



# STANDARD BIDDING DOCUMENT

**PROCUREMENT OF WORKS**  
(For Contracts Costing up to Rs.2.5 Million)

( Press Tender )

(S. No.1)

Name of work: - ENGINEERING SERVICES (MECH. & ELECT.) OF SET NO.5 KSB PUMP TYPE (SNW 600-720) INSTALLED AT K-III PUMP HOUSE, N.E.K.

-: Name of Office :-

**NORTH EAST KARACHI  
(Pumping & Filter) K-II Division**

NEK 100 MGD Pump Houses & Filter Plant, Saadi Town, Scheme-33,

Distt: Malir

Resident Engineer, Contact # 0333-3049232

## **Instructions to Bidders/ Procuring Agencies.**

### **General Rules and Directions for the Guidance of Contractors.**

This section of the bidding documents should provide the information necessary for bidders to prepare responsive bids, in accordance with the requirements of the Procuring Agency. It should also give information on bid submission, opening and evaluation, and on the award of contract.

Matters governing the performance of the Contract or payments under the Contract, or matters affecting the risks, rights, and obligations of the parties under the Contract are included as Conditions of Contract and *Contract Data*.

The *Instructions to Bidders* will not be part of the Contract and will cease to have effect once the contract is signed.

1. All work proposed to be executed by contract shall be notified in a form of Notice Inviting Tender (NIT)/Invitation for Bid (IFB) hoisted on website of Authority and Procuring Agency and also in printed media where ever required as per rules.

NIT must state the description of the work, dates, time and place of issuing, submission, opening of bids, completion time, cost of bidding document and bid security either in lump sum or percentage of Estimated Cost/Bid Cost. The interested bidder must have valid NTN also.

2. Content of Bidding Documents must include but not limited to: Conditions of contract, Contract Data, specifications or its reference, Bill of Quantities containing description of items with scheduled/item rates with premium to be filled in form of percentage above/ below or on item rates to be quoted, Form of Agreement and drawings.

3. **Fixed Price Contracts:** The Bid prices and rates are fixed during currency of contract and under no circumstance shall any contractor be entitled to claim enhanced rates for any item in this contract.

4. The Procuring Agency shall have right of rejecting all or any of the tenders as per provisions of SPP Rules 2010.

5. **Conditional Offer:** Any person who submits a tender shall fill up the usual printed form stating at what percentage above or below on the rates specified in Bill of Quantities for items of work to be carried out: he is willing to undertake the work and also quote the rates for those items which are based on market rates. Only one rate of such percentage, on all the Scheduled Rates shall be framed. Tenders, which propose any alternative in the works specified in the said form of invitation to tender or in the time


allowed for carrying out the work, or which contain any other conditions, will be liable to rejection. No printed form of tender shall include a tender for more than one work, but if contractor wish to tender for two or more works, they shall submit a separate tender for each.

The envelope containing the tender documents shall refer the name and number of the work

6. All works shall be measured by standard instruments according to the rules.
7. Bidders shall provide evidence of their eligibility as and when requested by the Procuring Agency.
8. Any bid received by the Agency after the deadline for submission of bids shall be rejected and returned unopened to the bidder.
9. Prior to the detailed evaluation of bids, the Procuring Agency will determine whether the bidder fulfills all codal requirements of eligibility criteria given in the tender notice such as registration with tax authorities, registration with PEC (where applicable), turnover statement, experience statement, and any other condition mentioned in the NIT and bidding document. If the bidder does not fulfill any of these conditions, it shall not be evaluated further.
10. Bid without bid security of required amount and prescribed form shall be rejected.
11. Bids determined to be substantially responsive shall be checked for any arithmetic errors. Arithmetical errors shall be rectified on the following basis:
  - (A) In case of schedule rates, the amount of percentage quoted above or below will be checked and added or subtracted from amount of bill of quantities to arrive the final bid cost.
  - (B) In case of item rates, If there is a discrepancy between the unit rate and the total cost that is obtained by multiplying the unit rate and quantity, the unit rate shall prevail and the total cost will be corrected unless in the opinion of the Agency there is an obvious misplacement of the decimal point in the unit rate, in which case the total cost as quoted will govern and the unit rate corrected. If there is a discrepancy between the total bid amount and the sum of total costs, the sum of the total costs shall prevail and the total bid amount shall be corrected.
  - (C) Where there is a discrepancy between the amounts in figures and in words, the amount in words will govern.

# BIDDING DATA

- (a). Name of Procuring Agency: North East Karachi (Pumping & Filter) K-II Division, KW&SB
- (b). Brief Description of Work: ENGINEERING SERVICES (MECH. & ELECT.) OF SET NO.5 KSB PUMP TYPE (SNW 600-720) INSTALLED AT K-III PUMP HOUSE, N.E.K.
- (c). Procuring Agency Address: NEK 100MGD Pump Houses, Saadi Town, Scheme-33, Distt: Malir
- (d). Estimate Cost (On Item rate basis).
- (e). Amount of Bid Security : 02% of Bid amount.
- (f). Period of Bid validity : 90 Days.
- (g). Security Deposit (including Bid Security) : 10%
- (h). Venue, Time and Date of Bid Opening : The Tender in sealed cover superscribed with the name of the work should be dropped in the Tender Box kept in office of the Chief Engineer (IP&D), Room No.5 at Block "E", 9<sup>th</sup> Mile, Karsaz, Karachi on \_\_\_/\_\_\_/2015 at 02.30 PM by Tender Opening Committee-I, KW&SB.
- (i). Deadline for submission of Bid along with time. : \_\_\_/\_\_\_/2015 at 2:00 PM.
- (j). Time for completion from From written order commence: 15 Days
- (k). Liquidity damage : 0.5% of Bid Cost per day of delay
- (l). Bid issued to Firm : M/s. \_\_\_\_\_
- (m). Deposit Receipt No.& Date: \_\_\_\_\_  
Amount: : Rs.2,500/=

  
**Khair Muhammad Soomro**  
Resident Engineer  
N.E.K. (P&F) K.II.III,  
KW&SB

Authority issuing bidding Document

### Conditions of Contract

**Clause – 1: Commencement & Completion Dates of work.** The contractor shall not enter upon or commence any portion or work except with the written authority and instructions of the Engineer-in-charge or of in subordinate-in-charge of the work. Failing such authority the contractor shall have no claim to ask for measurements of or payment for work.

The contractor shall proceed with the works with due expedition and without delay and complete the works in the time allowed for carrying out the work as entered in the tender shall be strictly observed by the contractor and shall reckoned from the date on which the order to commence work is given to the contractor. And further to ensure good progress during the execution of the work, contractor shall be bound, in all in which the time allowed for completion of any work exceeds one month, to achieve progress on the prorated basis.

**Clause – 2: Liquidated Damages.** The contractor shall pay liquidated damages to the Agency at the rate per day stated in the bidding data for each day that the completion date is later than the Intended completion date; the amount of liquidated damage paid by the contractor to the Agency shall not exceed 10 per cent of the contract price. Agency may deduct liquidated damages from payments due to the contractor. Payment of liquidated damages does not affect the contractor's liabilities.

### **Clause – 3: Termination of the Contract.**

- (A) Procuring Agency/Executive Engineer may terminate the contract if either of the following conditions exists:-
- (i) contractor causes a breach of any clause of the Contract;
  - (ii) the progress of any particular portion of the work is unsatisfactory and notice of 10 days has expired;
  - (iii) in the case of abandonment of the work owing to the serious illness or death of the contractor or any other cause.
  - (iv) contractor can also request for termination of contract if a payment certified by the Engineer is not paid to the contractor within 60 days of the date of the submission of the bill;
- (B) The Executive Engineer/Procuring Agency has power to adopt any of the following courses as may deem fit:-
- (i) to forfeit the security deposit available except conditions mentioned at A (iii) and (iv) above;
  - (ii) to finalize the work by measuring the work done by the contractor.

(C) In the event of any of the above courses being adopted by the Executive Engineer/Procuring Agency, the contractor shall have:-

- (i) no claim to compensation for any loss sustained by him by reason of his having purchased or procured any materials, or entered into any engagements, or made any advances on account of, or with a view to the execution of the work or the performance of the contract,
- (ii) however, the contractor can claim for the work done at site duly certified by the executive engineer in writing regarding the performance of such work and has not been paid.

Procuring Agency/Engineer may invite fresh bids for remaining work.

**Clause 4: Possession of the site and claims for compensation for delay.** The Engineer shall give possession of all parts of the site to the contractor. If possession of site is not given by the date stated in the contract data, no compensation shall be allowed for any delay caused in starting of the work on account of any acquisition of land, water standing in borrow pits/ compartments or in according sanction to estimates. In such case, either date of commencement will be changed or period of completion is to be extended accordingly.

**Clause -5: Extension of Intended Completion Date.** The Procuring Agency either at its own initiatives before the date of completion or on desire of the contractor may extend the intended completion date, if an event (which hinders the execution of contract) occurs or a variation order is issued which makes it impossible to complete the work by the intended completion date for such period as he may think necessary or proper. The decision of the Executive Engineer in this matter shall be final; where time has been extended under this or any other clause of this agreement, the date for completion of the work shall be the date fixed by the order giving the extension or by the aggregate of all such orders, made under this agreement.

When time has been extended as aforesaid, it shall continue to be the essence of the contract and all clauses of the contract shall continue to be operative during the extended period.

**Clause -6: Specifications.** The contractor shall execute the whole and every part of the work in the most substantial and work-man-like manner and both as regards materials and all other matters in strict accordance with the specifications lodged in the office of the Executive Engineer and initialed by the parties, the said specification being a part of the contract. The contractor shall also confirm exactly, fully and faithfully to the designs, drawing, and instructions in writing relating to the work signed by the Engineer-in-charge and lodge in his office and to which the contractor shall be entitled to have access at such office or on the site of work for the purpose of inspection during office hours and the contractor shall, if he so requires, be entitled at his own expense to make or cause to be made copies of the specifications, and of all such designs, drawings, and instructions as aforesaid.

**Clause – 7: Payments.**

- (A) **Interim/Running Bill.** A bill shall be submitted by the contractor as frequently as the progress of the work may justify for all work executed and not included in any previous bill at least once in a month and the Engineer-in-charge shall take or cause to be taken the requisite measurements for the purpose of having the same verified and the claim, as far as admissible, adjusted, if possible before the expiry of ten days from the presentation of the bill, at any time depute a subordinate to measure up the said work in the presence of the contractor or his authorized agent, whose countersignature to the measurement list will be sufficient to warrant and the Engineer-in-charge may prepare a bill from such list which shall be binding on the contractor in all respects.

The Engineer /Procuring Agency shall pass/certify the amount to be paid to the contractor, which he considers due and payable in respect thereof, subject to deduction of security deposit, advance payment if any made to him and taxes.

All such intermediate payment shall be regarded as payments by way of advance against the final payment only and not as payments for work actually done and completed, and shall not preclude the Engineer-in-charge from recoveries from final bill and rectification of defects and unsatisfactory items of works pointed out to him during defect liability period.

- (B) **The Final Bill.** A bill shall be submitted by the contractor within one month of the date fixed for the completion of the work otherwise Engineer-in-charge's certificate of the measurements and of the total amount payable for the works shall be final and binding on all parties.

**Clause – 8: Reduced Rates.** In cases where the items of work are not accepted as so completed, the Engineer-in-charge may make payment on account of such items at such reduced rates as he may consider reasonable in the preparation of final or on running account bills with reasons recorded in writing.

**Clause – 9: Issuance of Variation and Repeat Orders.**

- (A) Agency may issue a Variation Order for procurement of works, physical services from the original contractor to cover any increase or decrease in quantities, including the introduction of new work items that are either due to change of plans, design or alignment to suit actual field conditions, within the general scope and physical boundaries of the contract.
- (B) Contractor shall not perform a variation until the Procuring Agency has authorized the variation in writing subject to the limit not exceeding the contract cost by of 15% on the same conditions in all respects on which he agreed to do them in the

work, and at the same rates, as are specified in the tender for the main work. The contractor has no right to claim for compensation by reason of alterations or curtailment of the work.

- (C) In case the nature of the work in the variation does not correspond with items in the Bill of Quantities, the quotation by the contractor is to be in the form of new rates for the relevant items of work, and if the Engineer-in-charge is satisfied that the rate quoted is within the rate worked out by him on detailed rate analysis, and then only he shall allow him that rate after approval from higher authority.
- (D) The time for the completion of the work shall be extended in the proportion that the additional work bear to the original contract work.
- (E) In case of quantities of work executed result the Initial Contract Price to be exceeded by more than 15%, and then Engineer can adjust the rates for those quantities causing excess the cost of contract beyond 15% after approval of Superintending Engineer.
- (F) **Repeat Order:** Any cumulative variation, beyond the 15% of initial contract amount, shall be subject of another contract to be tendered out if the works are separable from the original contract.

**Clause-10: Quality Control.**

- (A) **Identifying Defects:** If at any time before the security deposit is refunded to the contractor/during defect liability period mentioned in bid data, the Engineer-in-charge or his subordinate-in-charge of the work may instruct the contractor to uncover and test any part of the works which he considers may have a defect due to use of unsound materials or unskillful workmanship and the contractor has to carry out a test at his own cost irrespective of work already approved or paid.
- (B) **Correction of Defects:** The contractor shall be bound forthwith to rectify or remove and reconstruct the work so specified in whole or in part, as the case may require. The contractor shall correct the notified defect within the Defects Correction Period mentioned in notice.
- (C) **Uncorrected Defects:**
  - (i) In the case of any such failure, the Engineer-in-charge shall give the contractor at least 14 days notice of his intention to use a third party to correct a defect. He may rectify or remove, and re-execute the work or remove and replace the materials or articles complained of as the case may be at the risk and expense in all respects of the contractor.



- (ii) If the Engineer considers that rectification/correction of a defect is not essential and it may be accepted or made use of; it shall be within his discretion to accept the same at such reduced rates as he may fix therefore.

**Clause – 11:**

- (A) **Inspection of Operations.** The Engineer and his subordinates, shall at all reasonable times have access to the site for supervision and inspection of works under or in course of execution in pursuance of the contract and the contractor shall afford every facility for and every assistance in obtaining the right to such access.
- (B) **Dates for Inspection and Testing.** The Engineer shall give the contractor reasonable notice of the intention of the Engineer-in-charge or his subordinate to visit the work shall have been given to the contractor, then he either himself be present to receive orders and instructions, or have a responsible agent duly accredited in writing present for that purpose, orders given to the contractor's duly authorized agent shall be considered to have the same force an effect as if they had been given to the contractor himself.

**Clause – 12: Examination of work before covering up.**

- (A) No part of the works shall be covered up or put out of view/beyond the reach without giving notice of not less than five days to the Engineer whenever any such part of the works or foundations is or are ready or about to be ready for examination and the Engineer shall, without delay, unless he considers it unnecessary and advises the contractor accordingly, attend for the purpose of examining and measuring such part of the works or of examining such foundations;
- (B) If any work is covered up or placed beyond the reach of measurement without such notice having been given, the same shall be uncovered at the contractor's expense, and in default thereof no payment or allowance shall be made for such work, or for the materials with which the same was executed.

**Clause – 13: Risks.** The contractor shall be responsible for all risks of loss of or damage to physical property or facilities or related services at the premises and of personal injury and death which arise during and in consequence of its performance of the contract. if any damage is caused while the work is in progress or become apparent within three months of the grant of the certificate of completion, final or otherwise, the contractor shall make good the same at his own expense, or in default the Engineer may cause the same to be made good by other workmen, and deduct the expenses from retention money lying with the Engineer.

**Clause-14: Measures for prevention of fire and safety measures.** The contractor shall not set fire to any standing jungle, trees, bush-wood or grass without a written permit from the Executive Engineer. When such permit is given, and also in all cases when destroying, cutting or uprooting trees, bush-wood, grass, etc by fire, the contractor shall take necessary measures to prevent such fire spreading to or otherwise damaging surrounding property. The contractor is responsible for the safety of all its activities including protection of the environment on and off the site. Compensation of all damage done intentionally or unintentionally on or off the site by the contractor's labour shall be paid by him.

**Clause-15: Sub-contracting.** The contractor shall not subcontract the whole of the works, except where otherwise provided by the contract. The contractor shall not subcontract any part of the works without the prior consent of the Engineer. Any such consent shall not relieve the contractor from any liability or obligation under the contract and he shall be responsible for the acts, defaults and neglects of any subcontractor, his agents, servants or workmen as if these acts, defaults or neglects were those of the contractor, his agents' servants or workmen. The provisions of this contract shall apply to such subcontractor or his employees as if he or it were employees of the contractor.

**Clause - 16: Disputes.** All disputes arising in connection with the present contract, and which cannot be amicably settled between the parties, , the decision of the Superintending Engineer of the circle/officer/one grade higher to awarding authority shall be final, conclusive and binding on all parties to the contract upon all questions relating to the meaning of the specifications, designs drawings, and instructions, hereinbefore mentioned and as to the quality of workmanship, or materials used on the work or as to any other questions, claim, right, matter, or thing whatsoever in any way arising out of, or relating to the contract design, drawings, specifications, estimates, instructions, orders or these conditions or otherwise concerning the works, or the execution, of failure to execute the same, whether arising, during the progress of the work, or after the completion or abandonment thereof.

**Clause -17: Site Clearance.** On completion of the work, the contractor shall be furnished with a certificate by the Executive Engineer (hereinafter called the Engineer in-charge) of such completion, but neither such certificate shall be given nor shall the work be considered to be complete until the contractor shall have removed all temporary structures and materials brought at site either for use or for operation facilities including cleaning debris and dirt at the site. If the contractor fails to comply with the requirements of this clause then Engineer-in-charge, may at the expense of the contractor remove and dispose of the same as he thinks fit and shall deduct the amount of all expenses so incurred from the contractor's retention money. The contractor shall have no claim in respect of any surplus materials as aforesaid except for any sum actually realized by the sale thereof.

**Clause -18: Financial Assistance /Advance Payment.**

(A) Mobilization advance is not allowed.

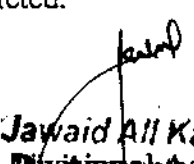
(B) Secured Advance against materials brought at site.

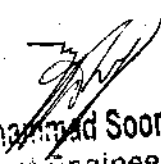
(i) Secured Advance may be permitted only against imperishable materials/quantities anticipated to be consumed/utilized on the work within a period of three months from the date of issue of secured advance and definitely not for full quantities of materials for the entire work/contract. The sum payable for such materials on site shall not exceed 75% of the market price of materials;

(ii) Recovery of Secured Advance paid to the contractor under the above provisions shall be affected from the monthly payments on actual consumption basis, but not later than period more than three months (even if unutilized).

**Clause -19: Recovery as arrears of Land Revenue.** Any sum due to the Government by the contractor shall be liable for recovery as arrears of Land Revenue.

**Clause -20: Refund of Security Deposit/Retention Money.** On completion of the whole of the works (a work should be considered as complete for the purpose of refund of security deposit to a contractor from the last date on which its final measurements are checked by a competent authority, if such check is necessary otherwise from the last date of recording the final measurements), the defects notice period has also passed and the Engineer has certified that all defects notified to the contractor before the end of this period have been corrected, the security deposit lodged by a contractor (in cash or recovered in installments from his bills) shall be refunded to him after the expiry of three months from the date on which the work is completed.

  
**Jawaid Ali Kambh**  
Divisional Assistant  
North East Karachi  
P&TK-II: KW&SB

  
**Khair Muhammad Soomro**  
Resident Engineer  
Executive Engineer/Procuring Agency  
N.E.K. (P&TK)  
KW&SB

Contractor

## **ELIGIBILITY AND EVALUATION CRITERIA OF THE TENDER**

Bid shall be evaluated on the basis of following information are available with the bid :-

- 1. Bid shall be in sealed Cover.**
- 2. Bid shall be properly signed by the Contractor with Stamp.**
- 3. Name of firm, Postal address, Telephone number, Fax number, e-mail address must be written.**
- 4. Rate must be quoted in figures and words.**
- 5. NTN and Sales Tax (Where applicable).**
- 6. Contractor should be registered with Sindh Revenue Board in terms of Rule-46(1)(iii) of SPP Rules, 2010 (amended 2014).**
- 7. Relevant Experience of work (03) Three years.**
- 8. Turnover at least (03) Three years.**
- 9. Bid Security of required amount.**
- 10. Conditional bid will not be considered.**
- 11. Bid will be evaluated according to SPPR 2010 (Amended 2013).**
- 12. Debarred Contractors bid cannot be accepted.**

**NAME OF WORK:- ENGINEERING SERVICES (MECH. & ELECT.) OF SET NO.5 KSB  
PUMP TYPE (SNW 600-720) INSTALLED AT K-III PUMP HOUSE, N.E.K.**

**(B) Description and rate of Items based (On Item rate basis)**

Item No.	Qty.	Description of item to be executed at site	Rate		Unit	Amount in Rupees
			Amount (in Figures)	Amount (in Words)		
1.	01Job.	Isolate the Power Supply then dismantle the 11KV, 525 KW Electric driven Motor from foundation. Complete in all respect as per direction of Engineer incharge. <b>Scope of work as under:-</b> <ul style="list-style-type: none"> <li>■ Removal of heat exchanger system completely.</li> <li>■ Removal of Three Nos. Terminal Box (RTD Winding, RTD Bearing Upper / Lower &amp; RTD Heating.</li> <li>■ Removal of Main connection Box.</li> </ul>			Job	
2.	02Nos.	Providing & Fixing of Angular Contact Ball Bearing No. 7330 SKF Brand with following Services for Pump No.5 :-			Each	
a	01Job	Vibration Analysis Service fee			Job	
b	01Job	Dynamic Balancing service fee			Job	
c	01Job	Laser Alignment Service Fee			Job	
d	02Jobs	Bearing Mounting and Dismounting Fee			Job	
e	01Job	Transportation Charges of all equipments			Job	
f	01Job	Weight / Shims / Lubricants of SKF			Job	
3.	15K <sub>gs.</sub>	Grease LGMT 3/1, SKF Brand (Imported).			Kg	
4.	01No.	Providing & Fixing of Bearing No.NU-1024 ML in SKF Brand.			Each	
5.	01No.	Providing & Fixing of Bearing No. QJ 324 N2MAC4 / R841 in SKF Brand. <b>Detail of Service:-</b>			Each	
	01Job	Vibration Analysis			Each	
	01Job	Dynamic Balancing			Each	
	01Job	Service Fee for Laser Alignment / Checking			Each	
	02Jobs	Service Fee for Bearing Mounting / Dismounting			Each	
	01Job	Transportation Charges of all equipments			Each	
	01Job	Weight / Shims / Lubricants of SKF			Each	

Item No.	Qty.	Description of item to be executed at site	Rate		Unit	Amount in Rupees
			Amount (in Figures)	Amount (in Words)		
6.	03Kgs.	Providing Grease LGHP 2/1, SKF Brand.			Kg	
7.	01Job	<p>Overhauling of 11KV, 525KW Electric Motor.</p> <p><u>Scope of work as under:</u></p> <ul style="list-style-type: none"> <li>■ Removal of coupling from Motor shaft.</li> <li>■ Initial testing and dismantling of Motor.</li> <li>■ Washing / Cleaning of winding with Special cleaning agent C.T.C.</li> <li>■ Drying Winding at 75°C temperature</li> <li>■ Testing of winding before impregnation.</li> <li>■ Impregnation of winding with Class 'F' varnish, insulation and drying.</li> <li>■ Complete checking &amp; balancing of Rotor after decarbonise.</li> <li>■ Drying, heating of Motor and Rotor.</li> <li>■ Decarbonising and cleaning of all three phase connection lead of Motor.</li> <li>■ Decarbonising and cleaning of all three rotor leads i/c re-taping H.T. Class tape both ends points (06 Points) having length 6" each.</li> <li>■ Cleaning and replacement of L.T. Panel connector for Motor heater.</li> <li>■ Assembly of all parts i/c Rotor Motor etc.</li> <li>■ Cleaning and painting of all parts.</li> <li>■ Static testing &amp; painting of complete Motor.</li> <li>■ Witness testing at site, on (NO LOAD) &amp; "LOAD" Operation.</li> </ul>			Job	
8.	01Job	Repair & reconditioning & polishing of Bearing housing (upper side) having 1 <sup>st</sup> O.D.=315mm, 2 <sup>nd</sup> O.D. = 250mm, I.D.= 100mm, depth 140mm. Complete in all respects & as per direction of E/incharge.			Job	
9.	01Job	Repair & reconditioning & polishing of Lower Bearing housing O.D.=250mm, I.D. = 150mm, depth 75mm complete in all respects & as per direction of Engineer incharge.			Job	
10.	28 Tubes	Repairing / Reconditioning of Heat Exchanger Tube having dia 45mm with fix inner Tube dia 20mm Length of Tube 1500mm.			Each	

Item No.	Qty.	Description of item to be executed at site	Rate		Unit	Amount in Rupees
			Amount (in Figures)	Amount (in Words)		
11.	01Job	Installation of Electric driven Motor 11KV 525KW type DKRJS45/9-6WF Complete in all respect and as per direction of Engineer incharge. <b>Scope of work as under :-</b> <ul style="list-style-type: none"> <li>■ Foundation preparation.</li> <li>■ Installation of heat exchanger system completely.</li> <li>■ Installation of Three Nos. Terminal Box (RTD Winding, RTD Bearing Upper / Lower &amp; RTD Heating.</li> <li>■ Installation of Main connection Box.</li> <li>■ Alignment of Machine / Motor by mounting brackets.</li> <li>■ Final Check all electric connection in the Main Box tightened properly.</li> <li>■ Motor is connected according with the specific direction of rotation.</li> <li>■ Check grease collector properly full, air points and water cooling points too.</li> </ul>			Job	
<b>Total: Rs:</b>						

  
**Khair Muhammad Soomro**  
 Resident Engineer  
 N.E.K. (P&F) K.I.I.I.  
 KW&SB

I/We hereby quoted Rs. \_\_\_\_\_ (Rupees)

\_\_\_\_\_

execution of above work and I / We hereby undertaking accept all clauses of SP&R-2010 and comply the Rules of KW&SB.

Signature of Contractor  
 With name of firm & Seal

Address \_\_\_\_\_

Contact # \_\_\_\_\_



# STANDARD BIDDING DOCUMENT

**PROCUREMENT OF WORKS**  
(For Contracts Costing up to Rs.2.5 Million)

( Press Tender )

(S. No.2)

Name of work: - COMPLETE OVERHAULING OF 6660M/H (35 MGD) WEIR PUMP SET 'E' AT LOW LIFT PUMP HOUSE AT N.E.K. (P) K-II PLANT.

-: Name of Office :-

**NORTH EAST KARACHI**  
**(Pumping & Filter) K-II Division**

NEK 100 MGD Pump Houses & Filter Plant, Saadi Town, Scheme-33,

Distt: Malir

Resident Engineer, Contact # 0333-3049232



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NIT must state the description of the work, dates, time and place of issuing, submission, opening of bids, completion time, cost of bidding document and bid security either in lump sum or percentage of Estimated Cost/Bid Cost. The interested bidder must have valid NTN also.

2. Content of Bidding Documents must include but not limited to: Conditions of contract, Contract Data, specifications or its reference, Bill of Quantities containing description of items with scheduled/item rates with premium to be filled in form of percentage above/ below or on item rates to be quoted, Form of Agreement and drawings.

3. **Fixed Price Contracts:** The Bid prices and rates are fixed during currency of contract and under no circumstance shall any contractor be entitled to claim enhanced rates for any item in this contract.

4. The Procuring Agency shall have right of rejecting all or any of the tenders as per provisions of SPP Rules 2010.

5. **Conditional Offer:** Any person who submits a tender shall fill up the usual printed form stating at what percentage above or below on the rates specified in Bill of Quantities for items of work to be carried out: he is willing to undertake the work and also quote the rates for those items which are based on market rates. Only one rate of such percentage, on all the Scheduled Rates shall be framed. Tenders, which propose any alternative in the works specified in the said form of invitation to tender or in the time


allowed for carrying out the work, or which contain any other conditions, will be liable to rejection. No printed form of tender shall include a tender for more than one work, but if contractor wish to tender for two or more works, they shall submit a separate tender for each.

The envelope containing the tender documents shall refer the name and number of the work.

6. All works shall be measured by standard instruments according to the rules.
7. Bidders shall provide evidence of their eligibility as and when requested by the Procuring Agency.
8. Any bid received by the Agency after the deadline for submission of bids shall be rejected and returned unopened to the bidder.
9. Prior to the detailed evaluation of bids, the Procuring Agency will determine whether the bidder fulfills all codal requirements of eligibility criteria given in the tender notice such as registration with tax authorities, registration with PEC (where applicable), turnover statement, experience statement, and any other condition mentioned in the NIT and bidding document. If the bidder does not fulfill any of these conditions, it shall not be evaluated further.
10. Bid without bid security of required amount and prescribed form shall be rejected.
11. Bids determined to be substantially responsive shall be checked for any arithmetic errors. Arithmetical errors shall be rectified on the following basis:
  - (A) In case of schedule rates, the amount of percentage quoted above or below will be checked and added or subtracted from amount of bill of quantities to arrive the final bid cost.
  - (B) In case of item rates, If there is a discrepancy between the unit rate and the total cost that is obtained by multiplying the unit rate and quantity, the unit rate shall prevail and the total cost will be corrected unless in the opinion of the Agency there is an obvious misplacement of the decimal point in the unit rate, in which case the total cost as quoted will govern and the unit rate corrected. If there is a discrepancy between the total bid amount and the sum of total costs, the sum of the total costs shall prevail and the total bid amount shall be corrected.
  - (C) Where there is a discrepancy between the amounts in figures and in words, the amount in words will govern.

# BIDDING DATA

- (a). Name of Procuring Agency: North East Karachi (Pumping & Filter) K-II Division, KW&SB
- (b). Brief Description of Work: COMPLETE OVERHAULING OF 6660M/H (35 MGD) WEIR PUMP SET 'E' AT LOW LIFT PUMP HOUSE AT N.E.K. (P) K-II PLANT.
- (c). Procuring Agency Address: NEK 100MGD Pump Houses, Saadi Town, Scheme-33, Distt: Malir
- (d). Estimate Cost: (On Item rate basis).
- (e). Amount of Bid Security : 02% of Bid amount.
- (f). Period of Bid validity : 90 Days.
- (g). Security Deposit (including Bid Security) : 10%
- (h). Venue, Time and Date of Bid Opening : The Tender in sealed cover superscribed with the name of the work should be dropped in the Tender Box kept in office of the Chief Engineer (IP&D), Room No.5 at Block "E", 9<sup>th</sup> Mile, Karsaz, Karachi on \_\_\_\_/\_\_\_\_/2015 at 02.30 PM by Tender Opening Committee-I, KW&SB.
- (i). Deadline for submission of Bid along with time. : \_\_\_\_/\_\_\_\_/2015 at 2:00 PM.
- (j). Time for completion from From written order commence: 15 Days
- (k). Liquidity damage : 0.5% of Bid Cost per day of delay
- (l). Bid issued to Firm : M/s. \_\_\_\_\_
- (m). Deposit Receipt No. & Date: \_\_\_\_\_  
Amount: Rs.2,000/=

  
**Khair Muhammad Scamro**  
Resident Engineer  
N.E.K. (P&F) K-II, III,  
KW&SB

Authority issuing bidding Document

### Conditions of Contract

**Clause – 1: Commencement & Completion Dates of work.** The contractor shall not enter upon or commence any portion or work except with the written authority and instructions of the Engineer-in-charge or of in subordinate-in-charge of the work. Failing such authority the contractor shall have no claim to ask for measurements of or payment for work.

The contractor shall proceed with the works with due expedition and without delay and complete the works in the time allowed for carrying out the work as entered in the tender shall be strictly observed by the contractor and shall reckoned from the date on which the order to commence work is given to the contractor. And further to ensure good progress during the execution of the work, contractor shall be bound, in all in which the time allowed for completion of any work exceeds one month, to achieve progress on the prorate basis.

**Clause – 2: Liquidated Damages.** The contractor shall pay liquidated damages to the Agency at the rate per day stated in the bidding data for each day that the completion date is later than the Intended completion date; the amount of liquidated damage paid by the contractor to the Agency shall not exceed 10 per cent of the contract price. Agency may deduct liquidated damages from payments due to the contractor. Payment of liquidated damages does not affect the contractor's liabilities.

**Clause – 3: Termination of the Contract.**

(A) Procuring Agency/Executive Engineer may terminate the contract if either of the following conditions exists:-

- (i) contractor causes a breach of any clause of the Contract;
- (ii) the progress of any particular portion of the work is unsatisfactory and notice of 10 days has expired;
- (iii) in the case of abandonment of the work owing to the serious illness or death of the contractor or any other cause.
- (iv) contractor can also request for termination of contract if a payment certified by the Engineer is not paid to the contractor within 60 days of the date of the submission of the bill;

(B) The Executive Engineer/Procuring Agency has power to adopt any of the following courses as may deem fit:-

- (i) to forfeit the security deposit available except conditions mentioned at A (iii) and (iv) above;
- (ii) to finalize the work by measuring the work done by the contractor.

(C) In the event of any of the above courses being adopted by the Executive Engineer/Procuring Agency, the contractor shall have:-

- (i) no claim to compensation for any loss sustained by him by reason of his having purchased or procured any materials, or entered into any engagements, or made any advances on account of, or with a view to the execution of the work or the performance of the contract,
  - (ii) however, the contractor can claim for the work done at site duly certified by the executive engineer in writing regarding the performance of such work and has not been paid.
- Procuring Agency/Engineer may invite fresh bids for remaining work.

**Clause 4: Possession of the site and claims for compensation for delay.** The Engineer shall give possession of all parts of the site to the contractor. If possession of site is not given by the date stated in the contract data, no compensation shall be allowed for any delay caused in starting of the work on account of any acquisition of land, water standing in borrow pits/ compartments or in according sanction to estimates. In such case, either date of commencement will be changed or period of completion is to be extended accordingly.

**Clause -5: Extension of Intended Completion Date.** The Procuring Agency either at its own initiatives before the date of completion or on desire of the contractor may extend the intended completion date, if an event (which hinders the execution of contract) occurs or a variation order is issued which makes it impossible to complete the work by the intended completion date for such period as he may think necessary or proper. The decision of the Executive Engineer in this matter shall be final; where time has been extended under this or any other clause of this agreement, the date for completion of the work shall be the date fixed by the order giving the extension or by the aggregate of all such orders, made under this agreement. When time has been extended as aforesaid, it shall continue to be the essence of the contract and all clauses of the contract shall continue to be operative during the extended period.

**Clause -6: Specifications.** The contractor shall execute the whole and every part of the work in the most substantial and work-man-like manner and both as regards materials and all other matters in strict accordance with the specifications lodged in the office of the Executive Engineer and initialed by the parties, the said specification being a part of the contract. The contractor shall also confirm exactly, fully and faithfully to the designs, drawing, and instructions in writing relating to the work signed by the Engineer-in-charge and lodge in his office and to which the contractor shall be entitled to have access at such office or on the site of work for the purpose of inspection during office hours and the contractor shall, if he so requires, be entitled at his own expense to make or cause to be made copies of the specifications, and of all such designs, drawings, and instructions as aforesaid.

**Clause – 7: Payments.**

- (A) **Interim/Running Bill.** A bill shall be submitted by the contractor as frequently as the progress of the work may justify for all work executed and not included in any previous bill at least once in a month and the Engineer-in-charge shall take or cause to be taken the requisite measurements for the purpose of having the same verified and the claim, as far as admissible, adjusted, if possible before the expiry of ten days from the presentation of the bill, at any time depute a subordinate to measure up the said work in the presence of the contractor or his authorized agent, whose countersignature to the measurement list will be sufficient to warrant and the Engineer-in-charge may prepare a bill from such list which shall be binding on the contractor in all respects.

The Engineer /Procuring Agency shall pass/certify the amount to be paid to the contractor, which he considers due and payable in respect thereof, subject to deduction of security deposit, advance payment if any made to him and taxes.

All such intermediate payment shall be regarded as payments by way of advance against the final payment only and not as payments for work actually done and completed, and shall not preclude the Engineer-in-charge from recoveries from final bill and rectification of defects and unsatisfactory items of works pointed out to him during defect liability period.

- (B) **The Final Bill.** A bill shall be submitted by the contractor within one month of the date fixed for the completion of the work otherwise Engineer-in-charge's certificate of the measurements and of the total amount payable for the works shall be final and binding on all parties.

**Clause – 8: Reduced Rates.** In cases where the items of work are not accepted as so completed, the Engineer-in-charge may make payment on account of such items at such reduced rates as he may consider reasonable in the preparation of final or on running account bills with reasons recorded in writing.

**Clause – 9: Issuance of Variation and Repeat Orders.**

- (A) Agency may issue a Variation Order for procurement of works, physical services from the original contractor to cover any increase or decrease in quantities, including the introduction of new work items that are either due to change of plans, design or alignment to suit actual field conditions, within the general scope and physical boundaries of the contract.
- (B) Contractor shall not perform a variation until the Procuring Agency has authorized the variation in writing subject to the limit not exceeding the contract cost by of 15% on the same conditions in all respects on which he agreed to do them in the

work, and at the same rates, as are specified in the tender for the main work. The contractor has no right to claim for compensation by reason of alterations or curtailment of the work.

- (C) In case the nature of the work in the variation does not correspond with items in the Bill of Quantities, the quotation by the contractor is to be in the form of new rates for the relevant items of work, and if the Engineer-in-charge is satisfied that the rate quoted is within the rate worked out by him on detailed rate analysis, and then only he shall allow him that rate after approval from higher authority.
- (D) The time for the completion of the work shall be extended in the proportion that the additional work bear to the original contact work.
- (E) In case of quantities of work executed result the Initial Contract Price to be exceeded by more than 15%, and then Engineer can adjust the rates for those quantities causing excess the cost of contract beyond 15% after approval of Superintending Engineer.
- (F) Repeat Order: Any cumulative variation, beyond the 15% of initial contract amount, shall be subject of another contract to be tendered out if the works are separable from the original contract.

**Clause-10: Quality Control.**

- (A) **Identifying Defects:** If at any time before the security deposit is refunded to the contractor/during defect liability period mentioned in bid data, the Engineer-in-charge or his subordinate-in-charge of the work may instruct the contractor to uncover and test any part of the works which he considers may have a defect due to use of unsound materials or unskillful workmanship and the contractor has to carry out a test at his own cost irrespective of work already approved or paid.
- (B) **Correction of Defects:** The contractor shall be bound forthwith to rectify or remove and reconstruct the work so specified in whole or in part, as the case may require. The contractor shall correct the notified defect within the Defects Correction Period mentioned in notice.
- (C) **Uncorrected Defects:**
  - (i) In the case of any such failure, the Engineer-in-charge shall give the contractor at least 14 days notice of his intention to use a third party to correct a defect. He may rectify or remove, and re-execute the work or remove and replace the materials or articles complained of as the case may be at the risk and expense in all respects of the contractor.

- (ii) If the Engineer considers that rectification/correction of a defect is not essential and it may be accepted or made use of; it shall be within his discretion to accept the same at such reduced rates as he may fix therefore.

**Clause – 11:**

- (A) **Inspection of Operations.** The Engineer and his subordinates, shall at all reasonable times have access to the site for supervision and inspection of works under or in course of execution in pursuance of the contract and the contractor shall afford every facility for and every assistance in obtaining the right to such access.
- (B) **Dates for Inspection and Testing.** The Engineer shall give the contractor reasonable notice of the intention of the Engineer-in-charge or his subordinate to visit the work shall have been given to the contractor, then he either himself be present to receive orders and instructions, or have a responsible agent duly accredited in writing present for that purpose, orders given to the contractor's duly authorized agent shall be considered to have the same force an effect as if they had been given to the contractor himself.

**Clause – 12: Examination of work before covering up.**

- (A) No part of the works shall be covered up or put out of view/beyond the reach without giving notice of not less than five days to the Engineer whenever any such part of the works or foundations is or are ready or about to be ready for examination and the Engineer shall, without delay, unless he considers it unnecessary and advises the contractor accordingly, attend for the purpose of examining and measuring such part of the works or of examining such foundations;
- (B) If any work is covered up or placed beyond the reach of measurement without such notice having been given, the same shall be uncovered at the contractor's expense, and in default thereof no payment or allowance shall be made for such work, or for the materials with which the same was executed.

**Clause – 13: Risks.** The contractor shall be responsible for all risks of loss of or damage to physical property or facilities or related services at the premises and of personal injury and death which arise during and in consequence of its performance of the contract. if any damage is caused while the work is in progress or become apparent within three months of the grant of the certificate of completion, final or otherwise, the contractor shall make good the same at his own expense, or in default the Engineer may cause the same to be made good by other workmen, and deduct the expenses from retention money lying with the Engineer.



**Clause-14: Measures for prevention of fire and safety measures.** The contractor shall not set fire to any standing jungle, trees, bush-wood or grass without a written permit from the Executive Engineer. When such permit is given, and also in all cases when destroying, cutting or uprooting trees, bush-wood, grass, etc by fire, the contractor shall take necessary measures to prevent such fire spreading to or otherwise damaging surrounding property. The contractor is responsible for the safety of all its activities including protection of the environment on and off the site. Compensation of all damage done intentionally or unintentionally on or off the site by the contractor's labour shall be paid by him.

**Clause-15: Sub-contracting.** The contractor shall not subcontract the whole of the works, except where otherwise provided by the contract. The contractor shall not subcontract any part of the works without the prior consent of the Engineer. Any such consent shall not relieve the contractor from any liability or obligation under the contract and he shall be responsible for the acts, defaults and neglects of any subcontractor, his agents, servants or workmen as if these acts, defaults or neglects were those of the contractor, his agents' servants or workmen. The provisions of this contract shall apply to such subcontractor or his employees as if he or it were employees of the contractor.

**Clause - 16: Disputes.** All disputes arising in connection with the present contract, and which cannot be amicably settled between the parties, , the decision of the Superintending Engineer of the circle/officer/one grade higher to awarding authority shall be final, conclusive and binding on all parties to the contract upon all questions relating to the meaning of the specifications, designs drawings, and instructions, hereinbefore mentioned and as to the quality of workmanship, or materials used on the work or as to any other questions, claim, right, matter, or thing whatsoever in any way arising out of, or relating to the contract design, drawings, specifications, estimates, instructions, orders or these conditions or otherwise concerning the works, or the execution, of failure to execute the same, whether arising, during the progress of the work, or after the completion or abandonment thereof.

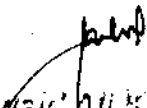
**Clause -17: Site Clearance.** On completion of the work, the contractor shall be furnished with a certificate by the Executive Engineer (hereinafter called the Engineer in-charge) of such completion, but neither such certificate shall be given nor shall the work be considered to be complete until the contractor shall have removed all temporary structures and materials brought at site either for use or for operation facilities including cleaning debris and dirt at the site. If the contractor fails to comply with the requirements of this clause then Engineer-in-charge, may at the expense of the contractor remove and dispose of the same as he thinks fit and shall deduct the amount of all expenses so incurred from the contractor's retention money. The contractor shall have no claim in respect of any surplus materials as aforesaid except for any sum actually realized by the sale thereof.


**Clause -18: Financial Assistance /Advance Payment.**

- (A) Mobilization advance is not allowed.
- (B) Secured Advance against materials brought at site.
- (i) Secured Advance may be permitted only against imperishable materials/quantities anticipated to be consumed/utilized on the work within a period of three months from the date of issue of secured advance and definitely not for full quantities of materials for the entire work/contract. The sum payable for such materials on site shall not exceed 75% of the market price of materials;
- (ii) Recovery of Secured Advance paid to the contractor under the above provisions shall be affected from the monthly payments on actual consumption basis, but not later than period more than three months (even if unutilized).

**Clause -19: Recovery as arrears of Land Revenue.** Any sum due to the Government by the contractor shall be liable for recovery as arrears of Land Revenue.

**Clause -20: Refund of Security Deposit/Retention Money.** On completion of the whole of the works (a work should be considered as complete for the purpose of refund of security deposit to a contractor from the last date on which its final measurements are checked by a competent authority, if such check is necessary otherwise from the last date of recording the final measurements), the defects notice period has also passed and the Engineer has certified that all defects notified to the contractor before the end of this period have been corrected, the security deposit lodged by a contractor (in cash or recovered in installments from his bills) shall be refunded to him after the expiry of three months from the date on which the work is completed.

  
Jawsid Ali Kamboh  
Divisional Accountant  
North East Karachi  
(P&F) K-II, KW&SB

  
Khair Muhammad Soomro  
Executive Engineer / Resident Engineer  
Procuring Agency  
N.E.K. (P&F) K-II, KW&SB

Contractor

## ELIGIBILITY AND EVALUATION CRITERIA OF THE TENDER

Bid shall be evaluated on the basis of following information are available with the bid :-

1. Bid shall be in sealed Cover.
2. Bid shall be properly signed by the Contractor with Stamp.
3. Name of firm, Postal address, Telephone number, Fax number, e-mail address must be written.
4. Rate must be quoted in figures and words.
5. NTN and Sales Tax (Where applicable).
6. Contractor should be registered with Sindh Revenue Board in terms of Rule-46(1)(iii) of SPP Rules, 2010 (amended 2014).
7. Relevant Experience of work (03) Three years.
8. Turnover at least (03) Three years.
9. Bid Security of required amount.
10. Conditional bid will not be considered.
11. Bid will be evaluated according to SPPR 2010 (Amended 2013).
12. Debarred Contractors bid cannot be accepted.

NAME OF WORK: **COMPLETE OVERHAULING OF 6660M/H (35 MGD) WEIR PUMP SET 'E' AT LOW LIFT PUMP HOUSE AT N.E.K. (P) K-II PLANT.**

**(B) Description and rate of Items based (On Item rate basis)**

Item No.	Qty.	Description of item to be executed at site	Rate		Unit	Amount in Rupees
			Amount (in Figures)	Amount (in Words)		
1.	01Job	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 off sizes, in each flange, De-bolting and removal column pipe 28" dia 03Nos. having 30 Bolts off 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.			Job	
2.	01Job	Removal of Bearing housing i/c Bearing No. HH9236649 (Roller) with the help of hydraulic pressure machining & oxygen acetylene flame as per direction of E/incharge			Job	
3.	01Job	Repairing & Re-conditioning, polishing of Bearing housing having size 1 <sup>st</sup> . 62mm dia 2 <sup>nd</sup> 31mm dia tapered depth 256mm complete in all respect & direction of E/I			Job	
4.	01Job	Fixing of Roller Bearing No. HH9236649 with the help of heat Engineering process as per direction of E/I.			Job	
5.	01Job	Removal of Impeller from Shaft with help of hydraulic pressure machine & oxygen acetylene flame as per direction of E/incharge			Each	
6.	01Job	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 Kansu electrodes and machining and grinding to bring finished size without disturbing its original shape & balancing as per sample & direction of Engr : in charge.			Job	
7.	01Job	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 E/I			Job	
8.	03Nos	Mfg. & Providing S.S Sleeve as per sample Size = 80 x 70 x 140mm & as per direction of Engg: in charge.			Each	
9.	01No.	Mfg. & Providing S.S Sleeve as per sample 80 x 70 x 200mm & as per direction of Engg: in charge.			Each	

Item No.	Qty.	Description of item to be executed at site	Rate		Unit	Amount in Rupees
			Amount (in Figures)	Amount (in Words)		
10.	01No.	Mfg. & Providing S.S. Sleeve as per sample 80 x 70 x 235mm & as per direction of Engg: in charge.			Each	
11.	03Nos.	Mfg. & Providing M.S. Sleeve as per sample 150 x 70 x 340mm & as per direction of Engg: in charge.			Each	
12.	08Nos.	Removal of Sleeve with the help of hydraulic pressure machine (Heavy duty) & acetylene flame as per direction of E/I.			Each	
13.	08Nos.	Fixing of Sleeve in Pump shaft by heat Engineering process as per direction of E/I.			Each	
14.	06Nos.	Mfg. & Providing M.S. Lock key as per sample Size = 150 x 20 x 12mm as per direction of E/I			Each	
15.	01No.	Mfg. & Providing Spider bush Rubber bearing with gun metal steel body re-enforced with neuprem rubber as per sample & direction of Engg: in charge. Size = 100x80x160mm.			Each	
16.	03Nos.	Mfg. & Providing Spider Bush Rubber bearing with gun metal steel body re-enforced with neuprem rubber as per sample & direction of Engg: in charge. Size = 100 x 80 x 120mm.			Each	
17.	04Nos.	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.			Each	
18.	04Nos.	Fixing of Rubber Bearing (Spider bush) in housing by heat Engineering process as per direction of E/I.			Each	
19.	03Kgs.	Mfg. & Providing Stud / Bolts as per sample and direction of E / I.			Kg.	
20.	01No.	Mfg. of S.S. Neck ring having size 540 x 520 x 53mm for weir pump as per sample & direction of Engg: incharge.			Each	
21.	01Job	Removal of S.S. Neck Ring from defuser housing with the help of Hydraulic pressure machine.			Job	
22.	01Job	Fixing of S.S. Neck ring in the defuser housing by Heat Engineering process.			Job	
23.	05Kgs.	Providing 20 x 20mm Teflon gland packing.			Kg.	
24.	25Kgs.	Providing Rubber flange Gas kit. Size = 4 x 1/8" thick, 2mm.			Kg.	
25.	04 Meters	P/F 0.5mm Fiber Paper sheet (Imported), having width 1 meter.			Kg.	
26.	100Lbs	Providing Cotton waste Bags (50Kgs.)			Meter	
27.	85Kgs	Providing of Nuts & Bolts i/c Plain & Spring washers.			Lb.	
28.	01Kg.	Providing USA Made Dadex joining solution.			Kg.	
					Kg.	

Item No.	Qty.	Description of item to be executed at site	Rate		Unit	Amount in Rupees
			Amount (in Figures)	Amount (in Words)		
29.	01Job	<p>Repairing &amp; Corrosion protective coating in the defuser in lift water transfer Weir Pump with BELAZONA polymeric material (Imported) as per direction of E/I.</p> <p><b>Detail of Work is as under :-</b></p> <ul style="list-style-type: none"> <li>▶ Washing with potable water.</li> <li>▶ Surface preparation with grit blasting as per SA1-1/2 Standard.</li> <li>▶ Decontamination of Blasted surface with Belzona 9111F</li> <li>▶ Re-building of pitted and damaged portion with Belzona 1311.</li> <li>▶ Grinding work.</li> <li>▶ Corrosion Protective food grade Belzona 1341 coating on the surface areas of the defuser.</li> <li>▶ Apply a thin layer of Belzona 9411 where Belzona materials should not adhere.</li> </ul>			Job	
30.	01Job	<p><b>Overhauling of 3.3KV, 315KW A/C Induction Motors Low Lift Pump House.</b></p> <p><u>Scope of work as under:</u></p> <ul style="list-style-type: none"> <li>■ Removal of coupling from Motor shaft.</li> <li>■ Initial testing and dismantling of Motor.</li> <li>■ Washing / Cleaning of winding with special cleaning agent C.T.C.</li> <li>■ Drying of winding at 110°C temperature</li> <li>■ Testing of winding before impregnation.</li> <li>■ Impregnation of winding with Class 'F' varnish, insulation and drying.</li> <li>■ Complete checking &amp; balancing of rotor after decarbonise.</li> <li>■ Drying, heating of motor and rotor.</li> <li>■ Decarbonising and cleaning of all three phase connection lead of motor.</li> <li>■ Decarbonising and cleaning of all three rotor leads i/c re-taping H.T. Class tape both ends points (06 Points) having length 6" each.</li> <li>■ Cleaning and replacement of L.T. Panel connector for motor heater.</li> <li>■ Assembly of all parts i/c rotor motor etc.</li> <li>■ Cleaning and painting of all parts.</li> <li>■ Static testing &amp; painting of complete motors.</li> <li>■ Witness testing at site.</li> </ul>			Job	
31.	01Job	<p>Repair &amp; reconditioning &amp; polishing of Bearing housing (upper side) having 1<sup>st</sup>. O.D.=315mm, 2<sup>nd</sup> O.D. = 250mm, I.D.= 100mm, depth 140mm. Complete in all respects &amp; as per direction of E/incharge.</p>			Job	
32.	01Job	<p>Repair &amp; reconditioning &amp; polishing of Lower Bearing housing O.D.=250mm, I.D. = 150mm, depth 75mm complete in all respects &amp; as per direction of Engineer incharge.</p>			job	

Item No.	Qty.	Description of item to be executed at site	Rate		Unit	Amount in Rupees
			Amount (in Figures)	Amount (in Words)		
33.	01No.	Bearing No.7320 BECBM in SKF Brand. Detail of Service:-			Each	
	01No.	Vibration Analysis Service fee			Each	
	01No.	Dynamic Balancing Service fee			Each	
	01No.	Service Fee for Laser Alignment / Checking			Each	
	01No.	Service Fee for Bearing Mounting / Dismounting			Each	
	01No.	Transportation Charges of all equipments			Each	
	01No.	Weight / Shims / Lubricants of SKF			Each	
34.	01No.	Providing & Fixing of Bearing No.NU-320 ECP in SKF Brand. Detail of Service:-			Each	
	01No.	Service Fee for Bearing Mounting / Dismounting			Each	
	01No.	Weight / Shims / Lubricants of SKF			Each	
35.	10Kgs.	Providing Grease LGHP 2/1, SKF Brand.			Kg.	
<b>Total: Rs:</b>						

I/We hereby quoted Rs. \_\_\_\_\_ (Rupees)

**Khair Muhammad Soomro**  
Resident Engineer  
N.E.K. (P&F) K.II.III,  
KW&SB

execution of above work and I / We hereby undertaking accept all clauses of SI'PR-2010 and comply the Rules of KW&SB.

Signature of Contractor  
With name of firm & Seal

Address \_\_\_\_\_

Contact # \_\_\_\_\_