500 | 242 | 6050 | 250 | 6250 |
| 25 | P/F 0.5mm Fiber Paper sheet (Imported), having width 1 meter. | 4 Meters | 300 | 1,200 | 330 | 1320 | 345 | 1380 |
| 26 | Providing Cotton waste Bags (50Kgs.) | 100 Lbs | 60 | 6,000 | 66 | 6600 | 69 | 6900 |
| 27 | Providing of Nuts & Bolts i/c Plain & Spring washers. | 85 Kgs | 250 | 21,250 | 275 | 23375 | 287 | 24395 |
| 28 | Providing USA Made Dadex joining solution. | 1 Kg | 1,200 | 1,200 | 1320 | 1320 | 1380 | 1380 |
| 29 | Repairing & Corrosion protective coating in the defuser in lift water transfer Weir Pump with BELAZONA polymeric material (Imported) and as per direction of Engineer Incharge. Detail of Work is as under :- ▶ Washing with potable water. ▶ Surface preparation with grit blasting as per SA1-1/2 Standard. ▶ Decontamination of Blasted surface with Belzona 9111F ▶ Re-building of pitted and damaged portion with Belzona 1311. ▶ Grinding work. ▶ Corrosion Protective food grade Belzona 1341 coating on the resurface areas of the defuser. ▶ Apply a thin layer of Belzona 9411 where Belzona materials should not adhere. | 1 Job | 396,446 | 396,446 | 436090 | 436090 | 455900 | 455900 |

**NAME OF WORK: REPAIRING / MAINTENANCE WORK OF 01 NO. WEIR PUMP 660M³/H (35MGD) PUMP "A"
 INSTALLED AT LW LIFT PUMP HOUSE AT N.E.K (P&F) K-II PLANT, KW&SB.**

| S.No | Description of Work | Engineer's Estimate | | M/s. Malik & Company | | M/s. Kashif Engg. Works | | |
|--|--|---------------------|---------|----------------------|--------|-------------------------|--------|--------|
| | | Quantity | Rate | Amount | Rate | Amount | Rate | Amount |
| 30 | Repairing of pitted surface and corrosion protective coating of Suction casing and Pump shafts of Weir Pump 6660m ³ /h (35MGD). <u>Size of Suction casing is as under :</u> (for One Pump). Length: 2300mm Dia: 920mm = 02Nos. Length: 1759mm Dia: 920mm = 01No. Length: 1370mm Dia: 920mm = 01No. Total : 04Nos. Pipes <u>Size of Shafts is as under :</u> (for One Pump). Length: 1600mm Dia: 70mm = 01No. Length: 2340mm Dia: 70mm = 02Nos. Length: 2340mm Dia: 70mm = 01No. Total : 04Nos. Shafts. <u>Scope of work are as under:-</u> 1. Washing with potable water. 2. Surface preparation with grit blasting as per SA-1-1/2 Standard. 3. Decontamination of blasted surface with Belzona 9111F. 4. Re-building of pitted and damaged portion with Belzona 1311. 5. Grinding work. 6. Corrosion protective food grade Belzona 1341 coating on the resurface areas of the shafts & internal pipes suction of Pump. 7. Apply a thin layer of Belzona 9411 where Belzona materials should not adhere during application. | 1 Job | 838,870 | 838,870 | 922760 | 922760 | 964700 | 964700 |
| Area. 1. Suction Pipe of Pump = 23m ² 2. Shafts = 20m ² Complete in all respect and as per direction of Engineer incharge. | | | | | | | | |

**NAME OF WORK: REPAIRING / MAINTENANCE WORK OF 01 NO. WEIR PUMP 660M³/H (35MGD) PUMP "A"
 INSTALLED AT LW LIFT PUMP HOUSE AT N.E.K (P&F) K-II PLANT, KW&SB.**

| S.No | Description of Work | Engineer's Estimate | | M/s. Malik & Company | | M/s. Kashif Engg. Works | | |
|--------------------------------------|--|---------------------|-----------|----------------------|-----------|-------------------------|-----------|--------------|
| | | Quantity | Rate | Amount | Rate | Amount | Rate | Amount |
| 31 | Complete Fabrication & Fixing of Sleeve in Suction Bell Mouth re-enforcement bell body and erosion corrosion protective coating of BELZONA product for rebuilding, coating and fixing of sleeve in suction Bell Mouth of 6660m ³ (35MGD) Weir Pump at Low lift Pump House K-II Plant and as per direction of E incharge. Scope of work is as under:- ▶ Fabrication of New Sleeve ▶ Removal of Old fractured and badly damaged Sleeve ▶ Machining of work in suction Bell Mouth ▶ Grit Blasting for surface preparation ▶ Decantamination of blasted surface with Belzona 9111NF ▶ Re-Building of pitted / eroded surfaces of suction bell mouth with Belzona 1311 ▶ Fixing of Sleeve with Belzona material ▶ Machining work for sizing. ▶ Grit Blasting after fixing of sleeve for surface preparation. ▶ Belzona 1341 food grade erosion and corrosion protective coating | 1 Job | 1,388,512 | 1,388,512 | 1,52,4070 | 1,52,4070 | 1,59,3132 | 1,59,3132 |
| Total Quoted / Corrected Cost | | | | 3,171,799.00 | | 3,488,979.00 | | 3,647,569.00 |
| Sav | | | | 3,171,799 | | 3,488,979 | | 3,647,569 |

(Muhammad Riaz)
 Accounts Officer (E&M)
 Member/Secretary

(Saif-ul-Haque)
 Additional Director Internal
 Audit - KMC Member

(Maqsood Ahmed Shaikh)
 Superintending Engineer (KMC)
 Member

(Zaheer Abbas Zaidi)
 Chief Engineer (E&M)

(Abdul Rahim Khattai)
 Chief Engineer (FPD), (Convener)

Member

COMPARATIVE STATEMENT
NAME OF WORK: REPAIRING / MAINTENANCE WORK OF 6660M3H (35MGD) PUMP SET "C" AT LOW LIFT PUMP
HOUSE AT N.E.K. (P&F) K-II PLANT, KW&SB.

| S.No | Description of Work | Engineer's Estimate | | M/s. HR Brothers | | M/s. Al-Hannan Builders | | |
|------|---|---------------------|--------|------------------|-------|-------------------------|-------|--------|
| | | Quantity | Rate | Amount | Rate | Amount | Rate | Amount |
| 1 | Removal of Termination & Terminal box isolated the 315KW Electric motor from Pump & remove from base then dismantle the Pump from foundation & de-bolling the equipments (i.e Discharge head 34'28" dia having 30x30 bolts off sizes, in each flange, De-bolling and removed column pipe 28" dia 03Nos having 30 Bolts off sizes in each flange De-bolling de-fuse & removal of bell mouth etc.) Then re-assembling the Pump after Engineering Services, Complete its termination after Servicing & fixing of Terminal Box complete in all respect as per direction of Engineer in charge w/c Transportation, Loading, Un-loading from site to Workshop and back Workshop to site | 1 Job | 55,938 | 55,938 | 60000 | 60000 | 58000 | 58000 |
| 2 | Removal of Bearing housing w/c Bearing No 11119236649 (Roller) with the help of hydraulic pressure machining & oxygen acetylene flame as per direction of Engineer in charge | 1 Job | 7,175 | 7,175 | 8000 | 8000 | 8750 | 8750 |
| 3 | Repairing & Re-conditioning, polishing of Bearing housing having size 1" dia 62mm and 2" dia 31mm tapered depth 256mm complete in all respects & direction of E/I | 1 Job | 35,075 | 35,075 | 36000 | 36000 | 37110 | 37110 |
| 4 | Fixing of Roller Bearing No 11119236649 with the help of heat Engineering process as per direction of E/I | 1 Job | 4,900 | 4,900 | 5500 | 5500 | 6000 | 6000 |
| 5 | Removal of Impeller from Shaft with the help of hydraulic pressure machine & oxygen acetylene flame as per direction of Engineer incharge | 1 Job | 16,975 | 16,975 | 18600 | 18600 | 18750 | 18750 |
| 6 | Reconditioning & Balancing of vertical mixed flow type Impeller of Weir Pump CR1869 by welding of worn-out wings used special organ welding with the help of Kansai electrodes and machining and grinding to bring finished size without disturbing its original shape & balancing as per sample & direction of Engr in charge | 1 Job | 76,950 | 76,950 | 84000 | 84000 | 80000 | 80000 |
| 7 | Re-fixing of impeller in pump shaft with the help of hydraulic pressure machine (heavy duty) and balancing with accurate centre as per direction of Engr in charge | 1 Job | 11,075 | 11,075 | 13000 | 13000 | 15000 | 15000 |

NAME OF WORK: REPAIRING / MAINTENANCE WORK OF 6660M³/H (35MGD) PUMP SET "C" AT LOW LIFT PUMP HOUSE AT N.E.K. (P&F) K-II PLANT, KW&SB.

| S.No | Description of Work | Engineer's Estimate | | | M/s. HR Brothers | | M/s. Al-Hannan Builders | |
|------|---|---------------------|--------|--------|------------------|--------|-------------------------|--------|
| | | Quantity | Rate | Amount | Rate | Amount | Rate | Amount |
| 8 | Mig & Providing S.S Sleeve as per sample Size - 80x70x140mm & as per direction of Engr. in charge. | 3 Nos | 4,896 | 14,058 | 5000 | 15000 | 4750 | 14250 |
| 9 | Mig & Providing S.S Sleeve as per sample 80x70x200mm & as per direction of Engr. in charge. | 1 No | 6,369 | 6,369 | 7000 | 7000 | 9000 | 9000 |
| 10 | Mig & Providing S.S Sleeve as per sample 80x70x235mm & as per direction of Engr. in charge. | 1 No | 7,342 | 7,342 | 9000 | 9000 | 10000 | 10000 |
| 11 | Mig & Providing M.S. Sleeve as per sample 80x70x140mm & as per direction of Engr. in charge. | 3 Nos | 3,349 | 10,047 | 4500 | 13500 | 5000 | 15000 |
| 12 | Removal of Sleeve with the help of hydraulic pressure machine (Heavy duty) & oxygen acetylene flame as per direction of E/I | 8 Nos | 11,562 | 92,496 | 13000 | 104000 | 12500 | 100000 |
| 13 | Fixing of Sleeve in Pump shaft by heat Engineering process as per direction of E/I | 8 Nos | 4,900 | 39,200 | 5600 | 44800 | 6500 | 52000 |
| 14 | Mig & Providing M.S. Lock key as per sample Size -150x20x12mm as per direction of Engr. in charge. | 6 Nos | 771 | 4,626 | 1000 | 6000 | 1200 | 7200 |
| 15 | Mig & Providing Spider bush Rubber bearing with gun metal steel body re-enforced with neupren rubber as per sample & direction of Engr. in charge. Size - 100x80x160mm. | 1 No | 12,011 | 12,011 | 14000 | 14000 | 15000 | 15000 |
| 16 | Mig & Providing Spider bush Rubber bearing with gun metal steel body re-enforced with neupren rubber as per sample & direction of Engr. in charge. Size -100x80x120mm | 3 Nos | 10,217 | 30,651 | 11500 | 34500 | 11998 | 35994 |
| 17 | Removal of Rubber bearing (Spider Bush) from housing with the help of Hydraulic pressure machine (heavy duty) & oxygen acetylene flame as per direction of E/I | 4 Nos | 7,175 | 28,700 | 8000 | 32000 | 7500 | 30000 |

NAME OF WORK: REPAIRING / MAINTENANCE WORK OF 6660M3M (35MGD) PUMP SET "C" AT LOW LIFT PUMP HOUSE AT N.E.K. (P&F) K-II PLANT, KW&SB.

| S.No | Description of Work | Engineer's Estimate | | | M/s. HR Brothers | | M/s. Al-Hannan Builders | |
|------|--|---------------------|---------|---------|------------------|--------|-------------------------|--------|
| | | Quantity | Rate | Amount | Rate | Amount | Rate | Amount |
| 18 | Fixing of Rubber Bearing (Spider bush) in housing by heat Engineering process as per direction of E/I. | 4 Nos | 4,900 | 19,600 | 6000 | 24000 | 7500 | 30000 |
| 19 | Mfg. & Providing Stud / Bolts as per sample and direction of E / I | 3 Kg | 725 | 2,175 | 600 | 1800 | 500 | 1500 |
| 20 | Mfg of S.S. Neck ring having size 540 x 520 x 53mm for wear pump as per sample & direction of Engg incharge | 1 No | 17,748 | 17,748 | 20000 | 20000 | 26000 | 26000 |
| 21 | Removal of S.S. Neck Ring from defuser housing with the help of Hydraulic pressure machine as per direction of E / I | 1 Job | 11,562 | 11,562 | 13000 | 13000 | 12975 | 12975 |
| 22 | Fixing of S.S. Neck ring in the defuser housing by Heat Engineering process | 1 Job | 4,900 | 4,900 | 5400 | 5400 | 6000 | 6000 |
| 23 | Providing 20 x 20mm Teflon gland packing | 5 Kg | 1,250 | 6,250 | 1400 | 7000 | 1500 | 7500 |
| 24 | Providing Rubber flange (as per size) 4x1/8" thick, 2mm | 25 Kg | 220 | 5,500 | 232 | 5800 | 250 | 6250 |
| 25 | 1/2" 0.5mm Fiber Paper sheet (Imported), having width 1 meter | 4 Meter | 300 | 1,200 | 400 | 1600 | 500 | 2000 |
| 26 | Providing Cotton waste Bags (50Kgs.) | 100 Lbs | 60 | 6,000 | 45 | 4500 | 50 | 5000 |
| 27 | Providing of Nuts & Bolts w/c Plain & Spring washers | 85 Kg | 250 | 21,250 | 200 | 17000 | 210 | 17850 |
| 28 | Providing USA Made Dualex jointing solution. | 1 Kg | 1,200 | 1,200 | 2000 | 2000 | 1950 | 1950 |
| 29 | Repairing & Corrosion protective coating in the defuser in lift water transfer Weir Pump with BELAZONA polymeric material (Imported) and as per direction of Engineer incharge. Detail of Work is as under :- <ul style="list-style-type: none"> ▶ Washing with potable water. ▶ Surface preparation with grit blasting as per SA1-1/2 Standard. ▶ Decantamination of Blasted surface with Belzona 911F ▶ Re-building of pitted and damaged portion with Belzona 1311. ▶ Grinding work ▶ Corrosion Protective food grade Belzona 1341 coating on the resurface areas of the defuser. ▶ Apply a thin layer of Belzona 9411 where Belzona materials should not adhere. | 1 Job | 480,000 | 480,000 | 550000 | 550000 | 565000 | 565000 |

NAME OF WORK: REPAIRING / MAINTENANCE WORK OF 6660M³/H (35MGD) PUMP SET "C" AT LOW LIFT PUMP HOUSE AT N.E.K. (P&F) K-II PLANT, KW&SB.

| S.No | Description of Work | Engineer's Estimate | | M/s. HR Brothers | | M/s. Al-Hannan Builders | | |
|------|---|---------------------|---------|------------------|---------|-------------------------|---------|---------|
| | | Quantity | Rate | Amount | Rate | Amount | Rate | Amount |
| 30 | <p>Repairing of pitted surface and corrosion protective coating of Suction casing and Pump shafts of Weir Pump 6660m³/h (35MGD)</p> <p><u>Size of Suction casing is as under: (for One Pump)</u></p> <p>Length: 2300mm Dia: 920mm = 02Nos. Length: 1759mm Dia: 920mm = 01No. Length: 1370mm Dia: 920mm = 01No. Total: 04Nos. Pipes</p> <p><u>Size of Shafts is as under: (for One Pump)</u></p> <p>Length: 1600mm Dia: 70mm = 01No. Length: 2340mm Dia: 70mm = 02Nos. Length: 2340mm Dia: 70mm = 01No. Total: 04Nos. Shafts.</p> <p><u>Scope of work ACC as under:</u></p> <ul style="list-style-type: none"> ▶ Washing with potable water ▶ Surface preparation with grit blasting as per SA-1-1/2 Standard ▶ Decantamination of blasted surface with Helzema 9111F ▶ Re-building of pitted and damaged portion with Helzema 1311 ▶ Grinding work ▶ Corrosion protective food grade Helzema 1341 coating on the resurface areas of the shafts & internal pipes suction of Pump ▶ Apply a thin layer of Helzema 9411 where Helzema materials should not adhere during application <p><u>Area.</u></p> <p>1. Suction Pipe of Pump = 2.3m² 2. Shafts = 20m² Complete in all respect and as per direction of Engineer incharge</p> | 1 Job | 972,000 | 972,000 | 1050000 | 1050000 | 1042000 | 1042000 |

NAME OF WORK: REPAIRING / MAINTENANCE WORK OF 6660M³H (35MGD) PUMP SET "C" AT LOW LIFT PUMP HOUSE AT N.E.K. (P&F) K-II PLANT, KW&SB.

| S.No | Description of Work | Engineer's Estimate | | M/s. HR Brothers | | M/s. Al-Hannan Builders | | |
|-------------------------------|--|---------------------|-----------|------------------|--------------|-------------------------|-----------|---------|
| | | Quantity | Rate | Amount | Rate | Amount | Rate | Amount |
| 31 | <p>Complete Fabrication & Fixing of Sleeve in Suction Bell Mouth re-enforcement bell body and erosion / corrosion protective coating of BELZONA product for rebuilding, coating and fixing of sleeve in suction Bell Mouth of 6660m³ (35MGD) Weir Pump at Low lift Pump House K-II Plant and as per direction of Engineer incharge.</p> <p>Scope of work is as under:-</p> <ul style="list-style-type: none"> ▶ Fabrication of New Sleeve ▶ Removal of Old fractured and badly damaged Sleeve ▶ Machining of work in suction Bell Mouth ▶ Grit Blasting for surface preparation ▶ Decontamination of blasted surface with Belzona 9111NF ▶ Re-Building of pitted / eroded surfaces of suction bell mouth with Belzona 1311 ▶ Fixing of Sleeve with Belzona material ▶ Machining work for sizing. ▶ Grit Blasting after fixing of sleeve for surface preparation ▶ Belzona 1341 food grade crown and corrosion protective coating. | 1 Job | 1,509,375 | 1,509,375 | 1650000 | 1650000 | 1660000 | 1660000 |
| Total Quoted / Corrected Cost | | | | 3,612,346.00 | 3,687,000.00 | 3,890,109.00 | 3,890,109 | |
| Say | | | | 3,612,346 | 3,687,000 | 3,890,109 | 3,890,109 | |

(Muhammad Rizwan)
Accounts Officer (E&M)
Member/Secretary

(Saif-ur-Haque)
Additional Director Internal
Audit - KMC Member

(Mansoor Ahmed Shaikh)
Superintending Engineer (KMC)
Member

(Zahoor Abbas Zaidi)
Chief Engineer (E&M)
Member

(Abdul Rahim-Khatti)
Chief Engineer (IPD), (Convener)