



STANDARD BIDDING DOCUMENT

PROCUREMENT OF WORKS

(For Contracts Costing up to Rs.2.5 Million)

(Press Tender)

Name of Work

**"COMPLETE OVERHAULING OF 4500 M/H (MGD) SET (A)
HIGH LIFT PUMP HOUSE AT NEK (P&F) K-11, PLANT "**

-: Name of Offices :-

NORTH EAST KARACHI

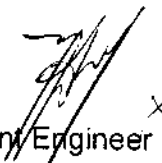
N.E.K (P&F) Plant K-11, K-111 Karachi

N.E.K 100MGD PUMP HOUSE SAADI TOWN SHCHEAME-33 DIST MALIR

Resident Engineer Cell No. 0333-3049232 & 0321-2902294

BIDDING DATA

- (a) Name of Procuring Agency: NORTH EAST KARACHI (PUMPING & FILTER), KW&SB
- (b) Brief Description of Work : **COMPLETE OVERHAULING OF 4500 M/H (MGD) SET (A) HIGH LIFT PUMP HOUSE AT NEK (P&F) K-11, PLANT KW&SB**
- (c) Procuring Agency address: **NORTH EAST KARACHI (PUMPING & FILTER) K-11, K-111 KARACHI**
- (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 sealed cover super scribed 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, Block "E" at 9th Mile Karsaz, Karachi on **25.03.2015** at 02:30 PM by Procurement Committee-I, KW&SB.
- (i) Deadline for submission of Bid along with time : **25.03.2015 at 2:00 PM**
- (j) Time for completion from From written order commence: 10 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.1, 500/-


Resident Engineer
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 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.

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, hereir.before 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.

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.

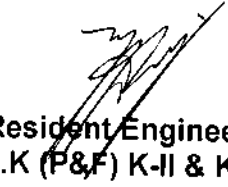
- (A) **Mobilization advance** is not allowed.
- (B) **Secured Advance against materials brought at site.**
- (i) Secured Advance may be permitted only against imperishable materials / quantities anticipated to be consumed /utilized on the work within a period of three months from the date of issue of 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 Recovery.

Clause-20: Refund of Security Deposit/Retention Money. On completion of the whole of the works (work should be considered as complete for the purpose of refund of security deposit to ta 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 defect 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 form his bills) shall be refunded to him after the expiry of three months from the date on which the work is completed.

Divisional Accountants Officer

Contractor


Resident Engineer
N.E.K (P&F) K-II & K-III
K.W & S.B

Khair Muhammad Spomro
Resident Engineer
N.E.K (P&F) K-II-III,
K.W & S.B

EVALUATION CRITERIA OF THE TENDER UPTO 2.5 MILLION

1. Contractor having NTN and copy must be available with the Tender, in case of supply item the GST Registration must be available with Tender.
2. The Pay Order of Bid Security as mentioned in NIT and must be available with Tender
3. Experience certificate of similar nature of job must be available with the Tender.
4. Similar nature of Bidding Documents from upto 2.5 Million of SPPRA with filling Bidding Data & Contract Data must be available with BOQ otherwise the Tender cannot be accepted.
5. Rate must be quoted in figure & words by Contractor.
6. Bid shall be properly signed by Contractor with stamped, address and contact
7. Conditional bid cannot be accepted.
8. Bid must be submitted in sealed cover.
9. Contractor firm cannot be debarred in KW&SB.

**NAME OF WORK:- : COMPLETE OVERHAULING OF 4500M/H (25MGD)
WEIR SET (A), AT HIGH LIFT PUMP HOUSE AT
NEK (P&F) K-II, PLANT.**

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

Item Nc	Qty	Description of item to be executed at site	Rate Amount (in Figure)	Rate Amount (in Word)	Unit	Amount in Rupees
1	01	Removal of termination & isolate the terminal box from motor, then de-coupled the motor from pump & dismantle the 25mgd pump from foundation & debalting all the parts, re-assemble the pump after engineering services & pump placed & balanced at foundation couple 412 KW motor with pump complete its connection i/c servicing of termination as per direction of engineer in charge.			Job	
2	01	Removal of impeller from pump shaft with help of hydraulic pressure machine & oxygen acetylene flame and chemical treatment as per direction of engineer in charge			Job	
3	01	Re-conditioning & balancing of UNIGLIDE type impeller of weir pump by welding of worn out wings used special organ welding with help of kansi electrodes & machining & grinding to bring finished size without disturbing its original shape & balancing as per sample and as per direction of engineer in charge.			Job	
4	01	Re-fixing of impeller in pump shaft with help of hydraulic pressure machine and balancing with accurate centre.			Job	

Item No	Qty	Description of item to be executed at site	Rate Amount (in Figure)	Rate Amount (in Word)	Unit	Amount in Rupees
5	10	Providing 20X20mm Telfon gland packing.			Kg	
6	25	Providing rubber flange gas kit size 4x1/8" thick; 2mm (PB-49, P.71 IT.06) Providing DADEX jointing Solution, made in USA			Rft	
7	01	Providing DADEX jointing Solution, made in USA			Kg	
8	02	Supply of Cotton waste Begg (50 KG) each			Beg	
9	04	P/F 0.5mm Fiber paper sheet (England Made) having w-1 Meter			Meter	
10	01	Providing of bearing # 6318 BCG (SKF) (for pump) <u>Detail of Service</u> Vibration Analysis, Dynamic Balancing, Service Fee for Laser Alignment / Checking, Service Fee for Bearing Mounting / Dismounting, Transportation Charges of all equipments, Weight / Shims / Lubricants of SKF & up down of SKF certified engineers for 3 days			No	
11	01	Removal of Pulley from Pump Shaft with the help of Hydraulic pressure machine & oxygen acetylene flame as per direction of in charge			Job	
12	01	Repairing & re-conditioning, polishing of Bearing housing having size, 1st 190mm, 2nd 125mm taper, depth 315mm complete in all respect and as per direction of engineer in charge			Job	

Item No	Qty	Description of item to be executed at site	Rate Amount (in Figure)	Rate Amount (in Word)	Unit	Amount in Rupees
13	04	Removal of wear Ring and neck ring from the pump casing with the help of hydraulic pressure machine & oxygen acetylene Flame as per direction of engineer in charge			No	
14	02	Manufacturing of wear ring from bronze metal (imported) as per sample and direction of engineer in charge Size; 1st O.D.560, I.D.524, 2nd OD.532 I D 484 & thickness 66mm, thickness 18 mm			No	
15	04	Fixing of bronze made neck & wear ring Size of wear ring, W-66mm,thickness 25mm, O.D, 530mm, I.D,505mm, Size of neck Ring W-66mm, 1st O.D,560mm, 1st I.D 524mm, 2nd O.D,532mm, 2nd I.D,484mm thickness 18mm			No	
16	01	Fixing of bronze made sleeve upper side in pump shaft having size L1, 192mm, O.D, 140mm, I.D,85mm, L2 ,361mm, O.D,125mm,I.D 85mm,fix with the help of Hydraulic pressure machine & oxygen acetylene Flame as per direction of engineer in charge			No	
17	01	Removal of bronze made sleeve upper side with the help of Hydraulic pressure machine & oxygen acetylene Flame as per direction of engineer in charge			No	
18	02	Manufacturing of neck Ring with bronze metal (Imported) as per sample & direction of engineer in charge Size; OD 530mm , I D 505 mm , Thickness 25 mm . W - 66 mm.			No	


Item No	Qty	Description of item to be executed at site	Rate Amount (in Figure)	Rate Amount (in Word)	Unit	Amount in Rupees
19	01	Removal of bronze made sleeve lower side with the help of Hydraulic pressure machine & oxygen acetylene Flame as per direction of engineer in charge			No	
20	01	Fixing of bronze made sleeve lower side in pump shaft having size L1, 192 mm, O.D, 140mm, I.D,85mm, L2 with the help of Hydraulic pressure machine & oxygen acetylene Flame as per direction of engineer in charge			No	
21	02	Manufacturing of Pulley caller type from Bronze metal (Imported) having size; L - 175 mm , O D 175 mm , I D 150 mm , Caller 10mm , as per ample and direction of engineer in charge.			No	
22	01	Removal of bronze made bush from shaft with the help of Hydraulic pressure machine & oxygen acetylene Flame as per direction of engineer in charge			No	
23	02	Manufacturing of Shaft Bush from bronze metal (Imported) as per sample & direction of engineer in charge. L-1. 192mm , O D 140mm , I D 85 mm L - 2 361 mm , O D 125 mm , I D 85 mm.			No	
24	85	Providing Nuts & Bolts i/c Plain & Spring washers. (PB-49, P.71 IT.05)			Kg	
25	01	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 2nd 125mm, as per direction of engineer in charge			No	

Item No	Qty	Description of item to be executed at site	Rate Amount (in Figure)	Rate Amount (in Word)	Unit	Amount in Rupees
26	01	Removal of rubber bearing (spider bush) from shaft with help of hydraulic pressure machine & oxygen acetylene Flame as per direction of engineer in charge			No	
27	01	Manufacturing of spider bush Rubber bearing with bronze body re-enforces with neuprem rubber as per sample, L-130mm, O.d.150mm I.d.115mm, as per direction of engineer in charge			No	
28	01	Fixing of rubber bearing (Spider Bush) on lower saleev with the help of hydraulic pressure machine			No	
29	01	Local Manufacturing of Shaft protecting sleeve made by high class carbon alloy steel (imported) for 85mm dia solid shaft saleev, Fix on shaft size L-305mm,O.D. 114mm, I.D.85mm with the helpof hydraulic Pressure machine after Removing worn out sleeve, complete in all respect and as per direction of engineer in charge.			Job	
30	01	Over hauling of 3.3 KV, 412 KW A/C Induction Motor High Lift Pump House Scope of Work as Under:- * Removal of coupling from motor shaft. * Initial testing and dismantling of Motor. * Drying Winding at 110 C temperature. * Testing of winding before Impregnation * Impregnation of winding with class "F" warmish, insulation and drying. * Complete checking & balancing of rotor after decarbonizes.			Job	

Item No	Qty	Description of item to be executed at site	Rate Amount (in Figure)	Rate Amount (in Word)	Unit	Amount in Rupees
		<ul style="list-style-type: none"> * Drying , heating of motor and roter. * Decarburizing and cleaning of all three phase connection lead of motor. * Decarburizing and cleaning of all three roter leads i/c re-taping H.T.class tape both ends points (06 Points) heaving length 6" each. * Cleaning and replacement of L.T. pannel connector for motor heater. * Assembly of all parts i/c roter motor etc. * Cleaning and Painting of all parts. * Static testing and painting of complete motor. * witness testing at site. 				
31	01	Repairing and reconditioning & polishing of bearing housing (upper side)having 1st o.d.315mm, 2nd o.d.250mm, i.d.100mm, depth 140mm, complete in all respect & as per direction of engineer in charge.			Job	
32	01	Repair & reconditioning and polishing of lower bearing housing o.d.250 mm, l.d.150mm and depth 75 mm, complete in all respect and as per direction of engineer in charge			Job	

Item No	Qty	Description of item to be executed at site	Rate Amount (in Figure)	Rate Amount (in Word)	Unit	Amount in Rupees
33	01	Providing and fixing of Bearing No. 7320 BECBM in SKF brand.			Job	
	01	<u>Detail of Service.</u> Virabtion Analysis			Job	
	01	Dynamic Balancing			Job	
	01	Service Fee for Laser Alignment / Cheeking.			Job	
	01	Service Fee for Bearing Mounting / Dismounting			Job	
	01	Transportation Charges of all equipments.			Job	
	01	Weight / Shims / Lubricants of SKF			Job	
34	01	Providing and fixing of Bearing No. NU - 320 ECP in SKF brand. <u>Detail of Service.</u> Virabtion Analysis Dynamic Balancing Service Fee for Laser Alignment / Cheeking Service Fee for Bearing Mounting / Dismounting Transportation Charges of all equipments. Weight / Shims / Lubricants of SKF up down of SKF certified engineers for 3 days.			Job	
35	01	Removal of M.S. Pully from Motor Shaft.			Job	

Item No	Qty	Description of item to be executed at site	Rate Amount (in Figure)	Rate Amount (in Word)	Unit	Amount in Rupees
36	01	Fixing os M.S. Pully in Motor Shaft.			Job	
Total Rs:						


Resident Engineer
N.E.K (P&F) K-II & K-III
K.W & S.B
Khair Muhammad Soomro
Resident Engineer
N.E.K. (P&F) K.II-III,
KW&SB

I/We hereby quoted Rs. _____ (Rupees)

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

Signature of Contractor

Address: _____

Contract # _____