



**Most
Important**

No. DD (Enf-II)K270(KWSB)/SPPRA/100-1/13-14 /
**GOVERNMENT OF SINDH
SINDH PUBLIC PROCUREMENT REGULATORY
AUTHORITY**

Karachi, Dated: October, 2014

**The Project Director (S-III) Projects,
Karachi Water & Sewerage Board,
Karachi.**

SUBJECT: NIT REF: NO.INF-KRY-NO.3186/13, SPPRA SR. NO.18487.

I am directed to refer to your letter No.PD/S-III/ KW&SB/2014/349 dated 22.09.2014 and to again observe that:

- i) Procuring Agency vide letter No.PD/S-III/KW&SB/2014/291, dated 05.06.2014 furnished photocopy of Bid Evaluation Report bearing signatures of **all** PC members without any observation, whereas, original Bid Evaluation Report furnished vide letter No.PD/S-III/KW&SB/2014/326 received on 12.09.2014 contain observations made by four procurement committee members. **Therefore, said variation in above said report may be clarified.**
- (ii) Procuring Agency has furnished (Original) BER vide letter No.PD/S-III/KW&SB/2014/326 received on 12.09.2014, wherein **four members of procurement committee have recorded their observations as under:**
 - a) Since it is a single bid, therefore, validity of bid may be sought from SPPRA. As the lowest offered bid is much higher the provisions of relevant works in the approved PC-1, therefore, approval may be sought from the competent forum prior to award of work.

Representative L.G (GOS)
 - b) All above objections raised by D.G (M&E) Local Govt. Sindh are un-avoidable. They must be addressed in the light of Article-48 SPPRA-Act 2009-10 to avoid misprocurement.
I am aggrieved at the technical report in favour of bidder because Article 2.16(A)(i) SPPRA are not followed.

PM (S-III)
 - c) Agreed with the comments written by D.G (M&E) & PM (S-III) project mentioned below.

DPM (S-III)
 - d) Agreed with the comments written by D.G (M&E) L.G Deptt: GOS as below.

SE (KMC)
- (iii) Approval of Secretary Local Government Department, Govt. of Sindh regarding Tender, **Bid Evaluation Report, rates revision/modification** is required in terms of instructions issued by Secretary Local Govt. vide letter No.LG(SO-VII)/2-5/KW&SB/2013, dated 05.04.2014 (Copy enclosed).
- (iv) Approval Head of Department i.e Secretary, Local Government Department, Government of Sindh regarding constitution of Procurement Committee is also required in terms of Rule-7 of SPP Rules, 2010.

Cont...P/2

(2)

- (v) Only one firm has applied and qualified for subject procurement whereas, **Rule-48** of SPP Rules, 2010 stipulates that "when only one bid is submitted, the bidding process may be considered valid, if the bid was advertised in accordance with rules, and prices are comparable to the prices or rates of the last awarded contract or the market prices".

Therefore, in the instant case the Procuring Agency is required to provide justification in the form of a certificate signed by all Procurement Committee members in terms of Rule-48 of SPP Rules 2010 along with necessary supporting documents.

- (vi) M/s Pak Oasis Industries has quoted Rs.7,898,725,589/= for subject procurement whereas Letter of Award says that Rs.3,889,961,281/= has been accepted and remaining amount Rs.1,402,565,856/= shall be released for execution upon formal approval of Revised PC-1 from the Competent Authority. In this respect guidelines / Regulations for procurement of works Annex-G, Page 76 stipulates that:

"Excess of the tendered item over RCE provision of that item must not be more than 15% or savings are indicated from other items of the PC-1 in the comparison sheet, otherwise either RCE/PC-1 shall be revised or Tenders shall be re-invited".


For the instant NIT, Procuring Agency is required to furnish copy of Revised PC-1.

- (vii) The Capital Cost of PC-1 Greater Karachi Sewerage Plan (S-III) is Rs.7,982 (Million) and Engineer's estimated cost for subject NIT is Rs.6,911.183,308 (million) (only for one component i.e. TP-III). Therefore Procuring Agency is advised to furnish complete report of Greater Karachi Sewerage Plan (S-III) that:

- List of total components / works along with estimated cost under the umbrella of Greater Karachi Sewerage Plan (S-III)
- List of completed components along with cost of Greater Karachi Sewerage Plan (S-III)
- List of ongoing / continuing components Greater Karachi Sewerage Plan (S-III) along with cost.

- (viii) Technical Bid for subject procurement was opened on 05.05.2014, Bid Validity Period expired on 02.08.2014 in terms of Rule-38 (1) of SPP Rules 2010.

2. In view of the above facts, it is again advised to furnish above said information regarding Para-1(iii)(iv) (v)(vi)&(vii) along with clarification / justification vide Para-1(i)(ii)(vi)&(viii) immediately and to ensure compliance of SPP Rules 2010 (Amended 2013) and Regulations in letter & spirit as failure to comply with the rules and regulations may render the procurement process "**misprocurement**".


(Musharraf Ahmed Bhatti)
Manager (Grievances)

A copy is forwarded for information to:

1. The Secretary, Local Government Department, Government of Sindh, Karachi.
2. The Managing Director, Karachi Water & Sewerage Board, Karachi.

NOTE SHEET

(1)

Paras

Reference

Subject APPROVAL OF BID EVALUATION REPORT (FINANCE).

Contract Package TP-III "Up-Gradation and Expansion of Treatment Plant TP-III, at Mauripur, Karachi, under S-III Project"

1/ KW&SB invited tenders from the Contractors having PEC registration in CA or CB Category with relevant specialization (CE -09, CE-10, ME-06, EE-04 & EE-05) for the proposed subject work, on 02.01.2014 (Annex-1). Ten contractors firms having registration in required category and specialization with PEC, purchased the bid documents.

2/ A tender Procurement Committee comprising of Nine Members headed by Chief Engineer (West) KW&SB (Annex-2) was constituted and assigned tasks by the Competent Authority of KW&SB, in the guidelines of Clause-7 & 8 of SPPRA Rules 2010.

3/ The Procurement Committee opened and announced the financial proposal at Stage-II on the specified date, time and venue i.e. 1500 hours on 26.05.2014 at Committee Room, M.D. Secretariat, Block-D, 9th Mile Karsaz KW&SB Office, Shahrah-e-Faisal, Karachi, prior to it technically proposal opened on 05.05.2014 in accordance to the criteria set for responsiveness of firm and only one firm submitted the bid documents.

4/ The only Contractor Firm (M/s. PAK OASIS INDUSTRIES (PVT) LIMITED) submitted bidding documents and found responsive technically to qualify for stage-II i.e. opening of financial proposal for Contract Package of STP-III.

5/ The announced Bid Price and the corrected bid price of the bidder is as under:

Name of Bidder	Announced Bid Price in Rupees	Corrected Bid Price (Rs)	Rank
M/s. Pak Oasis Industries (Pvt) Ltd	7,898,719,121	7,897,436,924	1st lowest

6/ The Procurement Committee carried out thorough evaluation of the bids in accordance with the standard guidelines for the evaluation of bids laid down by SPPRA and also carried out the scrutiny / examination of the bids for the verification, eligibility, bid Security, Completeness and Responsiveness of bids (financial proposal).

7/ Subsequently, the working of the Procurement Committee was compiled in shape of Bid Evaluation Report (Technical and Financial) for the subject Contract Package of S-III Project containing the preliminary as well as comprehensive evaluation of submitted responsive bidder.

8/ The bid of M/s. Pak Oasis Industries (Pvt) Limited was examined at first for following:

- 9/ 1) Verification: Properly signed and duly filled all forms and appendices of bid.
- 10/ 2) Bid Security: Inform of Bank Guarantee amounting to Rs. 50,000,000 valid upto Oct. 05, 2014, bearing No. LG 14900100001846 dated 02.05.2014 issued by J.S Bank, Shaheen Complex Branch, Karachi.
- 11/ 3) Responsiveness: Bid confirms all terms and condition and specification of Bid Documents.

NOTE SHEET

(2)

Paras

Reference

12/

COMPARISON WITH ENGINEER'S ESTIMATE

Name of Bidder	Engineer's Estimate (Rs.)	Quoted Price (Corrected)	% Above/Below
M/s. Pak Oasis Ind.	6,911,183,308	7,898,436,924	14.27 above

13/

The Procurement Committee having carried out the analysis, checks and pre-requisites for evaluation and in consideration of all aspects related to the tender. After due deliberation and consensus recommends that the work subject may be awarded to M/s. Pak Oasis Industries (Pvt) Ltd., being the only and lowest evaluated bidder for the offered Bid of Rs.7,897,436,924/- (Rupees Seven Thousand Eight Hundred Ninety Seven Million Four Hundred Thirty Six Thousand Nine Hundred Twenty Four only), which is 14.27 % above the engineer's estimate including provisional sums and 05% physical contingencies. Keeping in view of evaluated bid price, an undertaking is required that, the bidder possesses the adequate financial resources and should ensure that progress of work will not suffer due to financial constrains or non-availability of material, machinery and equipments.

14/

Submit please.

Executive Engineer / Secretary
Bid Evaluation Committee
S-III Project, KW&SB

15/

Convener Procurement Committee

Project Director S-III Project

Approved as proposed above.

CE(S-III)

Government of Pakistan
 Planning Commission
 (Public Investment Authorization-II Section)

27/11/07

1-5

No. 6(120)PIA-IPPC/2007

Islamabad, the 26th October, 2007

10.11.07
 1306/L

Memorandum

Subject: Greater Karachi Sewerage Plan (S-III)-(Umbrella PC-I)

Reference is invited to the minutes of ECNEC meeting held on 19-09-2007 on the above noted subject. Decision of the ECNEC is reproduced below:

"The Executive Committee of the National Economic Council (ECNEC) considered the Summary dated 15th August, 2007 submitted by the Planning Commission/Planning and Development Division on "Greater Karachi Sewerage Plan (S-III)-(Umbrella PC-I)" and approved the Umbrella project at overall cost of Rs. 7982 million (FEC nil), on 50:50 cost sharing basis between Federal and Provincial Governments. The maximum contribution of Federation Government will be Rs.3991 million. In case of any cost over-run, it will be arranged by Government of Sindh from own sources. The effluent treatment plants already installed in the industrial estates of Karachi will be coordinated into the Project."

2. PIA Section requested all the Technical Sections vide Memo No. 6(181)PIA-IPPC/2007 dated 29th August, 2007 to provide financial statement (i.e. Item wise break-up of approved cost of the project) as well as the statement of sanctioned strength/project posts duly signed by the Technical Section to enable PIA Section to countersign these statements and issue authorization accordingly.

3. It is, therefore, requested to provide the above-mentioned statement for further necessary action.

Inward / Outward
 D.P.M. (R-III)
 K.W & S.B

No. SIBS
 Date: 26-11-07

AND KWSB
 27/11/07

2227
 24/11/07

(M. Younus Butt)
 Research Officer
 Ph: 3207684

CEC Projects

ERW
 in project
 or necessary

Chief, PP&H Section,
 Chughtai Plaza, Blue Area,
 Planning Commission,
 Islamabad

Copy to:
 A.C-I (PIA)

Forwarded for kind
 perusal pl: 6/11/07

Chairman
 KWSB

10/11/07

Diary No. 1310/L
 Date: 10-11-07
 Thon

Staff Officer (Administration)
 K.W & S.B.

Have the proper follow up
 expedited this project.
 27/11/07
 City Mgr
 For your kind Personal Pl.
 27/11/07




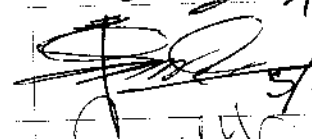

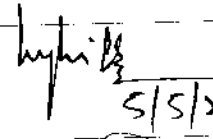

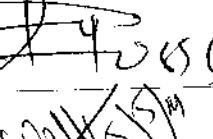
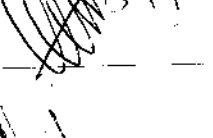
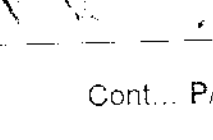

KARACHI WATER & SEWERAGE BOARD
OFFICE OF THE EXECUTIVE ENGINEER (S-III) PROJECT /
SECRETARY / MEMBER EVALUATION COMMITTEE
Block - D, 9th Mile Karsaz, Shakra-e-Faisal, Karachi
Phone & Fax No. 99240828

No. EE/SECY (EC)/(S-III)/2014/52

May 05, 2014

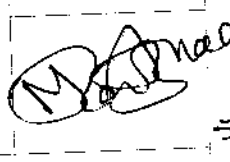
Subject: Contract Package TP- III "Up-Gradation and Expansion of Sewage Treatment Plant at Mauripur Karachi, Under Greater Karachi Sewerage Plan S-III"

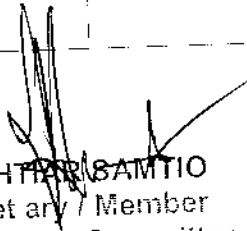
ATTENDANCE SHEET

NAME	DESIGNATION	SIGNATURE
Mr. Owais Malik	Convener / Member	 5/5/2014.
Mr. Qaiser Ali	Member	 5/5/14
Mr. S. M. Yahya	Director Labs. Env. Dept GOS (Member)	
Mr. Fahim Junejo	D.G (M&E) L. G G.O.S Member	
Mr. Maqsood Shaikh	S.E (KMC) Member	 5/5/2014.
Mr. Sardar Shah	Member	
Mr. Ayaz Tunio	Member	
Mr. Naveed Jabbar	A.O Member	
M/s. Techno Consultants Int.		

Cont... P/2

Bidders / Participants

Name of Representative	Firm / Company	Designation	Signature
Mr.	M/s. Crescent Const. Co.		
Mr.	M/s. Descon Engineering Limited		
Mr.	M/s. Habib Rafiq (Pvt) Limited		
Mr.	M/s. NCL - PESC - CRFG (JV)		
Mr. S.M. Raza Naqvi	M/s. Pak Oasis Industries	General Manager.	 5/5/14
Mr.	M/s. R. M. Gulistan Engineering & Cons.		
Mr.	M/s. Saadullah Khan & Brothers.		
Mr.	M/s. Sultan Mahmood & Co.		
Mr.	M/s. VINCI Construction Grand Project		
Mr.	M/s. Sardar M. Ashraf D. Baluch (Pvt) Ltd.		


MUKHTAR SAMTIO
 Secretary / Member
 Evaluation Committee



KARACHI WATER & SEWERAGE BOARD
OFFICE OF THE EXECUTIVE ENGINEER (S-III) /
SECRETARY EVALUATION COMMITTEE

Block – D, 1st Floor, 9th Mile Karsaz, Shakra-e-Faisal, Karachi

No. E.E/S-III/KW&SB/2014/275

Dated: May 8, 2014

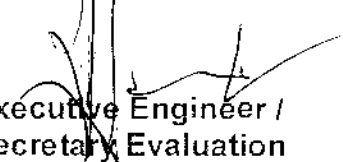
MINUTES OF MEETING

Subject: MEETING OF PROCUREMENT COMMITTEE FOR BID EVALUATION (TECHNICAL PROPOSAL) OF SEWAGE TREATMENT PLANT AT MAURIPUR KARACHI UNDER S-III PROJECT, KW&SB.

Ref. No. SPPRA SR No.18487, NIT REF. NO. INF-KRY- NO.3186/13

Kindly find attached minutes of the meeting as per Clause 41-9 on the above subject held on 5th May 2014 in Committee Room, Block-D, M.D's Secretariat, KW&SB chaired by Mr. Ovais Malik, Chief Engineer (West) as convener of meeting.

As per Clause 41-9 of SPPRA Rule 2010, the Bid (Technical Proposal) opened at 2.30 p.m. on schedule date in the presence of all members of committee constituted as per Clause No.7 of SPPRA Rule and representatives of contractor firms – List of participant attached at Annexure-1.


Executive Engineer /
Secretary Evaluation
Committee (S-III) Project,
KW&SB

Distribution:
All Members.

Copy to:
1. Project Director, (S-III) Project, KW&SB

Subject: **Minutes of Meeting of Procurement Committee for Bid Evaluation (Technical Proposal) of Sewage Treatment Plant at Mauripur, Karachi under S-III Project KW&SB, held on 5th May 2014 i.e. Opening of Technical Proposal.**

The Contract Packages of Sewage Treatment Plant's upgradation and expansion works under S-III Project was invited on 2nd January 2014 through local leading newspapers and in international print media on 19th March 2014. The Bid (Technical) opened as per amended schedule on 5th May, 2014 at 2.30 p.m. in the Committee Room of M.D's Secretariat, Block-D, 9th Mile Karsaz Office.

The meeting was chaired by Mr. Ovais Malik, Chief Engineer (West) KW&SB and attended by all members of the Committee and the representatives of the Contractor firms.

Sealed Boxes show to all participants in the room, and then at 2.30 p.m. opens to taken out the bids – seal of all bids checked by the Committee members, after which opened publically in presence of all members and representatives of all bidder's firms. Bid number marked on each bid and circulated among members for signing on title page of bid envelope.

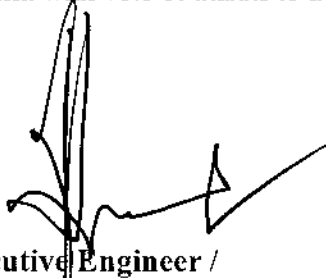
Attendance sheet forwarded for signing the attendance among all members and bidders representatives as per Clause 41(6) of SPPRA.

Following the Clause 46-2-(c) (d) of SPPRA Rule 2010, The Committee segregates the financial proposal in separate locked box.

The Convener inform to all members that technical evaluation of bids in accordance with evaluation criteria will begin from next meeting.

The meeting agenda completed, therefore the meeting ended at 5.50 p.m. with vote of thanks to and from the Chair.

Submitted please.


**Executive Engineer /
Secretary Evaluation Committee
S-III Project, KW&SB**

NOTE SHEET

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Paras


Reference

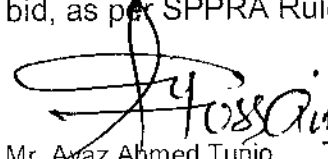
TP-III

SUB: TECHNICAL EVALUATION REPORT FOR CONTRACT PACKAGE "UP-GRADATION AND EXPANSION OF SEWAGE TREATMENT PLANT AT MAURIPUR, KARACHI UNDER S-III PROJECT.

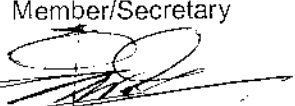
The Procurement Committee having carried out the critical analysis, check & pre-requisites for evaluation and In consideration of all aspects related to the technical proposal. After due deliberation and consensus recommends that only Applicant Firm M/s Pak Oasis Industries (Pvt) Ltd., qualify for the stage-II of bidding process wherein financial proposal will be opened.

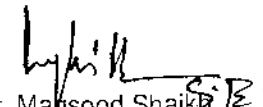
No bidder found non responsive who have been rejected on the ground of their technical proposal and returned their financial bid unopened. Therefore conduct the opening of financial proposal of only applicant bidder submitted substantially responsive & technically qualify bid, as per SPPRA Rules 2010.


Mr. Mukhtiar Ali Samito
EE (S-III)
Member/Secretary



Mr. Ayaz Ahmed Tunio
DPM S-III
Member



Mr. Sardar Ali Shah
PM S-III
Member

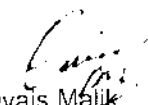

Syed Qaiser Ali
SE (E&M) KW&SB
Member


Mr. Mansoor Shaikh
Executive Engineer, KMC
Member


Mr. Naveed Jabbar
Accounts Officer (S-III)
Member

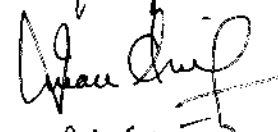

Mr. Faheem A. Junejo
Representative L.G (GOS)
Member


Mr. S.M. Yahya
Rep. Environmental
Deptt. GDS
Member


Mr. Ovais Malik
C.E. (Zone-W)
Convener

Encl: Technical Evaluation Report

Project Director (S-III), KW&SB.

Approved.
As proposed.

P.D (S-III)



Karachi Water and Sewerage Board
Greater Karachi Sewerage Plan (S-III)

BID OPENING CHECKLIST

Contract Reference: *Contract Package TP-III: Upgradation and Expansion of Sewage Treatment Plant at Mauripur, Karachi*

Bid Opening Date: 05-05-2014 Time: 1430 Hrs.

Name of Bidder: M/s Pak Oasis Industries (Pvt) Ltd.

- (a) Is outer envelope of bid sealed? Yes
- (b) Is Letter of Technical Bid completed and signed? Yes
- (c) Expiration date of bid : 05-05-2014
- (d) Is documentary authority for signing enclosed? Yes
- (e) Bid security enclosed (as required): Yes
- (f) Describe any "Substitution," "Withdrawal," or "Modification" submitted.

- (g) Additional comments

- (h) Name of bidder or his representative who attended bid opening.
Syed Muhammad Raza Naqvi, Mukarram Saed
- (i) Is envelope of financial bid sealed?

Signed by Bidder's Representative: M. R. Naqvi

Signed by: (Members, Procurement Committee)

[Handwritten signatures and dates of Procurement Committee members]
 5/5/14

Convenor of Procurement Committee

Greater Karachi Sewerage Plan (S-III)
Up-gradation and Expansion of Sewage Treatment Plant at Mauripur, Karachi
Technical Evaluation of Bidder
Status of Responsiveness

Bidder: *M/s Pak Oasis Industries (Pvt.) Ltd. (Sole Bidder)*

S.No	Description	Findings	Remarks
1	Valid PEC Registration Certificate in CA Category with Specialization in CE-09, CE-10, ME-06, EE-04 & EE-05.	Available	Pass
2	Average Annual Turnover (minimum Rs.3,000/- Million)	Rs. 4,404.812 Million	Pass
3	Auditor's Balance Sheets for last 3 years.	Available	Pass
4	Litigation History on Rs 100 Stamp paper	Available	Pass

RESULT

RESPONSIVE

Responsive

NON RESPONSIVE

Signature

Signature

Signature

Signature

Signature

Greater Karachi Sewerage Plan (S-III)
Up-gradation and Expansion of Sewage Treatment Plant at Mauripur, Karachi
Detailed Technical Evaluation of Bidder (M/s Pak Oasis Industries (Pvt.) Ltd.)

Total 100 Points

1.5.1 Qualification of Firm

DESCRIPTION		Weightage Points	Project Executed	Weightage Points Obtained
a.	(I) Experience in execution of mega Water / Waste Water Treatment Projects executed during last 5 years amounting to minimum Rs. 2000 Million.	25		
	(II) Experience in execution of mega Water / Waste Water Treatment Projects executed during last 5 years amounting to minimum Rs. 3000 Million.	30		
	(III) Experience in execution of mega Water / Waste Water Treatment Projects executed during last 5 years amounting to minimum Rs. 4000 Million.	35		35
		Weightage Points		Weightage Points Obtained
b.	Mandatory in House Design facility or Association with reputable Design House (The firm or his associates should have capacity to deal with technical aspects and have sufficient knowledge of Sewage Treatment Process).	30	-	20
		Weightage Points		Weightage Points Obtained
c.	Understanding of the Project along with the Methodology of its implementation.	35	-	30
Total Qualification Score (a+b+c)				85

Total Points 100

1.5.2 Key Personnel

Sr. No.	Position	Weightage Points		Weightage Points Obtained	
		Qualifications	Experience	Qualifications	Experience
1	Project Manager	3	12	3	12
2	Site Engineer (2 Nos) Civil	4	8	3.6	8
3	HSE Specialist	2	7	1.8	5.6
4	Structural Engineer	1	7	1	7
5	Material Engineer	3	7	0	7
6	Mechanical Engineer	5	8	5	8
7	Treatment Process Engineer	3	7	3	7
8	Instrumentation Engineer	4	7	3.6	7
9	Electrical Engineer	5	7	4.5	7
Total Weightage Points		30	70	25.5	68.6

Greater Karachi Sewerage Plan (S-II)
Up-gradation and Expansion of Sewage Treatment Plant at Mauripur, Karachi
Detailed Technical Evaluation of Bidder (M/s Pak Oasis Industries (Pvt.) Ltd.)

		Weightage Points	Weightage Points Obtained
a.	Qualification i. BE/BSC/BS Engg + Masters 100% ii BE/BSC/BS Engg 90 %	30	25.5
b.	Experience For Project Manager Only i. 20 years & above 100 % ii 15-20 years 90 % iii 10-15 years 80%	12	12
c.	Experience For 1. Site Engineer 2Nos. (2 x4) 2. HSE Specialist 3. Structural Engineer 4. Material Engineer 5. Mechanical Engineer 6. Treatment Process Engineer 7. Instrumentation Engineer 8. Electrical Engineer i. Above 10 years 100 % ii. 9 to 10 years 90 % iii 8 to 9 years 80 %	58 8 7 7 7 8 7 7 7	56.6

1.5.3 Key Equipments

Total Points 100

Sr. No	Equipment Type & Characteristics	Minimum Number Required	Points on Ownership	Points on Hiring	Weightage Points Obtained
1	Excavators/Rock Breakers	2	6	4	4
2	Wheel Loader	2	8	6	6
3	Grit/Sand BLASTING Equipment	2sets	8	6	6
4	Arc Welding Plant	2sets	8	6	6
5	Transit Concrete Mixer	2	8	6	6
6	Mobile Crane 20 Tons	2	8	6	6
7	Concrete Batching Plant 100 m ³ /day with backup Generators for Plant	1	12	8	8
8	Dewatering Pumps 4" & 6" Dia Suction	10	10	7	7
9	Deiescl Generators 100 to 500 KVA	4	12	7	7
10	Concrete Pumps	1	10	7	7
11	Dumpers	4	10	7	7
Total Weightage Points			100	70	70

The Applicants must provide the list of:

- Note:** (a) Equipment owned by the applicant along with the ownership Documents. If the ownership documents are not provided the equipment shall be considered as hired/rental.
 (b) Equipment to be Hired by the Applicant

Greater Karachi Sewerage Plan (S-III)
Up-gradation and Expansion of Sewage Treatment Plant at Mauripur, Karachi
Detailed Technical Evaluation of Bidder (M/s Pak Oasis Industries (Pvt.) Ltd.)

1.5.4 Financial

Total Weightage Points 100

1	Average Annual Income (Net Profit) for the last 3 Years	Weightage Point	20	Weightage Points Obtained
a.	Rs.50 million to < 100 million	14		-
b.	Rs. 100 million to < 150 million	17		17
c.	Rs.150 million to < 200 million	20		-

Note: To be determined from the Auditor's Balance Sheet

2	Year	Average Annual Turn Over (Equivalent in Pak Rs.)	Weightage Point	50	Weightage Points Obtained
a.	1. Fiscal Year 2010 to 2013	Rs.3000 million to < 4000 million	35		-
b.	2. Fiscal Year 2010 to 2013	Rs.4000 million to < 5000 million	42		42
c.	3. Fiscal Year 2010 to 2013	Rs.5000 million and above	50		-

3	Minimum Cash flow Requirement	Weightage Point	30	Weightage Points Obtained
a.	Rs. 500 million to < 800 million	21		-
b.	Rs. 800 million to < 1000 million	25		-
c.	Rs. 1000 million & above	30		30

Note:

Minimum Cash Flow = (10 x working capital) – (30% of current commitments) + credit line
 {Working capital = Current assets minus Current Liabilities}

- 1 The Applicant must Submitted the unconditional Bank Letter on the Attached Performa P-1 Mentioning the currently available credit line of the applicant and Auditor's Balance sheets for the last 3 Years.
- 2 Minimum available Credit Line must be 500 Millions through Bank's Letter.
- 3 Where necessary the Employer may make enquiries with the applicant's Bank or Auditors.

1.5.4.1 Average Annual Income	=	17
1.5.4.2 Average Annual Turnover	=	42
1.5.4.3 Minimum Cash Flow	=	30
Total Financial score		89

RESULT			
4.3.1	Qualification	=	85
4.3.2	Key Personal	=	94.1
4.3.3	Key Equipment	=	70
4.3.4	Total Financial Score	=	89
TOTAL OBTAINED SCORE			338.1
			Technically Passed

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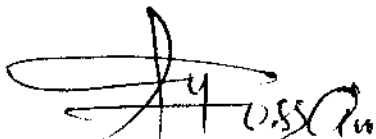
SUMMARY AND CONCLUSION

After detailed in depth scrutiny, verification, and evaluation of submitted documents, in accordance with the criteria, the Evaluation Committee found that only participated Contractors' Firms, is qualify for the stage-II of bidding process wherein financial proposal will be opened.


Sr. No.	Name of Firms
1	M/s Pak Oasis Industries (Pvt) Ltd.




Mr. Mukhtiar Ali Samito
EE (S-III)
Member/Secretary



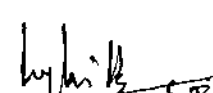
Mr. Ayaz Ahmed Tunio
DPM S-III
Member




Mr. Sardar Ali Shah
PM S-III
Member



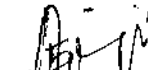
Syed Qaiser Ali
SE (E&M) KW&SB
Member



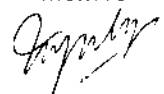
Mr. Maqsood Shaikh
Executive Engineer, KMC
Member



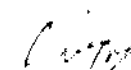
Mr. Naveed Jabbar
Accounts Officer (S-III)
Member



Mr. Faheem A. Uunejo
Representative L.G (GOS)
Member



Mr. S.M. Yahya
Rep. Environmental
Deptt. GOS
Member



Mr. Ovais Malik
C.E. (Zone-W)
Convener



OFFICE OF THE CHIEF ENGINEER (WEST), KW&SB
Old KBC Building Behind Civic Centre Gulshan-e-Iqbal Karachi

No. KW&SB/Zone-WEST/S-III/2014/282..

Dated 23rd May 2014

To:
M/s. Pak Oasis Industries (Pvt) Ltd

Reference: Bids for Provision of "Upgradation and Expansion of Sewage Treatment Plant at Mauripur, Karachi.

Subject: Evaluation of Technical Proposal

The subject bid was submitted under single-stage – two envelop procedure.

The Technical Proposal of the only received bid was opened by the Evaluation Committee appointed by the Competent Authority of Karachi Water and Sewerage Board vide their notification No. KW&SB/D.M.D/HRD&A/35 on 04/02/2014, in presence of the representatives of the bidders..

The evaluation of the Technical proposal of the only one received bid from M/s Pak Oasis Industries (Pvt.) Ltd., was carried out by the Evaluation Committee in accordance with the Evaluation Criteria and other terms and condition set forth in the bidding documents with the following result.

The detailed Evaluation Report comprising of Technical and Financial evaluations will be posted on the SPPRA website, in due course of time.

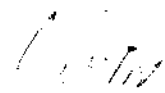
(i) Technical Proposal of M/s. Pak Oasis Industries (Pvt) Ltd.

The proposal was found technically responsive and on evaluation was awarded 338 marks out of total 400 marks and is considered technically qualified to meet the requirements of the bid.

Therefore, in accordance with the Sindh Public Procurement Authority, Rules 2010, the Evaluation Committee is please to invite M/s Pak Oasis Industries (Pvt.) Ltd. to attend the financial opening of subject contract bid.

The venue, date and time of Financial Opening of technically qualified bid is given below:

Date: May 26, 2014
Day: Monday
Time: 3:00 P.M
Venue: Committee Room of S-III Project Secretariat
Karachi Water and Sewerage Board
First Floor, Block-D, 9th Mile Office,
Shahrah-e-Faisal, Karsaz, Karachi.
Phone No.: 021-99240828


CHIEF ENGINEER (WEST)
Convener (Procurement Committee)
Karachi Water and Sewerage Board

cc to:

1. The Managing Director (KW&SB).
2. The Project Director (S-III Project) KW&SB
3. Secretary (Procurement Committee), KW&SB
4. Members (Procurement Committee) {with the request to attend the Financial Bid Opening}



KARACHI WATER & SEWERAGE BOARD

Annexure-F

BID EVALUATION REPORT


1.	Name of Procuring Agency	Karachi Water & Sewerage Board
2.	Tender Reference No:	SR No. 18487
3.	Tender Description/Name of Work	CONTRACT PACKAGE TP-III UPGRADATION AND EXPANSION OF SEWAGE TREATMENT PLANT AT MAURIPUR, KARACHI UNDER S-III PROJECT
4.	Method of Procurement	Single Stage Two Envelops
5.	Tender Published	Published on 02-01-2014 in leading local Newspapers and on 19-03-2014 in International print media..
6.	Total bid Documents Sold	08 Nos. (Eight)
7.	Total Bid Received	01 No. (One)
8.	Technical Bid Opening Date (if applicable)	05-05-2014
9.	No. of Bid Technically Qualified (if applicable)	01 No. (One)
10.	Bid(s) Rejected	Nil
11.	Financial Bid Opening Date	27-05-2014

12. Bid Evaluation Report


S. No.	NAME OF FIRM / BIDDER	CORRECT COST OFFERED BY THE BIDDER	RANKING IN TERMS OF COST	COMPARISON WITH ESTIMATED COST	REASON FOR ACCEPTANCE/ REJECTION	REMARKS
1	M/s Pak Oasis Industries.	Rs.7,898,725,589	1st Lowest	14.29% above	Accepted being the lowest Evaluated Bid	

25/08/14

**CONTRACT PACKAGE TP-III UPGRADATION AND
EXPANSION OF SEWAGE TREATMENT PLANT AT
MAURIPUR, KARACHI UNDER S-III PROJECT**


Mr. Mukhtar Samtio
EE (S-III)
Member/Secretary

Mr. Sardar Ali Shah
PM(S-III)
Member


Mr. Qaisar Ali
SE
Member

*Agreed with the comments written
by D.G (M&E) & P.M (S-III)
Project mentioned below.*

*Agreed with the comments
of D.G (M&E) L.G Dept. G.O.S.
as below.*

Ayaz Hussain Tulp
Ayaz Hussain Tulp
DPM (S-III)
Member

Mr. Maqsood Shaikh
Mr. Maqsood Shaikh
SE, KMC
Member

Mr. Naveed Jabbar
Mr. Naveed Jabbar
Accounts Officer (S-III)
Member

25/8/14

Mr. Faheem A. Junejo
Mr. Faheem A. Junejo
Representative L.G (GOS)
Member

Mr. S.M. Yahya
Mr. S.M. Yahya
Rep. Environmental
Deptt. GOS
Member

Mr. Ovais Malik
Mr. Ovais Malik
C.E. (Zone-W)
Convener

Remarks of the Rep of LG -

1. Since it is a single bid, therefore validity of bid may be sought from SPPRA.
2. As the lowest offered bid is much higher the provisions of relevant works in the approved PC-I, therefore approval may be sought from the competent forum prior to award of work.

Signature

- i) All above objections raised by D.G (M&E) Local Govt-Sindh are un-avoidable. They must be addressed in the light of Article 48 SPPRA-Act 2009-10 to avoid misprocurement.
- ii) I am aggrieved at, the technical report in favour of bidder because Article 2.16 (A) (i) SPPRA are not followed.

Signature
25/8/14



KARACHI WATER & SEWERAGE BOARD

OFFICE OF THE EXECUTIVE ENGINEER (S-III) PROJECT /
SECRETARY / MEMBER EVALUATION COMMITTEE

Block - D, 9th Mile Karsaz, Shakra-e-Faisal, Karachi
Phone & Fax No. 99240828

No. EE/SECY (EC)/(S-III)/2014/

May 26, 2014

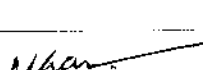
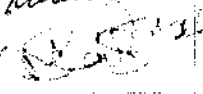
Subject: Contract Package TP- III "Under Greater Karachi Sewerage
Plan S-III Project"

BID EVALUATION COMMITTEE

ATTENDANCE SHEET

NAME	DESIGNATION	SIGNATURE
Mr. Owais Malik	Chief Engineer Convener / Member	
Mr. Qaiser Ali	Superintending Engineer Member	 26/5/14
Mr. S. M. Yahya	Director Labs. Env. Dept GOS (Member)	
Mr. Fahim Junejo	D.G (M&E), LG (GOS) Member	
Mr. Maqsood Shaikh	S.E (KMC) Member	 26/5
Mr. Sardar Shah	Project Manager Member	 26/5/14
Mr. Ayaz Tunio	Dy. Project Manager Member	 26/5/14
Mr. Naveed Jabbar	A/c. Officer Member	
Mr. Mukhtiar Samtio	Executive Engineer Secretary	

Bidders / Participants

Name of Representative	Firm / Company	Designation	Signature
Mr. S. Mukherjee	M/s. Pak Oasis Industries	Multi-Technical	
S. M. PANDA NAQU		General Manager Commercial	
Mr.	M/s. P. S. Industries		
Mr.	M/s.		
Mr.	M/s.		
Mr.	M/s.		
Mr.	M/s.		
Mr.	M/s.		
Mr.	M/s.		
Mr.	M/s.		


MUKHTIAR SAMTIO
 Secretary / Member
 Evaluation Committee



KARACHI WATER & SEWERAGE BOARD
OFFICE OF THE EXECUTIVE ENGINEER (S-III) /
SECRETARY EVALUATION COMMITTEE

Block - D, 1st Floor, 9th Mile Karsaz, Shakra-e-Faisal, Karachi

No. EE/S-III/KW&SB/2014/287-A

Dated: May 31, 2014

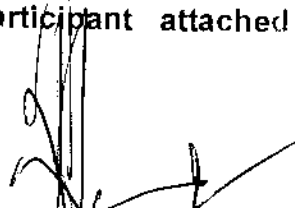
MINUTES OF MEETING

Subject: MEETING OF PROCUREMENT COMMITTEE FOR BID EVALUATION (FINANCIAL PROPOSAL) OF STP-I UNDER S-III PROJECT, KW&SB.

Ref. No. SPPRA SR No.18489, NIT REF. NO. INF-KRY- NO.529/14

Kindly find attached minutes of the meeting as per Clause 41-9 on the above subject held on 27TH May 2014 in Committee Room, Block-D, M.D's Secretariat, KW&SB chaired by Mr. Ovais Malik, Chief Engineer (West) as convener of meeting.

As per Clause 41-9 of SPPRA Rule 2010, the Bid (Financial Proposal) opened at 11:00 a.m. on schedule date in the presence of all members of committee constituted as per Clause No.7 of SPPRA Rule and representatives of contractor firms - List of participant attached at Annexure-1.


Executive Engineer /
Secretary Evaluation
Committee (S-III) Project,
KW&SB

Distribution:
All Members.

Copy to:
1. Project Director, (S-III) Project, KW&SB

MINUTES OF MEETING

Subject: **Minutes of Meeting of Procurement Committee for Bid Evaluation (Financial Proposal) of STP-III, under S-III Project, KW&SB, held on 26th May 2014 i.e. Opening of Financial Proposal.**

The Contract Packages of STP-III Works (Upgradation and Expansion of Sewage Treatment Plant at Mauripur, Karachi) under S-III Project was invited on 2nd January 2014 through local leading newspapers and on 19th March 2014 in International Newspapers. The Bid was opened as per amended schedule on 26th May, 2014 at 11:00 a.m. in the Committee Room of M.D's Secretariat, Block-D, 9th Mile Karsaz Office.

The meeting was chaired by Mr. Ovais Malik, Chief Engineer (West) KW&SB and attended by all members of the Committee and the representatives of the Contractor firms.

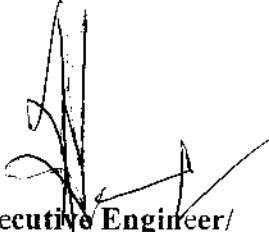
Sealed Box shown to all participants in the room, and then at 11:00 a.m. opened to taken out the bids. Seal of all bids (Financial Proposal) checked by the Committee members and representative of participants firm, after which opened publically in presence of all members and representatives of all bidder's firms. Bid number marked on each bid and circulated among members for signing on title page of bid envelope.

Attendance sheet forwarded for signing the attendance among all members and bidders representatives as per Clause 41(6) of SPPRA.

Following the Clause 41-9 of SPPRA Rule 2010, the name of bidder and total amount of bid read loudly and recorded when opened, also check for overwriting or cutting which is not found.

The Convener inform to all members that financial evaluation of bids in accordance with evaluation criteria will be begin from next meeting.

The meeting agenda completed, therefore the meeting ended at 4.50 p.m. with vote of thanks to and from the Chair.


**Executive Engineer/
Secretary Evaluation Committee
S-III Project, KW&SB**

KARACHI WATER & SEWERAGE BOARD



CONTRACT PACKAGE STP - 3

PROJECT:

UP-GRADATION AND EXPANSION OF
TREATMENT PLANT TP-III, AT
MAURIPUR, KARACHI UNDER S-III
PROJECT

FINANCIAL EVALUATION REPORT

JULY, 2014

FINANCIAL EVALUATION REPORT TP-III
CONTENTS

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3.4 Bid Prices Announced	2
4.0 PRELIMINARY EXAMINATION OF TENDERS	2
4.1 M/s. Saadullah Khan & Brothers	3
5.0 DETAILED EXAMINATION OF TENDER	3
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5.2 Review of Item Rate	4
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KARACHI WATER & SEWERAGE BOARD

UP-GRADATION AND EXPANSION OF TREATMENT PLANT TP-III, AT MAURIPUR KARACHI UNDER S-III PROJECT

1. INTRODUCTION

- 1.1 Karachi with an ever-increasing population that currently stood at around 20 million, is facing a severe sanitation crisis; unhygienic conditions at Sea Coast, Clogged Nullahs, Blocked Drains, and broken up Main Trunk Sewers and out of order Treatment Plants. The current disposal system lacks treatment facilities and requires conveyance network for the sewage to divert it to the treatment plant which are currently being disposed off into coastlines of Karachi City, untreated and thereby causing serious threats to marine life and port operations.
- 1.2 In order to deal with the above stated condition Karachi Water & Sewerage Board (KW&SB) initiated a program for the implementation of Greater Karachi Sewerage Plan (S-III), which includes the Construction of Interceptor sewers along Malir and Lyari Rivers on both sides from outfall of sea to city limits and diverting the generated sewage flows from these rivers to treatment plants including capacity enhancement of existing and construction of new sewage treatment plants at Lyari and Malir River basins.
- 1.3 The subject tender evaluation report is pertaining to Contract Package STP-III upgradation and expansion of treatment plant, TP-III at Mauripur Karachi under S-III Project.

2. BIDDING PROCESS

- 2.1 The Bids were invited through leading National Newspapers published on 2nd January, 2014 and in International Newspapers published on 19th March, 2014 on the basis of Lowest Evaluated Responsive Bid (LERB). In accordance with Clause 46 (2) of SPPRA Rules – 2010.
- 2.2 **Numbers of Firms to Whom Tenders Documents Were Sold:**
Ten (10) Nos. Tenders Documents were sold to the tenders, till last extend date advertised in Corrigendum No.4.



3 BID SUBMISSION AND OPENING:

3.1 Bid Submission Deadline:

The deadline was fixed on 5th May, 2014 by 1400 Hrs.

3.2 Bid Opening:

Out of Ten Numbers issued bid documents, Only one Tender was received and opened (technical proposals) by the tender opening and evaluation committee on 5th May, 2014 at 14:30 Hrs, in the presence of the representative of the participating firms, the following firms submitted their bids.

a) M/s. Pak Oasis Industries (Pvt) Limited.

3.4 Bid Validity Period:

According to terms and conditions of the contract the validity period of bid was fixed as 120 days from the deadline for submission of tender, being J.C Bidding.

3.5 Bid Price Announced

The bid prices were announced in the presence of the representatives of the participating firm.

The summary of announced price is given in table and is also indicated herein

(Rs. In millions)

Sr. No.	TENDER	AMOUNT
1	M/s. Pak Oasis Industries	Rs.7,898,719,121/=

4. PRELIMINARY EXAMINATION OF TENDERS:

The preliminary examination of tenders was made to identify and reject the bids of that were incomplete, invalid or substantially non-responsive to the bidding documents. These following checks have been applied :

a) Verification:

- i) Is the bid properly signed?
- ii) If the bidders are a joint venture, agreement is submitted.
- iii) Documentary evidence of authority to sign the bid.

b) Eligibility:

- i) Is the bidder has been qualified at stage – I?

c) Bid Security:

- i) Is the required bid security submitted?



- ii) Is the bid security valid upto required period?
- d) **Substantial Responsiveness to Tender Documents:**
Is the bid substantially responsive to the requirements of the tender documents without material deviation or reservation? A material deviation is one (1) which effects in any substantial way the scope quality of performance work (2) which limits in any substantial way in consistent with the tender documents, the employers rights or the tenders obligation under the contract or (3) adoption whereof would affect unfairly the competitive positions of the other tenders presenting substantially responsive tenders.

4.1 M/s. Pak Oasis Industries (Pvt) Limited:

a) Verification:

- i) The bid is properly signed and stamped.
ii) N.A.
iii) Documentary evidence of authority to sign the bid is attached.

b) Eligible:

They are eligible to participate in the tender, as their technical proposals have been accepted at stage-1.

c) Bid Security:

They have submitted Bid Security in shape of Bank Guarantee No. LG No.14900100001846 dated 2nd May, 2014 from J.S Bank, Shaheen Complex Branch amounting to Rs.50,000,000/- and valid upto 5th October 2014.

The authenticity of the subject Bank Guarantee may be verified by KW&SB.

d) Substantial Responsiveness to Tender Requirements:

No material deviation or reservations were notified in the bid.

5. DETAILED EXAMINATION OF TENDER:

5.1 Arithmetical Check:

The Bill of Quantities (BOQ) of each substantially responsive bidder has been checked arithmetically and minor mistakes have been corrected and implemented accordingly.

**5.2 Review of Item Rate:**

A detailed comparative statement of substantially responsive bids with Engineer's Estimate (excluding provisional sum and 5% Physical contingencies) has been made and is presented in Annexue-1 of this report. A summary of comparative study is reflected in Table – 8.

It will be seen from Table – 8 that:

- M/s. Pak Oasis Industries (Pvt) Limited has quoted a total price of Rs.7,897,436,924, which is 14.27 % above the Engineer's Estimate.

Since M/s. Pak Oasis Industries (Pvt) Limited has secured the 1st lowest evaluated position at 14.27% above the Engineer's Estimate, their quoted rates for the items of work, which make the significant financial impact, have been examined in detail.

6. DETERMINATION OF AWARD:

In view of the position as stated in this report the lowest evaluated responsive bid of M/s. Pak Oasis Industries (Pvt) Limited can be considered for acceptance and in this regard financial concurrence of contract Cost may be sort out from available funds for the project.

7. RECOMMENDATIONS:

The price quoted by M/s. Pak Oasis Industries (Pvt) Limited is Rs.7,897,436,924. Which is 14.27% above the Engineer's Estimate and being the lowest and single bidder, they can be considered for the contract and competent authority may offer letter of acceptance subject to approvals of authorities.

8. CONCLUSION:

The recommendations made in this report are subject to the availability of required funds for the expenditure incurred in the proposed Contract Package of STP-III under S-III Project.

ANNEXURE



TABLE - 1 IDENTIFICATION

1.1	Name of Project	Greater Karachi Sewerage Plant (S-III) Project
1.2	Employer a) Name b) Address	a) Karachi Water & Sewerage Board. b) Block "D", 1 st Floor, 9 th Mile Karsaz, Shah-e-Faisal, Karachi.
1.3	Contract Number (Identifications)	Contract Package STP - I
1.4	Contact Description	Upgradation and construction of new RCC conduit, interceptors and other allied works from Haroonabad, SITE, under S-III Project.
1.5	Engineer's Cost Estimate (s)	Rs. 4,192,209,558/-
1.6	Method of Procurement	I.C.B. one state two envelope
1.7	Fixed Price Contract	Yes <input checked="" type="checkbox"/> No. <input type="checkbox"/>



TABLE – 2 BIDDING PROCESS

2.1	Prequalification carried out a) Number of Firms Qualified	N.A.
2.2	Procurement / Tender Notices a) Name of National Newspaper b) Issue date c) Number of individual firms / notified	N.A.
2.3	Standard Bidding Documents a) Title, publication date. b) Date of issue to Bidders	2 nd January, 2014 9 th January, 2014
2.4	Number of firms to whom document issued	Eight (08)
2.5	Amendments to documents, if any a) List all amendments	
2.6	Date of Pre-Bid Conference, if any	March, 2014
2.7	Date of minutes of conference sent to bidders	March, 2014



TABLE – 3 BID SUBMISSION AND OPENING

3.1	Bid submission deadline a) Original date, time b) Extension, if any	Up to
3.2	Bid opening date, time (actual)	9 th May 2014
3.3	Bid Number of bids submitted	02 Nos.
3.4	Bid validity period (days, weeks or months) a) Original specified b) Extension, if any	120 days after the date of Tender opening Nil

TABLE 4. SUMMARY OF BID PRICES (AS READ ONLY)

Sr. No.	Bidder Identification	Read out Bid Prices (Pak Rupees)		Modification or Comments
	Bidder Identification (a)	Amount Rs. (b)	Rebate / Premium if any (c)	
1	M/s. Pak Oasis Industries (Pvt.) Ltd.	Rs. 7898,719,121/-	NIL	NIL



TABLE 5. PRELIMINARY EXAMINATION

BIDDER	VERIFICATION 1. Properly signed 2. Joint Venture Agreement Submitted 3. Evidence of authority to sign	ELIGIBILITY 1. Prequalified 2. Affiliated with a consulting services firm	BID SECURITY (in the form of Pay Order / Bank Guarantee / Insurance Guarantee Amount in Rupees	SUBSTANTIAL Responsiveness to Tender Requirements	ACCEPTANCE for Detailed Examination
(a)	(b)	(c)	(d)	(e)	(f)
M/s. Pak Oasis Industries (Pvt.) Ltd.	1. Yes 2. N.A. 3. Yes	1. Yes (stage-I) 2. No	Bank Guarantee for Rs. 40 Million	Fonud No Material reservation's or Deviations	Yes



TABLE 6. CORRECTIONS AND UNCONDITIONAL DISCOUNTS

Sr. No.	Bidder	Read-out Bid Price (S)		
		Amount (S) Rs.	Discount / Premium of any	Amount after discount / premium
	(a)	(b)	(c)	(d)
1.	M/s. Pak Oasis Industries (Pvt.) Ltd.	Rs. 7898,719,121/-	Nil	Rs. 7898,719,121/-



TABLE 7. ADDITIONS, ADJUSTMENTS, AND PRICED DEVIATIONS

Specify Evaluation Currency: Pak Rupees

Sr. No.	Bidder	Corrected / Discounted Bid Price Rs.	Additions	Adjustments	Priced Deviations	Total Price Rs.
	(a)	(b)	(c)	(d)	(e)	(f)=(b)+(c)+(d)+(e)
1	M/s. Pak Oasis Industries (Pvt.) Ltd.	Rs. 7897,436,924/-	-	-	-	Rs. 7897,436,924/-



TABLE 8. SUMMARY OF COMPARATIVE COST
(Excluding Provisional Sum and Contingencies)

Sr. No.	Name of Contractor	Cost as per Engineer's Estimate	Quoted Price (Rs.)	Quoted Price (Rs.)	Difference B/W Engineer's Estimate (Rs.)	
		Less Provisional (a)	By Contractor Including Discount / Rebate (b)	By Contractor Less Rebate (if any), Provisional (c)	d = c-a	E = (d/a) x 100
1	M/s. Pak Oasis Industries (Pvt.) Ltd.	Rs. 6910,183,308/-	Rs. 7897,436,924/-	Rs. 7896,436,924/-	Rs. 986,253,616/-	14.27%



ANNEXURE

CONTRACT PACKAGE TP-III UPGRADE AND EXPANSION OF SEWAGE TREATMENT
PLANT AT MAURIPUR, KARACHI
CONTRACT PACKAGE TP-III
COMPARATIVE ESTIMATE
SUMMARY

SR. NO.	TITLE	ENGINEER'S ESTIMATE	M/S. PAK OASIS IND.	% Above / Below
1	CIVIL WORKS	2,907,393,555	3,064,113,274	5.39
2	CIVIL RESTORATION WORKS	474,753,000	429,634,300	-9.50
3	ELECTRIC WORKS	869,925,940	962,403,925	10.63
4	MECHANICAL WORKS	1,593,585,235	2,328,754,500	46.13
5	GENERAL WORKS	146,944,402	133,262,500	-9.31
6	DAY WORKS	15,397,209	38,200,000	148.10
7	OPERATION AND MAINTENANCE	574,080,000	565,000,000	-1.58
	TOTAL 1 TO 7	6,582,079,341	7,521,368,499	14.27
5% PHYSICAL CONTINGENCIES FOR VARIATION / EXTRA WORK INSTRUCTED BY THE ENGINEER		329103967	376068425	14.27
GRAND TOTAL OF ENGINEER'S ESTIMATE		6,911,183,308	7,897,436,924	14.27

**CONTRACT PACKAGE TP-III UPGRADE AND EXPANSION OF SEWAGE TREATMENT
PLANT AT MAURIPUR, KARACHI
CONTRACT PACKAGE TP-III
COMPARATIVE ESTIMATE
SUMMARY OF COST - CIVIL**

SR. NO.	TITLE	ENGINEER'S ESTIMATE	M/S. PAK OASIS IND.	% Above / Below
1	GEOTECHNICAL INVESTIGATION	2,500,000	10,050,000	302.00
2	COARSE SCREEN	29,823,435	35,339,471	18.50
3	WASTE WATER PUMPING STATION	125,483,106	152,889,995	21.84
4	SECONDARY PUMPING STATION	50,730,429	61,205,273	20.65
5	COMMON INFLEUENT CHAMBER	53,977,789	64,933,568	20.30
6	FINE SCREEN CHAMBER	19,336,662	25,004,780	29.31
7	GRIT CHAMBER	39,762,070	50,331,195	26.58
8	DISTRIBUTION PIT 01	5,412,886	6,522,420	20.50
9	PRIMARY SEDIMENTATION TANK	255,736,236	333,112,905	30.26
10	JUNCTION PIT 01	4,854,837	5,687,318	17.15
11	DISTRIBUTION PIT 02 A&B	16,874,178	20,834,418	23.47
12	TRICKLING FILTERS	1,225,785,223	663,111,257	-45.90
13	DISTRIBUTION PIT 03 A&B	7,420,037	8,048,178	8.47
14	HUMUS TANKS	362,153,204	474,321,012	30.97
15	PRIMARY SLUDGE PUMPING ROOM	5,864,513	6,313,622	7.66
16	HUMUS SLUDGE PUMPING ROOM "A"	5,232,218	5,514,374	5.39
17	HUMUS SLUDGE PUMPING ROOM "B"	3,328,617	3,499,540	5.13
18	THICKENED SLUDGE PUMPING ROOM	5,153,268	5,419,374	5.16
19	PICKET FENCING THICKENERS	78,477,528	100,779,643	28.42
20	SLUDGE DIGESTERS	127,217,190	161,486,896	26.94
21	DIGESTED SLUDGE PUMPING ROOM	5,559,764	5,948,505	6.99
22	DRAINAGE PUMPING STATION	3,889,645	4,395,874	13.01

23	SLUDGE TRANSFER STATION	2,676,502	2,867,068	7.12
24	SLUDGE DRYING BEDS	169,876,920	291,711,584	71.72
25	MAIN PUMPING STATION POWER HOUSE	9,404,992	8,889,320	-5.48
26	TREATMENT PLANT POWER HOUSE	14,784,650	18,650,919	26.15
27	SUB-STATION 01	8,094,146	7,592,474	-6.20
28	SUB-STATION 02	4,832,657	4,391,208	-9.13
29	SUB-STATION 03	4,617,829	4,184,789	-9.38
30	PIPES & FITTINGS	166,310,632	361,428,864	117.32
31	STROM WATER DRAINAGE NETWORK	16,057,993	30,615,860	90.66
32	ROAD WORKS	76,164,402	125,031,600	64.16
	TOTAL COST OF CIVIL WORKS	2,907,393,558	3,060,113,304	5.25

**CONTRACT PACKAGE TP-III UPGRADATION AND EXPANSION OF SEWAGE TREATMENT
PLANT AT MAURIPUR, KARACHI**
**CONTRACT PACKAGE TP-III
COMPARATIVE ESTIMATE
SUMMARY OF COST - CIVIL (REHABILITATION)**

SR. NO.	TITLE	ENGINEER'S ESTIMATE	M/S. PAK OASIS IND.	% Above / Below
1	COARSE SCREEN CHAMBER	1,051,000	1,773,000	68.70
2	MAIN PUMPING STATION	1,275,000	1,602,500	25.69
3	FINE SCREEN CHAMBER	650,000	1,321,500	103.31
4	DETRITORS	4,080,000	9,212,000	125.78
5	INLET CHANNEL ANAEROBIC LAGOONS	1,301,500	2,876,500	121.01
6	ANEROBIC LAGOONS	71,460,000	85,630,000	19.83
7	OUTLET CHANNEL ANAEROBIC LAGOONS	1,478,500	3,700,500	150.29
8	FACULTATIVE PONDS	391,200,000	318,850,000	-18.49
9	SECONDARY PUMPING STATIONS	1,352,500	2,505,000	85.21
10	SECONDARY PUMPING STATIONS PANEL ROOMS	535,000	1,374,000	156.82
11	INLET WORKS SUB-STATION	369,500	789,800	113.75
	TOTAL COST OF CIVIL REHABILITATION	474,753,000	429,634,800	-9.50

**CONTRACT PACKAGE TP-III UPGRADATION AND EXPANSION OF SEWAGE TREATMENT
PLANT AT MAURIPUR, KARACHI**
CONTRACT PACKAGE TP-III
COMPARATIVE ESTIMATE
SUMMARY OF COST (ELECTRICAL)

SR. NO.	TITLE	ENGINEER'S ESTIMATE	M/S. PAK OASIS IND.	% Above / Below
1	MAIN PUMPING STATION POWER HOUSE	74,784,860	78,852,600	5.44
2	TREATMENT PLANT POWER HOUSE	456,737,190	401,702,100	-12.05
3	SUB-STATION - I	26,941,040	39,939,300	48.25
4	SUB-STATION - II	12,319,110	24,105,100	95.67
5	SUB-STATION - III	7,238,700	15,019,000	107.48
6	SUB-STATION FOR SECONDARY PUMPING STATION (EXISTING FROM I TO VI)	64,021,620	63,219,600	-1.25
7	SUB-STATION FOR INLET WORKS (EXISTING)	7,353,080	14,903,375	102.68
8	MAIN PUMPING STATION (EXISTING)	4,991,370	13,644,500	173.36
9	WASTE WATER PUMPING STATIONS	1,353,210	3,223,700	138.23
10	SECONDARY PUMPING STATIONS (EXISTING FROM I TO VI)	2,434,500	6,144,000	152.37
11	SECONDARY PUMPING STATION	744,870	1,857,650	149.39
12	PRIMARY SLUDGE PUMPING ROOMS (FROM I TO II)	311,480	876,000	181.24
13	HUMUS SLUDGE PUMPING ROOMS (FROM I TO II)	328,080	943,000	187.43
14	HUMUS SLUDGE PUMPING ROOMS (FROM III TO IV)	332,820	883,000	165.31
15	THICKENED SLUDGE PUMPING ROOM	155,740	451,500	189.91
16	DIGESTED SLUDGE PUMPING STATION	164,040	477,500	191.09
17	DRAINAGE PUMPING STATION	145,830	455,500	212.35
18	SLUDGE TRANSFER STATION	154,570	455,500	194.69
19	EXTERNAL AREA WORKS	209,413,830	295,703,000	41.21
	TOTAL COST OF ELECTRICAL WORKS	869,925,940	962,855,925	10.68

**CONTRACT PACKAGE TP-III UPGRADATION AND EXPANSION OF SEWAGE TREATMENT
PLANT AT MAURIPUR, KARACHI**
CONTRACT PACKAGE TP-III
COMPARATIVE ESTIMATE
SUMMARY OF MECHANICAL COST

SR. NO.	TITLE	ENGINEER'S ESTIMATE	M/S. PAK OASIS IND.	% Above / Below
1	MANUALLY CLEANED MECHANICALLY OPERATED COARSE SCREENS	33,113,117	38,200,000	15.36
2	MECHANICALLY CLEANED MECHANICALLY OPERATED RAKED TYPE FINE SCREENS	50,003,272	83,532,000	67.05
3	STANDBY MANUALLY CLEANED FINE SCREENS	9,770,147	14,400,000	47.39
4	WASTE WATER PUMPING STATIONS (NEW)	229,020,763	389,899,500	70.25
5	WASTE WATER PUMPING STATIONS (EXISTING)	46,807,960	15,640,000	-66.59
6	SECONDARY WASTE WATER PUMPING STATION (NEW)	225,244,696	196,610,000	-12.71
7	SECONDARY WASTE WATER PUMPING STATION (EXISTING)	475,101,746	539,678,000	13.59
8	DRAINAGE PUMPING STATION	8,298,296	4,487,000	-45.93
9	DETRITORS FOR NEW TREATMENT WORKS	23,276,314	48,300,000	107.51
10	DETRITORS FOR EXISTING TREATMENT WORKS	39,180,942	78,600,000	100.61
11	DISTRIBUTION PIT # 1	1,929,963	7,200,000	273.06
12	PRIMARY SEDIMENTATION TANK	56,520,775	84,000,000	48.62
13	PRIMARY SLUDGE PUMPING ROOM	22,898,562	25,034,000	9.33
14	TRICKLING FILTERS	118,656,044	193,200,000	62.82
15	HUMUS TANKS	84,781,162	145,200,000	71.26
16	HUMUS SLUDGE PUMPING ROOM	24,758,157	35,636,000	43.94
17	PICKET FENCING THICKENER	34,239,738	42,000,000	22.66
18	THICKENED SLUDGE PUMPING ROOM	8,307,719	12,350,000	48.66
19	SLUDGE DIGESTERS	14,463,554	165,000,000	1040.80

20	DIGESTED SLUDGE PUMPING ROOM	11,638,528	17,076,000	46.72
21	SLUDGE TRANSFER STATION	8,124,057	11,464,000	41.11
22	SLUDGE DRYING BEDS	3,800,472	3,320,000	-12.64
23	POWER HOUSE	11,031,119	17,500,000	58.64
24	FLOW METERS	15,391,200	46,080,000	199.39
25	BIOGAS FLARE	2,500,000	22,500,000	800.00
26	HYDRAULIC MODELING	3,000,000	20,250,000	575.00
27	COMMON INLET CHAMBER	24,226,932	62,598,000	158.38
	TOTAL (A)	1,586,085,235	2,319,754,500	46.26

SUMMARY OF PROVISIONAL SUMS

SR. NO.	TITLE	ENGINEER'S ESTIMATE	M/S. PAK OASIS IND.	% Above / Below
1	INSPECTION OF WASTE PUMPS (3 NOS.) INSTALLED IN EXISTING MAIN PUMPING STATION BY THE	7,500,000	9,000,000	20.00
	TOTAL (B)	7,500,000	9,000,000	20.00

GRAND SUMMARY (MECHANICAL WORKS)

SR. NO.	TITLE	ENGINEER'S ESTIMATE	M/S. PAK OASIS IND.	% Above / Below
1	SUMMARY OF MECHANICAL COST TOTAL (A)	1,586,085,235	2,319,754,500	46.26
2	SUMMARY OF PROVISIONAL SUMS TOTAL (B)	7,500,000	9,000,000	20.00
	TOTAL COST OF MECHANICAL WORKS (A+B)	1,593,585,235	2,328,754,500	46.13

**CONTRACT PACKAGE TP-III UPGRADE AND EXPANSION OF SEWAGE TREATMENT PLANT
AT MAURIPUR, KARACHI
COMPARATIVE ESTIMATE
BILL NO. 5: GENERAL WORKS**

Sr.No.	ITEMS OF WORKS	ENGINEER'S ESTIMATE	M/S. PAK OASIS IND.	% Above / Below
1	Provide and maintain Temporary containerized furnished Site Office (Area minimum 200 Sq.M) with the provision of electricity, telephone, Gas, Water and Drainage system including the payment of all taxes and utility bills with separate toilet facility, all as specified or as directed by the Engineer.	8,100,000	10,800,000	33.33
2	Provide furniture, fixtures and equipment, all as specified or as directed by the Engineer, for Temporary Site Office. (The furniture, fixtures and equipment shall become property of the Employer after completion of the project).	750,000	2,364,165	215.22
3	Maintain all specified furniture, fixtures and office equipment alongwith regular supplies of office stationery and consumables including janitorial services of Temporary Site Office.	12,322,800	2,700,000	-78.09
4	Maintain CRE Office's furniture, fixtures and office equipment alongwith regular supplies of office stationary and consumables including janitorial services (Provisional Quantity).	5,400,000	4,107,600	-23.93
5	Provide Assistance to Engineer's Support Staff as stated in specification:			
	(i) Site Office Staff	14,040,000	5,744,700	-59.08
	(ii) Survey Staff with equipment.	10,800,000	16,813,080	55.68
	(iii) Laboratory Staff with Tra	7,200,000	12,151,680	68.77

Sr.No.	ITEMS OF WORKS	ENGINEER'S ESTIMATE	M/S. PAK OASIS IND.	% Above / Below
6	<p>Providing and making available at all times vehicles, including comprehensive insurance and registration etc. for use of the Engineer and his staff and employer in accordance with the specifications and as directed by the Engineer. (The vehicle shall become property of the Employer after completion of the project).</p>			
	(a) Toyota VIGO Champ G Model 2014 or equivalent	5,850,000	5,375,980	-8.10
	(b) Honda Civic Vti Oriol Prosmatec Transmission Model 2014 or equivalent.	3,600,000	2,704,650	-24.87
	(c) Honda City Aspire Prosmatec Petrol Engine with AC Model 2013 or equivalent.	3,300,000	2,489,840	-24.55
	(d) Suzuki Cultus VXRi EURO II Petrol Engine with AC Model 2014 or equivalent.	6,600,000	5,683,000	-13.89
	(e) Toyota Corolla 1.6 GII Automatic with AC Model 2014 or equivalent.	2,752,500	2,644,830	-3.91
	(f) Suzuki Bolan VX EURO II Petrol Engine with AC Model 2014 or equivalent.	5,400,000	2,888,700	-46.51
	(g) Toyota Hiace commuter Dual AC 3.0 L Model 2014 or equivalent.	3,000,000	5,582,553	86.09
	(h) Motorbike Honda CD 70 Petrol Engine Model 2014 or equivalent.	240,000	201,000	-16.25
7	Maintenance of vehicles including Driver and P.O.L provided under item No. 2/8(a).	5,400,000	4,817,160	-10.79
8	Maintenance of vehicles including Driver and P.O.L provided under item No. 2/8(b).	4,050,000	3,970,800	-1.96
9	Maintenance of vehicles including Driver and P.O.L provided under item No. 2/8(c).	3,510,000	3,970,800	13.13

Sr.No.	ITEMS OF WORKS	ENGINEER'S ESTIMATE	M/S. PAK OASIS IND.	% Above / Below
10	Maintenance of vehicles including Driver and P.O.L provided under item No. 2/8(d).	3,510,000	15,883,200	352.51
11	Maintenance of vehicles including Driver and P.O.L provided under item No. 2/8(e).	3,510,000	3,970,800	13.13
12	Maintenance of vehicles including Driver and P.O.L provided under item No. 2/8(f).	10,530,000	11,912,400	13.13
13	Maintenance of vehicles including Driver and P.O.L provided under item No. 2/8(g).	3,510,000	5,840,424	66.39
14	Maintenance of motorbikes including Driver and P.O.L provided under item No. 2/8(h).	2,160,000	1,704,240	-21.10
15	Location and protection of all public utility services encountered with in the works during the contract period including Telephone Cables, Water Supply Lines, Sewers, Drains, Gas Pipelines, Oil refiner line and Power Cables.	6,000,000	2,000,000	-66.67
16	Provisional sum for payment to utility agencies for relocation and / or their supervision charges where required.	1,000,000	1,000,000	0.00
TOTAL		132,535,300	137,321,602	3.61

**CONTRACT PACKAGE TP-III UPGRADE AND EXPANSION OF SEWAGE
TREATMENT PLANT AT MAURIPUR, KARACHI**
CONTRACT PACKAGE TP-III
COMPARATIVE ESTIMATE
SCHEDULE OF DAY WORKS

SUMMARY

SR.NO.	TITLE	ENGINEER'S ESTIMATE	M/S. PAK OASIS IND.	% Above / Below
1	Total for Daywork: Labour	22,000,000	1,124,500	-94.89
2	Total for Daywork: Material	22,000,000	8,617,709	-60.83
3	Total for Daywork: Construction Plants	14,000,000	5,655,000	-59.61
	Total for Dayworks	58,000,000	15,397,209	-73.45

**CONTRACT PACKAGE TP-III UPGRADE AND EXPANSION OF SEWAGE
TREATMENT PLANT AT MAURIPUR, KARACHI**

COMPARATIVE ESTIMATE

Bill No.7 (Operation and Maintenance)

Operation service for the Works (for specified Operation Service Period)

Sr. No.	Item Description	ENGINEERS ESTIMATE	M/S. PAK OASIS IND.	% Above / Below
1	Providing Operation and Maintenance Services for the Works, for specified Operation Service period of 365 days, complete in all respects, in accordance with the Contract, including charges of electricity and other utilities.	565,000,000	574,080,000	1.61
	Total for Operation and Maintenance	565,000,000	574,080,000	1.61

Note : The rate of electricity taken at Rs. 17.0 per KW



Tel: 99212938
Fax: 99211172

MOST
IMMEDIATE

No. LG(SO-VII)/2-5/KW&SB/2013
GOVERNMENT OF SINDH
LOCAL GOVERNMENT DEPARTMENT

Karachi dated the 05th April, 2013

Att to - Mr Rasheed Solangi
Add. Secy: LG

From -
P-D-K-IV

To

The Managing Director,
Karachi Water & Sewerage Board
Karachi.

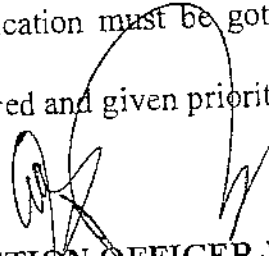
OG (M&E)
LG Deptt. Sindh
Inward 1568/c.
Dated 5-4-13

SUBJECT: - NOMINATION OF ENGINEERING STAFF (BS-18 OR ABOVE) FOR THE TENDER EVALUATION OF KW&SB PROJECT

I am directed to refer to your letter No.PD/KW&SB/CP/2013/30, dated 14.3.2013 on the subject noted above and to convey that Competent Authority has been pleased to nominate the Director General (M&E), Local Government Department as Member of this department for Procurement/Tender Evaluation Committees for all KW&SB's Projects.

I am further directed to convey following instructions for compliance in letter and spirit in respect of all projects being sponsored/funded by Government of Sindh:-

- Approval of Tender/Bid Evaluation must be got approved from the Government of Sindh i.e Local Government Department as Secretary, LGD is Principal Accounting Officer.
- Any variation in rates/revision/modification must be got cleared/ from Local Government Department.
- The 3rd Party Evaluation must be ensured and given priority.


SECTION OFFICER-VII
FOR SECRETARY TO GOVT. OF SINDH

C.c to:-

- The Additional Chief Secretary (Dev) P&D Department, GOS
- The Secretary, Finance Department, Government of Sindh
- The Special Secretary (Tech.), LGD
- The Director General (M&E), LGD
- PS to Secretary, LGD

SINDH PUBLIC PROCUREMENT REGULATORY AUTHORITY CONTRACT EVALUATION FORM

**TO BE FILLED IN BY ALL PROCURING AGENCIES FOR PUBLIC CONTRACTS OF
WORKS, SERVICES & GOODS WORTH 50 MILLION (PKR) OR ABOVE**

- | | | | |
|--|---|---|--|
| 1) | NAME OF THE ORGANIZATION / DEPTT. | : | KARACHI WATER & SEWERAGE BOARD |
| 2) | PROVINCIAL / LOCAL GOVT / OTHER | : | LOCAL GOVERNMENT |
| 3) | TITLE OF CONTRACT | : | Work Contract STP- III |
| 4) | TENDER NUMBER | : | Serial No. 18487 |
| 5) | BRIEF DESCRIPTION OF CONTRACT | : | <u>Up-Gradation and Expansion of Treatment Plant
STP - III, At Mauripur, Karachi</u> |
| 6) | FORUM THAT APPROVED THE SCHEME | : | ECNEC |
| 7) | TENDER ESTIMATED VALUE | : | Rs. 6911183308 |
| 8) | ENGINEER'S ESTIMATE | : | Rs. 6911183308 |
| 9) | ESTIMATED COMPLETION PERIOD (AS PER CONTRACT) : | : | 730 days |
| 10) | TENDER OPENED ON (DATE & TIME) | : | 05.05.2014 (2.30 p.m.) |
| 11) | NUMBER OF TENDER DOCUMENTS SOLD
(Attach list of buyers) | : | 08 Nos. (Eight) |
| 12) | NUMBER OF BIDS RECEIVED | : | 01 No. (One) |
| 13) | NUMBER OF BIDDERS PRESENT AT THE TIME OF
OPENING OF BIDS | : | 01 No. (One) |
| 14) | BID EVALUATION REPORT | : | Attached |
| 15) | NAME AND ADDRESS OF THE SUCCESSFUL BIDDER: | : | M/s. Pak Oasis Industries (Pvt) Ltd. |
| 16) | CONTRACT AWARD PRICE | : | Rs.7,897,436,925 |
| 17) | RANKING OF SUCCESSFUL BIDDER IN EVALUATION REPORT
(i.e. 1st, 2nd, 3rd EVALUATION BID). | : | 1. M/s. Pak Oasis Industries (Pvt) Ltd. |
| 18) | METHOD OF PROCUREMENT USED | : | - (Tick one) |
| | e) SINGLE STAGE – ONE ENVELOPE PROCEDURE | | _____ |
| | f) SINGLE STAGE --TWO ENVELOPE PROCEDURE | | _____ <input checked="" type="checkbox"/> |
| | g) TWO STAGE BIDDING PROCEDURE | | _____ |
| | h) TWO STAGE –TWO ENVELOPE BIDDING PROCEDURE | | _____ |
| PLEASE SPECIFY IF ANY OTHER METHOD OF PROCUREMENT WAS ADOPTED i.e.
EMERGENCY, DIRECT CONTRACTING / NEGOTIATION ETC. WITH BRIEF REASDNS: | | | |
| 19) | APPROVING AUTHORITY FOR AWARD OF CONTRACT | : | PROJECT DIRECTOR |

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

Yes	✓	No	
-----	---	----	--

21) ADVERTISEMENT :

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

Yes	SR.No. 18487
No	

iv) News Papers (If yes, give names of newspapers and dates)

Yes	Daily Jang	02.1.2014
	Daily Dawn	01.1.2014
	News Intl.	02.1.2014
	Khaleej Time	19.3.2014

22) NATURE OF CONTRACT

Works

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

Yes		No	✓
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24) WHETHER BID EVALUATION CRITERIA WAS INCLUDED IN BIDDING / TENDER DOCUMENTS? (If yes, enclose a copy)

Yes	✓	No	
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25) WHETHER APPROVAL OF COMPETENT AUTHORITY WAS OBTAINED FOR USING A METHOD OTHER THAN OPEN COMPETITIVE BIDDING?

Yes		No	
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26) WAS BID SECURITY OBTAINED FROM ALL THE BIDDERS?

Yes	✓	No	
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27) WHETHER THE SUCCESSFUL BID WAS LOWEST EVALUATED BID / BEST EVALUATED BID (in case of Consultancies)

Yes	✓	No	
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28) WHETHER THE SUCCESSFUL BIDDER WAS TECHNICALLY COMPLIANT?

Yes	✓	No	
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29) WHETHER NAMES OF THE BIDDERS AND THEIR QUOTED PRICES WERE READ OUT AT THE TIME OF OPENING OF BIDS?

Yes	✓	No	
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30) WHETHER EVALUATION REPORT GIVEN TO BIDDERS BEFORE THE AWARD OF CONTRACT? (Attach copy of the bid evaluation report)

Yes	✓	No	
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31) ANY COMPLAINTS RECEIVED (If yes, result thereof)

Yes		No	✓
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32) ANY DEVIATION FROM SPECIFICATIONS GIVEN IN THE TENDER NOTICE / DOCUMENTS (If yes, give details)

Yes	✓	No	
-----	---	----	--

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

Yes	✓	No	
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34) DEVIATION FROM QUALIFICATION CRITERIA (If yes, give detailed reasons.)

Yes		No	
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35) WAS IT ASSURED BY THE PROCURING AGENCY THAT THE SELECTED FIRM IS NOT BLACK LISTED?

Yes	✓	No	
-----	---	----	--

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 OF VISIT, IF ABROAD
(If yes, enclose a copy)

Yes		No	/
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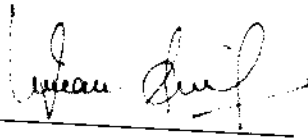
37) WERE PROPER SAFEGUARDS PROVIDED ON MOBILIZATION
ADVANCE PAYMENT IN THE CONTRACT (BANK
GUARANTEE ETC.)?

Yes	/	No	
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38) SPECIAL CONDITIONS, IF ANY
(If yes, give Brief Description)

Yes		No	/
-----	--	----	---

Signature & Official Stamp of
Authorized Officer



FOR OFFICE USE ONLY

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

Contract Evaluation Form STP

NOTE SHEET

(1)

Reference

Paras

Subject APPROVAL OF BID EVALUATION REPORT (FINANCE).

Contract Package TP-III "Up-Gradation and Expansion of Treatment Plant TP-III, at Mauripur, Karachi, under S-III Project"

- 1/ KW&SB invited tenders from the Contractors having PEC registration in CA or CB Category with relevant specialization (CE -09, CE-10, ME-06, EE-04 & EE-05) for the proposed subject work, on 02.01.2014 (Annex-1). Ten contractors firms having registration in required category and specialization with PEC, purchased the bid documents.
- 2/ A tender Procurement Committee comprising of Nine Members headed by Chief Engineer (West) KW&SB (Annex-2) was constituted and assigned tasks by the Competent Authority of KW&SB, in the guidelines of Clause-7 & 8 of SPPRA Rules 2010.
- 3/ The Procurement Committee opened and announced the financial proposal at Stage-II on the specified date, time and venue i.e. 1500 hours on 26.05.2014 at Committee Room, M.D. Secretariat, Block-D, 9th Mile Karsaz KW&SB Office, Shahrah-e-Faisal, Karachi, prior to it technically proposal opened on 05.05.2014 in accordance to the criteria set for responsiveness of firm and only one firm submitted the bid documents.
- 4/ The only Contractor Firm (M/s. PAK OASIS INDUSTRIES (PVT) LIMITED) submitted bidding documents and found responsive technically to qualify for stage-II i.e. opening of financial proposal for Contract Package of STP-III.
- 5/ The announced Bid Price and the corrected bid price of the bidder is as under:

Name of Bidder	Announced Bid Price in Rupees	Corrected Bid Price (Rs)	Rank
M/s. Pak Oasis Industries (Pvt) Ltd	7,898,719,121	7,897,436,924	1st lowest
- 6/ The Procurement Committee carried out thorough evaluation of the bids in accordance with the standard guidelines for the evaluation of bids laid down by SPPRA and also carried out the scrutiny / examination of the bids for the verification, eligibility, bid Security, Completeness and Responsiveness of bids (financial proposal).
- 7/ Subsequently, the working of the Procurement Committee was compiled in shape of Bid Evaluation Report (Technical and Financial) for the subject Contract Package of S-III Project containing the preliminary as well as comprehensive evaluation of submitted responsive bidder.
- 8/ The bid of M/s. Pak Oasis Industries (Pvt) Limited was examined at first for following:
 - 9/ 1) Verification: Properly signed and duly filled all forms and appendices of bid.
 - 10/ 2) Bid Security: Inform of Bank Guarantee amounting to Rs. 50,000,000 valid upto Oct. 05, 2014, bearing No. LG 14900100001846 dated 02.05.2014 issued by J.S Bank, Shaheen Complex Branch, Karachi.
 - 11/ 3) Responsiveness: Bid confirms all terms and condition and specification of Bid Documents.



KARACHI WATER & SEWERAGE BOARD
OFFICE OF THE PROJECT DIRECTOR
(S-III Project)
Block-"D" 9th Mile Karsaz, Shahrah-e-Faisal Karachi

No. PD(S-III Project)/TP-I/KW&SB/2014/17
Dated 25-08 /2014

M/s Pak Oasis Industries (Pvt.) Ltd

Water House
33-C, Khayaban-e-Ittehad,
Lane I, Phase-VI,
DHA – Karachi

Contract: Contract Package TP-I: Up-gradation and Expansion of Sewage
Treatment Plant at Haroonabad SITE, Karachi

Subject: LETTER OF AWARD

Subsequent to submission of Performance Guarantee from your end upon issuance of Letter of Acceptance for bid dated **9th May 2014** for execution of the **Up-gradation and Expansion of Sewage Treatment Plant at Haroonabad SITE, Karachi**, for a corrected Contract Amount of the equivalent to **Pak Rs. 3,889,961,281/-** (Pak Rupees Three Thousand Eight Hundred Eighty Nine Million Nine Hundred Sixty One Thousand Two Hundred and Eighty One only) as corrected and modified in accordance with the Instructions to Bidders is hereby accepted for the issuance of award of works by the Project Director (S-III Project), Karachi Water and Sewerage Board.

However due to funding constraints this office please to Award the Stage-I of cited Contract works to M/s Pak Oasis Industries (Pvt) Ltd which includes the Up-gradation of TP-I including some civil expansion works with an overall cost of **Pak Rs. 2,487,395,425/-** (Pak Rupees Two Thousand Four Hundred Eighty Seven Million Three Hundred Ninety Five Thousand Four Hundred and Twenty Five only).



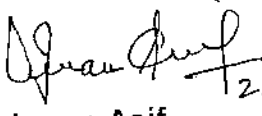
Project Director S-III Project

The remaining/withheld scope of work (Stage-II) amounting to Pak Rs 1,402,565,856/- (Pak Rupees One Thousand Four Hundred Two Million, Five hundred Sixty Five Thousand Eight Hundred and Fifty Six only), shall be released for execution upon formal approval of Revised PC-I from the Competent Authority, which is currently under process.

There shall be no claim admissible for the non-availability of funds for the Stage-II of the contract works.

You are therefore, directed to furnish the Contract Agreement as per the requirement of Contract.

We look forward to working with you on this project.


25/08/2014.

Imran Asif

Project Director (S-III Project)
Karachi Water & Sewerage Board

Copy to:

1. Secretary L.G. GoS
2. Managing Director, KW&SB
3. Chief Engineer (S-III Project), KW&SB
4. Chief Resident Engineer (S-III Project), TCI



KARACHI WATER & SEWERAGE BOARD

OFFICE OF THE CHIEF ENGINEER (S-III PROJECT)

Block D, 9th Mile Karsaz, Shahrah-e-Faisal, Karachi

Tel. # 0092-21-99240626 Fax # 0092-21-99240673

NOTICE INVITING TENDER

1. The Karachi Water & Sewerage Board has received funds from the Federal/Provincial Government towards cost of Greater Karachi Sewerage Plan (S-III Project) and it is intended that part of the proceeds of the funds will be applied to eligible payments under the contracts for the components of S-III Project. The Project Director, Greater Karachi Sewerage Plan (S-III), Karachi Water & Sewerage Board invites wax sealed tenders under Single-Stage — Two-Envelope bidding procedure on International Competitive Bidding (ICB) basis in accordance with SPPRA Rules 2010 (<http://www.pprasinfdt.gov.pk>) and Pakistan Engineering Council (PEC) (<http://www.pec.org.pk>) from competent contractors, joint-ventures or consortia for the following work:-
 - Contract Package TP-III: *Up-gradation and Expansion of Sewage Treatment Plant at Mauipur, Karachi.*
 2. The work under this component involves Restoration of Existing Sewage Treatment Plants to their original capacities and further enhancement of Treatment Capacities including Commissioning. The contractor will carry out all the works as per tender designs and drawings comprising of Civil, Electrical and Mechanical / Instrumentation Components and will also be responsible for its operation and maintenance and providing necessary relevant training to the KWSB staff, for a period not less than 12 months after commissioning.
 3. The bidding is open to:
 - Pakistani contractors registered with Pakistan Engineering Council (PEC) in CA category along with specialization in CE-09, CE-10, ME-06, EE-04 & EE-05.
 - The Joint-Venture / Consortium of Pakistani Contractors with Lead firm registered with Pakistan Engineering Council (PEC) in CA Category, each firm in the Joint-Venture having registration in CA or CB Category and the Joint-Venture jointly meeting the requirement of registration with specialization in CE-09, CE-10, ME-06, EE-04 & EE-05.
 - The Joint-Ventures / Consortium of International and Pakistani Contractor(s) with at least one Pakistani Joint-Venture Partner registered with Pakistan Engineering Council in CA or CB category.
 - The Joint-Ventures / Consortium of International Contractors or Single International Applicant which has at least one Pakistani sub-contractor registered with Pakistan Engineering Council in CA or CB Category.
 4. The bidders may obtain information by acquiring the Bidding Documents (BD), up to 1600 hours, Monday the 17th February 2014, from the Office of Project Director (S-III Project), Karachi Water and Sewerage Board, 1st Floor, Block-D, 9th Mile, Shahrah-e-Faisal, Karachi.
 5. A complete set of bidding documents may be purchased by submitting a letter of request for documents on business letterhead from the following office of KW&SB upon payment of non-refundable fee of Rs. 10,000/ or US\$ 100 per set in shape of Pay Order in favour of Karachi Water & Sewerage Board. If requested in writing with an additional payment of US\$ 100 or equivalent to local currency, the bidding documents will be promptly dispatched by registered mail or courier service, but under no circumstances, the Project Director (S-III) will be held responsible for late delivery or loss of documents so sent out.

Project Director, S-III Project
Karachi Water & Sewerage Board
1st Floor, Block-D, 9th Mile Office,
Shahrah-e-Faisal, Karachi.
Tel: +92-21-99240626; Facsimile: +92-21-99240673
 6. All bids (technical) must be accompanied by a bid security equivalent to Pak Rs. 50 Million in shape of call deposit, pay order, demand draft or bank guarantee issued by a Scheduled Bank in Pakistan, in favour of Karachi Water & Sewerage Board.
 7. The bids must be delivered in the office of Project Director, S-III Project KW&SB at 1st Floor, Block-D, 9th Mile Office, Shahrah-e-Faisal, Karachi before 1400 hours, on Tuesday the 18th February 2014 and will be opened on the same day at 1430 hours by the high powered Bid Opening Committee appointed by KW&SB in the presence of bidders/representatives who choose to attend the opening of bids. If due to unavoidable circumstances, the bid submission is not possible on the schedule date, the submission and opening of bids will be carried out on the next working day on the schedule time and venue.
 8. The pre-bid meeting shall be held at 1500 hrs on Thursday the 30th January 2014, at Committee Room of P.D. (A-III Project) Secretariat, Block-D, 9th Mile Office, Shahrah-e-Faisal, Karachi.
 9. The acceptance of bids shall rest with the Competent Authority of KW&SB (Project Director, S-III Project), who reserves the right to accept or reject any or all bids, as per SPPRA Rules 2010.
 10. Late bids will be rejected. The bidders shall not enclose testimonials, certificates and publicity material other than those requested in the bidding documents with their bids. Such information will not be taken into account in the evaluation of bid.
 11. The Notice Inviting Tender has also been posted on Sindh Public Procurement Authority (SPPRA) website (<http://www.pprasinfdt.gov.pk>).
- The Chief Engineer, S-III Project,
Karachi Water & Sewerage Board
1st Floor, Block D 9th Mile, Shahrah-e-Faisal, Karachi, Pakistan
Tel: +92 21 99240626; Facsimile: +92 21 99240673
- INF-KRY No. 3188/13



Karachi Water & Sewerage Board

Office of the Chief Engineer (S-III Project)

Block-D, 9th Mile Karsaz, Shahra-e-Faisal, Karachi
Tel: 0092- 21 99240828 Fax: 0092-21-99240828

NOTICE INVITING TENDER

The Karachi Water & Sewerage Board has received funds from the Federal / Provincial Government towards cost of Greater Karachi Sewerage Plan (S-III Project) and it is intended that part of the proceeds of the funds will be applied to eligible payments under the contracts for the components of S-III Project. The Project Director, Greater Karachi Sewerage Plan (S-III), Karachi Water & Sewerage Board invites wax sealed tenders under Single Stage Two Envelope bidding procedures on International Competitive Bidding (ICB) basis in accordance with SPPRA Rules-2010 (<http://www.pprasindh.gov.pk>) and Pakistan Engineering Council (PEC) (<http://www.pec.org.pk>) from competent contractors joint ventures or consortium or consortia for the following works:

- Contract Package TP-III: "Up-gradation and Expansion of Sewage Treatment Plant at Mauripur, Karachi".

The work under this component involves Restoration of Existing Sewage Treatment Plants to their original capacities and further enhancement of Treatment Capacities including Commissioning. The contractor will carry out all the works as per tender designs and drawings and also be responsible for its operation and maintenance and providing necessary relevant training to the KW&SB staff, for a period not less than 12 months after commissioning.

The Bidding is open to:

- Pakistani contractors registered with Pakistan Engineering Council (PEC) in CA category along with specialization in CE-09, CE-10, ME-06, EE-04 & EE-05.
- Joint Venture / Consortium of Pakistani contractors with Lead firm registered with Pakistan Engineering Council (PEC) in CA Category, each firm in the Joint Venture having registration in CA or CB category, and the Joint Venture jointly meeting the requirement of registration with specialization CE-09, CE-10, ME-06, EE-04 & EE-05.
- Joint Venture / Consortium of International and Pakistani Contractors(s) with at least one Pakistan Joint Venture partner registered with Pakistan Engineering Council in CA or CB category.
- Joint Venture / Consortium of International Contractors or Single International applicant which has at least one Pakistani subcontractor registered with Pakistan Council in CA or CB category.

Bidders may obtain information by acquiring the Bidding Documents (BD), from 20th March 2014 upto 16:00 hours Monday, the 4th May 2014 from the Office of the Project Director (S-III Project), Karachi Water & Sewerage Board 1st Floor, Block-D, 9th Mile Shahrah-e-Faisal, Karachi.

Project Director, S-III Project
Karachi Water & Sewerage Board
1st Floor, Block-D, 9th Mile Office, Shahrah-e-Faisal, Karachi
Tel: +92 21 99240828, Facsimile +92-21-99240828

A complete set of Bidding Document may be purchased by submitting a letter of request for documents on business letterhead from the following office of KW&SB upon payment of non-refundable fee of Rs.10,000/- or US\$ 100/- per set in shape of Pay Orders in favour of Karachi Water & Sewerage Board. If requested in writing with an additional payment of US \$ 100/- or equivalent local currency, the Bidding Documents will be promptly dispatched by registered mail or courier service, but under no circumstances, will the Project Director (S-III) be held responsible for late delivery or loss of documents so sent out.

All Bids (Technical) must be accompanied by a bid security equivalent to Pak Rs.50 Million, in the shape of call on deposit, pay order, demand draft or bank guarantee issued by a Schedule Bank in Pakistan, in favour of Karachi Water & Sewerage Board.

Bids must be delivered in the office of Project Director, S-III Project, KW&SB at 1st Floor, Block-D, 9th Mile Office, Shahra-e-Faisal, Karachi before 14:00 hours, on Monday the 05th May, 2014 and will be opened on the same day at 14:30 hours by the high powered bid opening committee appointed by KW&SB in the presence of bidder's representatives who choose to attend the opening of Bids. If due to unavoidable circumstances, the bid submission is not possible on the scheduled date, the submission and opening of bids will be carried out on the next working day on the schedule time and venue.

Pre- Bid meeting shall be held at 14:00 Hrs. on Monday the 14th April 2014 at Committee Room of P.D (S-III Project) Secretariat, Block-D, 9th Mile office, Shahrah-e-Faisal, Karachi.

The acceptance of bids shall rest with the Competent Authority of KW&SB (Project Director S-III Project), who reserves the right to accept or reject any or all bids as per SPPRA Rules.

Late Bids will be rejected; Bidders shall not enclosed testimonials, certificates and publicity material other than those requested in the Bidding Documents with their bids. Such information will not be taken into account in the evaluation of Bid.

The notice inviting tender will also be posted on Sindh Public Procurement Regulatory Authority (SPPRA) websites (<http://www.pprasindh.gov.pk>).

Chief Engineer (S-III Project)
Karachi Water & Sewerage Board
1st Floor, Block-D, 9th Mile office,
Shahrah-e-Faisal, Karachi, Pakistan
Tel: +92- 21 99240828, Facsimile: +92 21 99240828



OFFICE OF THE PROJECT DIRECTOR (S-III PROJECT)

Block-D, 9th Mile Karsaz, Shahra-e- Faisal, Karachi

Tel. # 99240828

Fax # 99240875

To:

No. PD/S-III/TP-III/KW&SB/2014/ 269
Dated: February 26, 2014

GREATER KARACHI SEWERAGE PLAN (S-III)

Subject: Minutes of Pre-bid Meeting along with Annexures
Reference: Contract Package TP-III: Upgradation and Expansion of Sewage Treatment Plant at Mauripur, Karachi

Please find attached herewith replies of queries raised at pre-bid meeting of above referred contract works held in accordance with requirement of Section 1B.17 of Instruction to Bidders, on 10th February 2014.

Pursuant to Clause 1B - 9 of Instruction to Bidders, the following amendments are also made in the Tender Documents issued for the work cited above:

Volume-II of Bidding Documents

- 1) Substitute Appendix-C to Bid (BC-1) with Revised Appendix-C to Bid (BC-1R)
- 2) A new Bill Nr.7 for Operation and Maintenance along with its preamble is added
- 3) Substitute Summary of BOQ at BOQ-Page No-1 with BOQ-Page No-1(R)

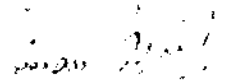
Volume-III-C Specifications (Mechanical & Geotechnical Works)

- 4) At the end of Section 20.24 "Specific Requirement of Trickling Filter Media" is added

The replies of queries at pre-bid meeting along with above stated amendments shall form an integral part of the Tender Documents and shall be signed, stamped and submitted with the Bid by the bidder.

The Bidder shall acknowledge the receipt of replies of queries at Pre-bid meeting and Amendments immediately.

Enclosed: As above


Project Director (S-III Project)
Karachi Water & Sewerage Board

Copy to:

1. Chief Engineer (S-III Project), KW&SB

MINUTES OF PRE BID MEETING

1. Contract Package TP-III: "Upgradation and Expansion of Sewage Treatment Plant at Mauripur – Karachi"

In accordance with requirement of Section IB.17 of Instruction to Bidders, Pre-Bid Meeting for above mentioned Contract Packages was convened at 1500 Hrs, on Monday 10th February 2013, at Committee Room of MD (KW&SB) Secretariat, Block – D, 9th Mile Office, Shahrah-e-Faisal, Karachi.

Representatives of following prequalified firms / consortium attended the meeting:

- i. M/s Sultan Mehmood & Co.
- ii. M/s Pak Oasis Industries (Pvt) Ltd.
- iii. M/s R.M. Gulistan Engineering & Construction
- iv. M/s NCL – PESB – CRFG (JV)

Following members of Employer & Engineer also attended the meeting:

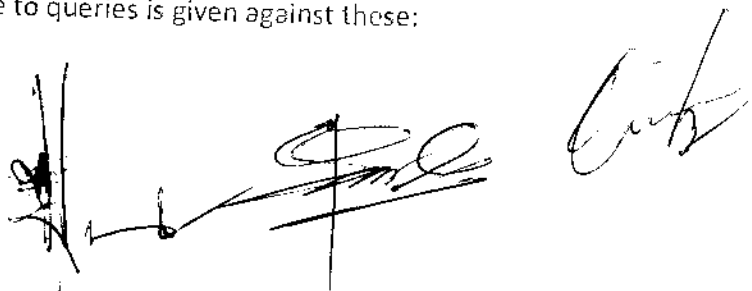
Employer (KW&SB)

- | | | | |
|-------|--------------------|--------------------------------|------------|
| i. | Mr. Imtiaz Magsi | Chief Engineer (S-III) | [In Chair] |
| ii. | Mr. Sardar Shah | Project Manager (E&M) | |
| iii. | Mr. Qaiser Ali | Superintending Engineer | |
| iv. | Mr. Ayaz Tunio | Dy. Project Manager (E&M) | |
| v. | Mr. Ganji | Dy. Project Manager (E&M) | |
| vi. | Mr. Nadeem Ahmed | Executive Engineer | |
| vii. | Mr. Mukhtar Samito | Executive Engineer / Secretary | |
| viii. | Mr. Rashid Jamal | Accounts Officer (S-III) | |

Engineer (Techno-Consult International / NEC Consultant)

- | | | |
|------|---------------------|---------------------------------|
| i. | Mr. Arshad Farooqi | Chief Resident Engineer (S-III) |
| ii. | Mr. Muhammad Rashid | Contract Engineer (S-III) |
| iii. | Mr. Nadeem Ahmed | Electrical Engineer (S-III) |
| iv. | Mr. Muhammad Ali | Manager |

Following queries were raised; the response to queries is given against these:



**Subject: Contract Package TP-III: Upgradation and Expansion of Sewage Treatment Plant
at Mauripur, Karachi**

Reply of Queries raised at Pre-Bid Meeting held on 10th February, 2014

S.No	Queries	Replies
1	Overview of Treatment Plant No.III may please be provided.	<p>The treatment system for the domestic sewage generated under the jurisdiction of Karachi Water and Sewerage Board currently consisted of two Sewage Treatment plants, TP-I Haroonabad and TP-II Mauripur. The treated sewage of TP-I is discharged to Lyari River for finally gravitating to sea. TP II receives sewage mainly from the existing sewer interceptor in Lyari River and discharges into Mauripur Creek.</p> <p>Existing TP-II is situated at Maripur, Karachi (24° 51' 40" N - 66° 57' 08" E). The treatment plant was designed by Batifours Engineering Consultants from United Kingdom (UK) and constructed by China Petroleum Engineering Construction Corporation for hydraulic capacity of 54 MGD in 1998.</p> <p>TP-II is located on the shore of Lyari Estuary, in the northeast of Karachi. Part of the site area has been reclaimed from the sea. The treatment plant covers an area of 250 acres of land. It is 3,500 meters long from east to west, and 700 meters wide from south to north. Based on the topographic features and treatment process the plant is divided into two parts east and west. The sewage flows from Lyari Trunk Sewer to Mauripur Trunk Sewer and then finally comes into Mauripur Sewage Treatment Plant.</p> <p>Existing TP-II consists of Main Pumping Station, Raw Sewage Channels, Inlet Works, Secondary Pumping Station, Anaerobic Lagoons, Facultative Lagoons, General Pumping Station and Sludge Drying Lagoons. It was not in operation, at present all the sewage is being bypassed from the plant as all the secondary pumps which feed sewage to an-aerobic lagoons were out of order.</p> <p>After implementation of S-III Project current treatment facility consisting of lagoons will be upgraded from 54 MGD to 100 MGD, while another 80 MGD will be treated under new trickling filter process.</p>




**Subject: Contract Package TP-III: Upgradation and Expansion of Sewage Treatment Plant
at Mauripur , Karachi**

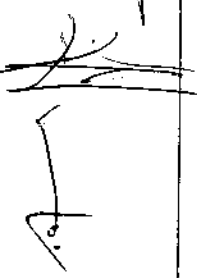
Reply of Queries raised at Pre-Bid Meeting held on 10th February, 2014

S.No	Queries	Replies
2	Since the Project involves import of plants and machinery which constitutes considerable amount of the bid, there should be provision of foreign currency components for the import of Plant and machinery.	Refer IB 13.1 of Bidding Data and Appendix-B to Bid, bidders have to quote entirely in Pak Rupees.
3	Alternate Proposals should be allowed so that the Bidders can propose any other optimum/ efficient design in the best interest of project. To achieve this purpose, treatment plant design criteria i.e. flow rate, BOD, COD, TSS, O&G and other necessary parameters should be provided.	Refer IB.16 of Bidding Data, bidders will only quote for the tender design. However, <i>Value Engineering</i> from the successful bidder may be considered under the Contract, after the award of works.
4	AS per NIT , the qualification criteria requirement was for registration with PEC as contractors in the specified categories only. The demand for registration in operator's category was not asked in the tender advertisement. However, registration as operator can be obtained from PEC if the project is awarded.	Valid PEC Registration in Operator category will have to be provided by the bidders at the time of opening of "Price Bid", failing which the bidder shall be considered technically failed and his financial bid shall be returned un-opened.
5	It is observed that water treatment plant experience has been given weightage in the evaluation criteria for technical qualification. It is pertinent to mention here that this is a sewage treatment plant project and relevant experience of sewage treatment plants should be taken into consideration while evaluating the bids because sewage treatment is entirely a different process as compared to water treatment. Giving weightage to water treatment plants experience in the evaluation criteria, which is irrelevant in this case, will give undue advantage to companies who have zero experience in sewage treatment plants and this project, if awarded to them, will be an experiment for them. Kindly change the evaluation criteria accordingly.	In order to have wide & healthy competition, experience in the discipline of water works is also considered relevant. Furthermore, experience is not the sole criteria of technical qualification, the bidders are also required to satisfy the other criterias' which will sufficiently prove their capacity to undertake the required works.

**Subject: Contract Package TP-III: Upgradation and Expansion of Sewage Treatment Plant
at Mauripur, Karachi**

Reply of Queries raised at Pre-Bid Meeting held on 10th February, 2014

S.No	Queries	Replies
6	Bidders should be allowed to furnish bid security in the form of Insurance Bonds issued by AA rated insurance companies as allowed by PEC. Also please specify in which envelope (Technical or financial) bid security should be included.	Furnishing of Bid Security in specified form is in accordance with the requirement of SPPRA Rules, which cannot be changed. Refer IS 11.1 (A) of Bidding Data, Bid Security will have to be submitted with Technical Bid, in the form specified.
7	Bidders should be allowed to furnish performance security in the form of Insurance Bond issued by AA rated Insurance Companies as PEC also allows it.	Furnishing of Performance Security in specified form is in accordance with the requirement of SPPRA Rules, which cannot be changed.
8	Bidders should be allowed to furnish Mobilization Advance Guarantee in the form of Insurance Bond issued by AA rated insurance companies as PEC also allows it.	Furnishing of Mobilization Advance Guarantee in specified form is in accordance with the requirement of SPPRA Rules, which cannot be changed.
9	In Appendix-C to Bid (BC-1), escalation is provided only for local labour, cement - in bags reinforcing steel, high speed diesel (HSD) and no escalation is allowed for imported items for devaluation of Rs. Against USD. Atleast 25% weightage for price adjustment should also be given to imported items.	Revised Appendix-C to Bid (BC-1) is attached at Annexure-A. Existing Appendix-C to Bid (BC-1) is replaced with Revised Appendix C to Bid (BC-1R)
10	There is no reference spec mentioned for trickling filter media and no sizes and type are mentioned in the tender documents as this is very important parameter which could affect the plant's performance and cost.	Specific requirements of trickling filter media is available at Annexure-B.
11	Stone as the media for Trickling Filter Systems is not effective as it is subject to clogging within a short time as it may have been observed in many other similar treatment plants. All Trickling Filter STPs with stone media is being replaced with modern High Rate Trickling Filter Systems. Kindly Allow alternate Proposals	Refer IS 16 of Bidding Data, bidders will only quote for the tender design. However, Value Engineering from the successful bidder may be considered under the Contract, after the award of works.

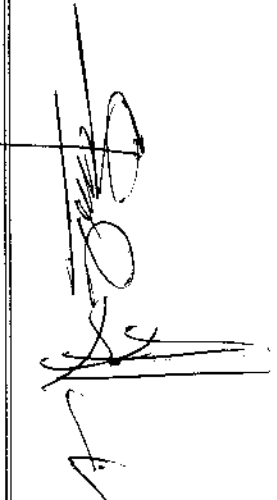
**Subject: Contract Package TP-III: Upgradation and Expansion of Sewage Treatment Plant
at Mauripur, Karachi**

Reply of Queries raised at Pre-Bid Meeting held on 10th February, 2014

S.No	Queries	Replies
12	<p>Section 20 A. The definition of Origin is misguided in today's globalized world, in that there are many World renowned brands from North America, Western Europe, Japanese or Australian which have their largest manufacturing base or production facilities in countries which provide them a competitive advantage such as China, Eastern Europe and Others. These world renowned brands ensure that the quality standards in all their production facilities are implemented in order to uphold their brands. Kindly Omit the manufacturing base or production facilities out of the definition of "Origin".</p>	<p>Could not be omitted.</p>
13	<p>Section 20 A: The motors specified for the pumps are out of the typical standards. For example, Flyght and Grundfos pumps both have their own motors and are not by the SIEMENS or ABB Brands. Kindly allow Brands of motor to be specified by the Bidder.</p>	<p>Siemens and ABB are recommended brands; any brand equivalent to the quality standards of recommended brands will be acceptable.</p>
14	<p>Kindly refer to Section 20 A- Schedule of Plant Volume (IIC). The make of M&E equipments have been reduced to a few names whereas definition of "approved equivalent" have also not been clarified. Kindly provide list of approved equivalent equipment.</p>	<p>Name of few renowned manufacturers has been specified for bidders understanding of Employer's approach and requirements. However, equipment from other manufacturers of repute having equivalent specifications, may be proposed. Contractor have to prove its equivalency with specified ones not only in terms of material or engineering but also the credentials of manufacturer and history of usage of such equipment under similar working climatic conditions. However, acceptance or rejection of proposed manufacturer and product is the prerogative of the Engineer.</p>

**Subject: Contract Package TP-III: Upgradation and Expansion of Sewage Treatment Plant
at Mauripur, Karachi**

Reply of Queries raised at Pre-Bid Meeting held on 10th February, 2014

S.No	Queries	Replies
15	Kindly refer to Section 20 A- Schedule of Plant Volume III(C): Is there any restriction of country of origin/ original manufacturer of Plant equipment/ Kindly clarify.	Country of Origin is restricted to region / countries as written in Section 20 A - Schedule of Plant
16	Kindly confirm if secured advance is allowed against imported plant and machinery and terms of payment.	Secured Advance against imported plant and machinery, will be considered upon its arrival at site.
17	The tender ad for the project states that 12 months operation and maintenance is also required alongwith construction works but no BOQ is provided for the Operation and maintenance works. Please provide the BOQ for O&M Works.	A new Bill Nr.7 for Operation and Maintenance along with its preamble is attached at Annexure-C. Existing Summary, BOQ-Page No-1 of Bill Quantities is replaced with BOQ-Page No-1 (R) attached at Annexure-D.
18	Please provide the payment terms or specify that the Contractor is independent in proposing any payment terms.	Refer Clause 14 of Conditions of Contract
19	Kindly provide complete name of the companies (clearly mentioning whether participating singly or in joint ventures) who have received tender documents from KW&SB for this project.	This information could not be disclosed to the bidders.
20	Since this NIT is for International Competitive Bidding, therefore, as per SPPRA Rules 18(2) & (3) at least 45 days response time should be given after publication of NIT and issuance of tender documents to the bidding parties. Please note that the tender documents were not ready with the tender notice and were issued on 31st January, 2014 to the interested parties after close follow-up with the Client, it is therefore requested to extend tender submission date to 17th March 2014 i.e. 45 days from the issuance of tender documents in accordance with the SPPRA Rules.	Ample time will be provided. 

NOTE:

These replies to queries raised during pre-bid meeting along with its all annexures shall form an integral part of the Tender Documents and shall be signed, stamped and submitted with the Bid by the bidder along with Tender Documents.

**PRICE ADJUSTMENT UNDER CLAUSE 13.8
OF CONDITIONS OF CONTRACT**

The source of indices and the weightages or coefficients for use in the adjustment formula under Clause 13.8 shall be as follows:

(Filled by the Procuring Agency)

Cost Element	Description	Weightages	Applicable index
1	2	3	4
(i)	Fixed Portion	0.40	
(ii)	Local Labour	0.20	Government of Pakistan (GP) Federal Bureau of Statistics (FBS) Monthly Statistical Bulletin.
(iii)	Cement – in bags	0.05	" " "
(iv)	Reinforcing Steel	0.10	" " "
(v)	High Speed Diesel (HSD)	0.05	" " "
(vi)	International Procurement	0.20	USD (\$) Selling rate against Pak Rupee issued by the State Bank of Pakistan
	Total	1.000	

Notes:

- 1) Indices for "(ii)" to "(v)" are taken from the Government of Pakistan Federal Bureau of Statistics, Monthly Statistical Bulletin. The base cost indices or prices shall be those applying 15 days prior to the latest day for submission of bids. Current indices or prices shall be those applying 28 days prior to the last day of the billing period.
- 2) Index for (vi) is to be taken from selling rate for US \$ against Pak Rupee issued by the State Bank of Pakistan. The applicable base index is the one prevailing 15 days prior to the latest day for submission of bids. Applicable current index is the one prevailing 28 days prior to the last day of the billing period.
- 3) Any fluctuation in the indices or prices of materials other than those given above shall not be subject to adjustment of the Contract Price.



Annexure - "A"

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CONTRACT PACKAGE TP-III: UPGRADATION AND EXPANSION OF SEWAGE
TREATMENT PLANT AT MAURIPUR, KARACHI

CONTRACT PACKAGE TP-III

BILL OF QUANTITIES

SUMMARY

BILL NR	TITLE	AMOUNT
1	CIVIL WORKS	
2	CIVIL RESTORATION WORKS	
3	ELECTRICAL WORKS	
4	MECHANICAL WORKS	
5	GENERAL WORKS	
6	DAY WORKS	
7	OPERATION AND MAINTENANCE	
TOTAL 1 TO 7		
5% PHYSICAL CONTINGENCIES FOR VARIATION/ EXTRA WORK INSTRUCTED BY THE ENGINEER.		
GRAND TOTAL		

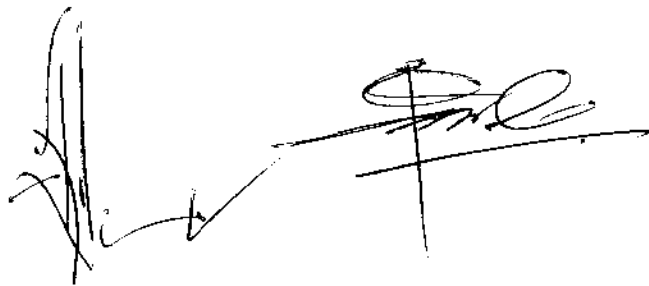
Amount in Words :

Total Carried to Letter of Price Bid :

SIGNATURE OF CONTRACTOR

SEAL

Annexure = "B"

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PREAMBLE TO OPERATION AND MAINTENANCE (BILL No.7)

In these Operation and Maintenance Requirements, terms "Works" and "STP" (meaning Sewage Treatment Plant TP-III, Karachi) are synonymous.

1. OPERATION OF THE WORKS

The Contractor shall operate the Works in a proper, effective and careful manner, in accordance with the recognized good professional practices.

The Contractor shall maintain the Plant and the portions of the Works, which are on the standby mode, in a manner that they remain protected and functional.

The Contractor shall operate the Works on a continuous 24 hours per day, 7 days per week basis, such that:

- a) all the wastewaters received shall pass through the Works for treatment, exceeding the Design Peak-Hour Wastewater Flow of 46,029 m³/h, flow shall be bypassed through an overflow pipe, provided at an upstream point in the sewerage network; and
- b) the average of the grab sample characteristics of the treated effluents at the outlet of the Works, prior to their disposal, of any three consecutive days, during the Operation Service Period, shall be within the following limits:

Biochemical Oxygen Demand (BOD)	Less than 80 (mg/l)
Total Suspended Solids (TSS)	Less than 100 (mg/l)

for the daily influent wastewater pollution loads to Works within the following design values:

Biochemical Oxygen Demand (BDD)	200 - 300 (mg/l)
Total Suspended Solids (TSS)	150 - 300 (mg/l)

The Contractor shall ensure by his own means and guarantee that the treated effluent in every respect shall be in accordance with the Contract. The composition of the influent wastewater, in terms of its constituents and their variations, of whatsoever nature, shall not prevent him from achieving the desired performance results.

The operation of the Works shall include, but may not be limited to, the following functions and activities:

- a) Operation of the Plant and the Equipment
- b) Dosing of process control chemicals, if required
- c) All the process and Plant control measures and activities
- d) All the process and Plant related troubleshooting
- e) Collection, handling and conveyance of the solid and semi-solid wastes and residues generated by the operation of the Works, within the Site of Works

The Contractor shall employ its best efforts to contain and control odors emitted from the Works, in order to minimize nuisance for the surrounding areas.

2. PERFORMANCE DATA COLLECTION

The Contractor shall, at his cost, collect and document the performance data pertaining to the operation of the Works, as stated herein, and shall submit it to the Employer's Representative as part of the Monthly Performance Reports or separately, where so required by the Employer's Representative, in a form and format approved by the Employer's Representative.

For the purpose of performance data collection, an Operation Day of the Works shall be taken as 0600 (06:00 AM) of a calendar day to 0600 (06:00 AM) of the next calendar day, except where otherwise instructed by the Employer's Representative.

The performance data pertaining to the operation of the Works, to be collected and documented by the Contractor, including the measurements, monitoring, sampling and laboratory-testing, shall include, but may not be limited to, the following:

- a) Wastewater Flows: Daily influent wastewater flows per Operation Day, measured from the installed on-line wastewater flow meters
- b) Wastewater and Effluent Quality Characteristics: Laboratory-determined grab sample characteristics of wastewater and effluents, with quality parameters, sampling sources/locations and sampling frequency, as follows:

Quality Parameter	Unit	Grab Sampling Source/Location		
		IW	PS	TE
pH		Daily	Monthly	Daily
Temperature	°C	Daily	-	Daily
Biochemical Oxygen Demand (Total)	(mg/l)	Daily	Monthly	Daily
Biochemical Oxygen Demand (Settled)	(mg/l)	Quarterly	Quarterly	Quarterly
Biochemical Oxygen Demand (Filtered)	(mg/l)	Quarterly	Quarterly	Quarterly
Chemical Oxygen Demand (Total)	(mg/l)	Daily	Monthly	Daily
Chemical Oxygen Demand (Settled)	(mg/l)	Quarterly	Quarterly	Quarterly
Chemical Oxygen Demand (Filtered)	(mg/l)	Quarterly	Quarterly	Quarterly
Total Suspended Solids (TSS)	(mg/l)	Daily	Monthly	Daily
Volatile Suspended Solids (VSS)	(mg/l)	Quarterly	Quarterly	Quarterly
Settleable Solids (SS)	(ml/l)	Daily	Monthly	Daily
Oil & Grease (O&G)	(mg/l)	Daily	Monthly	Daily
Sulfides	(mg/l)	Quarterly	Quarterly	Quarterly
Sulfates	(mg/l)	Quarterly	Quarterly	Quarterly
Chlorides	(mg/l)	Quarterly	Quarterly	Quarterly
Total Dissolved Solids (TDS)	(mg/l)	Quarterly	Quarterly	Quarterly
Total Kjeldahl Nitrogen (TKN)	(mg/l)	Quarterly	Quarterly	Quarterly
Ammonia Nitrogen	(mg/l)	Quarterly	Quarterly	Quarterly
Nitrile Nitrogen	(mg/l)	Quarterly	Quarterly	Quarterly
Nitrate Nitrogen	(mg/l)	Quarterly	Quarterly	Quarterly
Total Phosphorous	(mg/l)	Quarterly	Quarterly	Quarterly

IW: Influent Wastewater from Wet Well

PS: Combined Effluent after Primary Settling Tanks

TE: Combined Treated Effluent from Treated Effluent Pipe

- c) Requirements of Regulatory Agencies: Laboratory-determined characteristics of the treated effluents, as required by any government regulatory agency, with sample type, frequency and quality parameters, to be in accordance with the requirement of the agency
- d) Sludge Quantities Data: Daily volumes per Operation Day (measured or estimated) of the following sludge generated by the Works:
- Primary Sludge (Primary Settling Tanks to Sludge Thickeners)
 - Secondary Sludge (Secondary Settling Tanks to Sludge Thickeners)
 - Thickened Sludge (Sludge Thickeners to Sludge Digesters)
 - Dewatered Sludge (from Sludge Drying Beds)
- e) Sludge Concentrations Data: Laboratory-determined concentrations of the grab samples of the following sludge, on weekly basis:
- Combined Primary Sludge (Source: Primary Settling Tanks)
 - Combined Secondary Sludge (Source: Secondary Settling Tanks)
 - Combined Thickened Sludge (Source: Sludge Thickeners)
 - Combined Digested Sludge (Source: Sludge Digesters)
 - Combined Dewatered Sludge (Source: Sludge Drying Beds)
- f) Screenings Data: Daily volumes (measured or estimated) of screenings (per Operation Day) generated by the Works
- g) Grit Data: Daily volumes (measured or estimated) of grit (per Operation Day) generated by the Works
- h) Electric Energy Consumption: Daily overall electricity consumption (per Operation Day) of the Works, measured (in kWh) from the main energy meter
- i) Operation Duration of the Plant: Daily operation durations (per Operation Day) in hours of each major Plant (electrical and mechanical equipment)

3. MAINTENANCE OF WORKS

3.1 General Requirements

During the Operation Service Period, the Contractor shall be fully responsible for, and carry out, the maintenance of the Works and the Equipment, including the predictive maintenance investigations and routine, preventive and corrective maintenances, as stated herein.

The Contractor shall carry out all the required rectification and remedial measures, in respect of any defect and fault, identified during maintenance, as early as possible.

The predictive maintenance investigations and routine, preventive and corrective maintenances of the Works including Plant and the Equipment including vehicles, shall include, but may not be limited to, the following:

- a) Predictive Maintenance Investigations for the Plant and the Equipment, including, but may not be limited to, measurements, tests and analyses of performance and associated parameters like noise, vibrations etc, in order to establish the conditions and reliability of the equipment and identify any fault or defect, therein

- b) Corrective Maintenance of the Plant and the Equipment including, but may not be limited to, non-routine repair of parts or replacement with like-kind parts, consequent to a failure, or in order to avert a potential failure identified by the Predictive Maintenance Investigations or otherwise, during the normal useful life of the equipment
- c) Preventive Maintenance of the Plant and the Equipment including, but may not be limited to, the routine lubrication, oil replacement and replacement of parts like belts, oil and air filters etc. and other tasks, which occur on a scheduled frequency as recommended by the equipment manufacturer or as established by the practice of the trade
- d) Routine Maintenance of the Works including, but may not be limited to, the following:
 - Upkeep of the landscaping works including irrigation of the green areas and plants, plant trimmings etc, on the Site of Works
 - Upkeep of the grounds of Site of the Works
 - Maintenance and upkeep, including all repair and replacement works, of the Works including buildings, sanitary structures, roads, walkways, vehicle parking areas, entrance gates, boundary walls, piping works, storm water drainage works, water supply works, sewerage works, external illumination works and external & Plant electrification works, in order to maintain their original form, finish, structural & mechanical integrity and functional efficacy, excepting the normal wear and tear
 - Carrying out inspection and taking remedial measures to control corrosion of the metal works
 - Routine maintenance and upkeep of the buildings, forming part of the Works, including, but may not be limited to, all repair and replacement works, for plumbing fittings & fixtures, electrical fittings & fixtures, air conditioners, land-line telecommunication system, furniture and furnishings
 - Maintaining general cleanliness and appearance of the Works, at all the times
 - Regular cleaning of all the accessible surfaces of the sanitary structures, weirs, notches, gratings and like, in order not to allow accumulation and solidification of the undesirable materials adhering to them
 - Internal cleaning/scouring of pipelines, valves, inspection chambers and manholes in order to remove obstructions and clogging
 - Regular cleaning of all the sensors and probes of instruments like flow meters, level controllers etc
 - Manual removal of the floating substances and scum, from the sanitary structures, not provided with scum removal devices
 - Regular sweeping, cleaning, mopping and/or washing of building floors, road and other pavements, walkways, platforms, etc

3.2 Maintenance Program

The Contractor shall carry out maintenance of the Works, in accordance with the Maintenance Program, prepared and submitted by the Contractor and agreed upon by the Employer' Representative.

The Contractor shall submit the Maintenance Program to the Employer' Representative prior to the commencement of the Operation Service.

The Maintenance Program shall lay down the maintenance schedules, methods and procedures, which shall in general be in accordance with recognized standards and

practices and equipment manufacturers' instructions.

3.3 Maintenance Records

The Contractor shall maintain detailed records and reports of the major maintenance activities performed.

These maintenance records shall contain information on the nature of each major maintenance activity, its date, the time spent, the Materials used and any other information reasonably required by the Employer' Representative.

The Contractor shall submit these maintenance records and reports to the Employer' Representative, as part of the Monthly Performance Reports.

4. MONTHLY PERFORMANCE REPORTS

The Contractor shall, at his cost, prepare and submit to the Employer' Representative, a Monthly Performance Report on the operation and maintenance of the Works, in form and format approved by the Employer' Representative, for each month, not later than 10TH day of the next month.

Each Monthly Performance Reports shall contain, but may not be limited, to the following data and information, for the respective month:

- a) Record of operational changes and adjustment, if any
- b) Performance data, in accordance with Section 2
- c) Maintenance records, in accordance with Section 3.3
- d) Data on the process and Plant related troubleshooting, if any
- e) Data on operating process parameters
- f) All the relevant laboratory test results
- g) Data on Equipment utilization
- h) Data on Materials and their consumption
- i) Data on manpower utilization
- j) All the relevant accounting and financial data, as required by the Employer' Representative

5. WORKS

Works, including Plant, for the provision of the Operation and Maintenance Service, shall include the Works executed and completed, by the Contractor, and the following works, whether or not forming the part of the Works executed and completed, by the Contractor:

- a) Air conditioners in the buildings, to the extent deemed necessary by the Employer' Representative
- b) Land-line telecommunication system comprising telephone exchanges, wiring and telephone sets, in the buildings, to the extent deemed necessary by the Employer' Representative
- c) Furniture and furnishings, in the buildings, to the extent deemed necessary by the Employer' Representative, for the operation and maintenance of the Works and for the use of Contractor's and Employer's Personnel, to be housed in these buildings
- d) All the laboratory equipment, instruments, glassware and accessories for the following tests of wastewater and sludge samples:

- pH Value
 - Temperature
 - Biochemical Oxygen Demand (BOD)
 - Chemical Oxygen Demand (COD)
 - Total Dissolved Solids (TDS)
 - Total Suspended Solids (TSS)
 - Volatile Solids (VS)
 - Settleable Solids (SS)
 - Oil & Grease
- e) All the major workshop equipment
- f) All the soft landscaping works including plants on the Site

6. EQUIPMENT

The Contractor shall, at his cost, provide and maintain all the Equipment, required for the operation and maintenance of the Works, under the Contract.

The Equipment shall include, but may not be limited to, the following:

- a) All the vehicles including cars, vans, trucks, tractor-driven trolleys or other modes of transportation to be used for transporting of the following or to be used for other functions for the operation and maintenance of the Works:
- People
 - Goods or things
 - Conveyance of the solid and semi-solid wastes and residues generated by the operation of the Works, within the Site of Works
- b) All the chemicals dosing facilities, including chemical dosing vessels, chemical dosing pumps, instrumentation and piping, if and when required
- c) All the office equipment including, but may not be limited to, computers, printers, fax machines, photocopiers with consumables and stationery items
- d) All the minor laboratory, workshop and other equipment and instruments, not included in the Works, under Section 5 with required consumables.

7. MATERIALS

The Contractor shall, at his cost, provide and use all the Materials, required for the operation and maintenance of the Works, under the Contract, for a period of twelve (12) months.

The Materials shall include, but may not be limited to, the following:

- a) All the fuels and lubricants for the operation of the Plant and Equipment including vehicles
- b) All the treatment process chemicals, if and when required
- c) All the laboratory chemicals
- d) All the stationery items and materials for the operation and maintenance of the office equipments including, but may not be limited to, computers, printers, fax machines, and photocopiers

- e) All the materials including replacement items and spares for the Predictive Maintenance Investigations and Routine, Preventive and Corrective maintenance of the Works including Plant and Equipment including vehicles
- f) The Contractor should include a list of spares and frequency of parts replacement as per the recommendations of the manufacturers. Spares should be provided for minimum twelve (12) months period of operation and maintenance.

All the Materials shall be subject to the approval of the Employer' Representative.

8. TRAINING OF EMPLOYER'S PERSONNEL

During the Operation Service Period, the Contractor shall, at his cost, carry out training of such reasonable number of Employer's Personnel in different disciplines and trades, as designated by the Employer' Representative, in the operation and maintenance of the Works. The training shall comprise both on-job as well as instructional training.

The program and scheduling of the instructional training shall be agreed with the Employer' Representative and the Contractor shall provide experienced training staff, and all training materials, for this purpose.

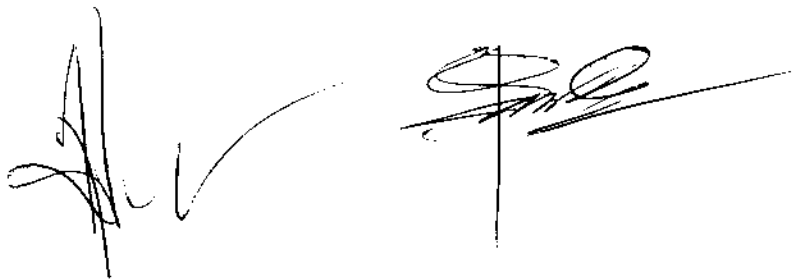
Contract Package TP-III: Upgradation and Expansion of Sewage Treatment Plant at Mauripur, Karachi

Bill No.7 (Operation and Maintenance)

Operation Service for the Works (for specified Operation Service period)

S. No #	Item Description	Unit	Quantity	Unit Rate (Rupees)	Amount (Rupees)
1.	Providing Operation and Maintenance Services for the Works, for specified Operation Service period of 365 days, complete in all respects, in accordance with the Contract, including charges of electricity and other utilities.	Months	12		
	Total Carried to Summary				

Annexure - "C"

Two handwritten signatures are present at the bottom of the page. The signature on the left is a stylized, cursive name that appears to be 'A. V.'. The signature on the right is a more complex, cursive name that appears to be 'S. S. S.'.



KARACHI WATER & SEWERAGE BOARD
OFFICE OF THE EXECUTIVE ENGINEER (S-III) /
SECRETARY EVALUATION COMMITTEE

Block - D, 1st Floor, 9th Mile Karsaz, Shakra-e-Faisal, Karachi

No. E.E/S-III/KW&SB/2014/275

Dated: May 8, 2014

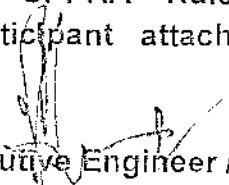
MINUTES OF MEETING

Subject: MEETING OF PROCUREMENT COMMITTEE FOR BID EVALUATION (TECHNICAL PROPOSAL) OF SEWAGE TREATMENT PLANT AT MAURIPUR KARACHI UNDER S-III PROJECT, KW&SB.

Ref. No. SPPRA SR No.18487, NIT REF. NO. INF-KRY- NO.3186/13

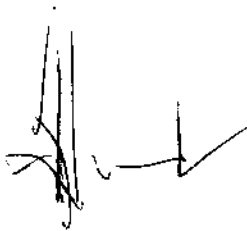

Kindly find attached minutes of the meeting as per Clause 41-9 on the above subject held on 5th May 2014 in Committee Room, Block-D, M.D's Secretariat, KW&SB chaired by Mr. Ovais Malik, Chief Engineer (West) as convener of meeting.

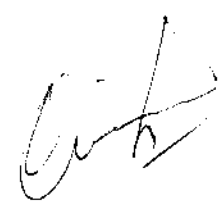
As per Clause 41-9 of SPPRA Rule 2010, the Bid (Technical Proposal) opened at 2.30 p.m. on schedule date in the presence of all members of committee constituted as per Clause No.7 of SPPRA Rule and representatives of contractor firms - List of participant attached at Annexure-1.


Executive Engineer /
Secretary Evaluation
Committee (S-III) Project,
KW&SB

Distribution:
All Members.

Copy to:
1. Project Director, (S-III) Project, KW&SB



Subject: Minutes of Meeting of Procurement Committee for Bid Evaluation (Technical Proposal) of Sewage Treatment Plant at Mauripur, Karachi under S-III Project KW&SB, held on 5th May 2014 i.e. Opening of Technical Proposal.

The Contract Packages of Sewage Treatment Plant's upgradation and expansion works under S-III Project was invited on 2nd January 2014 through local leading newspapers and in international print media on 19th March 2014. The Bid (Technical) opened as per amended schedule on 5th May, 2014 at 2.30 p.m. in the Committee Room of M.D's Secretariat, Block-D, 9th Mile Karsaz Office.

The meeting was chaired by Mr. Ovais Malik, Chief Engineer (West) KW&SB and attended by all members of the Committee and the representatives of the Contractor firms.

Sealed Boxes show to all participants in the room, and then at 2.30 p.m. opens to taken out the bids – seal of all bids checked by the Committee members, after which opened publically in presence of all members and representatives of all bidder's firms. Bid number marked on each bid and circulated among members for signing on title page of bid envelope.

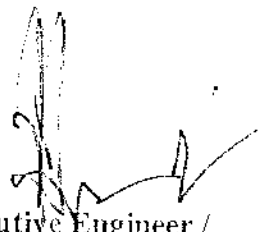
Attendance sheet forwarded for signing the attendance among all members and bidders representatives as per Clause 41(6) of SPPRA.

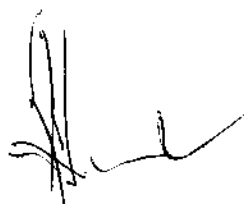

Following the Clause 46-2-(c) (d) of SPPRA Rule 2010, The Committee segregates the financial proposal in separate locked box.

The Convener inform to all members that technical evaluation of bids in accordance with evaluation criteria will be begin from next meeting.

The meeting agenda completed, therefore the meeting ended at 5.50 p.m. with vote of thanks to and from the Chair.

Submitted please.


Executive Engineer /
Secretary Evaluation Committee
S-III Project, KW&SB





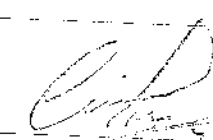


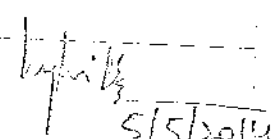

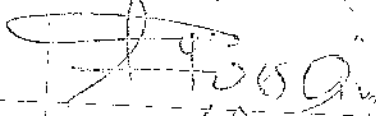
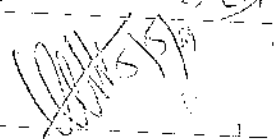

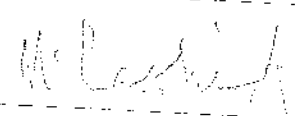

KARACHI WATER & SEWERAGE BOARD
OFFICE OF THE EXECUTIVE ENGINEER (S-III) PROJECT
SECRETARY / MEMBER EVALUATION COMMITTEE
Block - D, 9th Mile Karsaz, Shakra-e-Faisal, Karachi
Phone & Fax No. 99240828

No. EE/SECY (EC)/(S-III)/2014/52

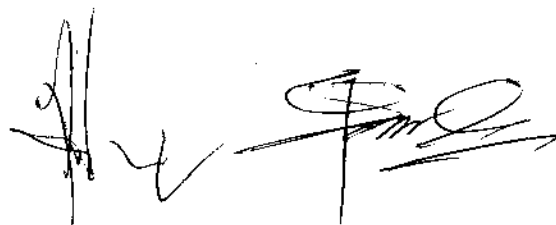
May 05, 2014

Subject: Contract Package TP- III "Up-Gradation and Expansion of
Sewage Treatment Plant at Mauripur Karachi, Under Greater
Karachi Sewerage Plan S-III"

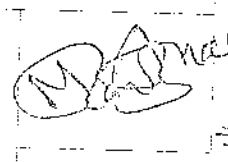
ATTENDANCE SHEET

NAME	DESIGNATION	SIGNATURE
Mr. Owais Malik	Convener / Member	 5/5/14
Mr. Qaiser Ali	Member	 5/5/14
Mr. S. M. Yahya	Director Labs. Env. Dept GOS (Member)	
Mr. Fahim Junejo	D.G (M&E) L. G G.O.S Member	 5/5/2014
Mr. Maqsood Shaikh	S.E (KWC) Member	
Mr. Sardar Shah	Member	
Mr. Ayaz Tunio	Member	
Mr. Naveed Jabbar	A.O Member	
M/s. Techro Consultants Int.		


Cont... P/2



Bidders / Participants

Name of Representative	Firm / Company	Designation	Signature
Mr.	M/s. Crescent Const. Co.		
Mr.	M/s. Descon Engineering Limited		
Mr.	M/s. Habib Rafiq (Pvt) Limited		
Mr.	M/s. RCL - PESC - CRFG (JV)		
Mr. S. M. Raza Naqvi	M/s. Pak Oasis Industries	General Manager.	
Mr.	M/s. R. M. Gulistan Engineering & Cons.		
Mr.	M/s. Saadullah Khan & Brothers.		
Mr.	M/s. Sultan Mahmood & Co.		
Mr.	M/s. VINCI Construction Grand Project		
Mr.	M/s. Sardar M. Ashraf D. Baluch (Pvt) Ltd.		

MUKHTI ARBANTIO
Secretary / Member
Evaluation Committee

Karachi Water and Sewerage Board
Greater Karachi Sewerage Plan (S-III)

BID OPENING CHECKLIST

Contract Reference: *Contract Package TP-III: Upgradation and Expansion of Sewage Treatment Plant at Mauripur, Karachi*

Bid Opening Date: 05-05-2014 Time: 1430 Hrs.

Name of Bidder: M/s. Park Oasis Engineering Pvt. Ltd.

- (a) Is outer envelope of bid sealed? Yes
- (b) Is Letter of Technical Bid completed and signed? Yes
- (c) Expiration date of bid: 05-05-2014
- (d) Is documentary authority for signing enclosed? Yes
- (e) Bid security enclosed (as required): Yes
- (f) Describe any "Substitution," "Withdrawal," or "Modification" submitted.

- (g) Additional comments

- (h) Name of bidder or his representative who attended bid opening.
Syed Muhammad Raza Naqvi, Mukarram Saad
- (i) Is envelope of financial bid sealed?

Signed by Bidder's Representatives: [Signature]

Signed by: (Members, Procurement Committee)

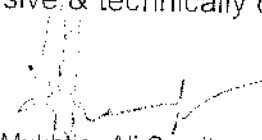
[Signature] [Signature] [Signature] [Signature]
[Signature] [Signature] [Signature]
5/5/14
Convenor of Procurement Committee


TP-10


SUB: TECHNICAL EVALUATION REPORT FOR CONTRACT PACKAGE "UP-GRADATION AND EXPANSION OF SEWAGE TREATMENT PLANT AT MAURIPUR, KARACHI UNDER S-III PROJECT.


The Procurement Committee having carried out the critical analysis, check & pre-requisites for evaluation and In consideration of all aspects related to the technical proposal. After due deliberation and consensus recommends that only Applicant Firm M/s Pak Oasis Industries (Pvt) Ltd., qualify for the stage-II of bidding process wherein financial proposal will be opened.

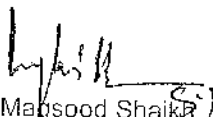
No bidder found non responsive who have been rejected on the ground of their technical proposal and returned their financial bid unopened. Therefore conduct the opening of financial proposal of only applicant bidder submitted substantially responsive & technically qualify bid, as per SPPRA Rules 2010.

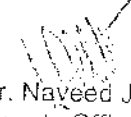

Mr. Mukhtiar Ali Samito
EE (S-III)
Member/Secretary



Mr. Ayaz Ahmed Tunio
DPM S-III
Member



Mr. Sardar Ali Shah
PM S-III
Member



Syed Qaiser Ali
SE (E&M) KW&SB
Member


Mr. Mansoor Shaikh
Executive Engineer, KMC
Member


Mr. Naveed Jabbar
Accounts Officer (S-III)
Member

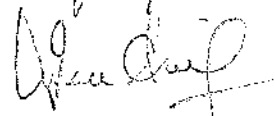

Mr. Fahem A. Junejo
Representative L.G (GOS)
Member


Mr. S.M. Yahya
Rep. Environmental
Deptt. GOS
Member

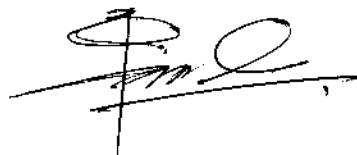

Mr. Ovais Malik
C.E. (Zone-W)
Convener

Encl: Technical Evaluation Report

Project Director (S-III), KW&SB.

Approved.
As proposed.

P.D (S-III)





Greater Karachi Sewerage Plan (S-III)
Up-gradation and Expansion of Sewage Treatment Plant at Mauripur, Karachi
Technical Evaluation of Bidder
Status of Responsiveness

Bidder: *M/s Pak Oasis Industries (Pvt.) Ltd. (Sole Bidder)*

S.No	Description	Findings	Remarks
1	Valid PEC Registration Certificate in CA Category with Specialization in CE-09, CE-10, ME-06, EE-04 & EE-05.	Available	Pass
2	Average Annual Turnover (minimum Rs.3,000/- Million)	Rs. 4,404.812 Million	Pass
3	Auditor's Balance Sheets for last 3 years.	Available	Pass
4	Litigation History on Rs 100 Stamp paper	Available	Pass

RESULT

RESPONSIVE

Responsive

NON RESPONSIVE

[Signature]

[Signature] *[Signature]*

[Signature] *[Signature]*

[Signature] *[Signature]*

Greater Karachi Sewerage Plan (S-III)
Up-gradation and Expansion of Sewage Treatment Plant at Mauripur, Karachi
Detailed Technical Evaluation of Bidder (M/s Pak Oasis Industries (Pvt.) Ltd.)

1.5.1 Qualification of Firm

Total 100 Points

DESCRIPTION		Weightage Points	Project Executed	Weightage Points Obtained
a.	(I) Experience in execution of mega Water / Waste Water Treatment Projects executed during last 5 years amounting to minimum Rs. 2000 Million.	25		
	(II) Experience in execution of mega Water / Waste Water Treatment Projects executed during last 5 years amounting to minimum Rs. 3000 Million.	30		
	(III) Experience in execution of mega Water / Waste Water Treatment Projects executed during last 5 years amounting to minimum Rs. 4000 Million.	35		35
		Weightage Points		Weightage Points Obtained
b.	Mandatory in House Design facility or Association with reputable Design House (The firm or his associates should have capacity to deal with technical aspects and have sufficient knowledge of Sewage Treatment Process).	30	-	20
		Weightage Points		Weightage Points Obtained
c.	Understanding of the Project along with the Methodology of its implementation.	35	-	30
		Weightage Points		Weightage Points Obtained
Total Qualification Score (a+b+c)				85

1.5.2 Key Personnel

Total Points 100

Sr. No.	Position	Weightage Points		Weightage Points Obtained	
		Qualifications	Experience	Qualifications	Experience
1	Project Manager	3	12	3	12
2	Site Engineer (2 Nos) Civil	4	8	3.6	8
3	HSE Specialist	2	7	1.8	5.6
4	Structural Engineer	1	7	1	7
5	Material Engineer	3	7	0	7
6	Mechanical Engineer	5	8	5	8
7	Treatment Process Engineer	3	7	3	7
8	Instrumentation Engineer	4	7	3.6	7
9	Electrical Engineer	5	7	4.5	7
Total Weightage Points		30	70	25.5	68.6

Greater Karachi Sewerage Plan (S-III)
Up-gradation and Expansion of Sewage Treatment Plant at Mauripur, Karachi
Detailed Technical Evaluation of Bidder (M/s Pak Oasis Industries (Pvt.) Ltd.)

		Weightage Points	Weightage Points Obtained
a.	Qualification i. BE/BSC/BS Engg + Masters ii BE/BSC/BS Engg	100% 90 %	30 25.5
b.	Experience For Project Manager Only i. 20 years & above ii 15-20 years iii 10-15 years	100 % 90 % 80%	12 12
c.	Experience For 1. Site Engineer 2Nos. (2 x4) 2. HSE Specialist 3. Structural Engineer 4. Material Engineer 5. Mechanical Engineer 6. Treatment Process Engineer 7. Instrumentation Engineer 8. Electrical Engineer i. Above 10 years ii. 9 to 10 years iii 8 to 9 years	58 8 7 7 7 8 7 7 7 100 % 90 % 80 %	56.6

1.5.3 Key Equipments

Sr. No	Equipment Type & Characteristics	Minimum Number Required	Total Points 100		
			Points on Ownership	Points on Hiring	Weightage Points Obtained
1	Excavators/Rock Breakers	2	6	4	4
2	Wheel Loader	2	8	6	6
3	Grit/Sand BLASTING Equipment	2sets	8	6	6
4	Arc Welding Plant	2sets	8	6	6
5	Transit Concrete Mixer	2	8	6	6
6	Mobile Crane 20 Tons	2	8	6	6
7	Concrete Batching Plant 100 m ³ /day with backup Generators for Plant	1	12	8	8
8	Dewatering Pumps 4" & 6" Dia Suction	10	10	7	7
9	Diesels Generators 100 to 500 KVA	4	12	7	7
10	Concrete Pumps	1	10	7	7
11	Dumpers	4	10	7	7
Total Weightage Points			100	70	70

The Applicants must provide the list of:

- Note:** (a) Equipment owned by the applicant along with the ownership Documents. If the ownership documents are not provided the equipment shall be considered as hired/rental.
 (b) Equipment to be Hired by the Applicant

(Handwritten signatures and initials)

**Greater Karachi Sewerage Plan (S-III)
Up-gradation and Expansion of Sewage Treatment Plant at Mauripur, Karachi
Detailed Technical Evaluation of Bidder (M/s Pak Oasis Industries (Pvt.) Ltd.)**

1.5.4 Financial

Total Weightage Points 100

1	Average Annual Income (Net Profit) for the last 3 Years	Weightage Point	20	Weightage Points Obtained
a.	Rs.50 million to < 100 million		14	
b.	Rs. 100 million to < 150 million		17	-
c.	Rs.150 million to < 200 million		20	17
				-

Note: To be determined from the Auditor's Balance Sheet

2	Year	Average Annual Turn Over (Equivalent in Pak Rs.)	Weightage Point	50	Weightage Points Obtained
a.	1. Fiscal Year 2010 to 2013	Rs.3000 million to < 4000 million		35	
b.	2. Fiscal Year 2010 to 2013	Rs.4000 million to < 5000 million		42	-
c.	3. Fiscal Year 2010 to 2013	Rs.5000 million and above		50	42
					-

3	Minimum Cash flow Requirement	Weightage Point	30	Weightage Points Obtained
a.	Rs. 500 million to < 800 million		21	
b.	Rs. 800 million to < 1000 million		25	-
c.	Rs. 1000 million & above		30	-
				30

Note:

Minimum Cash Flow = (10 x working capital) - (30% of current commitments) - credit line
{Working capital = Current assets minus Current Liabilities}

- 1 The Applicant must Submitted the unconditional Bank Letter on the Attached Performa P-1 Mentioning the currently available credit line of the applicant and Auditor's Balance sheets for the last 3 Years.
- 2 Minimum available Credit Line must be 500 Millions through Bank's Letter.
- 3 Where necessary the Employer may make enquiries with the applicant's Bank or Auditors.

1.5.4.1 Average Annual Income	=	17
1.5.4.2 Average Annual Turnover	=	42
1.5.4.3 Minimum Cash Flow	=	30
Total Financial score		89

RESULT			
4.3.1	Qualification	=	85
4.3.2	Key Personal	=	94.1
4.3.3	Key Equipment	=	70
4.3.4	Total Financial Score	=	89
TOTAL OBTAINED SCORE			338.1
			Technically Passed

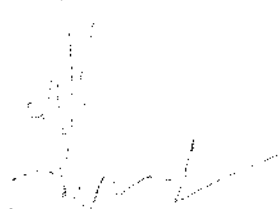
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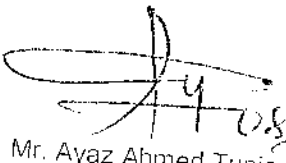
Multiple handwritten signatures and initials at the bottom of the page.


SUMMARY AND CONCLUSION


After detailed in depth scrutiny, verification, and evaluation of submitted documents, in accordance with the criteria, the Evaluation Committee found that only participated Contractors' Firms, is qualify for the stage-II of bidding process wherein financial proposal will be opened.

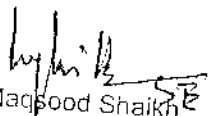
Sr. No.	Name of Firms
1	M/s Pak Oasis Industries (Pvt) Ltd.



 Mr. Mukhtiar Ali Samito
 EE (S-III)
 Member/Secretary



 Mr. Ayaz Ahmed Tunio
 DPM S-III
 Member


 Mr. Sardar Ali Shah
 PM S-III
 Member



 Syed Qaiser Ali
 SE (E&M) KW&SB
 Member

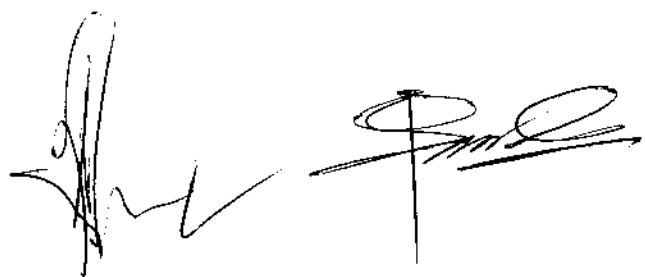

 Mr. Maqsood Shaikh
 Executive Engineer, KMC
 Member


 Mr. Naveed Jabbar
 Accounts Officer (S-III)
 Member


 Mr. Faheem A. Junejo
 Representative L.G (GOS)
 Member


 Mr. S.M. Yahya
 Rep. Environmental
 Deptt. GOS
 Member


 Mr. Ovais Malik
 C.E. (Zone-W)
 Convener



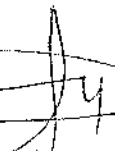
TECHNICAL EVALUATION REPORT / QUALIFICATION ASSESSMENT


Name of Procuring Agency: Karachi Water & Sewerage Board

Name of Work: Contract Package "Up-Grading and Expansion of Sewage Treatment Plant at Mauripur Karachi", under S-III Project.

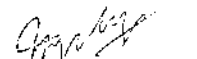
S.No.	Evaluation Criteria	Max. Marks	M/s. Pak Oaisis Industries
1	Qualification of Firm		
	(i) Execution of Similar Nature Project	35 Nos.	35 Nos.
	(ii) Inhouse Design Facility	30 Nos.	20 Nos.
	(iii) Understanding of Project	35 Nos.	30 Nos.
2	Key equipment (Machineries & Tools)	100 Nos.	70 Nos.
3	Key Personnel	100 Nos.	94.1 Nos.
4	Financial	100 Nos.	89 Nos.
	Total	400 Nos.	338.1 Nos.
	Results	-	Technically Qualify



Mukhtiar Ali Samito
EE S-III
Member / Secretary

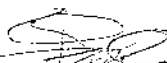

Ayaz Tunio
EE S-III
Member

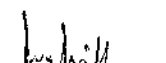

Naveed Jabbar
A.O (S-III)
Member


Faheem A. Junejo
D.G (MEC) GOS
Member


S. M. Yahya
Inst. (Environ) GOS
Member

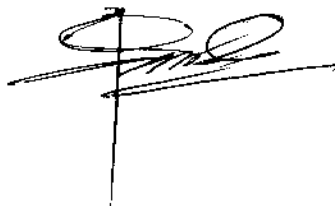

Sardar Ali Shah
P.M (S-III)
Member


Syed Qaiser Ali
S.E. KW&SB
Member


Maqsood Shaikh
S.E (KMC)
Member


Ovais Malik
C.E (West)
Convener







OFFICE OF THE CHIEF ENGINEER (WEST), KW&SB
Old KBC Building Behind Civic Centre Gulshan-e-Iqbal Karachi

No. KW&SB/Zone-WEST/S-III/2014/232.

Dated 23rd May 2014

To:
M/s. Pak Oasis Industries (Pvt) Ltd

Reference: Bids for Provision of "Upgradation and Expansion of Sewage Treatment Plant at Mauripur, Karachi.

Subject: Evaluation of Technical Proposal

The subject bid was submitted under single-stage – two envelop procedure.

The Technical Proposal of the only received bid was opened by the Evaluation Committee appointed by the Competent Authority of Karachi Water and Sewerage Board vide their notification No. KW&SB/D.M.D/HRD&A/35 on 04/02/2014, in presence of the representatives of the bidders..

The evaluation of the Technical proposal of the only one received bid from M/s Pak Oasis Industries (Pvt.) Ltd., was carried out by the Evaluation Committee in accordance with the Evaluation Criteria and other terms and condition set forth in the bidding documents with the following result.

The detailed Evaluation Report comprising of Technical and Financial evaluations will be posted on the SPPRA website, in due course of time.


(i) Technical Proposal of M/s. Pak Oasis Industries (Pvt) Ltd.

The proposal was found technically responsive and on evaluation was awarded 338 marks out of total 400 marks and is considered technically qualified to meet the requirements of the bid.

Therefore, in accordance with the Sindh Public Procurement Authority, Rules 2010, the Evaluation Committee is please to invite M/s Pak Oasis Industries (Pvt.) Ltd. to attend the financial opening of subject contract bid.

The venue, date and time of Financial Opening of technically qualified bid is given below:

Date: May 26, 2014
Day: Monday
Time: 3:00 P.M
Venue: Committee Room of S-III Project Secretariat
Karachi Water and Sewerage Board
First Floor, Block-D, 9th Mile Office,
Shahrah-e-Faisal, Karsaz, Karachi.
Phone No.: 021-99240828


CHIEF ENGINEER (WEST)
Convener (Procurement Committee)
Karachi Water and Sewerage Board

cc to:

1. The Managing Director (KW&SB).
2. The Project Director (S-III Project) KW&SB
3. Secretary (Procurement Committee), KW&SB
4. Members (Procurement Committee) {with the request to attend the Financial Bid Opening}



KARACHI WATER & SEWERAGE BOARD
OFFICE OF THE EXECUTIVE ENGINEER (S-III) /
SECRETARY EVALUATION COMMITTEE

Block - D, 1st Floor, 9th Mile Karsaz, Shakra-e-Faisal, Karachi

No. EE/S-III/KW&SB/2014/ 187

Dated: May 31, 2014

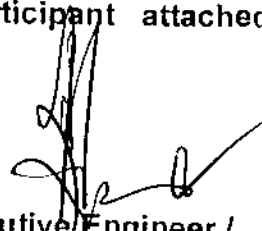
MINUTES OF MEETING

Subject: MEETING OF PROCUREMENT COMMITTEE FOR BID EVALUATION (FINANCIAL PROPOSAL) OF STP-III UNDER S-III PROJECT, KW&SB.

Ref. No. SPPRA SR No.18487, NIT REF. NO. INF-KRY- NO.3186/13

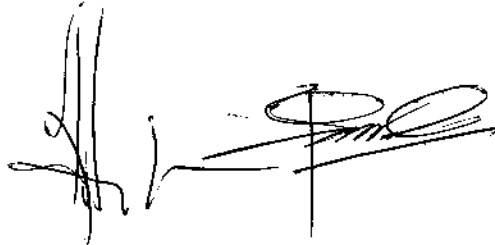
Kindly find attached minutes of the meeting as per Clause 41-9 on the above subject held on 26th May 2014 in Committee Room, Block-D, M.D's Secretariat, KW&SB chaired by Mr. Ovais Malik, Chief Engineer (West) as convener of meeting.

As per Clause 41-9 of SPPRA Rule 2010, the Bid (Financial Proposal) opened at 11:00 a.m. on schedule date in the presence of all members of committee constituted as per Clause No.7 of SPPRA Rule and representatives of contractor firms - List of participant attached at Annexure-1.


Executive Engineer /
Secretary Evaluation
Committee (S-III) Project,
KW&SB

Distribution:
All Members.

Copy to:
1. Project Director, (S-III) Project, KW&SB



all members Meeting of Procurement Committee

MINUTES OF MEETING

Subject: Minutes of Meeting of Procurement Committee for Bid Evaluation (Financial Proposal) of STP-III, under S-III Project, KW&SB, held on 26th May 2014 i.e. Opening of Financial Proposal.

The Contract Packages of STP-III Works (Upgradation and Expansion of Sewage Treatment Plant at Mauripur, Karachi) under S-III Project was invited on 2nd January 2014 through local leading newspapers and on 19th March 2014 in International Newspapers. The Bid was opened as per amended schedule on 26th May, 2014 at 11:00 a.m. in the Committee Room of M.D's Secretariat, Block-D, 9th Mile Karsaz Office.

The meeting was chaired by Mr. Ovais Malik, Chief Engineer (West) KW&SB and attended by all members of the Committee and the representatives of the Contractor firms.

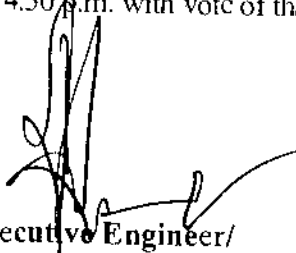
Scaled Box shown to all participants in the room, and then at 11:00 a.m. opened to taken out the bids. Seal of all bids (Financial Proposal) checked by the Committee members and representative of participants firm, after which opened publically in presence of all members and representatives of all bidder's firms. Bid number marked on each bid and circulated among members for signing on title page of bid envelope.


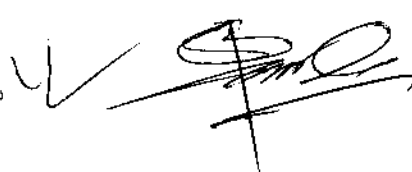
Attendance sheet forwarded for signing the attendance among all members and bidders representatives as per Clause 41(6) of SPPRA.

Following the Clause 41-9 of SPPRA Rule 2010, the name of bidder and total amount of bid read loudly and recorded when opened, also check for overwriting or cutting which is not found.

The Convener inform to all members that financial evaluation of bids in accordance with evaluation criteria will be begin from next meeting.

The meeting agenda completed, therefore the meeting ended at 4.50 p.m. with vote of thanks to and from the Chair.


Executive Engineer/
Secretary Evaluation Committee
S-III Project, KW&SB





KARACHI WATER & SEWERAGE BOARD

OFFICE OF THE EXECUTIVE ENGINEER (S-III) PROJECT /
SECRETARY / MEMBER EVALUATION COMMITTEE

Block - D, 9th Mile Karsaz, Shakra-e-Faisal, Karachi
Phone & Fax No. 99240828

No. EE/SECY (EC)/(S-III)/2014/

May 26, 2014

Subject: Contract Package TP- III "Under Greater Karachi Sewerage
Plan S-III Project"

BID EVALUATION COMMITTEE

ATTENDANCE SHEET

NAME	DESIGNATION	SIGNATURE
Mr. Owais Malik	Chief Engineer Convener / Member	
Mr. Qaiser Ali	Superintending Engineer Member	 26/5/14
Mr. S. M. Yahya	Director Labs. Env. Dept GOS (Member)	
Mr. Fahim Junejo	D.G (M&E), LG (GOS) Member	
Mr. Maqsood Shaikh	S.E (KMC) Member	 26/5
Mr. Sardar Shah	Project Manager Member	 26/5/14
Mr. Ayaz Tunio	Dy. Project Manager Member	 0850 PM 26/5/14
Mr. Naveed Jabbar	A/c. Officer Member	
Mr. Mukhtiar Samtio	Executive Engineer Secretary	

Bidders / Participants

Name of Representative	Firm / Company	Designation	Signature
Mr. S. Nadeem	M/s. Pak Oasis Industries	Director Technical	[Signature]
Mr. [unclear]	[unclear]	[unclear]	[unclear]
Mr.	[unclear]	[unclear]	[unclear]
Mr.	M/s.	[unclear]	[unclear]
Mr.	M/s.	[unclear]	[unclear]
Mr.	M/s.	[unclear]	[unclear]
Mr.	M/s.	[unclear]	[unclear]
Mr.	M/s.	[unclear]	[unclear]
Mr.	M/s.	[unclear]	[unclear]
Mr.	M/s.	[unclear]	[unclear]

[Signature]

MUKHTIAR SAMTIO
Secretary / Member
Evaluation Committee

[Signature]

Letter of Price Bid

Bid Reference No. Sewage Treatment Plant TP-III, Mauripur, Karachi
 (Name of Contract / Works)

To:

Project Director S III
K.W.S.B.
9th Mile Office, Shaker-e-Fair

[Handwritten signature]
[Handwritten initials]

1. Having examined the bidding documents including Instructions to Bidders, Bidding Data, and Conditions of Contract, Specifications, Drawings and Bill of Quantities and Addenda Nos. _____ for the execution of the above-named work, we/ the undersigned, offer to execute and complete the work and remedy any defects therein in conformity with the Conditions of Contract, Specifications, Drawings, Bill of Quantities and Addenda for the sum of Rs. 7,898,719,121/- (Rupees Seven Billion Eight Hundred Ninety Eight Million Seven hundred Ninety thousand One or such other sum as may be ascertained in accordance with the said conditions. *Hundred Twenty One only*

2. We/ understand that all the Appendices attached hereto form part of this bid.

3. We agree to permit Employer or its representative to inspect our accounts and records and other documents relating to the bid submission and to have them audited by auditors. This permission is extended for verification of any information provided in our Technical Bid which comprises all documents enclosed herewith in accordance with IB.11.1 of the Bidding Data Sheet.

4. We/ undertake, if our bid is accepted, to commence the works and to complete the whole of the works comprised in the contract within the time stated in Appendix-A to Bid.

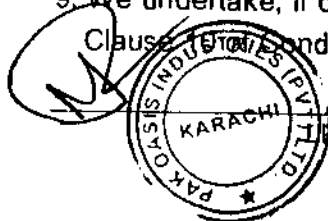
5. We/ agree to abide by this bid for the period of 120 days from the date fixed for opening the same and it shall remain binding upon us and may be accepted at any time before the expiration of that period.

6. Unless and until a formal Agreement is prepared and executed, this bid, together with your written acceptance thereof, shall constitute a binding contract between us. *[Handwritten signature]*

7. We do hereby declare that the bid is made without any collusion, comparison of figures or arrangement with any other bidder for the works.

8. We understand that you are not bound to accept the lowest or any bid you may receive.

9. We undertake, if our/my bid is accepted, to execute the Performance Security referred to in Clause _____ Conditions of Contract for the due performance of the Contract.



LPB-1 (TP-III: Sewage Treatment Plant at Mauripur – Karachi)

[Handwritten signature]
NADEEM AHMED
 Executive Engineer
 (E&M-MSTP-III) S-III
 K.W & S.B

10. We confirm, if our bid is accepted, that all partners of the joint venture shall be liable jointly and severally for the execution of the Contract and the composition or the constitution of the joint venture shall not be altered without the prior consent of the procuring agency.
(Please delete this in case of Bid form a single bidder)

In the capacity of _____ duly authorized to sign Bids for and on behalf of

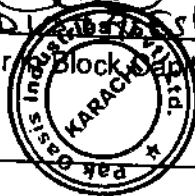
Dated this 5 day of May 2014

Signature: [Signature]

PAK OASIS INDUSTRIES (Pvt) LTD

(Name of Bidder) Block, (Seals)

(Seal)



Address: _____

Witness:

Signature: [Signature]

Name: Syed Muhammad Saeed

Address: _____

Occupation: _____

[Signature]
NADEEM AHMED
Executive Engineer
(E&M-MSTP-III) S-III
K.W & S.B

[Signature] [Signature]



KARACHI WATER & SEWERAGE BOARD



CONTRACT PACKAGE STP - 3

PROJECT:

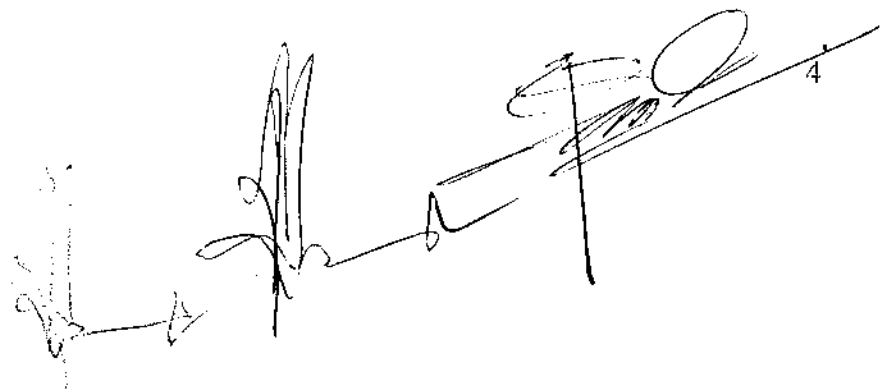
UP-GRADATION AND EXPANSION OF
TREATMENT PLANT TP-III, AT
MAURIPUR, KARACHI UNDER S-III
PROJECT

FINANCIAL EVALUATION REPORT

JULY, 2014

FINANCIAL EVALUATION REPORT TP-III
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KARACHI WATER & SEWERAGE BOARD

UP-GRADATION AND EXPANSION OF TREATMENT PLANT TP-III, AT MAURIPUR KARACHI UNDER S-III PROJECT

1. INTRODUCTION

- 1.1 Karachi with an ever-increasing population that currently stood at around 20 million, is facing a severe sanitation crisis; unhygienic conditions at Sea Coast, Clogged Nullahs, Blocked Drains, and broken up Main Trunk Sewers and out of order Treatment Plants. The current disposal system lacks treatment facilities and requires conveyance network for the sewage to divert it to the treatment plant which are currently being disposed off into coastlines of Karachi City, untreated and thereby causing serious threats to marine life and port operations.
- 1.2 In order to deal with the above stated condition Karachi Water & Sewerage Board (KW&SB) initiated a program for the implementation of Greater Karachi Sewerage Plan (S-III), which includes the Construction of Interceptor sewers along Malir and Lyari Rivers on both sides from outfall of sea to city limits and diverting the generated sewage flows from these rivers to treatment plants including capacity enhancement of existing and construction of new sewage treatment plants at Lyari and Malir River basins.
- 1.3 The subject tender evaluation report is pertaining to Contract Package STP-III upgradation and expansion of treatment plant, TP-III at Mauripur Karachi under S-III Project.

2. BIDDING PROCESS

- 2.1 The Bids were invited through leading National Newspapers published on 2nd January, 2014 and in International Newspapers published on 19th March, 2014 on the basis of Lowest Evaluated Responsive Bid (LERB). In accordance with Clause 46 (2) of SPPRA Rules – 2010.
- 2.2 **Numbers of Firms to Whom Tenders Documents Were Sold:**
Ten (10) Nos. Tenders Documents were sold to the tenders, till last extend date advertised in Corrigendum No.4.

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3 BID SUBMISSION AND OPENING:

3.1 Bid Submission Deadline:

The deadline was fixed on 5th May, 2014 by 1400 Hrs.

3.2 Bid Opening:

Out of Ten Numbers issued bid documents, Only one Tender was received and opened (technical proposals) by the tender opening and evaluation committee on 5th May, 2014 at 14:30 Hrs, in the presence of the representative of the participating firms, the following firms submitted their bids.

a) M/s. Pak Oasis Industries (Pvt) Limited.

3.4 Bid Validity Period:

According to terms and conditions of the contract the validity period of bid was fixed as 120 days from the deadline for submission of tender, being I.C Bidding.

3.5 Bid Price Announced

The bid prices were announced in the presence of the representatives of the participating firm.

The summary of announced price is given in table and is also indicated herein

(Rs. In millions)		
Sr. No.	TENDER	AMOUNT
1	M/s. Pak Oasis Industries	Rs.7,898,719,121/=

4. PRELIMINARY EXAMINATION OF TENDERS:

The preliminary examination of tenders was made to identify and reject the bids of that were incomplete, invalid or substantially non-responsive to the bidding documents. These following checks have been applied :

a) Verification:

- i) Is the bid properly signed?
- ii) If the bidders are a joint venture, agreement is submitted.
- iii) Documentary evidence of authority to sign the bid.

b) Eligibility:

- i) Is the bidder has been qualified at stage - I?

c) Bid Security:

- i) Is the required bid security submitted?

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- ii) Is the bid security valid upto required period?
- d) **Substantial Responsiveness to Tender Documents:**
Is the bid substantially responsive to the requirements of the tender documents without material deviation or reservation? A material, deviation is one (1) which effects in any substantial way the scope quality of performance work (2) which limits in any substantial way in consistent with the tender documents, the employers rights or the tenders obligation under the contract or (3) adoption whereof would affect unfairly the competitive positions of the other tenders presenting substantially responsive tenders.

4.1 **M/s. Pak Oasis Industries (Pvt) Limited:**

a) **Verification:**

- i) The bid is properly signed and stamped.
ii) N.A.
iii) Documentary evidence of authority to sign the bid is attached.

b) **Eligible:**

They are eligible to participate in the tender, as their technical proposals have been accepted at stage-1.

c) **Bid Security:**

They have submitted Bid Security in shape of Bank Guarantee No. LG No.14900100001846 dated 2nd May, 2014 from J.S Bank, Shaheen Complex Branch amounting to Rs.50,000,000/- and valid upto 5th October 2014.

The authenticity of the subject Bank Guarantee may be verified by KW&SB.

d) **Substantial Responsiveness to Tender Requirements:**

No material deviation or reservations were notified in the bid.

5. **DETAILED EXAMINATION OF TENDER:**

5.1 **Arithmetical Check:**

The Bill of Quantities (BOQ) of each substantially responsive bidder has been checked arithmetically and minor mistakes have been corrected and implemented accordingly.

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**5.2 Review of Item Rate:**

A detailed comparative statement of substantially responsive bids with Engineer's Estimate (excluding provisional sum and 5% Physical contingencies) has been made and is presented in Annexue-1 of this report. A summary of comparative study is reflected in Table - 8.

It will be seen from Table - 8 that:

- M/s. Pak Oasis Industries (Pvt) Limited has quoted a total price of Rs.7,897,436,924, which is 14.27 % above the Engineer's Estimate.

Since M/s. Pak Oasis Industries (Pvt) Limited has secured the 1st lowest evaluated position at 14.27% above the Engineer's Estimate, their quoted rates for the items of work, which make the significant financial impact, have been examined in detail.

6. DETERMINATION OF AWARD:

In view of the position as stated in this report the lowest evaluated responsive bid of M/s. Pak Oasis Industries (Pvt) Limited can be considered for acceptance and in this regard financial concurrence of contract Cost may be sort out from available funds for the project.

7. RECOMMENDATIONS:

The price quoted by M/s. Pak Oasis Industries (Pvt) Limited is Rs.7,897,436,924. Which is 14.27% above the Engineer's Estimate and being the lowest and single bidder, they can be considered for the contract and competent authority may offer letter of acceptance subject to approvals of authorities.

8. CONCLUSION:

The recommendations made in this report are subject to the availability of required funds for the expenditure incurred in the proposed Contract Package of STP-III under S-III Project.

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TABLES 1 TO 8

TABLE 1. IDENTIFICATION

1.1. Name of Project	Greater Karachi Sewerage Plan (S-III)
1.2. Employer a) Name b) Address	a) Karachi Water & Sewerage Board b) Block 'D', 9 th Mile Karsaz, Shakra-e-Faisal, Karachi.
1.3. Contract number (Identifications)	Contract Package STP-III
1.4 Contract Description	Up-Gradation and expansion of Treatment Plant-III at Mauripur, Karachi under S-III Project.
1.5 Engineer's Cost Estimate (S)	Rs. 6911183,308/-
1.6 Method of Procurement	ICB One stage two envelopes.
1.7 Fixed price contract	Yes

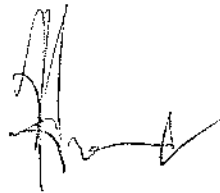


TABLE2. BIDDING PROCESS

2.1 Prequalification, carried out a) Number of firms qualified	N/A
2.2 Procurement / Tender Notice a) Name of National Newspaper b) Issue date c) Number of Individual firms / JVs notified	N/A
2.3 Standard Bidding Document a) Title, publication date b) Date of issue to bidders	2 nd January, 2014 (Local) and 22 nd March, 2014(International) From date of Publications
2.4 Number of firms to whom document issued	Nine (09)
2.5 Amendments to documents, if any a) List all amendments	Attached at Annexure-I
2.6 Date of Pre-Bid conference, if any	14 th April, 2014
2.7 Date of minutes of conference sent to bidders	17 th April, 2014

TABLE 3. BID SUBMISSION AND OPENING

3.1 Bid submission deadline a) Original date, time b) Extension, if any	5 th May, 2014, 1400 Hrs Four (04) times
3.2 Bid opening date, time (Actual)	5 th May, 2014, 1430 Hrs
3.3 Number of bids submitted	One (01) No
3.4 Bid validity period (days, weeks or months) a) Originally specified b) Extension, if any	120 days after the date of Tender Opening Nil.

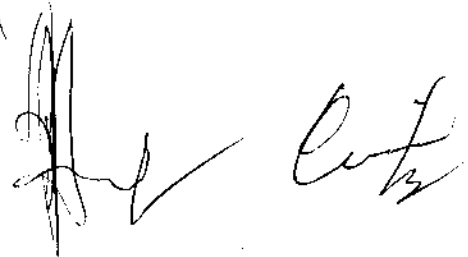
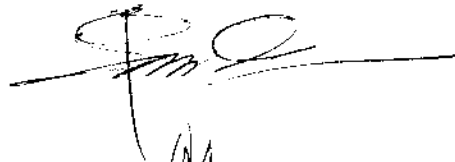
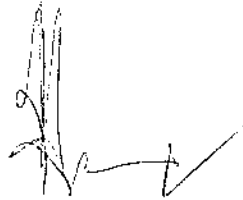


TABLE 4. SUMMARY OF BID PRICES (AS READ ONLY)

Sr. No.	Bidder Identification	Read out Bid Prices (Pak Rupees)		Modification or Comments
	Bidder Identification (a)	Amount Rs. (b)	Rebate / Premium if any (c)	
1	M/s. Pak Oasis Industries (Pvt.) Ltd.	Rs. 7898,719,121/-	NIL	NIL










TABLE 5. PRELIMINARY EXAMINATION

BIDDER	VERIFICATION	ELIGIBILITY	BID SECURITY	SUBSTANTIAL	ACCEPTANCE
	1. Properly signed 2. Joint Venture Agreement Submitted 3. Evidence of authority to sign	1. Prequalified 2. Affiliated with a consulting services firm	(in the form of Pay Order / Bank Guarantee / Insurance Guarantee Amount in Rupees)	Responsiveness to Tender Requirements	for Detailed Examination
(a)	(b)	(c)	(d)	(e)	(f)
M/s. Pak Oasis Industries (Pvt.) Ltd.	1. Yes 2. N.A. 3. Yes	1. Yes (stage-I) 2. No	Bank Guarantee for Rs. 40 Million	Fonud No Material reservation's or Deviations	Yes

TABLE 6. CORRECTIONS AND UNCONDITIONAL DISCOUNTS

Sr. No.	Bidder	Read-out Bid Price (\$)		
		Amount (S) Rs.	Discount / Premium of any	Amount after discount / premium
1.	M/s. Pak Oasis Industries (Pvt.) Ltd.	(b) Rs. 7898,719,121/-	(c) Nil	(d) Rs. 7898,719,121/-



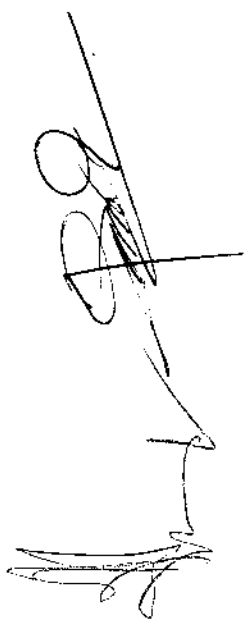



TABLE 7. ADDITIONS, ADJUSTMENTS, AND PRICED DEVIATIONS

Specify Evaluation Currency: Pak Rupees

Sr. No.	Bidder	Corrected / Discounted Bid Price Rs.	Additions	Adjustments	Priced Deviations	Total Price Rs.
	(a)	(b)	(c)	(d)	(e)	(f)=(b)+(c)+(d)+(e)
1	M/s. Pak Oasis Industries (Pvt.) Ltd.	Rs. 7897,436,924/-	-	-	-	Rs. 7897,436,924/-



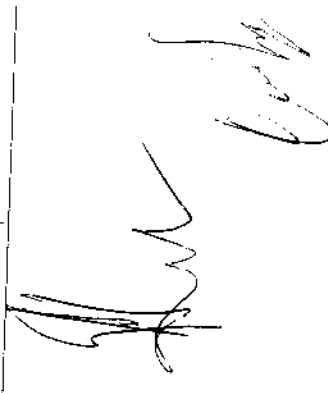


TABLE 8. SUMMARY OF COMPARATIVE COST
(Excluding Provisional Sum and Contingencies)

Sr. No.	Name of Contractor	Cost as per Engineer's Estimate		Quoted Price (Rs.)		Difference B/W Engineer's Estimate (Rs.)
		Less Provisional (a)	By Contractor Including Discount / Rebate (b)	By Contractor Less Rebate (if any), Provisional (c)		
1	M/s. Pak Oasis Industries (Pvt.) Ltd.	Rs. 6910,183,308/-	Rs. 7897,436,924/-	Rs. 7896,436,924/-	Rs. 986,253,616/-	$E = \frac{(d/a) \times 100}{14.27\%}$

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ANNEXURE

UP-GRADATION AND EXPANSION OF TREATMENT PLANT-III AT MAURIPUR, KARACHI UNDER S-III-PROJECT

COMPARATIVE STATEMENT

BILL NR	TITLE	ENGINEER'S STATEMENT	M/S. PAK OASIS INDUSTRIES (Pvt.)
1	ITEM NO 1 TO 4	Rs. 5845,657,730/-	Rs. 6784,905,999/-
2	GENERAL WORKS	Rs. 146,944,402/-	Rs. 133,262,500/-
3	DAY WORKS	Rs. 15,397,209/-	Rs. 38,200,000/-
4	OPERATION & MAINTENANCE	Rs. 574,080,000/-	Rs. 565,000,000/-
	SUB TOTAL 1 TO 4	Rs. 6582,079,341/-	Rs. 7521,368,499/-
	5% PHYSICAL CONTINGENCIES FOR VARIATION / EXTRA WORK INSTRUCTED BY THE ENGINEER	Rs. 329,103,967/-	Rs. 376,068,425/-
	TOTAL	Rs. 6911,183,308/-	Rs. 7897,436,924/-
	Less 5% Physical Contingencies	Rs. 329,103,967/-	Rs. 376,068,425/-
	Less Provisional Sum	Rs. 1000,000,-	Rs. 1000,000,-
	Sub Total	Rs. 6581,079,341/-	Rs. 7520,368,499/-
	Percentage of Rebate, if any	Nil	Nil
	Amount of Rebate	Nil	Nil
	Total After Rebate	Rs. 6581,079,341/-	Rs. 7520,368,499/-
	% Variation from Engineer's Estimate		14.27%

**CONTRACT PACKAGE TP-III UPGRADATION AND EXPANSION OF SEWAGE TREATMENT
PLANT AT MAURIPUR, KARACHI**

**CONTRACT PACKAGE TP-III
COMPARATIVE ESTIMATE
SUMMARY**

SR. NO.	TITLE	ENGINEER'S ESTIMATE	M/S. PAK OASIS IND.	% Above / Below
1	CIVIL WORKS	2,907,393,555	3,064,113,274	5.39
2	CIVIL RESTORATION WORKS	474,753,000	429,634,300	-9.50
3	ELECTRIC WORKS	869,925,940	962,403,925	10.63
4	MECHANICAL WORKS	1,593,585,235	2,328,754,500	46.13
5	GENERAL WORKS	146,944,402	133,262,500	-9.31
6	DAY WORKS	15,397,209	38,200,000	148.10
7	OPERATION AND MAINTENANCE	574,080,000	565,000,000	-1.58
	TOTAL 1 TO 7	6,582,079,341	7,521,368,499	14.27
5% PHYSICAL CONTINGENCIES FOR VARIATION / EXTRA WORK INSTRUCTED BY THE ENGINEER				
		329103967	376068425	14.27
	GRAND TOTAL OF ENGINEER'S ESTIMATE	6,911,183,308	7,897,436,924	14.27

**CONTRACT PACKAGE TP-III UPGRADE AND EXPANSION OF SEWAGE TREATMENT
PLANT AT MAURIPUR, KARACHI**

**CONTRACT PACKAGE TP-III
COMPARATIVE ESTIMATE
SUMMARY OF COST - CIVIL**

SR. NO.	TITLE	ENGINEER'S ESTIMATE	M/S. PAK OASIS IND.	% Above / Below
1	GEOTECHNICAL INVESTIGATION	2,500,000	10,050,000	302.00
2	COARSE SCREEN	29,823,435	35,339,471	18.50
3	WASTE WATER PUMPING STATION	125,483,106	152,889,995	21.84
4	SECONDARY PUMPING STATION	50,730,429	61,205,273	20.65
5	COMMON INFLUENT CHAMBER	53,977,789	64,933,568	20.30
6	FINE SCREEN CHAMBER	19,336,662	25,004,780	29.31
7	GRIT CHAMBER	39,762,070	50,331,195	26.58
8	DISTRIBUTION PIT 01	5,412,886	6,522,420	20.50
9	PRIMARY SEDIMENTATION TANK	255,736,236	333,112,905	30.26
10	JUNCTION PIT 01	4,854,837	5,687,318	17.15
11	DISTRIBUTION PIT 02 A&B	16,874,178	20,834,418	23.47
12	TRICKLING FILTERS	1,225,785,223	663,111,257	-45.90
13	DISTRIBUTION PIT 03 A&B	7,420,037	8,048,178	8.47
14	HUMUS TANKS	362,153,204	474,321,012	30.97
15	PRIMARY SLUDGE PUMPING ROOM	5,864,513	6,313,622	7.66
16	HUMUS SLUDGE PUMPING ROOM "A"	5,232,218	5,514,374	5.39
17	HUMUS SLUDGE PUMPING ROOM "B"	3,328,617	3,499,540	5.13
18	THICKENED SLUDGE PUMPING ROOM	5,153,268	5,419,374	5.16
19	PICKET FENCING THICKNERS	78,477,528	100,779,643	28.42
20	SLUDGE DIGESTERS	127,217,190	161,486,896	26.94
21	DIGESTED SLUDGE PUMPING ROOM	5,559,764	5,948,505	6.99
22	DRAINAGE PUMPING STATION	3,889,645	4,395,874	13.01

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SR. NO.	TITLE	ENGINEER'S ESTIMATE	M/S. PAK OASIS IND.	% Above / Below
23	SLUDGE TRANSFER STATION	2,676,502	2,867,068	7.12
24	SLUDGE DRYING BEDS	169,876,920	291,711,584	71.72
25	MAIN PUMPING STATION POWER HOUSE	9,404,992	8,889,320	-5.48
26	TREATMENT PLANT POWER HOUSE	14,784,650	18,650,919	26.15
27	SUB-STATION 01	8,094,146	7,592,474	-6.20
28	SUB-STATION 02	4,832,657	4,391,208	-9.13
29	SUB-STATION 03	4,617,829	4,184,789	-9.38
30	PIPES & FITTINGS	166,310,632	361,428,864	117.32
31	STROM WATER DRAINAGE NETWORK	16,057,993	30,615,860	90.66
32	ROAD WORKS	76,164,402	125,031,600	64.16
	TOTAL COST OF CIVIL WORKS	2,907,393,558	3,060,113,304	5.25

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**CONTRACT PACKAGE TP-III UPGRADATION AND EXPANSION OF SEWAGE TREATMENT
PLANT AT MAURIPUR, KARACHI**

**CONTRACT PACKAGE TP-III
COMPARATIVE ESTIMATE
SUMMARY OF COST - CIVIL (REHABILITATION)**

SR. NO.	TITLE	ENGINEER'S ESTIMATE	M/S. PAK OASIS IND.	% Above / Below
1	COARSE SCREEN CHAMBER	1,051,000	1,773,000	68.70
2	MAIN PUMPING STATION	1,275,000	1,602,500	25.69
3	FINE SCREEN CHAMBER	650,000	1,321,500	103.31
4	DETRITORS	4,080,000	9,212,000	125.78
5	INLET CHANNEL ANAEROBIC LAGOONS	1,301,500	2,876,500	121.01
6	ANEROBIC LAGOONS	71,460,000	85,630,000	19.83
7	OUTLET CHANNEL ANAEROBIC LAGOONS	1,478,500	3,700,500	150.29
8	FACULTATIVE PONDS	391,200,000	318,850,000	-18.49
9	SECONDARY PUMPING STATIONS	1,352,500	2,505,000	85.21
10	SECONDARY PUMPING STATIONS PANEL ROOMS	535,000	1,374,000	156.82
11	INLET WORKS SUB -STATION	369,500	789,800	113.75
	TOTAL COST OF CIVIL REHABILITATION	474,753,000	429,634,800	-9.50

**CONTRACT PACKAGE TP-III UPGRADE AND EXPANSION OF SEWAGE TREATMENT
PLANT AT MAURIPUR, KARACHI**

**CONTRACT PACKAGE TP-III
COMPARATIVE ESTIMATE
SUMMARY OF COST (ELECTRICAL)**

SR. NO.	TITLE	ENGINEER'S ESTIMATE	M/S. PAK OASIS IND.	% Above / Below
1	MAIN PUMPING STATION POWER HOUSE	74,784,860	78,852,600	5.44
2	TREATMENT PLANT POWER HOUSE	456,737,190	401,702,100	-12.05
3	SUB-STATION - I	26,941,040	39,939,300	48.25
4	SUB-STATION - II	12,319,110	24,105,100	95.67
5	SUB-STATION - III	7,238,700	15,019,000	107.48
6	SUB-STATION FOR SECONDARY PUMPING STATION (EXISTING FROM I TO VI)	64,021,620	63,219,600	-1.25
7	SUB-STATION FOR INLET WORKS (EXISTING)	7,353,080	14,903,375	102.68
8	MAIN PUMPING STATION (EXISTING)	4,991,370	13,644,500	173.36
9	WASTE WATER PUMPING STATIONS	1,353,210	3,223,700	138.23
10	SECONDARY PUMPING STATIONS (EXISTING FROM I TO VI)	2,434,500	6,144,000	152.37
11	SECONDARY PUMPING STATION	744,870	1,857,650	149.39
12	PRIMARY SLUDGE PUMPING ROOMS (FROM I TO II)	311,480	876,000	181.24
13	HUMUS SLUDGE PUMPING ROOMS (FROM I TO II)	328,080	943,000	187.43
14	HUMUS SLUDGE PUMPING ROOMS (FROM III TO IV)	332,820	883,000	165.31
15	THICKENED SLUDGE PUMPING ROOM	155,740	451,500	189.91
16	DIGESTED SLUDGE PUMPING STATION	164,040	477,500	191.09
17	DRAINAGE PUMPING STATION	145,830	455,500	212.35
18	SLUDGE TRANSFER STATION	154,570	455,500	194.69
19	EXTERNAL AREA WORKS	209,413,830	295,703,000	41.21
	TOTAL COST OF ELECTRICAL WORKS	869,925,940	962,855,925	10.68

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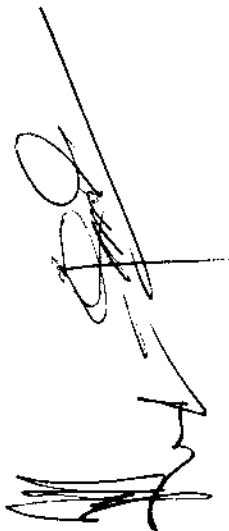
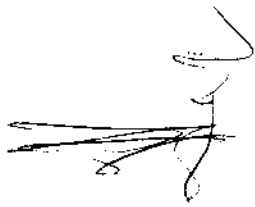

**CONTRACT PACKAGE TP-III UPGRADATION AND EXPANSION OF SEWAGE TREATMENT
PLANT AT MAURIPUR, KARACHI**

**CONTRACT PACKAGE TP-III
COMPARATIVE ESTIMATE
SUMMARY OF MECHANICAL COST**

SR. NO.	TITLE	ENGINEER'S ESTIMATE	M/S. PAK OASIS IND.	% Above / Below
1	MANUALLY CLEANED MECHANICALLY OPERATED COARSE SCREENS	33,113,117	38,200,000	15.36
2	MECHANICALLY CLEANED MECHANICALLY OPERATED RAKED TYPE FINE SCREENS	50,003,272	83,532,000	67.05
3	STANDBY MANUALLY CLEANED FINE SCREENS	9,770,147	14,400,000	47.39
4	WASTE WATER PUMPING STATIONS (NEW)	229,020,763	389,899,500	70.25
5	WASTE WATER PUMPING STATIONS (EXISTING)	46,807,960	15,640,000	-66.59
6	SECONDARY WASTE WATER PUMPING STATION (NEW)			
7	SECONDARY WASTE WATER PUMPING STATION (EXISTING)	225,244,696	196,610,000	-12.71
8	DRAINAGE PUMPING STATION	475,101,746	539,678,000	13.59
9	DETRITORS FOR NEW TREATMENT WORKS	8,298,296	4,487,000	-45.93
10	DETRITORS FOR EXISTING TREATMENT WORKS	23,276,314	48,300,000	107.51
11	DISTRIBUTION PIT # 1	39,180,942	78,600,000	100.61
12	PRIMARY SEDIMENTATION TANK	1,929,963	7,200,000	273.06
13	PRIMARY SLUDGE PUMPING ROOM	56,520,775	84,000,000	48.62
14	TRICKLING FILTERS	22,898,562	25,034,000	9.33
15	HUMUS TANKS	118,656,044	193,200,000	62.82
16	HUMUS SLUDGE PUMPING ROOM	84,781,162	145,200,000	71.26
17	PICKET FENCING THICKENER	24,758,157	35,636,000	43.94
18	THICKENED SLUDGE PUMPING ROOM	34,239,738	42,000,000	22.66
19	SLUDGE DIGESTERS	8,307,719	12,350,000	48.66
		14,463,554	165,000,000	1040.80

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SR. NO.	TITLE	ENGINEER'S ESTIMATE	M/S. PAK OASIS IND.	% Above / Below
20	DIGESTED SLUDGE PUMPING ROOM	11,638,528	17,076,000	46.72
21	SLUDGE TRANSFER STATION	8,124,057	11,464,000	41.11
22	SLUDGE DRYING BEDS	3,800,472	3,320,000	-12.64
23	POWER HOUSE	11,031,119	17,500,000	58.64
24	FLOW METERS	15,391,200	46,080,000	199.39
25	BIOGAS FLARE	2,500,000	22,500,000	800.00
26	HYDRAULIC MODELING	3,000,000	20,250,000	575.00
27	COMMON INLET CHAMBER	24,226,932	62,598,000	158.38
	TOTAL (A)	1,586,085,235	2,319,754,500	46.26

SUMMARY OF PROVISIONAL SUMS

SR. NO.	TITLE	ENGINEER'S ESTIMATE	M/S. PAK OASIS IND.	% Above / Below
1	INSPECTION OF WASTE PUMPS (3 NOS.) INSTALLED IN EXISTING MAIN PUMPING STATION BY THE	7,500,000	9,000,000	20.00
	TOTAL (B)	7,500,000	9,000,000	20.00

GRAND SUMMARY (MECHANICAL WORKS)

SR. NO.	TITLE	ENGINEER'S ESTIMATE	M/S. PAK OASIS IND.	% Above / Below
1	SUMMARY OF MECHANICAL COST TOTAL (A)	1,586,085,235	2,319,754,500	46.26
2	SUMMARY OF PROVISIONAL SUMS TOTAL (B)	7,500,000	9,000,000	20.00
	TOTAL COST OF MECHANICAL WORKS (A+B)	1,593,585,235	2,328,754,500	46.13

Handwritten signatures and initials are present below the Grand Summary table, including a large signature on the left and another on the right.

**CONTRACT PACKAGE TP-III UPGRADE AND EXPANSION OF SEWAGE TREATMENT PLANT
AT MAURIPUR, KARACHI
COMPARATIVE ESTIMATE
BILL NO. 5: GENERAL WORKS**

Sr.No.	ITEMS OF WORKS	ENGINEER'S ESTIMATE	M/S. PAK OASIS IND.	% Above / Below
1	Provide and maintain Temporary containerized furnished Site Office (Area minimum 200 Sq.Mt) with the provision of electricity, telephone, Gas, Water and Drainage system including the payment of all taxes and utility bills with separate toilet facility, all as specified or as directed by the Engineer.	8,100,000	10,800,000	33.33
2	Provide furniture, fixtures and equipment, all as specified or as directed by the Engineer, for Temporary Site Office. (The furniture, fixtures and equipment shall become property of the Employer after completion of the project).	750,000	2,364,165	215.22
3	Maintain all specified furniture, fixtures and office equipment alongwith regular supplies of office stationery and consumables including janitorial services of Temporary Site Office.	12,322,800	2,700,000	-78.09
4	Maintain CRE Office's furniture, fixtures and office equipment alongwith regular supplies of office stationery and consumables including janitorial services (Provisional Quantity).	5,400,000	4,107,600	-23.93
5	Provide Assistance to Engineer's Support Staff as stated in specification:			
	(i) Site Office Staff	14,040,000	5,744,700	-59.08
	(ii) Survey Staff with equipment.	10,800,000	16,813,080	55.68
	(iii) Laboratory Staff with Tra	7,200,000	12,151,680	68.77

Sr.No.	ITEMS OF WORKS	ENGINEER'S ESTIMATE	M/S. PAK OASIS IND.	% Above / Below
6	<p>Providing and making available at all times vehicles, including comprehensive insurance and registration etc. for use of the Engineer and his staff and employer in accordance with the specifications and as directed by the Engineer. (The vehicle shall become property of the Employer after completion of the project).</p>			
	(a) Toyota VIGO Champ G Model 2014 or equivalent	5,850,000	5,375,980	-8.10
	(b) Honda Civic Vti Oriol Prosmatec Transmission Model 2014 or equivalent.	3,600,000	2,704,650	-24.87
	(c) Honda City Aspire Prosmatec Petrol Engine with AC Model 2013 or equivalent.	3,300,000	2,489,840	-24.55
	(d) Suzuki Cultus VXRi EURO II Petrol Engine with AC Model 2014 or equivalent.	6,600,000	5,683,000	-13.89
	(e) Toyota Corolla 1.6 Gli Automatic with AC Model 2014 or equivalent.	2,752,500	2,644,830	-3.91
	(f) Suzuki Bolan VX EURO II Petrol Engine with AC Model 2014 or equivalent.	5,400,000	2,888,700	-46.51
	(g) Toyota Hiace commuter Dual AC 3.0 L Model 2014 or equivalent.	3,000,000	5,582,553	86.09
	(h) Motorbike Honda CD 70 Petrol Engine Model 2014 or equivalent.	240,000	201,000	-16.25
7	Maintenance of vehicles including Driver and P.O.L provided under item No. 2/8(a).	5,400,000	4,817,160	-10.79
8	Maintenance of vehicles including Driver and P.O.L provided under item No. 2/8(b).	4,050,000	3,970,800	-1.96
9	Maintenance of vehicles including Driver and P.O.L provided under item No. 2/8(c).	3,510,000	3,970,800	13.13

Sr.No.	ITEMS OF WORKS	ENGINEER'S ESTIMATE	M/S. PAK OASIS IND.	% Above / Below
10	Maintenance of vehicles including Driver and P.O.L provided under item No. 2/8(d).	3,510,000	15,883,200	352.51
11	Maintenance of vehicles including Driver and P.O.L provided under item No. 2/8(e).	3,510,000	3,970,800	13.13
12	Maintenance of vehicles including Driver and P.O.L provided under item No. 2/8(f).	10,530,000	11,912,400	13.13
13	Maintenance of vehicles including Driver and P.O.L provided under item No. 2/8(g).	3,510,000	5,840,424	66.39
14	Maintenance of motorbikes including Driver and P.O.L provided under item No. 2/8(h).	2,160,000	1,704,240	-21.10
15	Location and protection of all public utility services encountered with in the works during the contract period including Telephone Cables, Water Supply Lines, Sewers, Drains, Gas Pipelines, Oil refiner line and Power Cables.	6,000,000	2,000,000	-66.67
16	Provisional sum for payment to utility agencies for relocation and / or their supervision charges where required.	1,000,000	1,000,000	0.00
TOTAL		122,912,500	146,944,402	19.55



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CONTRACT PACKAGE TP-III UPGRADATION AND EXPANSION OF SEWAGE
TREATMENT PLANT AT MAURIPUR, KARACHI

CONTRACT PACKAGE TP-III
COMPARATIVE ESTIMATE
SCHEDULE OF DAY WORKS

SUMMARY

SR.NO.	TITLE	ENGINEER'S ESTIMATE	M/S. PAK OASIS IND.	% Above / Below
1	Total for Daywork: Labour	22,000,000	1,124,500	-94.89
2	Total for Daywork: Material	22,000,000	8,617,709	-60.83
3	Total for Daywork: Construction Plants	14,000,000	5,655,000	-59.61
	Total for Dayworks	58,000,000	15,397,209	-73.45

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**CONTRACT PACKAGE TP-III UPGRADE AND EXPANSION OF SEWAGE
TREATMENT PLANT AT MAURIPUR, KARACHI**

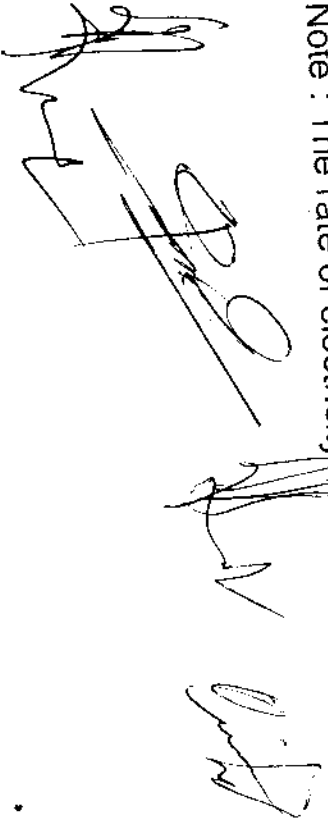
COMPARATIVE ESTIMATE

Bill No.7 (Operation and Maintenance)

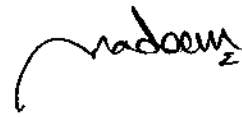
Operation service for the Works (for specified Operation Service Period)

Sr. No.	Item Description	ENGINEER'S ESTIMATE	M/S. PAK OASIS IND.	% Above / Below
1	Providing Operation and Maintenance Services for the Works, for specified Operation Service period of 365 days, complete in all respects, in accordance with the Contract, including charges of electricity and other utilities.	565,000,000	574,080,000	1.61
	Total for Operation and Maintenance	565,000,000	574,080,000	1.61

Note : The rate of electricity taken at Rs. 17.0 per KW



BILL OF QUANTITIES



NADEEM AHMED
Executive Engineer
(E&M-MSTP-III) S-III
K.W & S.B.



**CONTRACT PACKAGE TP-III: UPGRAOATION AND EXPANSION OF SEWAGE
TREATMENT PLANT AT MAURIPUR, KARACHI**

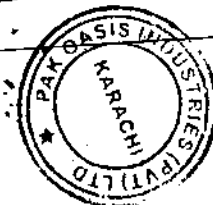
**CONTRACT PACKAGE TP-III
BILL OF QUANTITIES
SUMMARY**

BILL NR	TITLE	AMOUNT
1	CIVIL WORKS 3064,13,274	3,064,107,114/-
2	CIVIL RESTORATION WORKS	429,634,300/-
3	ELECTRICAL WORKS 962,403,925	962,631,225/-
4	MECHANICAL WORKS	2,328,754,500/-
5	GENERAL WORKS	133,262,500/-
6	DAY WORKS	38,200,000/-
7	OPERATION AND MAINTENANCE	565,000,000/-
TOTAL 1 TO 7		7,521,368,499
5% PHYSICAL CONTINGENCIES FOR VARIATION/ EXTRA WORK INSTRUCTED BY THE ENGINEER.		7,521,368,499 376,129,482/-
7,897,436,924 GRAND TOTAL		7,898,719,121

Amount in Words: *Seven Billion Eight Hundred Ninety Eight Million Seven Hundred Nineteen Thousand One Hundred Twenty One Only*

Total Carried to Letter of Price Bid :

SIGNATURE OF CONTRACTOR



Executive
NADRA
Executive
IERM
KARACHI

CIVIL WORKS



NADEEM AHMED
Executive Engineer
(E&M-MSTP-III) 9-111
K.W & S.B



KARACHI WATER AND SEWERAGE BOARD

CONTRACT PACKAGE TP - III: UPGRADATION AND EXPANSION OF SEWAGE TREATMENT PLANT AT MAURIPUR - KARACHI

BILL OF QUANTITIES (CIVIL WORKS)

SUMMARY OF COST - CIVIL (BILL No.1)

Sl. No.	Description	Amount (Rs.)
1	Geotechnical Investigation	10,050,000/-
2	Coarse Screen	35,339,471/-
3	Wastewater Pumping Station	152,889,995/-
4	Secondary Pumping Station	61,205,273/-
5	Common Influent Chamber	64,933,568/-
6	Fine Screen Chamber	25,004,780/-
7	Grill Chamber	50,331,195/-
8	Distribution Pit 01	6,522,420/-
9	Primary Sedimentation Tank	333,112,905/-
10	Junction Pit 01	5687318 (5,681,338/-)
11	Distribution Pit 02 A&B	20,834,418/-
12	Trickling Filters	667,111,227/-
13	Distribution Pit 03 A&B	8,048,178/-
14	Humus Tanks	474,321,012/-
15	Primary Sludge Pumping Room	6,313,622/-
16	Humus Sludge Pumping Room "A"	5,514,374/-
17	Humus Sludge Pumping Room "B"	3499540 (3,499,350/-)
18	Thickened Sludge Pumping Room	5,419,374/-
18	Picket Fencing Thickeners	100,779,643/-
20	Sludge Digesters	16,486,896/-
21	Digested Sludge Pumping Room	5,948,505/-
22	Drainage Pumping Station	4,395,874/-
23	Sludge Transfer Station	2,867,068/-
24	Sludge Drying Beds	291,711,584/-
25	Main Pumping Station Power House	8,889,320/-
26	Treatment Plant Power House	18,650,919/-
27	Sub-Station 01	7,592,474/-
28	Sub-Station 02	4,391,208/-
29	Sub-Station 03	4,184,789/-
30	Pipes & Fittings	361,428,864/-
31	Storm Water Drainage Network	30,615,860/-
32	Road Works	125,031,600/-
TOTAL		3,064,132,742/-

Grand Total (In Words) Three Billion Sixty Four Million One Hundred and Seven Thousand One Hundred Fourteen Only

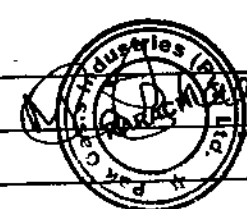
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 NAI/ Executive Engineer
 (E&M-MSTP-III) S-II
 K.W & S.B.

306413274

CIVIL WORKS RESTORATION

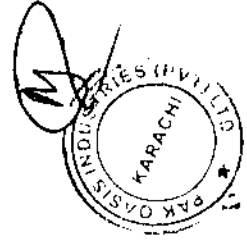
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NADEEM AHMED
Executive Engineer
(E&M-MSTP-III) S-III
K.W & S.B



ELECTRICAL WORKS

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NADEEM AHMED
Executive Engineer
(E&M-MSTP-III) S-II
K.W & S.B



SUMMARY OF COST - ELECTRICAL (BILL No.3)

66 795

Code	Description	Amount (Rupees)
01	MAIN PUMPING STATION POWER HOUSE	78,852,600/-
02	TREATMENT PLANT POWER HOUSE	40,702,100/-
03	SUBSTATION-I	39,939,300/-
04	SUBSTATION-II	24,105,100/-
05	SUBSTATION-III	15,019,000/-
06	SUBSTATIONS FOR SECONDARY PUMPING STATIONS (EXISTING FROM I TO VI)	63,219,600/-
07	SUBSTATION FOR INLET WORKS (EXISTING)	14,903,375/-
08	MAIN PUMPING STATION (EXISTING)	14,418,500/-
09	WASTEWATER PUMPING STATION	3,223,700/-
10	SECONDARY PUMPING STATIONS (EXISTING FROM I TO VI)	6,144,000/-
11	SECONDARY PUMPING STATION	1,226,000/-
12	PRIMARY SLUDGE PUMPING ROOMS (FROM I TO II)	6,857,650/-
13	HUMUS SLUDGE PUMPING ROOMS (FROM I TO II)	876,000/-
14	HUMUS SLUDGE PUMPING ROOMS (FROM III TO IV)	943,000/-
15	THICKENED SLUDGE PUMPING ROOM	883,000/-
16	DIGESTED SLUDGE PUMPING ROOM	458,500/-
17	DRAINAGE PUMPING STATION	477,500/-
18	SLUDGE TRANSFER STATION	455,500/-
19	EXTERNAL AREA WORKS	455,500/-
Total Cost of Electrical Works :		295,704,300/-
		295,703,600

Grand Total (in Words)

Nine Hundred Sixty Three Million Six Hundred Thirty One Thousand Two Hundred Twenty Five only

Name

Authorized Signatures

Seal



MADADU AHMED
 NADEEM Engineer
 Executive (E&M-MSTP-III) S-III
 (E&M-MSTP-III) S-III
 K.W & S.B

BOQ-ELECTRICAL WORKS (1 of 1)

962,403,925

MECHANICAL WORKS

Nadeem
NADEEM AHMED
Executive Engineer
(E&M-MSTP-III) S-III
K.W & S.B

Nadeem
PAK OASIS INDUSTRIES (PVT) LTD
KARACHI

SUMMARY OF MECHANICAL COST (BILL No.4)

S. No.	Heads	Amount
1	MANUALLY CLEANED MECHANICALLY OPERATED COARSE SCREEN	38,200,000/-
2	MECHANICALLY CLEANED MECHANICALLY OPERATED RAKED TYPE	83,532,000/-
3	STANDBY MANUALLY CLEANED FINE SCREENS	14,400,000/-
4	WASTEWATER PUMPING STATION (NEW)	389,899,500/-
5	WASTEWATER PUMPING STATION (EXISTING)	15,640,000/-
6	WASTEWATER PUMPING STATION (NEW)	196,610,000/-
7	SECONDARY WASTEWATER PUMPING STATION (EXISTING)	539,678,000/-
8	SECONDARY WASTEWATER PUMPING STATION (EXISTING)	4,487,000/-
9	DRAINAGE PUMPING STATION	48,300,000/-
10	DETRITORS FOR NEW TREATMENT WORKS	78,600,000/-
11	DETRITORS FOR EXISTING TREATMENT WORKS	7,200,000/-
12	DISTRIBUTION PIT # 1	84,000,000/-
13	PRIMARY SEDIMENTATION TANK	25,034,000/-
14	PRIMARY SLUDGE PUMPING ROOM	193,200,000/-
15	TRICKLING FILTERS	145,200,000/-
16	HUMUS TANKS	35,636,000/-
17	HUMUS SLUDGE PUMPING ROOM	42,000,000/-
18	PICKET FENCING THICKENER	12,350,000/-
19	THICKENED SLUDGE PUMPING ROOM	165,000,000/-
20	SLUDGE DIGESTERS	17,076,000/-
21	DIGESTED SLUDGE PUMPING ROOM	11,464,000/-
22	SLUDGE TRANSFER STATION	3,320,000/-
23	SLUDGE DRYING BEDS	17,500,000/-
24	POWER HOUSE	46,080,000/-
25	FLOW METERS	22,500,000/-
26	BIOGAS FLARE	20,250,000/-
27	HYDRAULIC MODELING	62,598,000/-
	COMMON INLET CHAMBER	
	TOTAL (A)	2,319,754,500/-



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 EXISTING
 (E&M-INDUSTRIES)
 (E&M-K&W&S.B)

BILL OF QUANTITIES (MECHANICAL WORKS)

SUMMARY OF PROVISIONAL SUMS

Item No.	Heads	Amount
1	Inspection of wastewater pumps (3 Nos.) installed in existing Main Pumping Station by the manufacturer (Kubota) for estimation of overhauling required for smooth operation of the pumps and motors, including dismantling and reinstallation of pumps and motors, fittings required for reinstallation, painting and coating, etc. complete in all respects as per the satisfaction of the Engineer. It also includes provision of level control switches.	9,000,000/-
	TOTAL (B)	9,000,000/-

GRAND SUMMARY

S.No.	Heads	Amount
1	Summary of Mechanical Cost, Total (A)	2,328,754,500/-
2	Summary of Provisional Sums, Total (B)	9,000,000/-
	GRAND TOTAL (A+B)	2,328,754,500/-

Grand Total (in Words) Two Billion Three Hundred Twenty Eight Million Seven Hundred Fifty Four Thousand & Five Hundred Duly

Tenderer

Name

Authorized Signatures

Seal

Pak Oasis Industries (Pvt) Ltd



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 NADRA S.B.
 KARACHI

GENERAL WORKS

Freedom
NADIMUDDIN LIMITED
EXECUTIVE ENGINEER
(E&M-MSTP-III) S-III
K.W & S.B



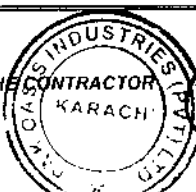
CONTRACT PACKAGE TP-III: UPGRADATION AND EXPANSION OF SEWAGE TREATMENT PLANT AT MAURIPUR, KARACHI

BILL OF QUANTITIES

BILL NO- 5 : - GENERAL WORKS

S.No.	ITEMS OF WORKS	UNIT	QUANTITY	RATE (Rs.)		AMOUNT (Rs.)
				FIGURE	WORDS	
1	Provide and maintain Temporary containerized furnished, Air conditioned Site Office (Area minimum 200 sq.m) with the provision of Electricity, telephone, Gas, water and drainage system including the payment of all taxes and utility bills. with separate toilet facility, all as specified or as directed by the Engineer.	month	36	225,000	Two lac twenty five thousand	8,100,000/-
2	Provide furniture, fixtures and equipment, all as specified or as directed by the Engineer, for Temporary Site Office. (The furniture, fixtures and equipment shall become property of the Employer after completion of the project).	Lump Sum	Job	750,000	Seven lac fifty thousand	750,000/-
3	Maintain all specified furniture, fixtures and office equipment alongwith regular supplies of office stationary and consumables including janitorial services of Temporary Site Office (36 months)	No.	1	2,700,000	Two lac seventy Two million seven hundred thousand	2,700,000/-
4	Maintain CRE Office's furniture, fixtures and office equipment alongwith regular supplies of office stationary and consumables including janitorial services (Provisional Quantity).	month	12	450,000	Four lac fifty thousand	5,400,000/-
5	Provide Assistance to Engineer's. Support staff as stated in specification. i) Site Office Staff ii) Survey Staff with equipment and transport. iii) Laboratory Staff with Transport.	month	36	390,000	Three lac ninety thousand	14,040,000/-
		month	36	300,000	Three lac	10,800,000/-
		month	24	300,000	Three lac	7,200,000/-
6	Providing, and making available at all times vehicles, including comprehensive insurance and registration etc, for use of the Engineer and his staff and employer in accordance with the specifications and as directed by the Engineer. (The vehicle shall become property of the Employer after completion of the project).	No.	1	5,850,000	Five million Eight hundred fifty thousand	5,850,000/-
	(a) Toyota VIGO CHAMP G Model 2014 or equivalent.					
	(b) Honda Civic VTI Orlel Prosmatec Transmission Model 2014 or equivalent.					
	(c) Honda City Aspire Prosmatec Petrol engine with AC Model 2013 or equivalent.					
(d) Suzuki Cultus VXRI EURO II Petrol engine with AC Model 2014 or equivalent.	No.	4	6,650,000	one million six hundred fifty thousand	6,600,000/-	
CARRIED TO COLLECTION					Eighty eight million three hundred fifty thousand	68,340,000/-

SIGNATURE OF THE CONTRACTOR



BQ-General

Executive Engineer (E&M-MSTB-II) S-III

CONTRACT PACKAGE TP-III: UPGRADATION AND EXPANSION OF SEWAGE TREATMENT PLANT AT MAURIPUR, KARACHI

BILL OF QUANTITIES

BILL NO- 5 : - GENERAL WORKS

S.No.	ITEMS OF WORKS	UNIT	QUANTITY	RATE (Rs.)		AMOUNT (Rs.)
				FIGURE	WORDS	
	(e) Toyota Corolla 1.6 GLi Automatic with AC Model 2014 or equivalent.	No.	1	2,572,500	Two million five hundred seventy two thousand five hundred	2,572,500/-
	(f) Suzuki Bolan VX EURO II petrol engine with AC Model 2014 or equivalent.	No.	3	1,800,000	one million eight hundred thousand	5,400,000/-
	(g) Toyota Hiece Commuter Dual AC 3.0 L Model 2014 or equivalent.	No.	1	3,000,000	Three million	3,000,000/-
	(h) Motorbike Honda CD 70 petrol engine Model 2014 or equivalent.	No.	2	120,000	one lac twenty thousand	240,000/-
7	Maintenance of vehicles including Driver and P.O.L provided under item No-2/8 (a).	month	36	150,000	one lac fifty thousand	5,400,000/-
8	Maintenance of vehicles including Driver and P.D.L provided under item No-2/8 (b).	month	36	112,500	one lac twelve thousand five hundred	4,050,000/-
9	Maintenance of vehicles including Driver and P.O.L provided under item No-2/8 (c).	month	36	97,500	Ninty seven thousand five hundred	3,510,000/-
10	Maintenance of vehicles including Driver and P.O.L provided under item No-2/8 (d).	month	144	97,500	Ninty seven thousand five hundred	14,040,000/-
11	Maintenance of vehicles including Driver and P.O.L provided under item No-2/8 (e).	month	36	97,500	Ninty seven thousand five hundred	3,510,000/-
12	Maintenance of vehicles including Driver and P.O.L provided under item No-2/8 (f).	month	108	97,500	Ninty seven thousand five hundred	10,530,000/-
13	Maintenance of vehicles including Driver and P.O.L provided under item No-2/8 (g).	month	36	97,500	Ninty seven thousand five hundred	3,510,000/-
14	Maintenance of motorbikes including P.O.L provided under item No-2/8 (h).	month	72	30,000	Thirty thousand	2,160,000/-
15	Location and protection of all public utility services encountered with in the works during the contract period including Telephone Cables, Water supply Lines, Sewers, Drains, Gas pipe lines, Oil refiner line and Power Cables	Job	Lump-Sum	6,000,000	Six million	6,000,000/-
16	Provisional Sum for payment to Utility Agencies for Re-location and / or their supervision charges where Required.	Provisional-Sum		1,000,000	one million	1,000,000
CARRIED TO COLLECTION						64,922,500/-

SIGNATURE OF THE CONTRACTOR

SEAL



BOQ-General

NADHEEM AHMED
Executive Engineer
(E&M-MSTP-III) S-III
K.W.P. 2018 E

CONTRACT PACKAGE TP-III: UPGRADATION AND EXPANSION OF SEWAGE TREATMENT PLANT AT MAURIPUR, KARACHI

BILL OF QUANTITIES

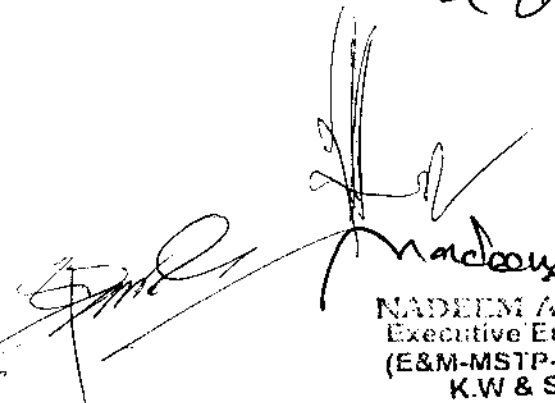
BILL NO- 5 : - GENERAL WORKS

S.No.	PAGE NO	AMOUNT
1	PAGE NO - 1	
2	PAGE NO - 2	
CARRIED TO BOQ SUMMARY		
		68,340,000/- 64,922,500/- 133,262,500/-

One Hundred Thirty Three Million Two Hundred Sixty Two Thousand Five Hundred Only

SIGNATURE OF THE CONTRACTOR

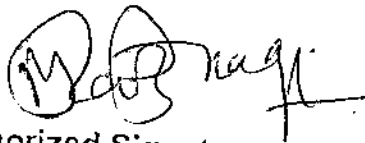
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 NADEEM AHMED
 Executive Engineer
 (E&M-MSTP-III) S-III
 K.W & S.B

SCHEDULE OF DAYWORK RATES

I. Labour

Item No.	Description	Unit	Nominal Quantity	Rate (Rs) in Figure	Rate (Rs) in Words	Amount (Rs.)
1	2	3	4	5	6	7
D101	Ganger	Hr	500	225	Two hundred twenty five	112,500/-
D102	Labourer	Hr	5,000	150	one hundred fifty	750,000/-
D103	Plumber	Hr	500	225	Two hundred twenty five	112,500/-
D104	Mason / Brick Layer	Hr	500	225	Two hundred twenty five	112,500/-
D105	Carpenter	Hr	500	225	Two hundred twenty five	112,500/-
D106	Steel Work Erector	Hr	500	225	Two hundred twenty five	112,500/-
D107	Welder	Hr	500	225	Two hundred twenty five	112,500/-
D108	Driver for vehicle up to 10 tons	Hr	1,000	225	Two hundred twenty five	225,000/-
D109	Operator for excavator, dragline, shovel or crane	Hr	500	300	Three hundred	150,000/-
D110	Operator for tractor, (tracked) with dozer blade or ripper	Hr	500	300	Three hundred	150,000/-
	Sub Total					1,950,000/-
	Add percent adjustment for Contractor's overhead, profit, etc.					250,000/-
	Total for Labour Day Works (carried forward to Day Work Summary)					2,200,000/-



Authorized Signature

Seal



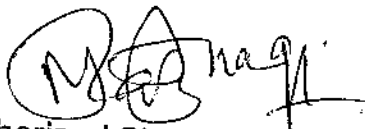


MADE WITH CANVEX
 Bangalore, Karnataka
 (RS. 2,200,000) 3.01
 2012 S.S.

SCHEDULE OF DAYWORK RATES

II. Materials

Item No.	Description	Unit	Nominal Quantity	Rate (Rs) in Figure	Rate (Rs) in Words	Amount (Rs.)
1	2	3	4	5	6	7
D201	Cement, ordinary Portland or equivalent in bags	M.Ton	200	16,000	Sixteen thousand	3,200,000/-
D202	Mild Steel reinforcing bar upto 16mm diameter to ASTM-A615 or BS 4449 or equivalent	M.Ton	100	120,000	One lac twenty thousand	12,000,000/-
D203	Fine aggregate	Cu.M	1,000	1400	Fourteen hundred	1,400,000/-
D204	Coarse aggregate	Cu.M	2,000	1500	Fifteen hundred	3,000,000/-
D205	Gelignite (Noble Special Gelatine 60 % or equivalent) including caps, fuse, wire and requisite accessories	M. Ton	10	50,000	Fifty thousand	500,000/-
	Sub Total					
	Add percent adjustment for Contractor's overhead, profit, etc.				Twenty million one hundred thousand	20,100,000/-
	Total for Material Day Works (carried forward to Day Work Summary)				one million Nine hundred thousand	1,900,000/-
					Twenty two million	22,000,000/-



Authorized Signature

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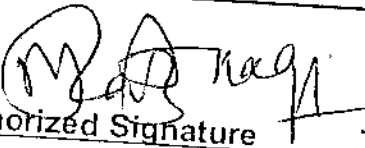



2000
2000
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SCHEDULE OF DAYWORK RATES


III. Constructional Plant

Item No.	Description	Unit	Nominal Quantity	Rate (Rs.) In Figure	Rate Rs. in Words	Amount (Rs.)
1	2	3	4		5	6
D301	Excavator, face shovel or dragline: 1. Up-to and including 1 Cu.M. 2. Over 1 Cu.M to 2 Cu. M. 3. Over 2 Cu. M	Hr Hr Hr	500 400 100	4000 4000 4000	Four thousand Four	2,000,000/- 1,600,000/- 400,000/-
D302	Tractor (tracked) including bull or angle dozer: 1. Up-to and including 150 HP 2. Over 150 to 200 HP 3. Over 200 to 250 HP	Hr Hr Hr	500 400 200	6000 6000 6000	Six thousand Six thousand Six thousand	3,000,000/- 2,400,000/- 1,200,000/-
D303	Tractor with ripper: 1. Up-to and including 200 HP 2. Over 200 to 250 HP	Hr Hr	400 200	1500 1500	Fifteen hundred Fifteen hundred	600,000/- 300,000/-
D304	Dewatering Pumps	Hr	200	2000	Two thousand	400,000/-
	Sub Total					
	Add percent adjustment for Contractor's overhead, profit, etc.				Eleven million Nine hundred thousand	11,900,000/-
	Total for Constructional Plant Day Works (carried forward to Day Work Summary)				Two million hundred thousand	2,100,000/-
					Fourteen million	14,000,000/-


Authorized Signature

Seal




Engineer
(Contract) S-III
P.A.S. & S.E.

SUMMARY – DAYWORK

Bill No.6: Daywork

	Amount (Rs.)
(I) Total for Daywork: Labour	2,200,000/-
(II) Total for Daywork : Materials	22,000,000/-
(III) Total for Daywork: Constructional Plant	14,000,000/-
Total for Daywork (Carried forward to Summary Page of Bill of Quantities)	38,200,000/-

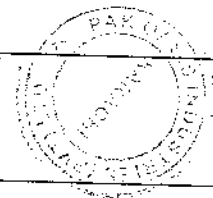
Grand Total (in Words) : Thirty Eight Million Two Hundred Thousand Only

Tenderer : _____

Name : PAK OASIS INDUSTRIES (PVT) LTD.

Authorized Signature : 

Seal : _____



M. A. Memon
 Director
 PAK OASIS INDUSTRIES (PVT) LTD.
 KARACHI

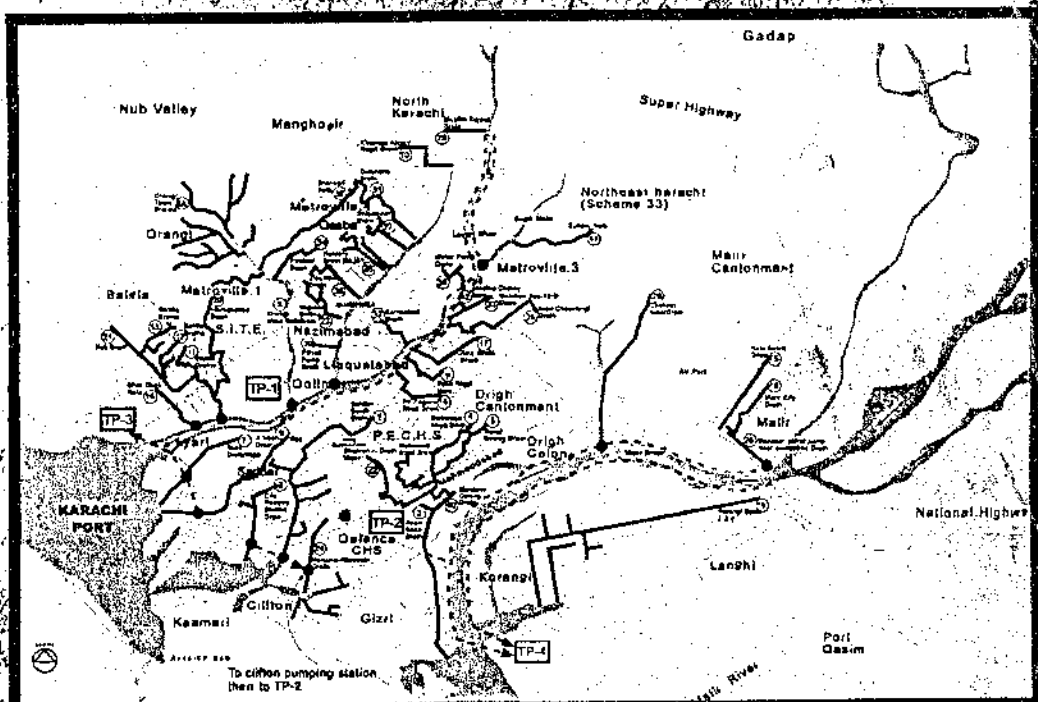


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Government Of Pakistan
PLANNING COMMISSION
FORM PC-I (SOCIAL SECTOR)

264

GREATER KARACHI
SEWERAGE PLAN (S-III)



CITY DISTRICT GOVERNMENT KARACHI (CDGK)



KARACHI WATER & SEWERAGE BOARD

GOVERNMENT OF PAKISTAN PLANNING COMMISSION

PC-I FORM

(SOCIAL SECTOR)

1)	Name of Project:	Greater Karachi Sewerage Plan (S-III)
2)	Location	Karachi District
3)	Authority responsible for:	
	i) Sponsoring	Local Government Department Government of Sindh.
	ii) Execution	Karachi Water & Sewerage Board, [KW&SB].
	iii) Operation and Maintenance	Karachi Water & Sewerage Board [KW&SB]
	iv) Concerned Federal Ministry	Ministry of Local Governments [GoP], Ministry of Finance [GoP]
4)	Plan Provision	Government of Sindh [GoS] & Government of Pakistan 50% : 50%
5)	Project objectives and its relationship with Sectoral objectives	<p>Greater Karachi Sewerage Plan (S-III) is geared towards improving environmental & sanitation conditions of Karachi through a well integrated system of collection, treatment and disposal of sewage. Project objectives are</p> <ul style="list-style-type: none"> - to protect & improve environmental conditions in city. - to maintain ecological balance. - to save the citizens from health hazards. <p>Project linkage with sector: The project falls in social sector and is a public service development work which directly or indirectly influence living in health conditions of citizens. The project is compatible with targets set out for achieving Millennium Development Goals (MDGs). Little progress has been made in this sector which led to the growing backlog. Efforts were made by the KW&SB to recover from this backlog such as</p> <ul style="list-style-type: none"> • Development of master plan for sewerage, S-I and S-II projects in the recent past and • Preparation of a draft sewerage policy. <p>The sanitation needs of the metropolis could not be met due to lack of resources. The population of Karachi is rapidly increasing and with the advent of K-III project, there is a dire need to address these needs on a war footing. S-III will address shortfall in sewerage system and treatment capacities & most importantly meet the additional needs of the 60 mgd sewage input generated by the recently inaugurated 100 mgd K-III project. These need to be addressed in the proposed plan of S-III project in this PC-1 for</p> <p>a) Construction of sewage treatment plant at Korangi and other places.</p>

		<ul style="list-style-type: none"> b) Extension of Lyari interceptor up to North Karachi & construction of trunk sewers. c) Improvement and enhancement of capacity of Existing treatment plants. d) Improvement works for existing drains e) Improvement works for enhancing inflow at existing treatment plants. <p>The project is also in line with the directives of the Deputy Chairman, Planning Commission that Federal Governments should develop and implement the projects to clean polluted rivers with priority to rivers like Lyari in Karachi. Due to immediate nature of problems in water supply, an enormous backlog has accumulated over years for want of expansion of sewerage system. It is essential to start S-III to protect environment, maintain ecological balance and save the metropolitan citizens from health hazards.</p>
6)	<p>Description and justification and technical parameters</p>	<p>Karachi with estimated population of 14 million, needs an immediate attention to water supply and consequent drainage requirements. Presently, Karachi sewage is going into sea, partially untreated, through the outfalls/nallas (natural drains), Lyari river, Malir river. Thousand of households living in riverbeds & nallahs are subject to severe flooding in heavy monsoons. In 1977 thirty lives were lost whereas 1967 saw loss of hundreds of lives in the urban areas with substantial damage to industrial, commercial and residential property. Those worst effected are the poor. The risk of flooding in the lower reaches of the Lyari River is great. Built-up areas that are repeatedly subject to substantial flooding.</p> <p>While S-I, S-II projects in past under Greater Karachi Sewerage Plan S-I (KSDP-I) saw to some extent improvement in sewerage & environmental conditions in city, the shortfall in sewage collection, conveyance and treatment systems in Karachi persists and needs to be readily addressed. Studies on Lyari and Malir rivers Pollution Study revealed that quality of the effluent is not according to EPA requirements and pose a potential health risk to humans and severe degradation of the environment. In contravention to the Factories Act of 1934, EPA Act 1997, industrial & commercial wastes are being discharged into nearest channel/river instead of discharging pre-treated waste into the network.</p> <p>S-III project would help alleviate these concerns. The S-III project components are planned to be implemented in two stages. This PC-1 refers to Stage-1 only which is expected to be completed in 4 Years.</p> <p>A) Phase - I</p> <ul style="list-style-type: none"> a) Components which relate to Malir Basin Schemes include a series of interceptor drains along Malir river, new Korangi Sewage

Treatment Plant (TP-IV), connection of Nallahs to Interceptors through intake chambers, new trunk sewers,

b) Components which relate to Lyari Basin Extension of Lyari River Interceptors, connection of nallahs to Interceptor through intake chambers.

B) Phase-II Components

Remaining nallahs to have interceptors and connected to Malir / Lyari Interceptors to separate storm sewer, Construction of more Treatment Plants.

S-III also plans to address critical and deteriorating environmental condition of the city, its beaches and hygienic conditions. Due low short treatment capacity, metropolitan beaches have become cess pools. It is essential to start S-III to protect environment, maintain ecological balance and save the citizens of Karachi from health hazards as 2nd 100 MGD K-III project has become operational and study for K-IV already initiated. K-III would contribute about 60 mgd in the already short capacitated sewage system. All drains, nallahs and rivers carrying sewage to be directed towards treatment plants before being discharged into the sea.

Separation of the drainage and sewerage systems, considering ground realities and accumulated backlog; as total separation of the drainage and sewers are practically difficult. For the large number of Katchi Abadis their discharges need to be regulated through sewage network & integrated interceptor drains. For unserved areas, these should ideally be linked to KWSB trunks sewers and interceptors. The break up of sewage generated in the city is:

Sewage generated	435 mgd
Sewage treatment capacity	151 mgd
SActual ewage treated	90 mgd
Sewage bypassing system	345 mgd
Shortfall in treatment cap.	284 mgd

It is proposed to convey and treat the domestic and industrial sewage separately. By design storm water will be kept out of the system through gated structures. During storm the conveyance system will be bypassed and the combined flow of storm and sewage, substantially diluted, will directly go to the sea.

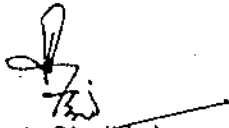
Quantity: Priority of supplying water to consumers has kept sewerage sector in background leading to a backlog in system. Lack of conveyance capacity has led to sewage flows through Malir & Lyari rivers including other nallahs/drains. This un-warranted practice must be curbed & resources be allocated to separate the domestic, industrial and storm water disposal.


		Total quantity of 375 mgd of domestic and toxic industrial wastewater was generated before commissioning of K-III project while with 3 sewage treatment plants in Karachi, the design capacity is 151 mgd but actually only 90 mgd is being treated. Remaining untreated sewage is disposed off in the sea through 7 nullahs including Lyari and Malir rivers.
7)	Capital cost estimates	Based on current market prices and prevailing rates (as of May 2006) capital cost of the project comes to Rs: 7.982 Billion which is distributed in the 4 years of the design and construction plan.
8)	Annual operating and maintenance cost after completion of the Project	Annual Operating and Maintenance [O&M] cost is estimated to be 5% of the capital cost of the project which comes to Rs: 399 million/year.
9)	Demand supply analysis	<p>With the induction of 100MGD K-III project, total present water supply to Karachi would approach 629 MGD. Out of this supply about 70% of the water supplied to the city returns as sewage. A total quantity of about 435 mgd of domestic and toxic industrial wastewater is estimated at present. There are 3 sewage treatment plants in Karachi. The total designed capacity of these 3 treatment plants is 151 mgd, but currently these are able to treat only 90 mgd.</p> <p>K-III project would add about 70 mgd into the sewage and wastewater disposal system thus overloading it. S-III project is conceived to cater for this shortfall under this scheme. The proposed project [S-III] is planned to channelize the domestic sewage through collectors and interceptors towards the treatment plants before being discharged into the sea – thus cleaning the beaches and sea front of Karachi metropolis. In most of the areas in the city the system is more than 30 to 35 years old and has over lived designed life which is 25 to 30 years.</p> <p>City sewage generation and treatment capacity balance is as follows:</p> <p>Existing:</p> <ul style="list-style-type: none"> ▪ Sewage generated 435 mgd (including additional 60 mgd Sewage due to K-III project) ▪ Sewage treatment capacity 151 mgd ▪ Sewage treated actually 90 mgd ▪ Sewage bypassing system 345 mgd ▪ Shortfall in treatment cap. 284 mgd <p>Proposed: With S-III Project (Phase-I)</p> <ul style="list-style-type: none"> ▪ Sewage generated 435 mgd ▪ Upgradation of existing sewage treatment plant: 300 mgd (Existing 150 mgd enhanced to 300 mgd). ▪ New TP-IV 200 mgd <p>This will meet the present sewage load. However, for future timely introduction of Phase-II of the S-III project will be required.</p>


10)	Financial plan and mode of financing	The project is to be funded by Government of Sindh [GoS] & Government of Pakistan 50% : 50%
11)	Project benefits and analysis	
	i. Financial	No financial profitability as project belongs to social sector and is a public service development work which directly or indirectly influence living and health condition of Karachi. KW&SB, a non-profit organization will execute the project.
	ii. Social benefits with indicators	Intangible benefits in economic terms include employment opportunities, promoting Karachi as an Eco-conscious & environment friendly city, gainers would be industries as project will bring them to international standards, clean beaches, better tourism opportunities, improved environmental, health, hygiene and sanitation conditions, fisheries quantity and quality with export potential, cost savings in environmental mitigation, maintaining a balance in eco-system etc. Also improved health and hygiene conditions with better health which will in turn boost public moral, civic sense etc.
	iii. Employment generation (direct and indirect)	Project would entail both direct and indirect employment generation. In form of additional technical, administrative and support staff in department for O&M, construction workers, technical staff with consultants, contractors.
	iv. Environmental impact	No adverse environmental impact expected. Project rather geared to greatly improve environmental conditions of the city. Contribution of environmental improvement to go mainly to export oriented industries by complying to WTO, EPA, ISO, EU and USA standards.
	vi. Impact of delays on project cost and viability	As for all projects; delays would cause the estimated price to increase i.e. Steel, cement & construction materials. Timely implementation is imperative.
12)	Implementation schedule	Project, including its, planning, design and construction is scheduled to be completed within 48 months.
13)	Management structure and manpower requirements including specialized skills during construction and operational phases.	KW&SB will supervise the project with expert advise & specialized skills through foreign / local consultants (JV) & local / international contractors.
14)	Additional projects/decisions required to maximize socio-economic benefits from the proposed project.	Immediate action is required to improve the health, hygiene, environment & overall quality of life for citizens of Karachi. Also to safeguard its beaches and marine eco-system. An early decision will avoid delays & cost-over runs
15)	Certified that the project proposal has been prepared on the basis of instructions provided by the Planning Commission for the preparation of PC-I for Social sector projects.	It is certified that the project proposal has been prepared on the basis of instructions provided by the Planning Commission for the preparation of PC-I for Social sector projects.

GREATER KARACHI SEWERAGE PLAN (S-III)

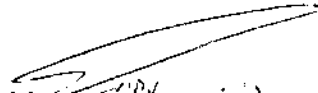
Prepared by:



(Ayub Shaikh)
Dy. Project Manager, KW&SB


(Syed Qaisar Ali)
Dy. Project Manager
(E&M), KW&SB


(Misbahuddin Fareed)
Project Manager, KW&SB

Checked by:


(Mashkoor ul-Hasnain)
Chief Engineer (Project), KW&SB


(Shahid Saleem)
Dy. Managing Director
(Planning), KW&SB

Approved by:



(Brigadier Iftikhar Haider)
Managing Director, KW&SB

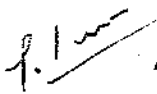
S/S

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6

Country signed by


Additional Chief Secretary
Local Government,
Katchi Areas and Spatial
Development Department


Additional Chief Secretary,
Government of Sind,
Development Department

GOVERNMENT OF PAKISTAN PLANNING COMMISSION

1. Name of the Project

Greater Karachi Sewerage Development Plan (S-III)

2. Location

*Karachi District comprising 18 Towns.
(see Figure-1)*

3. Authorities responsible for

Sponsoring

Local Government Department Government of Sindh.

Execution

*Karachi Water & Sewerage Board
[KW&SB]*

Operation and Maintenance

*Karachi Water & Sewerage Board
[KW&SB]*

Concerned Federal Ministry

Ministry of Finance

4. (a) Plan provision

There is no provision in PSDP – 2006-07

The scheme was presented to the Governor where it was decided that KW&SB submit PC-1 to Government of Sindh [GoS] for onward presentation to Government of Pakistan [GoP] for arranging the funds.

(b) Provision in the current year PSDP/ADP

Nil

5. Project objectives

Project linkage with sector: The project falls in social sector and is a public service development work which directly or indirectly influence living in health conditions of citizens. The project is compatible with targets set out for achieving Millennium Development Goals (MDGs).

KARACHI DISTRICT MAP

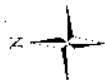


FIGURE - 1



5.1 The Greater Karachi Plan (S-III) has been envisaged by KW&SB to improve environmental conditions in city through an integrated system of collection, treatment and disposal of sewage.

5.2 In the past lesser importance was given to sewerage and a backlog has accumulated. More recently though, attempts have been made by the KW&SB through the development of Sewerage Policy Document in 2002 to highlight improvement of sewerage system from environmental aspect. The draft of this policy is attached as Appendix-1 for reference. During 1988 a master plan for sewerage was prepared. The plan was only partly implemented due to lack of resources which could match the pace of the rapid population growth and expansion of the city.

5.3 S-I corresponds to KSDP-1. Components implemented under KSDP-1 include:

- Preparation of a Sewerage Master Plan (1988-2003)
- Upgrading of STP-I & STP-II
- Establishment of Sewerage Wing in 1991
(see Appendix-3 for more details)

5.4 S-II corresponds to KSDP-II. Implementation of KSDP-II synchronized with completion of 100 MGD K-II bulk water supply project. Sewerage components implemented under S-II include:

- a) Construction of Mauripur Sewage Treatment Plant (TP-3) – 54 MGD
- b) Construction of Lyari Interceptor RCC Box culvert PVC lined:
 - Garden to Mauripur Dual 12 kms
 - Sir Shah Suleman Road to Garden – 3kms
- c) Construction of Baldia Trunk Sewer 32 kms (200 mm – 1320 mm PVC lined)
- d) Laying of Secondary sewers in Baldia.

Following S-II components were left over due to resource constraints which need to be addressed in the proposed plan (S-III).

- e) Construction of sewage treatment plant at Korangi and other places.
- f) Extension of Lyari interceptor up to North Karachi. & construction of trunk sewers.

5.5 S-III is planned to address shortfall in sewerage sector and to cope with immediate demand arising from completion of 2nd 100 MGD K-III project.

In this connection, under the chairmanship of the Deputy Chairman, Planning Commission, Islamabad a meeting was held on 4-4-2006 in which the Deputy Chairman proposed that the Federal Governments should develop and implement the projects to clean the polluted rivers in their territory with priority being given to rivers including Lyari river in Karachi. Letter in this regard is attached as Appendix-2.

Due to immediate nature of problems in water supply, an enormous backlog has accumulated over years for want of expansion of sewerage system. It is essential to start S-III to protect environment, maintain ecological balance and save the metropolitan citizens from health hazards.

6. Description and justification of project

Project Area Description

Population

Karachi is the largest metropolitan of Pakistan with estimated population of 14 million (per Karachi Master Plan 2005) with a growth rate of about 3 %. This growing population needs an immediate attention to water supply and consequent drainage requirements.

Federal Government introduced local government reforms in August 2001 under the Sindh Local Government Ordinance SLGO 2001 which abolished the previous administrative system. The present system has 18 Towns in Karachi Division with each town headed by an elected Nazim while the division itself is headed by Chief Nazim.

The town-wise population as per 1998 census is summarized as under, see Figure 2:

Table 6.1

S. No	Town	Population 1998 Census	Estimated Population 2006	Union Council
1	Baldia Town	406,165	495,521	6
2	Bin Qasim	315,684	385,134	7
3	Gadap	289,564	353,268	8
4	Gulberg	453,490	553,258	8
5	Gulshan	664,662	810,888	13
6	Jamshed Town	733,821	895,262	13
7	Keamari	383,778	468,209	8
8	Korangi	564,504	688,695	9
9	Landhi	666,748	813,433	12
10	Liaquatabad	649,091	791,891	11
11	Lyari	607,992	741,750	11
12	Malir	398,289	485,913	7
13	New Karachi	684,183	834,703	13
14	North Naziamabad	496,194	605,357	10
15	Orangi	723,694	882,907	13
16	Saddar	616,151	751,704	11
17	Shah Faisal	335,823	409,704	7
18	SITE	467,560	570,423	9

**KARACHI DISTRICT
POPULATION DENSITY MAP BASED
ON 1998 CENSUS, TOWN WISE**

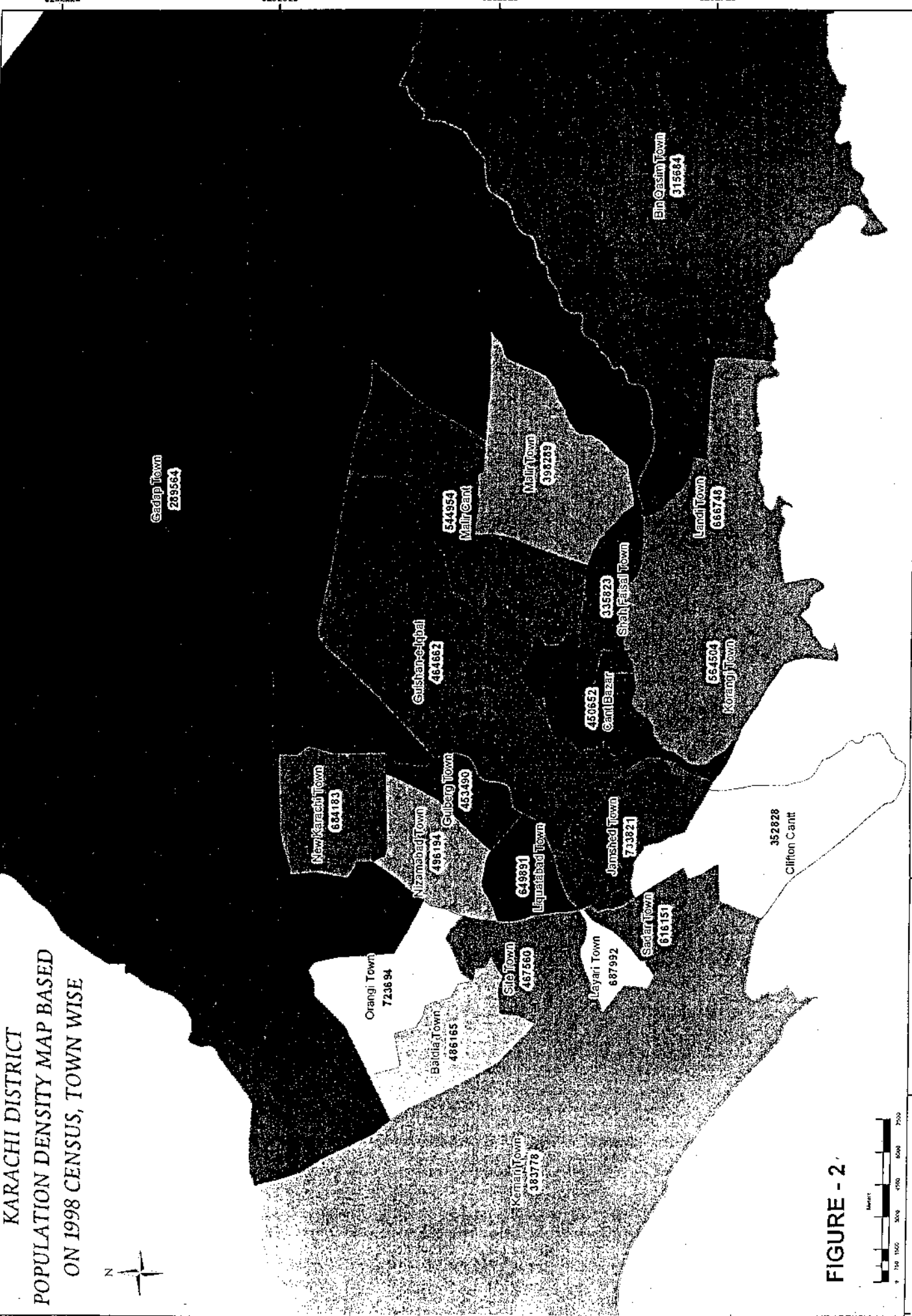


FIGURE - 2



281343 277678 276778 2757678 2747578 273743 301343 311343 321343 331343

Climate

Karachi belongs to the semi-arid dry areas in the province of Sindh. The mean annual precipitation rate is 207 mm, of which about 96 mm fall during the rainiest month of July. The mean annual number of days with 2.5 mm or more precipitation are 9 while 3 are to be expected in July. The air temperature is not excessively high. The annual mean temperature lies between 22° C and 35° C.

The relative humidity has a mean value between 44% in January and 90% in August. The annual mean is 80% (recorded at 0800 hrs) and 65% (recorded at 1700 hrs).

The main wind direction in the month of April until October is southwest. In the other months, it fluctuates between north and northeast. The mean wind velocities are:

Table : 6.2

Period	Morning		Afternoon	
	Knots	M/S	Knots	M/S
April - Sept	10	5.2	14	7.2
Oct - March	5	2.6	9	4.6

Soil & Geology

The stratigraphic sequence exposed in hills skirting Karachi is as under:-

Table : 6.3

Formation	Age	Lithology
Mancher	Pliocene	Mainly comprise of sandstone and shales with subordinate conglomerate in gritty, friable and bedded.
Gaj	Miocene	It comprises of calcareous sandstone and Limestone and has a gradation contact.
Nari	Early Miocene to Pliocene	It consists of mainly sandstone and shale with subordinating limestone and conglomerate. Limestone exists at base but is not present every where.

Soil in Karachi is not uniform every where and varies from locality to locality. For instance the soil in the old flood plain of two rivers namely Lyari and Malir and in their tributaries comprised of admixture of generally coarse to medium sand with gravels and silt and clay layers. While in the coastal areas it is in general fine to medium sand with clay and silt. As such the soils in Karachi Division are of varied in nature and admixture of sand, silt, gravel and layers of clay.

Drainage Pattern & Rivers

There is no perennial stream in Karachi Division except rain fed rivers like Lyari and Malir Rivers. Although the water of perennial Hub River is being utilized for Karachi but the entire river system lies in province of Balochistan.

Flowing from north is Lyari River which discharges in Arabian Sea/crossing Bridge at Mauripur Road. It is joined by Gujar Nalla, Orangi Nallah from west before it discharges to sea.

The other torrential river is Malir River which is joined by Thadoo Nullah north of Super Highway and Sukkhan Nallah which joins Malir river near National Highway from east. Flowing through Malir town, Shah Faisal town, and near Korangi town, the Malir river discharges to Arabian sea in Defence Housing Society areas. However, the flood plain and the river bed itself has been filled and a pukka channel has been constructed which discharges flood water to sea. It may be pointed out that these rivers had a relatively longer flood plain and rather a shallow bed which results in heavy damages even in moderate rain which are magnified several fold because of unauthorized hutment in river bed (see Figure 3 for Karachi drainage pattern.).

Geomorphological pattern of torrential rivers and Nullah may be classed as parallel to sub-parallel.

Thousand of households live in riverbeds and nallahs that are subject to severe flooding every five to seven years when the monsoon rains are heavy. Although the frequency of serious flooding is low, the damage is great. At least thirty lives were lost in the urban areas during 1977 monsoon and there was substantial damage to industrial, commercial and residential property. In 1967 the losses were much more severe, with hundreds of deaths and greater property damage. Even mild flooding causes sewers to over-flow and the entire city exposed to serious health hazards. Those worst effected were the poor.

The risk of flooding in the lower reaches of the Lyari River is great. Built-up areas that are repeatedly subject to substantial flooding.

One irrigation canal exists in the region at present from the Kotri Barrage Irrigation Scheme. Two canals have been constructed to distribute irrigation waters from Hub Dam.

Groundwater

The groundwater of potable quality is in fact a rare commodity in Karachi area. However few thin aquifers of potable or sweet water as is commonly known, occur.

In SITE area and at some locations north of Karsaz potable water of limited extent, had been reported by Pittawala in his book on Geology of Karachi. At Abdullah Shah Ghazi Mazar a slightly brackish water layer associated with sand stone is known to occur which discharges as spring.

KARACHI DISTRICT DRAINAGE PATTERN

Legend

	PRIMARY RIVER LENGTH = 138 KM (MALIR = 36 KM, LYARI = 21 KM)
	SECONDARY (NULLAH LENGTH = 90 KM) (MALIR = 36 KM, LYARI = 24 KM)
	TERTIARY (NULLAH & DRAINS LENGTH = 145 KM) (MALIR = 80 KM, LYARI = 35 KM)

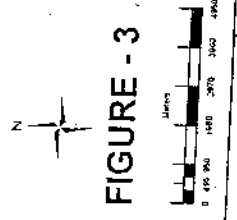
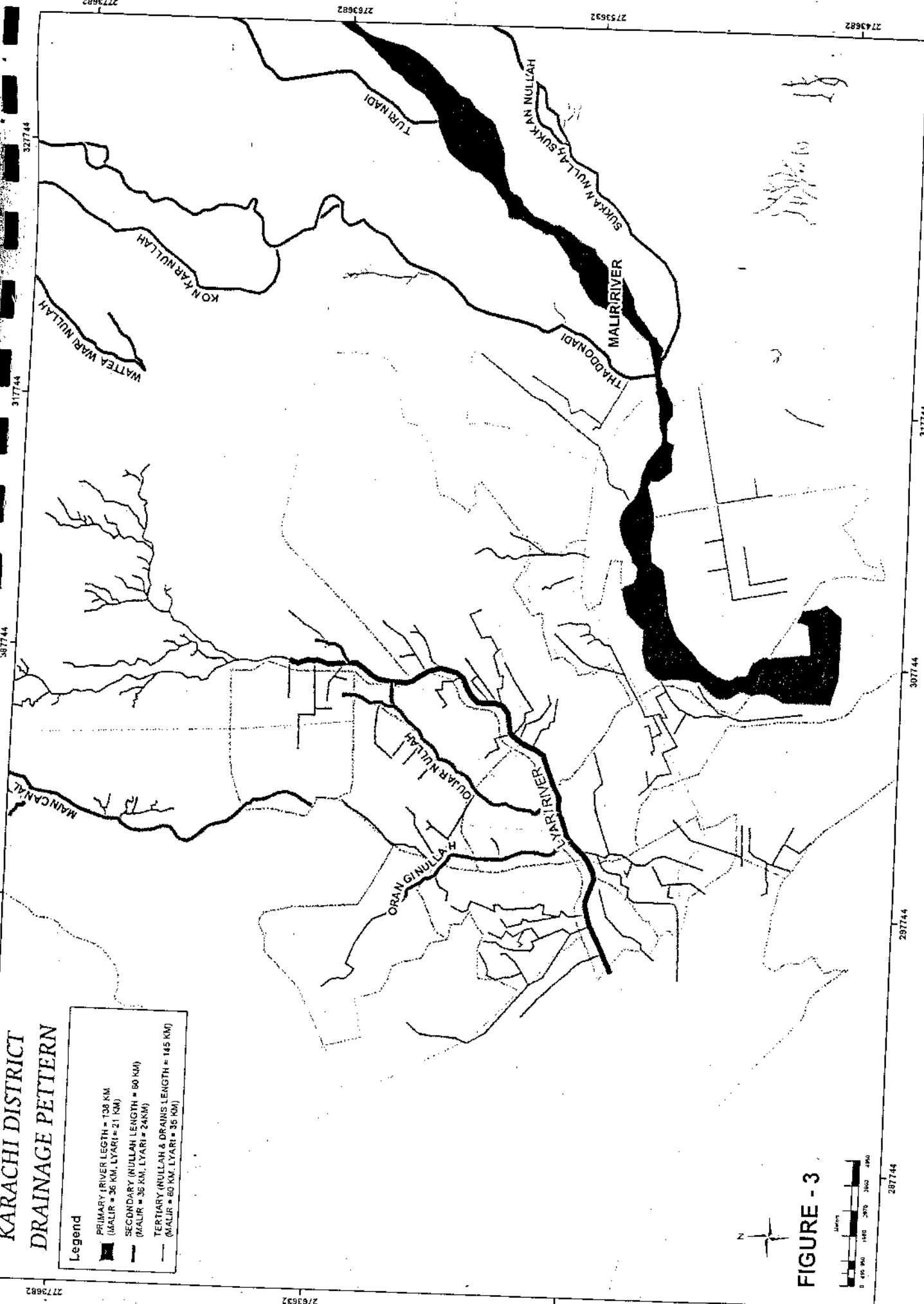


FIGURE - 3

However, the depth to water is about 150 feet or more below ground.

A number of tube wells for water supply and agriculture purposes are operational in lower Malir Basin which is over exploited. As a result the water quality is deteriorating.

Existing Facilities [S-I & S-II]

Water supply and sewerage facilities had been developed in Karachi Metropolitan from time to time. Phase wise planning and implementation are briefly described hereunder:

a) The Greater Karachi Sewerage Plan (S-I) has been envisaged by KW&SB to improve environmental conditions in the city through an integrated system of collection, treatment and disposal of sewage. Sewerage plan S-I corresponds to KSDP-1 which included the following components:

- Master Plan for Sewerage and Wastewater Disposal 1988-2003.
- Upgrading of Sewerage Treatment Plant No. 1 from 10mgd to 51mgd capacity and Sewerage Treatment Plant 2 from 12 mgd to 46 mgd capacity.

b) Phase-II of the Greater Karachi Sewerage Plan (S-II) corresponds to KSDP-II. Implementation of KSDP-II was synchronized with completion of 100 MGD K-II bulk water supply project. Sewerage components implemented under S-II included (see Figure 4):

- Construction of Sewerage Treatment Plant No. 3.
- Construction of Lyari Interceptor
RCC Box Culvert with PVC lining (Garden to Mauripur Dual 12 kms and Sir Shah Suleman Road to Garden Single 3 kms)
- Construction of Baldia Trunk Sewer & laying of Secondary Sewers in Baldia (32 kms of 200 mm to 1320 mm dia.)

Following components were left over due to resource constraints.

- Construction of Sewerage Treatment Plants at Korangi and other areas.
- Extension of Lyari Interceptor upto North Karachi.
- Construction of Trunk Sewers.

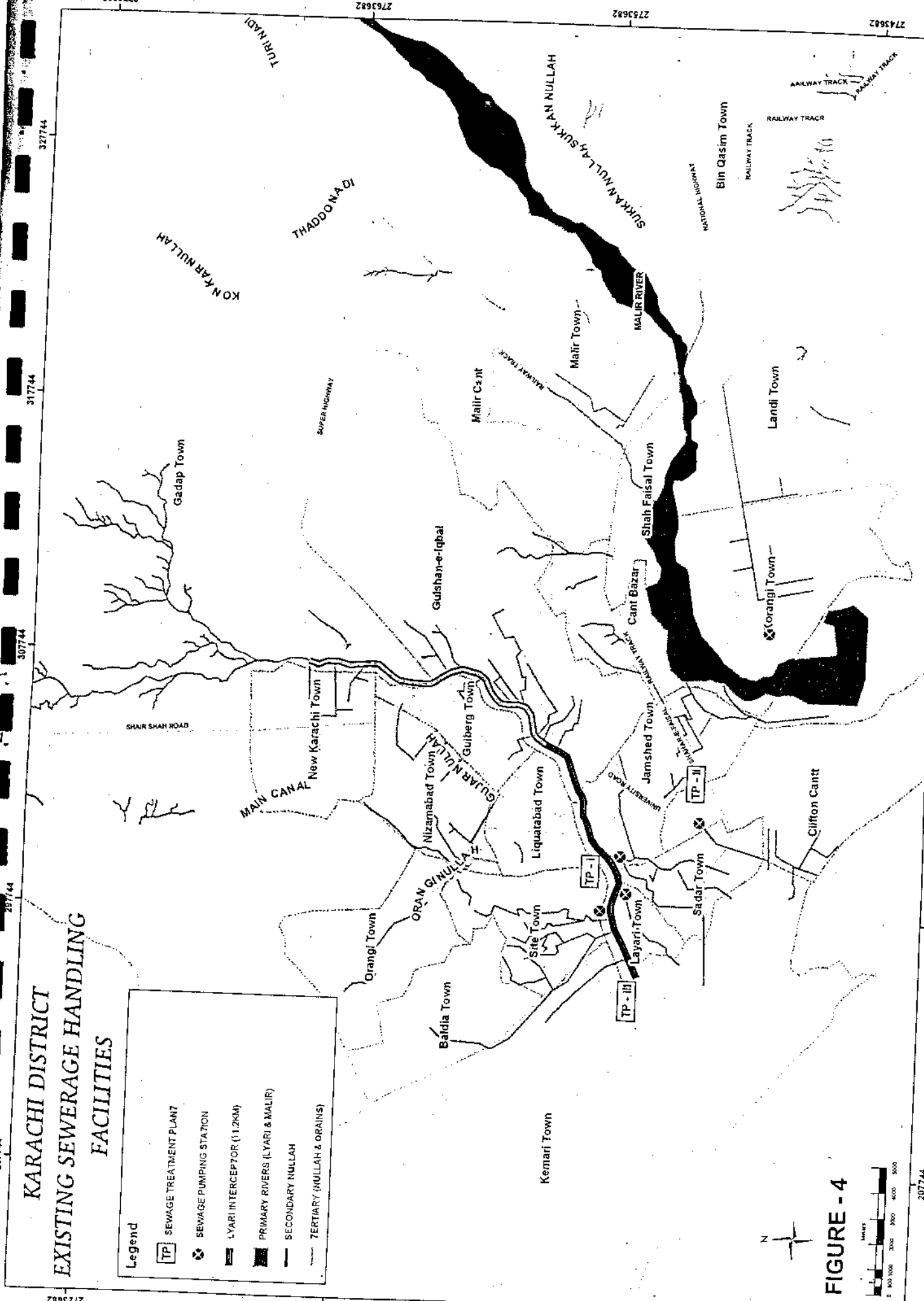
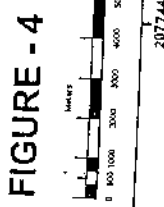
Overall existing facilities consist of the following:

Sewerage Treatment Plants	3 Nos.
Major Sewerage Pumping Stations	6 Nos.
Sewerage Lift Pumping Stations	32 Nos.
Sewerage Cleaning Machines	23 Nos.
Lateral Sewers 8"-15" dia.	2,844 miles
Sub-Trunk Sewers 15"-24" dia.	500 miles
Trunk Sewers 30"-66" dia.	200 miles
Total Length of Sewers 8"-66"	3,544 miles
No. of Manholes	250,000

KARACHI DISTRICT EXISTING SEWERAGE HANDLING FACILITIES

Legend

- SEWAGE TREATMENT PLANT
- SEWAGE PUMPING STATION
- LYARI INTERCEPTOR (11.2KM)
- PRIMARY RIVERS (LYARI & MALIR)
- SECONDARY NULLAH
- TERTIARY (NULLAH & ORAINS)



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TURKANI THADDON A-DI KON KAN NULLAH MALIR RIVER SUKKAN NULLAH SUKKAN NULLAH SIKKAN NULLAH

Gadap Town Malir Town Malir Cantonment Landi Town Bin Qasim Town

SHAIKH SHAH ROAD SUPER HIGHWAY

Orangi Town Nizamabad Town Gulshan-e-Iqbal Shah Faisal Town Cant Bazar Jamshed Town Sadar Town Cliffon Cantt

ORANGI NULLAH GUJRANULLAH

Balolia Town Site Town Layari Town TP-I TP-II TP-III

RAILWAY TRACK RAILWAY TRACK RAILWAY TRACK RAILWAY TRACK

UNIVERSITY ROAD

Salient features of the existing sewerage treatment plants TP-I, TP-II and TP-III are tabulated in Appendix-4.

A detailed study was conducted on Lyari and Malir rivers Pollution Study in 1994 through the Environmental Protection Agency. Excerpt of this study indicating the average flow and quality of the effluent is attached as Appendix-5.

Industrial Wastewater

Karachi is home to Pakistan's biggest industrial estate SITE with more than 2000 industrial units. In addition industrial areas namely Landhi, Korangi, NKFB areas are also of significance. Industries are diversified in nature handling textile, chemical, tanneries etc. Whilst the Factories Act of 1934 prohibits these industries to discharge their un-treated effluent, lack of treatment facilities & enforcement procedures (such as EPA act 1997), most of these units resorted to discharge industrial waste into nearest channel/river instead of discharging pre-treated waste into the network. As a result Lyari and Malir rivers are now perineal rivers carrying domestic / industrial waste water & serving as an open sewer through the heart of Karachi city. BoD load of Lyari is about 1000 tons/day whereas Malir river carries 500 tons/day. In response the Interceptor Trunk Sewer laid in Lyari River bed for last two years is conveying sewage to TP-3 at Mauripur while stormwater connected sewers have been converted to trunk sewers under Khushal Pakistan programme to serve Lyari & Malir rivers. Also proposal of Combined Effluent Treatment Plant (CETP) is under consideration. 3 industrial clusters at Landhi, Korangi and SITE have been planned by the Ministry of Environment. The treated effluent from CETP would conform to NEQS. The hazardous waste would be disposed at Jam Chakro.

Proposed Facilities Components of [S-III]

S-III project components are planned to be implemented in two stages. This PC-1 refers to Stage-1 only which is expected to be completed in 4 Years.

Figure 5 shows the details of proposed scheme.

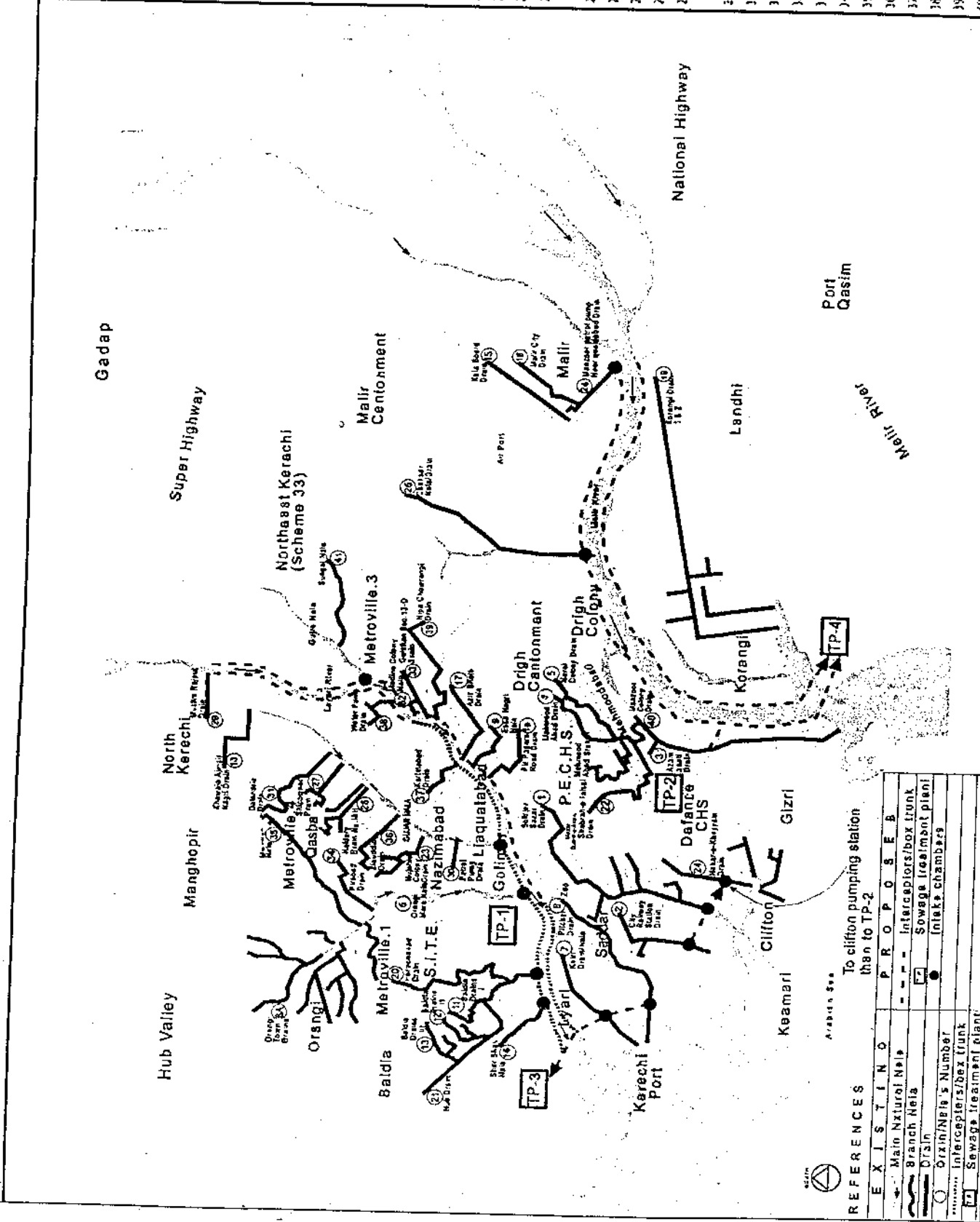
A) Phase-I Components

a) Malir Basin

- i) Interceptors along both sides of Malir river from Quaidabad bridge to proposed Korangi Sewage Treatment Plant (TP-IV) serving Landhi, Korangi, Malir, Bin Qasim, Shah Faisal, Model Colony and Gulistan-e-Jauhar.
- ii) Chakora Nallah to be connected to Malir Interceptor through intake chamber.
- iii) Trunk Sewer on Nehr-e-Khayyam to carry sewage flow to Clifton Pumping Station (CPS) and through Clifton rising mains to TP-II (Mehmoodabad) for treatment and disposal.

KARACHI DISTRICT - CONCEPTUAL PLAN FOR A REALISTIC SEWAGE DISPOSAL SYSTEM

Karachi map showing the documented natural naals & drains(which are the main disposals for sewage and rain water) and the integration of these with the mains & STPs.



S. NO	NAME OF DRAIN/NAALA	LENGTH IN FT
1	Sadar Bazar Drain	25580
2	City Railway Station Drain	10325
3	Azam Bazar Drain	366
4	Mutamadilab Drain	14289
5	Naval Colony Drain	11250
6	Coorg High Main	18918
7	(Binaries Chokas to Lyari Main)	94234
8	Coorg Town Drains	9526
9	Kabir Drain / Kala	14700
10	Butcher / Drain	7794
11	Usta Haji Hala A-D	14222
12	Wellfire Colony Drains	1600
13	Khawaja Syarif Meer Drain And	17284
14	Kerih Karachi, SEC. 11-A Drain	6403
15	Stable Hala / Drain	9110
16	Bacha Drains	9259
17	Sheer Shah Hala	13856
18	Kala Road Drain	8377
19	Water City Drain	48496
20	Arif Bhatti Drain	17753
21	Pir Papa's Road Drain	23815
22	Georgy Drain 1 & 2	21650
23	Haroonabad Drain	2172
24	Hub Drain	5639
25	Shah-e-Faisal Drain	23000
26	Maga's Chowring Drain and	19250
27	Shadman Town Drain	7542
28	Maha & Khayyat Drain	500
29	Chakkar Hala/Drain	7552
30	Naillery Drain 1 & 2	3270
31	Shoguner College Drain	13815
32	Mansoor Petrol Pump to Islamia	1399
33	Kanta Hala (Near Qadabab) Drain	923
34	Husain Rajput Colony Drain	298
35	Mahmood Drain	11770
36	Muzret (B-10) Colony Drain	16470
37	Masina Colony Hala	6170
38	Gulshan-e-Iqbal Sec. 13-D Drain	5898
39	Purabad Drain	15580
40	Hizwah-e-Calvary Main (Joins 6A)	11708
41	Zaundin Hospital Drain R.R. 2	850
42	Karimabad Drain	
43	Water Pump Drain	
44	KIPK Chowring Drain	
45	Mansoor Colony Drain	
46	Sungai Hala	

REFERENCES

To effluent disposal area near Port Qasim

EXPLANATION	PROPOSED
Main Nxtural Naal	Interceptors/box trunk
Branch Naal	Sewage treatment plant
Drain	Inlets chambers
Drain/Naal's Number	
Interceptors/box trunk	
Sewage treatment plant	

KARACHI DISTRICT PROPOSED S-III COMPONENTS

- Legend**
- PROPOSED TREATMENT PLANT
 - EXISTING TREATMENT PLANT
 - PRE TREATMENT FACILITY
 - SEWAGE PUMPING STATION
 - PROPOSED LYARI INTERCEPTOR (7.5KM)
 - LYARI INTERCEPTOR (11.2KM)
 - PRIMARY RIVERS (LYARI & MALIR)
 - SECONDARY NULLAH
 - TERTIARY (NULLAH & DRAINS)

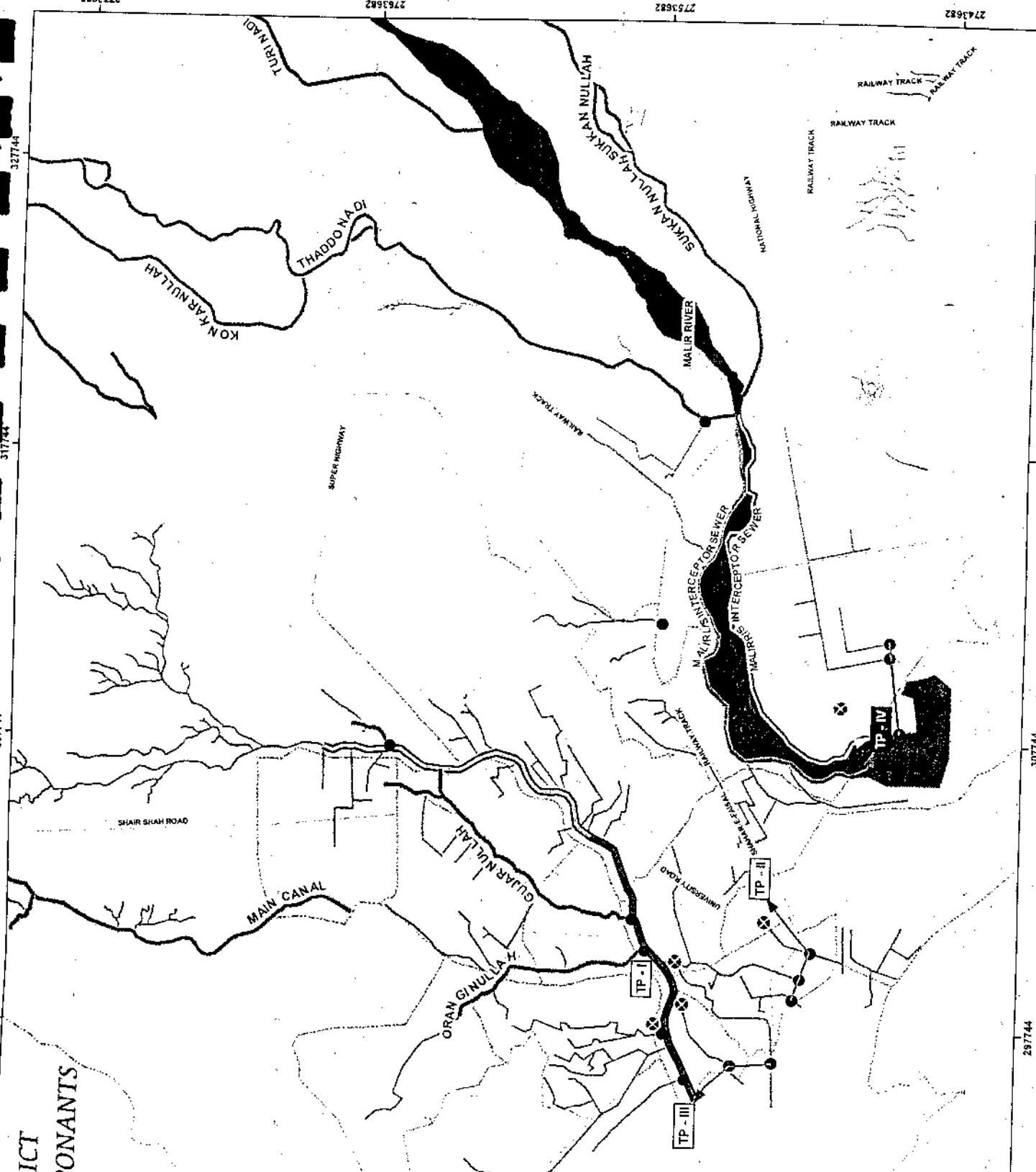


FIGURE - 5

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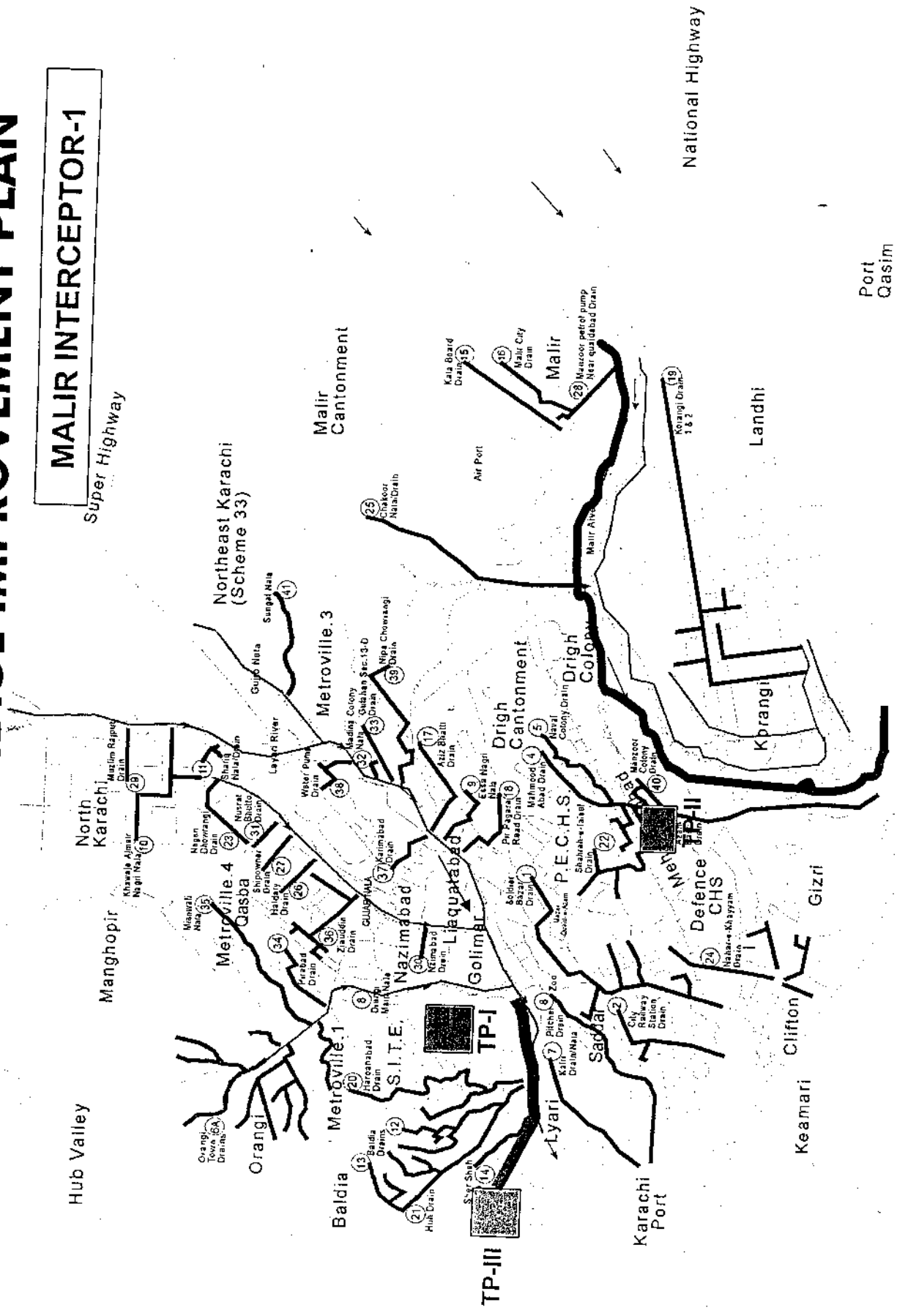
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PROPOSED SEWERAGE IMPROVEMENT PLAN

MALIR INTERCEPTOR-1

Super Highway

National Highway



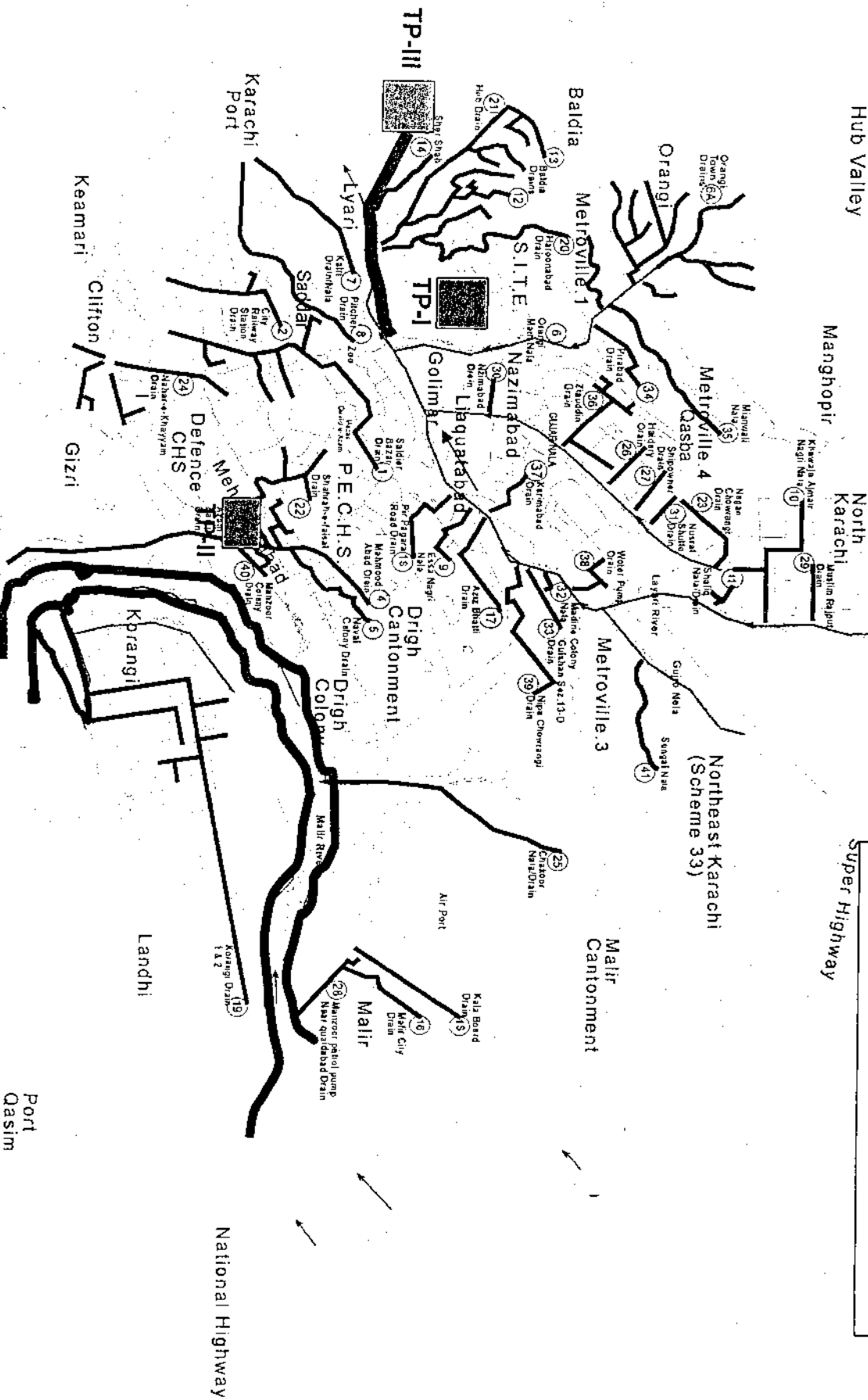
Port Qasim

Arabian Sea



PROPOSED SEWERAGE IMPROVEMENT PLAN

MALIR INTERCEPTOR-2



Arabian Sea

Port Qasim

National Highway

Super Highway

Northeast Karachi (Scheme 33)

Malir Cantonment

Metroville 3

Baldia

Metroville 1

S.I.T.E.

Nazimabad

Drigh Cantonment

Malir

Landhi

Keamari

Clifton

Gizri

Kbrangi

Port Qasim

Hub Valley

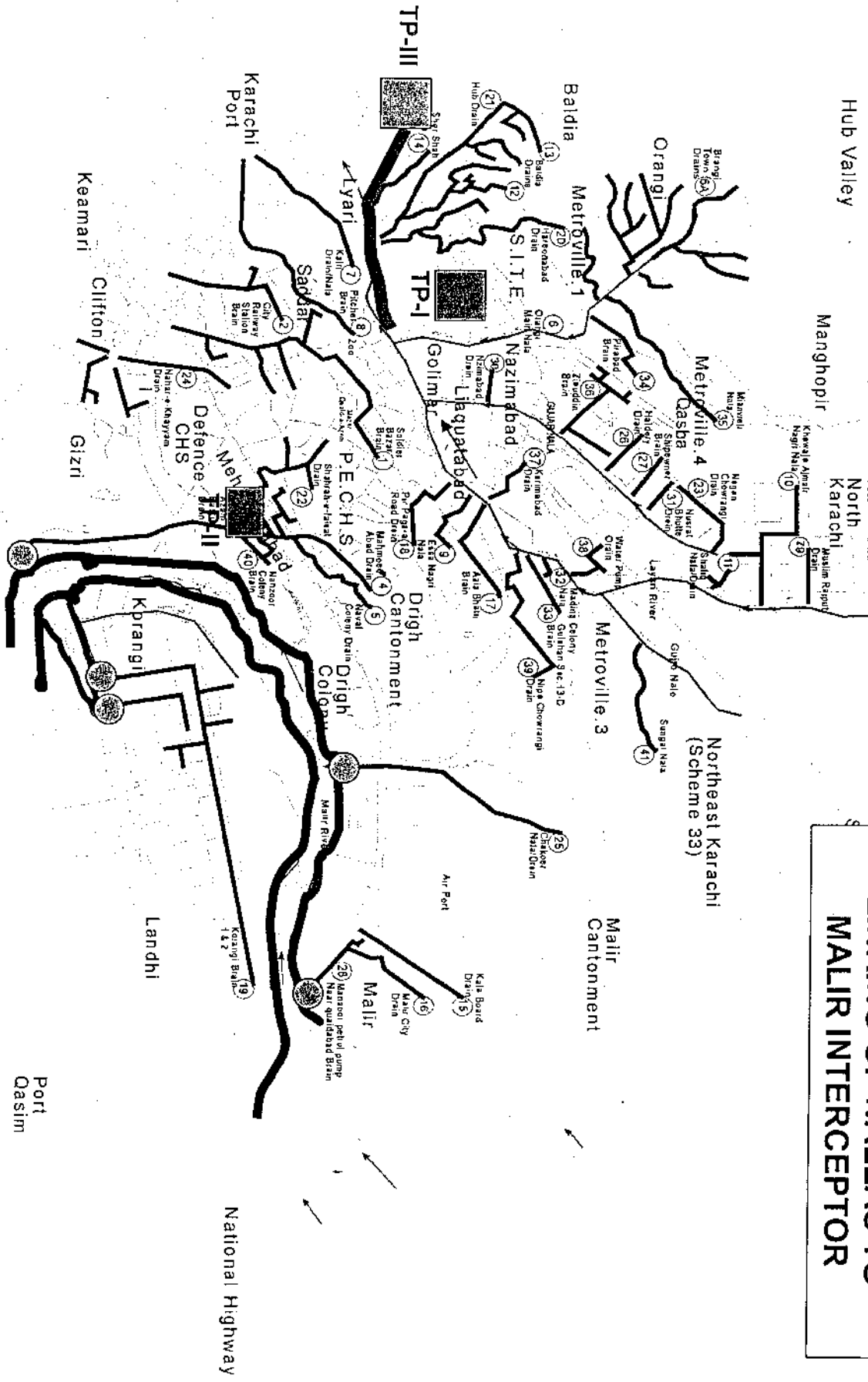
Manghopir

North Karachi

National Highway

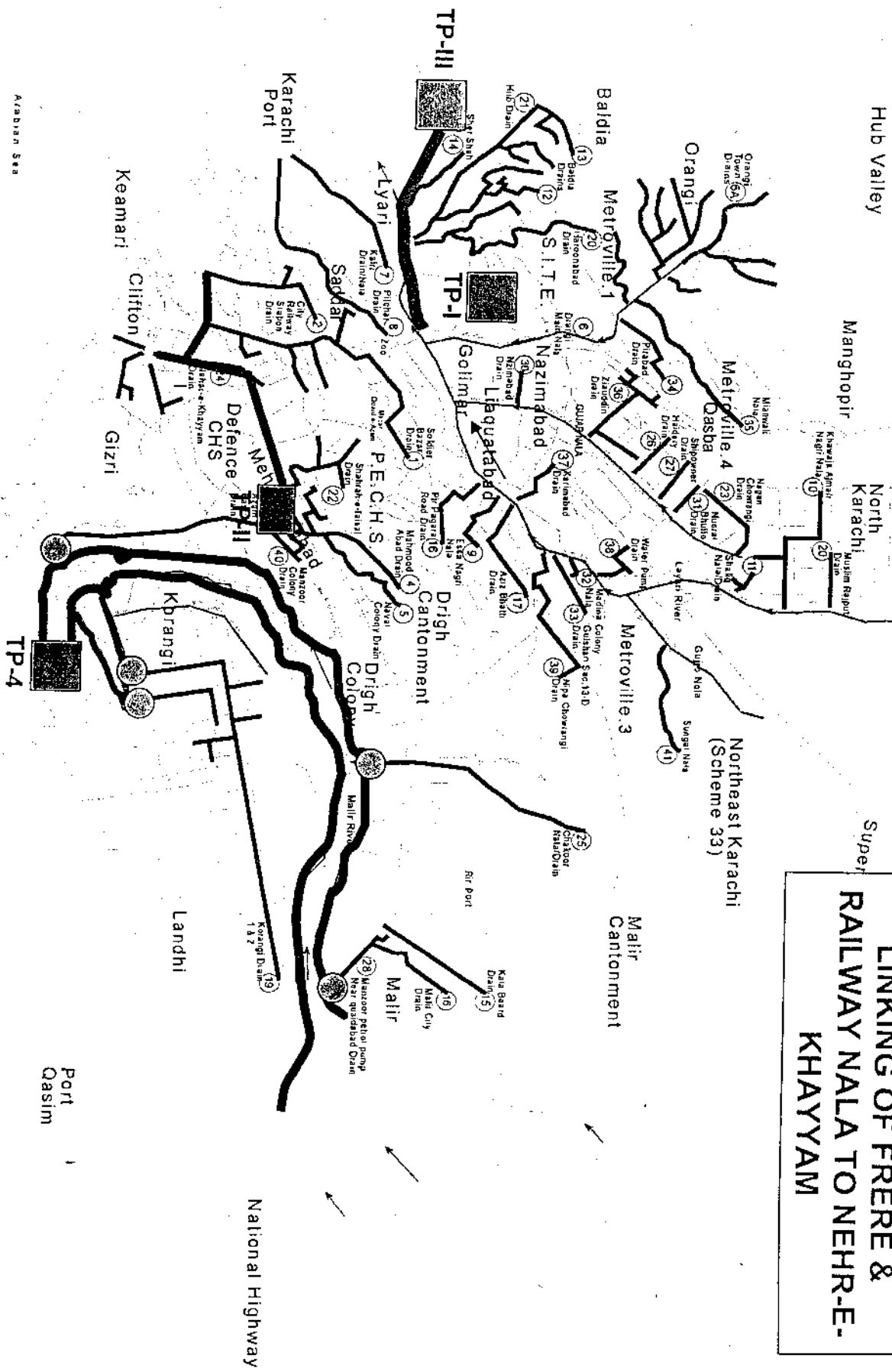
PROPOSED SEWERAGE IMPROVEMENT PLAN

LINKING OF NALLAS TO MALIR INTERCEPTOR



PROPOSED SEWERAGE IMPROVEMENT PLAN

LINKING OF FRERE &
RAILWAY NALA TO NEHR-E-
KHAYYAM



Arabian Sea

Port Qasim

National Highway

Northeast Karachi
(Scheme 33)

Super

Malir Cantonment

Landhi

Keamari

Clifton

Gizri

Port Qasim

Khrangi

Defence CHS

TP-II

TP-4

TP-III

TP-I

Karachi Port

Hub Valley

Manghopir

North Karachi

Malir Cantonment

Malir Cantonment

Malir Cantonment

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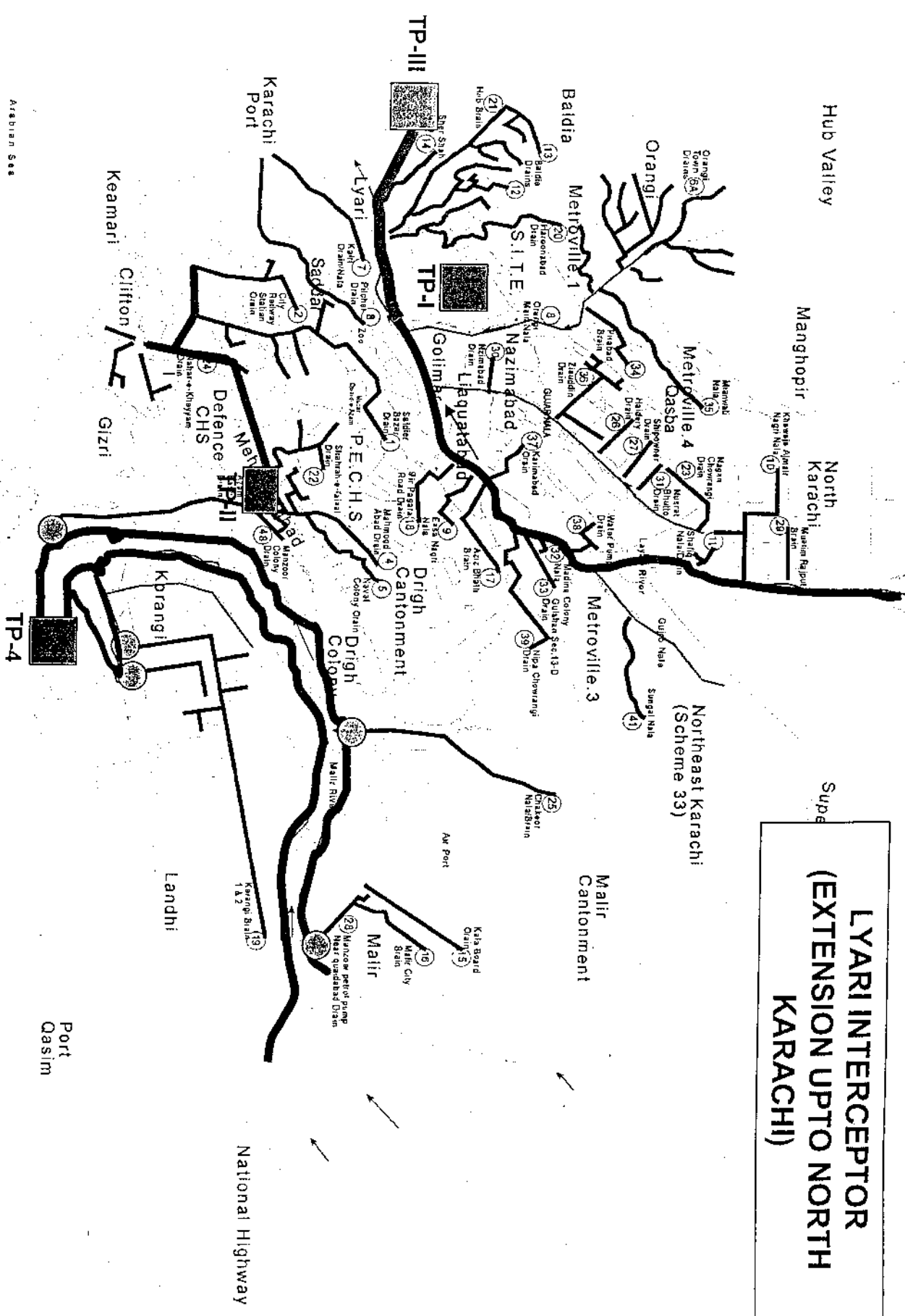
Malir Cantonment

Malir Cantonment

Malir Cantonment

PROPOSED SEWERAGE IMPROVEMENT PLAN

**LYARI INTERCEPTOR
(EXTENSION UPTO NORTH
KARACHI)**



Arabian Sea

Port Qasim

National Highway

Northeast Karachi
(Scheme 33)

Supd

Malir Cantonment

Malir

Landhi

Keamari

Clifton

Gizri

Kprangi

Defence

CHS

Port Qasim

Lyari

Karachi Port

TP-III

TP-I

TP-II

TP-4

TP-I

TP-II

TP-III

TP-4

TP-I

TP-II

TP-III

TP-4

TP-I

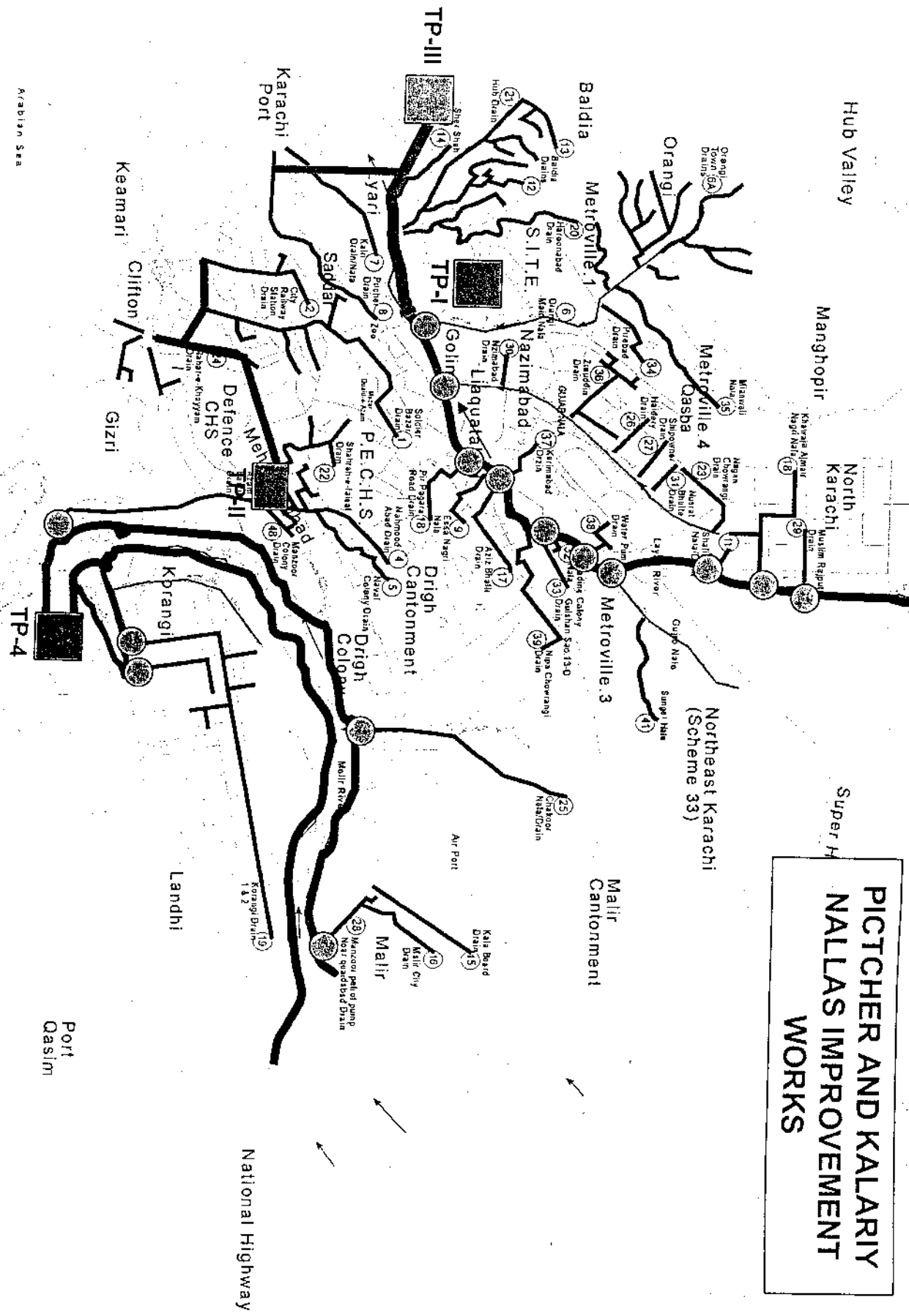
TP-II

TP-III

TP-4

PROPOSED SEWERAGE IMPROVEMENT PLAN

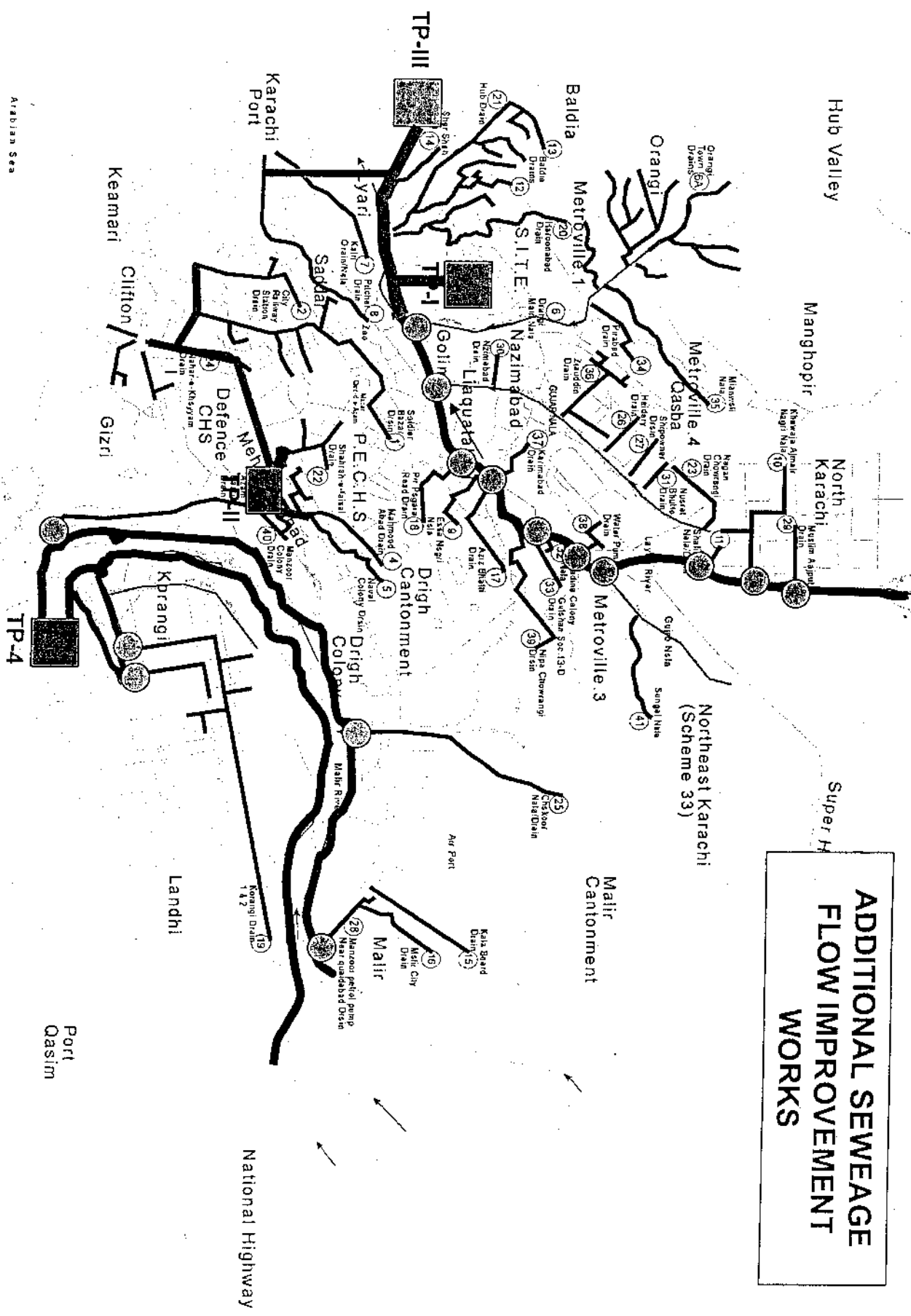
PITCHER AND KALARIY
NALLAS IMPROVEMENT
WORKS



Scale 1:82

PROPOSED SEWERAGE IMPROVEMENT PLAN

**ADDITIONAL SEWERAGE
FLOW IMPROVEMENT
WORKS**



Arabian Sea

National Highway

Port Qasim

- i) All remaining nallahs to be provided interceptors and connected to Malir / Lyari interceptors for separating storm sewer.
- ii) Construction of more Treatment Plants.

B) Phase-II Components

- i) Enhancement of capacities of TP-I, II & III making a total ultimate treatment capacity of $150+150 = 300$ mgd.
- ii) Improvement works for enhancing inflows at TP-I, II & III.

c) Improvement of Existing Works

- i) Extension of Lyari River Interceptor upto North Karachi / Surjani Town.
- ii) Following nallahs to be connected to Lyari Interceptor through intake chambers:
 - * Sher Shah Nallah
 - * Gujro Nallah
 - * Orangi Nallah
- iii) In addition to engineering aspects the project will aim to assess:
 - * Capacities of Lyari Interceptor to carry additional loads from North Karachi and Surjani Towns.
 - * Scope of treatment of drains in Phase - I and Phase-II.
 - * Scope of utilization of North Karachi Sewerage Treatment Plant.
 - * Introduction of Pre-treatment measures such as basic treatment, screening systems etc.

b) Lyari Basin

- iv) Manzoor Colony drain to be connected to Malir Interceptor through Intake Chamber.
- v) Diversion of following Nallahs through intake chambers to Clifton Pumping Station and then to TP-II (Mehmoodabad).
 - * City railway (Ranchore line)
 - * Soldier Bazar nallah
- vi) Construction of Treatment Plan (TP-IV) Korangi.
- vii) In addition to engineering aspects, project will also examine the following aspects:
 - * Review of existing network and conveyance system for measures to enhance flows to Sewage Treatment Plants (STP's) from 90 mgd to 151 mgd.
 - * The Environmental Protection Act 1997 and primary treatment in industries.
 - * Proposals and options for Combined Effluent Treatment Plants (CETP) together with domestic sewage for dilution.

Sewerage system directly influences environmental conditions in any city and consequently the health and hygienic conditions of the residents who are exposed to their surrounding.

a) Sewerage Quality

Technical Parameters

- All drains, nallahs and rives carrying sewage to be directed towards treatment plants before being discharged into the sea.
- Separation of the drainage and sewerage systems, considering ground realities and accumulated backlog; as total separation of the drainage and sewers are practically difficult.
- Improvement of the sewerage system to protect eco-system, marine life and to prevent health hazards.

It is high time that sewerage sector be given high priority at par with the water supply for environmental protection. The proposed scheme includes:

- Lyan river
- Malir river
- Nehr-e-Khayyam
- Fere nallah
- Pitcher nallah
- Kalong nallah
- Railway nallah

Presently, Karachi Sewage is going into sea, partially untreated, through the following outfalls/nallas (natural drains), rivers (see Figure 6):

It is essential to start S-III to protect environment, maintain ecological balance and save the citizens of Karachi from health hazards as 2nd 100 MGD K-III project has become operational and study for K-IV already initiated. Quantity of sewage generation would increase with expansion of bulk water supply and is estimated to be 70% of the water supply. K-III project alone is expected to contribute about 60 mgd in the sewage generated. There exists a dire need to make up for time lost for introduction of the S-III project as it was initially planned to be realized in tandem with the implementation of the K-III project.

S-III is planned to address the critical and deteriorating environmental condition of the city, its beaches and hygienic conditions. Present sewerage treatment capacity is stagnant at 151 MGD since 1998 and thus enormous backlog has accumulated over years for want of expansion of the sewerage system. The backlog has resulted in the metropolitan beaches converted into cess pools.

Project Justification

KARACHI DISTRICT
DRAINS DISCHARGING INTO SEA



FIGURE - 6

Presently KW&SB is complying with the National Environmental Quality [NEQ] standards at TP-3 providing BOD at 80 mg/l and SS of 150 mg/l. For TP-1 and TP-2 the effluent reaches BOD of 120 mg/l and SS of 200 mg/l which is close to NEQ requirements.

There are a large number of Katchi Abadis in the metropolitan where more than 30% of its population reside. The population of city for which the system was originally designed has exceeded the design capacity. Consequently the sewerage network is overloaded and is rendered undersized in a number of areas. These Katchi Abadis are located on the banks of rivers/nullahs. There is a dire need of regulating these discharges for example by provision of an adequately design and network integrated interceptor drain in such areas.

For areas of Karachi such as Cantonment boards, Societies and other un-served areas, little if any O&M takes place for the existing sewerage system network. Mostly internal system is maintained by local setup and only part use of KW&SB trunk sewers are made. Their system should ideally be linked to KW&SB trunks sewers and interceptors.

In most of the areas in the city the system is more than 30 to 35 years old and has over lived designed life which is 25 to 30 years. Due to decay, erosion, deterioration and corrosion in the system, the pipes and manholes suddenly collapse and sewer sink down occasionally causing overflows in upstream areas besides posing danger for public due to sudden collapse.

The above conditions of existing network merits review and possible introduction of new and innovative concepts such as trenchless technology and utility tunnels, atleast for the new areas.

Quality of the sewage is depicted by the samples taken and analyzed through Lyan and Malir river Pollution Study of 1994 (see Appendix-5).

The break up of sewage generated and treated in the city is:

- Sewage generated 435 mgd
- Sewage treatment capacity 151 mgd
- Sewage treated actually 90 mgd
- Sewage bypassing system 345 mgd
- Shortfall in treatment cap. 284 mgd

It is proposed to convey and treat the domestic and industrial sewage separately. The system will be designed in such a way that keeps the storm water out of the system through gated structures.

During storm the conveyance system will be bypassed and the combined flow of storm and sewage, substantially diluted, will directly go to the sea. In an arid area like Karachi where the rainfall occurrences are very erratic and occasional, the affect of it on the sea would be considerably reduced.

b) Quantity

Due to urgent problems in water supply the sewerage sector could only be allocated limited resources in the past which do not commensurate with demand of this sector. As a result enormous backlog has accumulated over the period.

In the absence of an adequate system capacity, part of the sewage flows through Malir and Lyari rivers and other nullahs and drains. This practice should preferably stop and sufficient resources be allocated to separate the domestic, industrial and storm water disposal.

About 70% of the water supplied to the city returns as sewage. A total quantity of 435 mgd of domestic and toxic industrial wastewater is generated at present. There are 3 sewage treatment plants in Karachi. The total designed capacity of these 3 treatment plants is 151 mgd but currently only 90 mgd is being treated due to reduced capacity. The untreated sewage is disposed off in the sea through 7 nullahs including Lyari and Malir rivers.

Estimates of the expected effluent from domestic sewage and the preliminary design of the conduit sections is provided in Appendix-6.

K-III bulk water supply system is near commissioning which is going to add 100 mgd to the present system. This would further add about 70 mgd into the sewage and wastewater disposal system thus overloading it. S-III project is conceived to cater for this shortfall under this scheme.

c) Design Parameters

Following design parameters shall be used:

- Environment Protection Agency [EPA]
- Water Works Design American Water Works Association [AWWA]
- Quality Control National Environmental Quality Standards [NEQS]
- Structural Design American Concrete Institute [ACI]
- Materials & Testing American Standards for Testing & Materials [ASTM]

K-III bulk water supply system is commissioned recently which has added 100 mgd to the present system. This added about 70 mgd into the sewage and wastewater disposal system thus overhauling it. S-III project is conceived to cater for this shortfall under this scheme.

About 70% of the water supplied to the city returns as sewage. A total quantity of 435 mgd of domestic and toxic industrial wastewater is generated at present. There are 3 sewage treatment plants in Karachi. The total designed capacity of these 3 treatment plants is 151 mgd. The untreated sewage is disposed off in the sea through 7 nullahs including Lyari and Malir rivers.

S-III is planned to address the critical and deteriorating environmental condition of the city, its beaches and hygienic conditions. Present sewage treatment capacity (design) is stagnant at 151 MGD since 1998 with actual treatment of only 90 MGD and thus enormous backlog has accumulated over years for want of expansion of the sewerage system.

- For waste water/sewerage, provide present and future disposal requirements, gaps if any and proposed treatment methods and capacity:

- Present and projected population and water availability/demand. N.A.
- Indicate source and water availability (mgd) during next 5,10,20 years. N.A.

- Present and projected population and water availability/demand. N.A.

Water supply & sewerage

Overall responsibility of collection, treatment and disposal of sewage in Karachi metropolitan area vests in KW&SB. The Sewerage Wing of KW&SB provides following services:

- Collection, treatment and disposal of sewage from areas under KW&SB jurisdiction.
- Operation and maintenance of the existing sewerage system.
- Prepare plans for system optimization and expansion.
- Coordination with various organizations operating in Karachi and providing sewerage services.

There seems to be no governance issue on the project as the main responsibility of the sewerage planning, implementation and maintenance are vested to KW&SB.

Governance Issues

Estimated time for detailed design of the project is 9 months with 3 months overlap with the tendering, evaluation and physical construction in phases. Construction period is estimated to be 48 months.

Capital cost of the project comes to Rs: 7.982 Billion which is distributed in the 4 years of the design and construction plan. Break up of the Capital Cost is given in Appendix-7.

Cost estimate is based on current market prices and prevailing market rates as of May 2006.

Capital cost estimates

7.

The project is not part of any Master Plan however it will become part of future Master Plan. Several planning studies are underway with foreign grants.

Type of treatment envisaged is essentially conventional treatment consisting of process which employ activated sludge or forms of biological filtration. However treatment in ponds and sea disposal will also be considered depending upon projected loads and environmental requirements.

Existing:	435 mgd
▪ Sewage generated (including additional 60 mgd)	
▪ Sewage due to K-III project)	151 mgd
▪ Sewage treated actually	90 mgd
▪ Sewage bypassing system	345 mgd
▪ Shortfall in treatment cap.	284 mgd
Proposed:	
▪ With S-III Project (Phase-I)	
▪ Sewage generated	435 mgd
▪ Upgradation of existing sewage treatment plant:	
▪ (Existing 150 mgd enhanced to 300 mgd)	300 mgd
▪ New TP-IV	200 mgd

Treatment capacity of existing plants is given as follows:

With the induction of 100MGD of the bulk water supply to Karachi through K-III project the total present supply to Karachi would approach 580 MGD considering 100 MGD from Hub. The primary source of the bulk water supply is from river Indus through Kinjhar lake. This would be serving the 11 million estimated current population at a little more than 52 gallons per capita per day.

Approximately 70% of the water supplied to the city returns as sewage. A total quantity of about 435 mgd of domestic and toxic industrial wastewater is generated at present. There are 3 sewage treatment plants in Karachi. The total designed capacity of these 3 treatment plants was 151 mgd but they currently treat only 90 mgd. The untreated sewage is disposed off in the sea through 7 nullahs including Lyari and Malir rivers (see Figure 6).

K-III bulk water supply system has become operational which has added 100 mgd to the present system. This has further add about 70 mgd into the sewage

9. Demand supply analysis (excluding science & technology, research, governance & culture, sports & tourism sectors)

Annual Operating and Maintenance [O&M] cost is estimated to be 5% of the capital cost of the project which comes to Rs: 399 million/year.

8. Annual operating cost

S.NO	DESCRIPTION	AMOUNT					TOTAL
		(Rs. in Mill.)	1 st YEAR	2 nd YEAR	3 rd YEAR	4 th YEAR	
A	MALIR TRUNK SEWER 1 (LS)	1,064	150	314	200	200	
B	MALIR TRUNK SEWER 2 (RS)	1,217	158	264	265	265	
C	LYARI TRUNK SEWER REMAINING	921	121	266	267	267	
D	LINKING OF NULLAHS TO LYARI & MALIR TRUNK SEWER	172	72	100	-	-	
E	NEHAR-E-KHAYYAM RAILWAY NULLAH & FREER NULLAH IMPROVEMENT WORKS	90	35	55	-	-	
F	PITCHER AND KALRI NULLAH IMPROVEMENT WORKS	72	30	42	-	-	
G	IMPROVEMENT WORKS FOR ENHANCING INFLOWS AT TP-I, II & III	450	100	175	175	-	
H	ENHANCEMENT OF CAPACITIES OF EXISTING TP-I, II & III BY ADDITIONAL 150 MGD	1,350	150	300	300	300	
I	TREATMENT PLANT TP-IV (200 MGD CAPACITY)	1,920	270	412	413	413	
	TOTAL	7,257	1,086	1,928	1,620	1,445	1,178

Phase-I cost distribution estimate is tabulated below:

and wastewater disposal system thus overhauling it. S-III project is conceived to cater for this shortfall under this scheme.

The proposed project [S-III] is planned to channelize the domestic sewage through collectors and interceptors towards the treatment plants before being discharged into the sea - thus cleaning the beaches and sea front of Karachi metropolis.

In most of the areas in the city the system is more than 30 to 35 years old and has over lived designed life which is 25 to 30 years.

City sewage generation and treatment capacity balance is as follows:

Existing:	435 mgd
▪ Sewage generated (including additional 60 mgd)	
▪ Sewage due to K-III project	151 mgd
▪ Sewage treated actually	90 mgd
▪ Sewage bypassing system	345 mgd
▪ Shortfall in treatment cap.	284 mgd
Proposed:	
▪ With S-III Project (Phase-I)	435 mgd
▪ Sewage generated	
▪ Upgradation of existing sewage treatment plant:	300 mgd
▪ (Existing 150 mgd enhanced to 300 mgd)	
▪ New TP-IV	200 mgd

10. Financial plan

Sources of financing

(a) Equity:

Not Applicable

b) Debt

Not Applicable

c) Grants along with sources

Government of Pakistan Funded, 100%

11. (a) Project benefits and analysis

i) Financial

It is a public service social development project, which directly or indirectly influence the living and health of the city population. The project is planned to be implemented by the KW&SB which is a non-profit organization and thus there is no financial profitability considered.

ii) Social benefits with indicators

There is no simple way of identifying the tangible benefits expected from this project. However, there are numerous intangible benefits in economic terms that include:

- Direct and indirect employment opportunities.
- Improving the image of Karachi as eco-conscious city.
- Industries will benefit as it will help them to comply with International Standards.
- Clean coast and beaches of Karachi.
- Increase in tourism.
- Better environmental conditions.
- Health and hygiene conditions improvement.
- Improved fishery catch in quantity and quality and export opportunities.
- Environmental mitigation cost savings.
- Conservation of eco-system and its balance.
- Improved aesthetics of the city beaches.

Improved health and hygiene conditions would be the major social benefiting factor for the metropolitan dwellers.

Better health would boost the public moral and affect their psychology resulting in improved traffic driving behaviour and their attitude and reactions towards daily problems.

This would improve the civic sense of the city population thereby improving their tolerance towards others – a much needed aspects which is constantly deteriorating under present health and hygiene conditions.

iv) Employment generation (direct and indirect)

There would be both, direct and indirect employment generation through the S-III project. Additional technical, administrative and support staff would be needed within the department for the operation and maintenance of the new systems. With the development activities of construction of the project elements, indirect employment would be generated through private consultants and contractors. (details are enclosed as Appendix-8).

v) Environmental impact

There is no adverse environmental impact expected to occur resulting from this project.

On the other hand, the project would improve the overall environmental conditions of the city especially improving the metropolitan beaches which, at present, are converting into cess pools. Additionally, the local industries would also benefit from this environmental improvement by complying WTO, EPA, ISO, EU and USA standards.

Adverse environmental situation is clearly depicted by the sample photographs (see Appendix-9) taken of the Lyari and Malir rivers and their tributaries which are presently being used to dump mostly the untreated sewage and industrial effluent

vi) Impact of delays on project cost and viability

As is true for all projects, delays would cause the estimated price to increase. With the current rate of escalation summing day by day, it is most feasible to complete the planning, designing and construction of this much needed project as soon as possible to contain the development cost.

12. Implementation of the project

S-III project implementation schedule is planned for 4 years. Cost distribution year wise is provided in Table 12-1.

13. Management structure and manpower requirements

The client [KW&SB] will supervise the project. Specialized skills shall be provided through foreign / local consultants (JV) & local / international contractors.

14. Additional projects/decisions required

Immediate action is required to improve the quality of life for the largest metropolis of Pakistan and safeguard its beaches and marine eco-system. A quick decision would save the total project cost by eliminating or reducing the escalation factor.

15. Certificate

It is certified that the project proposal has been prepared on the basis of instructions provided by the Planning Commission for the preparation of PC-I for Social sector projects.

TABLE 12-1
COSTS & PHASING

S.NO	DESCRIPTION	AMOUNT (Rs. IN MILL.)	COST PHASING				Rs. In Million
			1ST YEAR	2ND YEAR	3RD YEAR	4TH YEAR	
A	MALIR TRUNK SEWER 1 (L/S)	1,064	150	314	300	300	
B	MALIR TRUNK SEWER 2 (R/S)	1,217	158	353	353	353	
C	LYARI TRUNK SEWER REMAINING	921	121	400	400		
D	LINKING OF NULLAHS TO LYARI & MALIR TRUNK SEWER	172	72	100			
E	NEHAR-E-KHAYYAM IMPROVEMENT WORKS	90	35	55			
F	PITCHER AND KALRI NULLAHS IMPROVEMENT WORKS	72	30	42			
G	IMPROVEMENT WORKS FOR ENHANCING INFLOWS AT TP-1, II & III	450	100	175	175		
H	ENHANCEMENT OF CAPACITIES OF EXISTING TP-1, II & III BY ADDITIONAL 150 MGD	1,350	150	400	400	400	
I	TREATMENT PLANT TP-4 (200 MGD CAPACITY)	1,920	270	550	550	550	
	TOTAL	7,257	1,086	2,389	2,178	1,603	
	ADD 5% FOR PHYSICAL CONTINGENCIES	363					
	ADD 5% FOR CONSULTANCY SERVICES	363					
	GRAND TOTAL	7,982					

986, 253, 614

SINDH PUBLIC PROCUREMENT REGULATORY AUTHORITY CONTRACT EVALUATION FORM

TO BE FILLED IN BY ALL PROCURING AGENCIES FOR PUBLIC CONTRACTS OF
WORKS, SERVICES & GOODS WORTH 50 MILLION (PKR) OR ABOVE

- 1) NAME OF THE ORGANIZATION / DEPTT. : KARACHI WATER & SEWERAGE BOARD
- 2) PROVINCIAL / LOCAL GOVT./ OTHER : LOCAL GOVERNMENT
- 3) TITLE OF CONTRACT : Work Contract STP- III
- 4) TENDER NUMBER : Serial No. 18487
- 5) BRIEF DESCRIPTION OF CONTRACT : Up-Gradation and Expansion of Treatment Plant
STP - III, At Mauripur, Karachi
- 6) FORUM THAT APPROVED THE SCHEME : ECNEC
- 7) TENDER ESTIMATED VALUE : Rs. 6911183308
- 8) ENGINEER'S ESTIMATE : Rs. 6911183308
- 9) ESTIMATED COMPLETION PERIOD (AS PER CONTRACT) : 730 days
- 10) TENDER OPENED ON (DATE & TIME) : 05.05.2014 (2.30 p.m.)
- 11) NUMBER OF TENDER DOCUMENTS SOLD : 08 Nos. (Eight)
(Attach list of buyers)
- 12) NUMBER OF BIDS RECEIVED : 01 No. (One)
- 13) NUMBER OF BIDDERS PRESENT AT THE TIME OF
OPENING OF BIDS : 01 No. (One)
- 14) BID EVALUATION REPORT : Attached
- 15) NAME AND ADDRESS OF THE SUCCESSFUL BIDDER: M/s. Pak Oasis Industries (Pvt) Ltd.
- 16) CONTRACT AWARD PRICE : Rs.7,897,436,925
- 17) RANKING OF SUCCESSFUL BIDDER IN EVALUATION REPORT
(i.e. 1st, 2nd, 3rd EVALUATION BID). : 1. M/s. Pak Oasis Industries (Pvt) Ltd.
- 18) METHOD OF PROCUREMENT USED : - (Tick one)
 - e) SINGLE STAGE – ONE ENVELOPE PROCEDURE _____
 - f) SINGLE STAGE –TWO ENVELOPE PROCEDURE ✓
 - g) TWO STAGE BIDDING PROCEDURE _____
 - h) TWO STAGE –TWO ENVELOPE BIDDING PROCEDURE _____

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

- 19) APPROVING AUTHORITY FOR AWARD OF CONTRACT : PROJECT DIRECTOR

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

Yes	✓	No	
-----	---	----	--
- 21) ADVERTISEMENT :
- (i) SPPRA Website (If yes, give date and SPPRA Identification No.

Yes	SR.No. 18487
No	
- (ii) News Papers (If yes, give names of newspapers and dates)

Yes	Daily Jang	02.1.2014
	Daily Dawn	01.1.2014
	News Intl.	02.1.2014
	Khaleej Time	19.3.2014
- 22) NATURE OF CONTRACT **Works**
- 23) WHETHER QUALIFICATION CRITERIA WAS INCLUDED IN BIDDING / TENDER DOCUMENTS? (If yes, enclose a copy)

Yes		No	✓
-----	--	----	---
- 24) WHETHER BID EVALUATION CRITERIA WAS INCLUDED IN BIDDING / TENDER DOCUMENTS? (If yes, enclose a copy)

Yes	✓	No	
-----	---	----	--
- 25) WHETHER APPROVAL OF COMPETENT AUTHORITY WAS OBTAINED FOR USING A METHOD OTHER THAN OPEN COMPETITIVE BIDDING?

Yes		No	
-----	--	----	--
- 26) WAS BID SECURITY OBTAINED FROM ALL THE BIDDERS?

Yes	✓	No	
-----	---	----	--
- 27) WHETHER THE SUCCESSFUL BID WAS LOWEST EVALUATED BID / BEST EVALUATED BID (in case of Consultancies)

Yes	✓	No	
-----	---	----	--
- 28) WHETHER THE SUCCESSFUL BIDDER WAS TECHNICALLY COMPLIANT?

Yes	✓	No	
-----	---	----	--
- 29) WHETHER NAMES OF THE BIDDERS AND THEIR QUOTED PRICES WERE READ OUT AT THE TIME OF OPENING OF BIDS?

Yes	✓	No	
-----	---	----	--
- 30) WHETHER EVALUATION REPORT GIVEN TO BIDDERS BEFORE THE AWARD OF CONTRACT? (Attach copy of the bid evaluation report)

Yes	✓	No	
-----	---	----	--
- 31) ANY COMPLAINTS RECEIVED (If yes, result thereof)

Yes		No	✓
-----	--	----	---
- 32) ANY DEVIATION FROM SPECIFICATIONS GIVEN IN THE TENDER NOTICE / DOCUMENTS (If yes, give details)

Yes	✓	No	
-----	---	----	--
- 33) WAS THE EXTENSION MADE IN RESPONSE TIME? (If yes, give reasons)

Yes	✓	No	
-----	---	----	--
- 34) DEVIATION FROM QUALIFICATION CRITERIA (If yes, give detailed reasons.)

Yes		No	
-----	--	----	--
- 35) WAS IT ASSURED BY THE PROCURING AGENCY THAT THE SELECTED FIRM IS NOT BLACK LISTED?

Yes	✓	No	
-----	---	----	--

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 OF VISIT, IF ABROAD
(If yes, enclose a copy)

Yes		No	/
-----	--	----	---

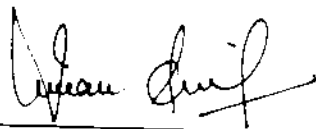
37) WERE PROPER SAFEGUARDS PROVIDED ON MOBILIZATION
ADVANCE PAYMENT IN THE CONTRACT (BANK
GUARANTEE ETC.)?

Yes	/	No	
-----	---	----	--

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

Yes		No	/
-----	--	----	---

Signature & Official Stamp of
Authorized Officer



FOR OFFICE USE ONLY

SFPRA, Block. No.8, Sindh Secretariat No.4-A, Court Road, Karachi
Tele: 021-9205356; 021-9205369 & Fax: 021-9206291

NOTE SHEET

(1)

Reference

Subject APPROVAL OF BID EVALUATION REPORT (FINANCE).

Contract Package TP-III "Up-Gradation and Expansion of Treatment Plant TP-III, at Mauripur, Karachi, under S-III Project"

KW&SB invited tenders from the Contractors having PEC registration in CA or CB Category with relevant specialization (CE -09, CE-10, ME-06, EE-04 & EE-05) for the proposed subject work, on 02.01.2014 (Annex-1). Ten contractors firms having registration in required category and specialization with PEC, purchased the bid documents.

A tender Procurement Committee comprising of Nine Members headed by Chief Engineer (West) KW&SB (Annex-2) was constituted and assigned tasks by the Competent Authority of KW&SB, in the guidelines of Clause-7 & 8 of SPPRA Rules 2010.

The Procurement Committee opened and announced the financial proposal at Stage-II on the specified date, time and venue i.e. 1500 hours on 26.05.2014 at Committee Room, M.D. Secretariat, Block-D, 9th Mile Karsaz KW&SB Office, Shahrah-e-Faisal, Karachi, prior to it technically proposal opened on 05.05.2014 in accordance to the criteria set for responsiveness of firm and only one firm submitted the bid documents.

The only Contractor Firm (M/s. PAK OASIS INDUSTRIES (PVT) LIMITED) submitted bidding documents and found responsive technically to qualify for stage-II i.e. opening of financial proposal for Contract Package of STP-III.

The announced Bid Price and the corrected bid price of the bidder is as under:

Name of Bidder	Announced Bid Price in Rupees	Corrected Bid Price (Rs)	Rank
M/s. Pak Oasis Industries (Pvt) Ltd	7,898,719,121	7,897,436,924	1st lowest

The Procurement Committee carried out thorough evaluation of the bids in accordance with the standard guidelines for the evaluation of bids laid down by SPPRA and also carried out the scrutiny / examination of the bids for the verification, eligibility, bid Security, Completeness and Responsiveness of bids (financial proposal).

Subsequently, the working of the Procurement Committee was compiled in shape of Bid Evaluation Report (Technical and Financial) for the subject Contract Package of S-III Project containing the preliminary as well as comprehensive evaluation of submitted responsive bidder.

The bid of M/s. Pak Oasis Industries (Pvt) Limited was examined at first for following:

- 1) Verification: Properly signed and duly filled all forms and appendices of bid.
- 2) Bid Security: Inform of Bank Guarantee amounting to Rs. 50,000,000 valid upto Oct. 05, 2014, bearing No. LG 14900100001846 dated 02.05.2014 issued by J.S Bank, Shaheen Complex Branch, Karachi.
- 3) Responsiveness: Bid confirms all terms and condition and specification of Bid Documents.

NOTE SHEET

(2)

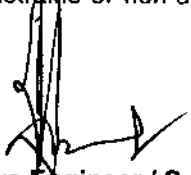
Reference

COMPARISON WITH ENGINEER'S ESTIMATE

Name of Bidder	Engineer's Estimate (Rs.)	Quoted Price (Corrected)	% Above/Below
M/s. Pak Oasis Ind.	6,911,183,308	7,898,436,924	14.27 above

The Procurement Committee having carried out the analysis, checks and pre-requisites for evaluation and in consideration of all aspects related to the tender. After due deliberation and consensus recommends that the work subject may be awarded to M/s. Pak Oasis Industries (Pvt) Ltd., being the only and lowest evaluated bidder for the offered Bid of Rs.7,897,436,924/- (Rupees Seven Thousand Eight Hundred Ninety Seven Million Four Hundred Thirty Six Thousand Nine Hundred Twenty Four only), which is 14.27 % above the engineer's estimate including provisional sums and 05% physical contingencies. Keeping in view of evaluated bid price, an undertaking is required that, the bidder possesses the adequate financial resources and should ensure that progress of work will not suffer due to financial constraints or non-availability of material, machinery and equipments.

Submit please.


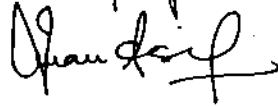

Executive Engineer / Secretary
Bid Evaluation Committee
S-III Project, KW&SB

Convener Procurement Committee

Project Director S-III Project

Approved as proposed above.

CE(S-III)



KARACHI WATER & SEWERAGE BOARD
OFFICE OF THE PROJECT DIRECTOR
(S-III Project)
Block-"D" 9th Mile Karsaz, Shahrah-e-Faisal Karachi

No. PD(S-III Project)/TP-I/KW&SB/2014/ 17
Dated 25-08-2014

M/s Pak Oasis Industries (Pvt.) Ltd

Water House
33-C, Khayaban-e-Ittehad,
Lane I, Phase-VI,
DHA – Karachi

Contract:: Contract Package TP-I: Up-gradation and Expansion of Sewage
Treatment Plant at Haroonabad SITE, Karachi

Subject: LETTER OF AWARD

Subsequent to submission of Performance Guarantee from your end upon issuance of Letter of Acceptance for bid dated **9th May 2014** for execution of the **Up-gradation and Expansion of Sewage Treatment Plant at Haroonabad SITE, Karachi**, for a corrected Contract Amount of the equivalent to **Pak Rs. 3,889,961,281/-** (Pak Rupees Three Thousand Eight Hundred Eighty Nine Million Nine Hundred Sixty One Thousand Two Hundred and Eighty One only) as corrected and modified in accordance with the Instructions to Bidders is hereby accepted for the issuance of award of works by the Project Director (S-III Project), Karachi Water and Sewerage Board.

However due to funding constraints this office please to **Award** the Stage-I of cited Contract works to M/s Pak Oasis Industries (Pvt) Ltd which includes the Up-gradation of TP-I including some civil expansion works with an overall cost of **Pak Rs. 2,487,395,425/-** (Pak Rupees Two Thousand Four Hundred Eighty Seven Million Three Hundred Ninety Five Thousand Four Hundred and Twenty Five only).

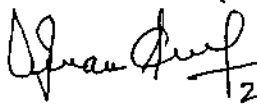


The remaining/withheld scope of work (Stage-II) amounting to Pak Rs. 1,402,565,856/- (Pak Rupees One Thousand Four Hundred Two Million, Five hundred Sixty Five Thousand Eight Hundred and Fifty Six only), shall be released for execution upon formal approval of Revised PC-I from the Competent Authority, which is currently under process.

There shall be no claim admissible for the non-availability of funds for the Stage-II of the contract works.

You are therefore, directed to furnish the Contract Agreement as per the requirement of Contract.

We look forward to working with you on this project.


Imran Asif 25/08/2014.

Project Director (S-III Project)
Karachi Water & Sewerage Board

Copy to:

1. Secretary LG. GoS
2. Managing Director. KW&SB
3. Chief Engineer (S-III Project). KW&SB
4. Chief Resident Engineer (S-III Project). TCI



KARACHI WATER & SEWERAGE BOARD
OFFICE OF THE CHIEF ENGINEER (S-III PROJECT)

Block D, 9th Mile, Karsaz, Shahr-e-Faisal, Karachi
Tel. # 0092-21-99240828 Fax # 0092-21-99240873

NOTICE INVITING TENDER

1. The Karachi Water & Sewerage Board has received funds from the Federal/Provincial Government towards cost of Greater Karachi Sewerage Plan (S-III Project) and it is intended that part of the proceeds of the funds will be applied to eligible payments under the contracts for the components of S-III Project. The Project Director, Greater Karachi Sewerage Plan (S-III), Karachi Water & Sewerage Board invites wax sealed tenders under Single-Stage - Two-Envelope bidding procedures on International Competitive Bidding (ICB) basis in accordance with SPPRA Rules 2010 (<http://www.pprasindh.gov.pk>) and Pakistan Engineering Council (PEC) (<http://www.pec.org.pk>) from competent contractors, joint-ventures or consortia for the following work:-
 - Contract Package TP-III: *Up-gradation and Expansion of Sewage Treatment Plant at Meuripur, Karachi.*
2. The work under this component involves Restoration of Existing Sewage Treatment Plants to their original capacities and further enhancement of Treatment Capacities including Commissioning. The contractor will carry out all the works as per tender designs and drawings comprising of Civil, Electrical and Mechanical / Instrumentation Components and will also be responsible for its operation and maintenance and providing necessary relevant training to the KW&SB staff, for a period not less than 12 months after commissioning.
3. The Bidding is open to:
 - Pakistani contractors registered with Pakistan Engineering Council (PEC) in CA category along with specialization in CE-09, CE-10, ME-06, EE-04 & EE-05.
 - The Joint-Venture / Consortium of Pakistani Contractors with Lead firm registered with Pakistan Engineering Council (PEC) in CA or CB Category, each firm in the Joint-Venture having registration in CA or CB Category and the Joint-Venture jointly meeting the requirement of registration with specialization in CE-09, CE-10, ME-06, EE-04 & EE-05.
 - The Joint-Ventures / Consortium of International and Pakistani Contractor(s) with at least one Pakistani Joint-Venture Partner registered with Pakistan Engineering Council in CA or CB category.
 - The Joint-Ventures / Consortium of International Contractors or Single International Applicant which has at least one Pakistani sub-contractor registered with Pakistan Engineering Council in CA or CB Category.
4. The bidders may obtain information by acquiring the Bidding Documents (BD), up to 1600 hours, Monday the 17th February 2014, from the Office of Project Director (S-III Project), Karachi Water and Sewerage Board, 1st Floor, Block-D, 9th Mile, Shahr-e-Faisal, Karachi.
5. A complete set of bidding documents may be purchased by submitting a letter of request for documents on business letterhead from the following office of KW&SB upon payment of non-refundable fee of Rs. 10,000/- or US\$ 100 per set in shape of Pay Order in favour of Karachi Water & Sewerage Board. If requested in writing with an additional payment of US\$ 100 or equivalent to local currency, the bidding documents will be promptly dispatched by registered mail or courier service, but under no circumstances, the Project Director (S-III) will be held responsible for late delivery or loss of documents so sent out.

Project Director, S-III Project
Karachi Water & Sewerage Board
1st Floor, Block-D, 9th Mile Office,
Shahr-e-Faisal, Karachi.
Tel: +92-21-99240828; Facsimile: +92-21-99240873
6. All bids (technical) must be accompanied by a bid security equivalent to Pak Rs. 50 Million in shape of call deposit, pay order, demand draft or bank guarantee issued by a Scheduled Bank in Pakistan, in favour of Karachi Water & Sewerage Board.
7. The bids must be delivered in the office of Project Director, S-III Project, KW&SB at 1st Floor, Block-D, 9th Mile Office, Shahr-e-Faisal, Karachi before 1400 hours, on Tuesday the 18th February 2014 and will be opened on the same day at 1430 hours by the high powered Bid Opening Committee appointed by KW&SB in the presence of bidders/representatives who choose to attend the opening of bids. If due to unavoidable circumstances, the bid submission is not possible on the schedule date, the submission and opening of bids will be carried out on the next working day on the schedule time and venue.
8. The pre-bid meeting shall be held at 1500 hrs on Thursday the 30th January 2014, at Committee Room of P.D. (A-III Project) Secretariat, Block-D, 9th Mile Office, Shahr-e-Faisal, Karachi.
9. The acceptance of bids shall rest with the Competent Authority of KW&SB (Project Director, S-III Project), who reserves the right to accept or reject any or all bids, as per SPPRA Rules 2010.
10. Late bids will be rejected. The bidders shall not enclose testimonials, certificates and publicity material other than those requested in the bidding documents with their bids. Such information will not be taken into account in the evaluation of bid.
11. The Notice Inviting Tender has also been posted on Sindh Public Procurement Authority (SPPRA) website (<http://www.pprasindh.gov.pk>).

The Chief Engineer, S-III Project,
Karachi Water & Sewerage Board
1st Floor, Block D 9th Mile, Shahr-e-Faisal, Karachi, Pakistan
Tel: +92 21 99240828; Facsimile: +92 21 99240873



Karachi Water & Sewerage Board

Office of the Chief Engineer (S-III Project)

Block-D, 9th Mile Karsaz, Shahr-e-Faisal, Karachi
Tel: 0092- 21 99240828 Fax: 0092-21-99240828

NOTICE INVITING TENDER

The Karachi Water & Sewerage Board has received funds from the Federal / Provincial Government towards cost of Greater Karachi Sewerage Plan (S-III Project) and it is intended that part of the proceeds of the funds will be applied to eligible payments under the contracts for the components of S-III Project. The Project Director, Greater Karachi Sewerage Plan (S-III), Karachi Water & Sewerage Board invites wax sealed tenders under Single Stage Two Envelope bidding procedures on international Competitive Bidding (ICB) basis in accordance with SPPRA Rules-2010 (<http://www.pprasinhd.gov.pk>) and Pakistan Engineering Council (PEC) (<http://www.pec.org.pk>) from competent contractors joint ventures or consortium or consortia for the following works:

- Contract Package TP-III: "Up-gradation and Expansion of Sewage Treatment Plant at Mauripur, Karachi".

The work under this component involves Restoration of Existing Sewage Treatment Plants to their original capacities and further enhancement of Treatment Capacities including Commissioning. The contractor will carry out all the works as per tender designs and drawings and also be responsible for its operation and maintenance and providing necessary relevant training to the KW&SB staff, for a period not less than 12 months after commissioning.

The Bidding is open to:

- Pakistani contractors registered with Pakistan Engineering Council (PEC) in CA category along with specialization in CE-09, CE-10, ME-06, EE-04 & EE-05.
- Joint Venture / Consortium of Pakistani contractors with Lead firm registered with Pakistan Engineering Council (PEC) in CA Category, each firm in the Joint Venture having registration in CA or CB category, and the Joint Venture jointly meeting the requirement of registration with specialization CE-09, CE-10, ME-06, EE-04 & EE-05.
- Joint Venture / Consortium of International and Pakistani Contractors(s) with at least one Pakistan Joint Venture partner registered with Pakistan Engineering Council in CA or CB category.
- Joint Venture / Consortium of International Contractors or Single International applicant which has at least one Pakistani subcontractor registered with Pakistan Council in CA or CB category.

Bidders may obtain information by acquiring the Bidding Documents (BD), from 20th March 2014 upto 16:00 hours Monday, the 4th May 2014 from the Office of the Project Director (S-III Project), Karachi Water & Sewerage Board 1st Floor, Block-D, 9th Mile Shahr-e-Faisal, Karachi.

Project Director, S-III Project
Karachi Water & Sewerage Board
1st Floor, Block-D, 9th Mile Office, Shahr-e-Faisal, Karachi
Tel: +92 21 99240828, Facsimile +92-21-99240828

A complete set of Bidding Document may be purchased by submitting a letter of request for documents on business letterhead from the following office of KW&SB upon payment of non-refundable fee of Rs.10,000/- or US\$ 100/- per set in shape of Pay Orders in favour of Karachi Water & Sewerage Board. If requested in writing with an additional payment of US \$ 100/- or equivalent local currency, the Bidding Documents will be promptly dispatched by registered mail or courier service, but under no circumstances, will the Project Director (S-III) be held responsible for late delivery or loss of documents so sent out.

All Bids (Technical) must be accompanied by a bid security equivalent to Pak Rs.50 Million, in the shape of call on deposit, pay order, demand draft or bank guarantee issued by a Schedule Bank in Pakistan, in favour of Karachi Water & Sewerage Board.

Bids must be delivered in the office of Project Director, S-III Project, KW&SB at 1st Floor, Block-D, 9th Mile Office Shahr-e-Faisal, Karachi before 14:00 hours, on Monday the 05th May, 2014 and will be opened on the same day at 14:30 hours by the high powered bid opening committee appointed by KW&SB in the presence of bidder's representatives who choose to attend the opening of Bids. If due to unavoidable circumstances, the bid submission is not possible on the scheduled date, the submission and opening of bids will be carried out on the next working day on the schedule time and venue.

Pre- Bid meeting shall be held at 14:00 Hrs. on Monday the 14th April 2014 at Committee Room of P.D (S-III Project) Secretariat, Block-D, 9th Mile office, Shahr-e-Faisal, Karachi.

The acceptance of bids shall rest with the Competent Authority of KW&SB (Project Director S-III Project), who reserves the right to accept or reject any or all bids as per SPPRA Rules.

Late Bids will be rejected; Bidders shall not enclosed testimonials, certificates and publicity material other than those requested in the Bidding Documents with their bids. Such information will not be taken into account in the evaluation of Bid.

The notice inviting tender will also be posted on Sindh Public Procurement Regulatory Authority (SPPRA) websites (<http://www.pprasinhd.gov.pk>).

Chief Engineer (S-III Project)
Karachi Water & Sewerage Board
1st Floor, Block-D, 9th Mile office,
Shahr-e-Faisal, Karachi, Pakistan
Tel: +92- 21 99240828, Facsimile: +92 21 99240828



To.

No. PD/S-III/TP-III/KW&SB/2014/ 249
Dated: February 26, 2014

GREATER KARACHI SEWERAGE PLAN (S-III)

Subject: Minutes of Pre-bid Meeting along with Annexures
Reference: Contract Package TP-III: Upgradation and Expansion of Sewage Treatment Plant at Mauripur, Karachi

Please find attached herewith replies of queries raised at pre-bid meeting of above referred contract works held in accordance with requirement of Section IB.17 of Instruction to Bidders, on 10th February 2014.

Pursuant to Clause IB – 9 of Instruction to Bidders, the following amendments are also made in the Tender Documents issued for the work cited above:

Volume-II of Bidding Documents

- 1) Substitute Appendix-C to Bid (BC-1) with Revised Appendix-C to Bid (BC-1R)
- 2) A new B II Nr.7 for Operation and Maintenance along with its preamble is added
- 3) Substitute Summary of BOQ at BOQ-Page No-1 with BOQ-Page No-1(R)

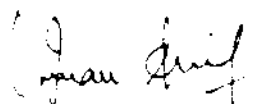
Volume-III-C Specifications (Mechanical & Geotechnical Works)

- 4) At the end of Section 20.24 "Specific Requirement of Trickling Filter Media" is added

The replies of queries at pre-bid meeting along with above stated amendments shall form an integral part of the Tender Documents and shall be signed, stamped and submitted with the Bid by the bidder.

The Bidder shall acknowledge the receipt of replies of queries at Pre-bid meeting and Amendments immediately.

Enclosed: As above


Project Director (S-III Project)
Karachi Water & Sewerage Board

Copy to:

1. Chief Engineer (S-III Project), KW&SB

MINUTES OF PRE BID MEETING

1. Contract Package TP-III: "Upgradation and Expansion of Sewage Treatment Plant at Mauripur – Karachi"

In accordance with requirement of Section IB.17 of Instruction to Bidders, Pre-Bid Meeting for above mentioned Contract Packages was convened at 1500 Hrs, on Monday 10th February 2013, at Committee Room of MD (KW&SB) Secretariat, Block – D, 9th Mile Office, Shahrah-e-Faisal, Karachi.

Representatives of following prequalified firms / consortium attended the meeting:

- i. M/s Sultan Mehmood & Co.
- ii. M/s Pak Oasis Industries (Pvt) Ltd.
- iii. M/s R.M. Gulistan Engineering & Construction
- iv. M/s NCL – PESB – CRFG (JV)

Following members of Employer & Engineer also attended the meeting:

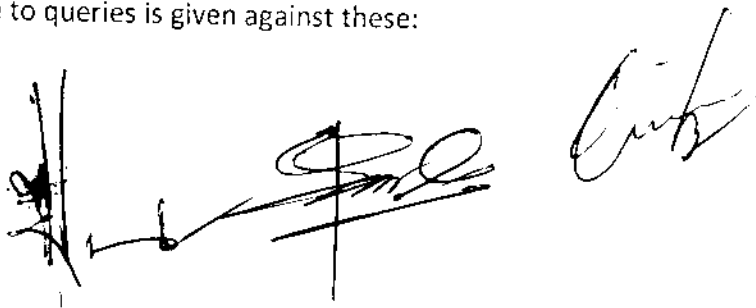
Employer (KW&SB)

- | | | | |
|-------|--------------------|--------------------------------|------------|
| i. | Mr. Imtiaz Magsi | Chief Engineer (S-III) | [In Chair] |
| ii. | Mr. Sardar Shah | Project Manager (E&M) | |
| iii. | Mr. Qaiser Ali | Superintending Engineer | |
| iv. | Mr. Ayaz Tunio | Dy. Project Manager (E&M) | |
| v. | Mr. Ganji | Dy. Project Manager (E&M) | |
| vi. | Mr. Nadeem Ahmed | Executive Engineer | |
| vii. | Mr. Mukhtar Samito | Executive Engineer / Secretary | |
| viii. | Mr. Rashid Jamal | Accounts Officer (S-III) | |

Engineer (Techno-Consult International / NEC Consultant)

- | | | |
|------|---------------------|---------------------------------|
| i. | Mr. Arshad Farooqi | Chief Resident Engineer (S-III) |
| ii. | Mr. Muhammad Rashid | Contract Engineer (S-III) |
| iii. | Mr. Nadeem Ahmed | Electrical Engineer (S-III) |
| iv. | Mr. Muhammad Ali | Manager |

Following queries were raised; the response to queries is given against these:



**Subject: Contract Package TP-III: Upgradation and Expansion of Sewage Treatment Plant
at Mauripur, Karachi**

Reply of Queries raised at Pre-Bid Meeting held on 10th February, 2014

S.No	Queries	Replies
1	Overview of Treatment Plant No.III may please be provided.	<p>The treatment system for the domestic sewage generated under the jurisdiction of Karachi Water and Sewerage Board currently consisted of two Sewage Treatment plants; TP-I Haronabad and TP-III Mauripur. The treated sewage of TP-I is discharged to Lyari River for finally gravitating to sea. TP III receives sewage mainly from the existing sewer interceptor in Lyari River and discharges into Mauripur Creek.</p> <p>Existing TP-III is situated at Maripur, Karachi (24° 51' 40" N - 66° 57' 08" E). The treatment plant was designed by Balfours Engineering Consultants from United Kingdom (UK) and constructed by China Petroleum Engineering Construction Corporation for hydraulic capacity of 54 MGD in 1998.</p> <p>TP-III is located on the shore of Lyari Estuary, in the northeast of Karachi. Part of the site area has been reclaimed from the sea. The treatment plant covers an area of 250 acres of land. It is 3,500 meters long from east to west, and 700 meters wide from south to north. Based on the topographic features and treatment process the plant is divided into two parts east and west. The sewage flows from Lyari Trunk Sewer to Mauripur Trunk Sewer and then finally comes into Mauripur Sewage Treatment Plant.</p> <p>Existing TP-III consists of Main Pumping Station, Raw Sewage Channels, Inlet Works, Secondary Pumping Station, Anaerobic Lagoons, Facultative Lagoons, General Pumping Station and Sludge Drying Lagoons. It was not in operation, at present all the sewage is being bypassed from the plant as all the secondary pumps which feed sewage to an-aerobic lagoons were out of order.</p> <p>After implementation of S-III Project current treatment facility consisting of lagoons will be upgraded from 54 MGD to 100 MGD, while another 80 MGD will be treated under new trickling filter process.</p>




**Subject: Contract Package TP-II: Upgradation and Expansion of Sewage Treatment Plant
at Mauripur, Karachi**

Reply of Queries raised at Pre-Bid Meeting held on 10th February, 2014

S.No	Queries	Replies
2	Since the Project involves import of plants and machinery which constitutes considerable amount of the bid, there should be provision of foreign currency components for the import of Plant and machinery.	Refer IB 13.1 of Bidding Data and Appendix-B to Bid, bidders have to quote entirely in Pak Rupees.
3	Alternate Proposals should be allowed so that the Bidders can propose any other optimum/ efficient design in the best interest of project. To achieve this purpose, treatment plant design criteria i.e. flow rate, BOD, COD, TSS, O&G and other necessary parameters should be provided.	Refer IB.16 of Bidding Data, bidders will only quote for the tender design. However, <i>Value Engineering</i> from the successful bidder may be considered under the Contract, after the award of works.
4	As per NIT, the qualification criteria requirement was for registration with PEC as contractors in the specified categories only. The demand for registration in operator's category was not asked in the tender advertisement. However, registration as operator can be obtained from PEC if the project is awarded.	Valid PEC Registration in Operator category will have to be provided by the bidders at the time of opening of "Price Bid", failing which the bidder shall be considered technically failed and his financial bid shall be returned un-opened.
5	It is observed that water treatment plant experience has been given weightage in the evaluation criteria for technical qualification. It is pertinent to mention here that this is a sewage treatment plant project and relevant experience of sewage treatment plants should be taken into consideration while evaluating the bids because sewage treatment is entirely a different process as compared to water treatment. Giving weightage to water treatment plants experience in the evaluation criteria, which is irrelevant in this case, will give undue advantage to companies who have zero experience in sewage treatment plants and this project, if awarded to them, will be an experiment for them. Kindly change the evaluation criteria accordingly.	In order to have wide & healthy competition, experience in the discipline of water works is also considered relevant. Furthermore, experience is not the sole criteria of technical qualification, the bidders are also required to satisfy the other criterias' which will sufficiently prove their capacity to undertake the required works.

**Subject: Contract Package TP-III: Upgradation and Expansion of Sewage Treatment Plant
at Mauripur , Karachi**

Reply of Queries raised at Pre-Bid Meeting held on 10th February, 2014

S.No	Queries	Replies
6	Bidders should be allowed to furnish bid security in the form of Insurance Bonds issued by AA rated insurance companies as allowed by PEC. Also please specify in which envelope (Technical or financial) bid security should be included.	Furnishing of Bid Security in specified form is in accordance with the requirement of SPPRA Rules, which cannot be changed. Refer IB 11.1 (A) of Bidding Data, Bid Security will have to be submitted with Technical Bid, in the form specified.
7	Bidders should be allowed to furnish performance security in the form of Insurance Bond issued by AA rated Insurance Companies as PEC also allows it.	Furnishing of Performance Security in specified form is in accordance with the requirement of SPPRA Rules, which cannot be changed.
8	Bidders should be allowed to furnish Mobilization Advance Guarantee in the form of Insurance Bond issued by AA rated insurance companies as PEC also allows it.	Furnishing of Mobilization Advance Guarantee in specified form is in accordance with the requirement of SPPRA Rules, which cannot be changed.
9	In Appendix-C to Bid (BC-1) , escalation is provided only for local labour, cement - in bags reinforcing steel, high speed diesel (HSD) and no escalation is allowed for imported items for devaluation of Rs. Against USD. Atleast 25% weightage for price adjustment should also be given to imported items.	Revised Appendix-C to Bid (BC-1) is attached at Annexure-A. Existing Appendix-C to Bid (BC-1) is replaced with Revised Appendix-C to Bid (BC-1R)
10	There is no reference spec mentioned for trickling filter media and no sizes and type are mentioned in the tender documents as this is very important parameter which could affect the plant's performance and cost.	Specific requirements of trickling filter media is available at Annexure-8.
11	Stone as the media for Tricking Filter Systems is not effective as it is subject to clogging within a short time as it may have been observed in many other similar treatment plants. All Tricking Filter STPs with stone media is being replaced with modern High Rate Tricking Filter Systems . Kindly Allow alternate Proposals	Refer IB 16 of Bidding Data, bidders will only quote for the tender design. However, Value Engineering from the successful bidder may be considered under the Contract, after the award of work.




**Subject: Contract Package TP-III: Upgradation and Expansion of Sewage Treatment Plant
at Mauripur , Karachi**

Reply of Queries raised at Pre-Bid Meeting held on 10th February, 2014

S.No	Queries	Replies
12	Section 20 A. The definition of Origin is misguided in today's globalized world, in that there are many <u>World renowned brands</u> from North America , Western Europe, Japanese or Australian which have their <u>largest manufacturing base or production facilities</u> in countries which provide them a competitive advantage such as China, Eastern Europe and Others. These world renowned brands ensure that the quality standards in all their production facilities are implemented in order to uphold their brands . Kindly Omit the manufacturing base or production facilities out of the definition of "Origin".	Could not be omitted.
13	Section 20 A: The motors specified for the pumps are out of the typical standards. For example, Flyght and Grundfos pumps both have their own motors and are not by the SIEMENS or ABB Brands. Kindly allow Brands of motor to be specified by the Bidder.	Siemens and ABB are recommended brands; any brand equivalent to the quality standards of recommended brands will be acceptable.
14	Kindly refer to Section 20 A- Schedule of Plant Volume III(C): The make of M&E equipments have been reduced to a few names whereas definition of "approved equivalent" have also not been clarified. Kindly provide list of approved equivalent equipment.	Name of few renowned manufacturers has been specified for bidders understanding of Employer's approach and requirements. However, equipment from other manufacturers of repute having equivalent specifications, may be proposed. Contractor have to prove its equivalency with specified ones not only in terms of material or engineering but also the credentials of manufacturer and history of usage of such equipment under similar working climatic conditions. However, acceptance or rejection of proposed manufacturer and product is the prerogative of the Engineer.

**Subject: Contract Package TP-III: Upgradation and Expansion of Sewage Treatment Plant
at Mauripur , Karachi**

Reply of Queries raised at Pre-Bid Meeting held on 10th February, 2014

S.No	Queries	Replies
15	Kindly refer to Section 20 A- Schedule of Plant Volume III.C: Is there any restriction of country of origin/ original manufacturer of Plant equipment/ Kindly clarify.	Country of Origin is restricted to region / countries as written in Section 20 A - Schedule of Plant
16	Kindly confirm if secured advance is allowed against imported plant and machinery and terms of payment.	Secured Advance against imported plant and machinery, will be considered upon its arrival at site.
17	The tender ad for the project states that 12 months operation and maintenance is also required alongwith construction works but no BOQ is provided for the Operation and maintenance works. Please provide the BOQ for O&M Works.	A new Bill Nr.7 for Operation and Maintenance along with its preamble is attached at Annexure-C. Existing Summary, BOQ-Page No-1 of Bill Quantities is replaced with BOQ-Page No-1 (R) attached at Annexure-D.
18	Please provide the payment terms or specify that the Contractor is independent in proposing any payment terms.	Refer Clause 14 of Conditions of Contract
19	Kindly provide complete name of the companies (clearly mentioning whether participating singly or in joint ventures) who have received tender documents from KW&SB for this project.	This information could not be disclosed to the bidders.
20	Since this NIT is for International Competitive Bidding, therefore, as per SPPRA Rules 18(2) & (3) at least 45 days response time should be given after publication of NIT and issuance of tender documents to the bidding parties. Please note that the tender documents were not ready with the tender notice and were issued on 31st January , 2014 to the interested parties after close follow-up with the Client, It is therefore requested to extend tender submission date to 17th March 2014 i.e. 45 days from the issuance of tender documents in accordance with the SPPRA Rules.	Ample time will be provided.

NOTE:

These replies to queries raised during pre-bid meeting along with its all annexures shall form an integral part of the Tender Documents and shall be signed, stamped and submitted with the Bid by the bidder along with Tender Documents.

**PRICE ADJUSTMENT UNDER CLAUSE 13.8
OF CONDITIONS OF CONTRACT**

The source of indices and the weightages or coefficients for use in the adjustment formula under Clause 13.8 shall be as follows:

(Filled by the Procuring Agency)

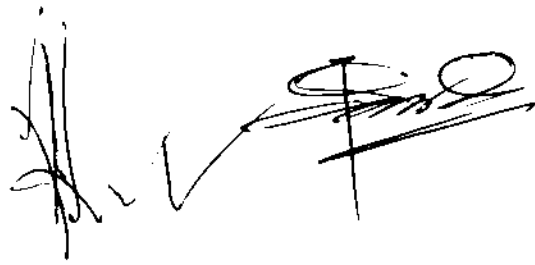
Cost Element	Description	Weightages	Applicable index
1	2	3	4
(i)	Fixed Portion	0.40	
(ii)	Local Labour	0.20	Government of Pakistan (GP) Federal Bureau of Statistics (FBS) Monthly Statistical Bulletin.
(iii)	Cement – in bags	0.05	" " "
(iv)	Reinforcing Steel	0.10	" " "
(v)	High Speed Diesel (HSD)	0.05	" " "
(vi)	International Procurement	0.20	USD (\$) Selling rate against Pak Rupee issued by the State Bank of Pakistan
	Total	1.000	

Notes:

- 1) Indices for "(ii)" to "(v)" are taken from the Government of Pakistan Federal Bureau of Statistics, Monthly Statistical Bulletin. The base cost indices or prices shall be those applying 15 days prior to the latest day for submission of bids. Current indices or prices shall be those applying 28 days prior to the last day of the billing period.
- 2) Index for (vi) is to be taken from selling rate for US \$ against Pak Rupee issued by the State Bank of Pakistan. The applicable base index is the one prevailing 15 days prior to the latest day for submission of bids. Applicable current index is the one prevailing 28 days prior to the last day of the billing period.
- 3) Any fluctuation in the indices or prices of materials other than those given above shall not be subject to adjustment of the Contract Price.



ANNEXURE - "A"

A handwritten signature or set of initials in black ink, consisting of several vertical and diagonal strokes.

CONTRACT PACKAGE TP-III: UPGRADATION AND EXPANSION OF SEWAGE
TREATMENT PLANT AT MAURIPUR, KARACHI

CONTRACT PACKAGE TP-III

BILL OF QUANTITIES

SUMMARY

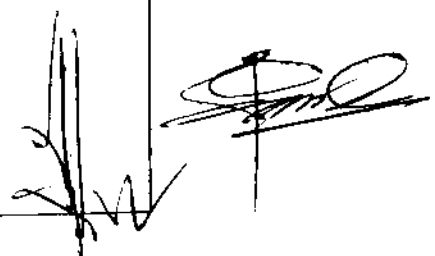
BILL NR	TITLE	AMOUNT
1	CIVIL WORKS	
2	CIVIL RESTORATION WORKS	
3	ELECTRICAL WORKS	
4	MECHANICAL WORKS	
5	GENERAL WORKS	
6	DAY WORKS	
7	OPERATION AND MAINTENANCE	
TOTAL 1 TO 7		
5% PHYSICAL CONTINGENCIES FOR VARIATION/ EXTRA WORK INSTRUCTED BY THE ENGINEER.		
GRAND TOTAL		

Amount in Words :

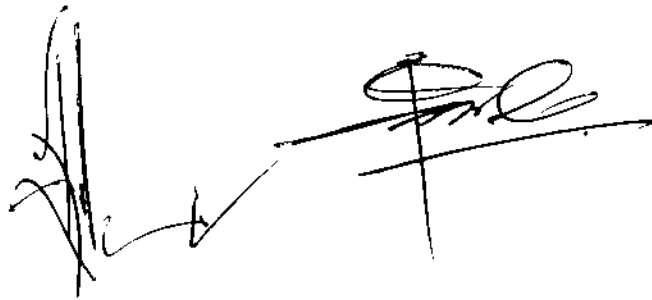
Total Carried to Letter of Price Bid :

SIGNATURE OF CONTRACTOR

SEAL



Annexure - "B"

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PREAMBLE TO OPERATION AND MAINTENANCE (BILL No.7)

In these Operation and Maintenance Requirements, terms "Works" and "STP" (meaning Sewage Treatment Plant TP-III, Karachi) are synonymous.

1. OPERATION OF THE WORKS

The Contractor shall operate the Works in a proper, effective and careful manner, in accordance with the recognized good professional practices.

The Contractor shall maintain the Plant and the portions of the Works, which are on the standby mode, in a manner that they remain protected and functional.

The Contractor shall operate the Works on a continuous 24 hours per day, 7 days per week basis, such that:

- a) all the wastewaters received shall pass through the Works for treatment, exceeding the Design Peak-Hour Wastewater Flow of 46,029 m³/h, flow shall be bypassed through an overflow pipe, provided at an upstream point in the sewerage network; and
- b) the average of the grab sample characteristics of the treated effluents at the outlet of the Works, prior to their disposal, of any three consecutive days, during the Operation Service Period, shall be within the following limits:

Biochemical Oxygen Demand (BOD)	Less than 80 (mg/l)
Total Suspended Solids (TSS)	Less than 100 (mg/l)

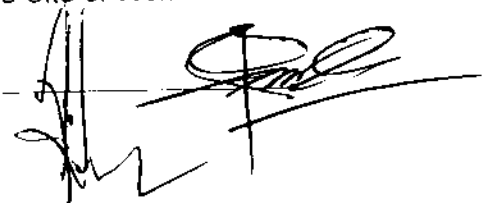
for the daily influent wastewater pollution loads to Works within the following design values:

Biochemical Oxygen Demand (BOD)	200 - 300 (mg/l)
Total Suspended Solids (TSS)	150 - 300 (mg/l)

The Contractor shall ensure by his own means and guarantee that the treated effluent in every respect shall be in accordance with the Contract. The composition of the influent wastewater, in terms of its constituents and their variations, of whatsoever nature, shall not prevent him from achieving the desired performance results.

The operation of the Works shall include, but may not be limited to, the following functions and activities:

- a) Operation of the Plant and the Equipment
- b) Dosing of process control chemicals, if required
- c) All the process and Plant control measures and activities
- d) All the process and Plant related troubleshooting
- e) Collection, handling and conveyance of the solid and semi-solid wastes and residues generated by the operation of the Works, within the Site of Works



The Contractor shall employ its best efforts to contain and control odors emitted from the Works, in order to minimize nuisance for the surrounding areas.

2. PERFORMANCE DATA COLLECTION

The Contractor shall, at his cost, collect and document the performance data pertaining to the operation of the Works, as stated herein, and shall submit it to the Employer's Representative as part of the Monthly Performance Reports or separately, where so required by the Employer's Representative, in a form and format approved by the Employer's Representative.

For the purpose of performance data collection, an Operation Day of the Works shall be taken as 0600 (06:00 AM) of a calendar day to 0600 (06:00 AM) of the next calendar day, except where otherwise instructed by the Employer's Representative.

The performance data pertaining to the operation of the Works, to be collected and documented by the Contractor, including the measurements, monitoring, sampling and laboratory-testing, shall include, but may not be limited to, the following:

- a) Wastewater Flows: Daily influent wastewater flows per Operation Day, measured from the installed on-line wastewater flow meters
- b) Wastewater and Effluent Quality Characteristics: Laboratory-determined grab sample characteristics of wastewater and effluents, with quality parameters, sampling sources/locations and sampling frequency, as follows:

Quality Parameter	Unit	Grab Sampling Source/Location		
		IW	PS	TE
pH		Daily	Monthly	Daily
Temperature	°C	Daily	-	Daily
Biochemical Oxygen Demand (Total)	(mg/l)	Daily	Monthly	Daily
Biochemical Oxygen Demand (Settled)	(mg/l)	Quarterly	Quarterly	Quarterly
Biochemical Oxygen Demand (Filtered)	(mg/l)	Quarterly	Quarterly	Quarterly
Chemical Oxygen Demand (Total)	(mg/l)	Daily	Monthly	Daily
Chemical Oxygen Demand (Settled)	(mg/l)	Quarterly	Quarterly	Quarterly
Chemical Oxygen Demand (Filtered)	(mg/l)	Quarterly	Quarterly	Quarterly
Total Suspended Solids (TSS)	(mg/l)	Daily	Monthly	Daily
Volatile Suspended Solids (VSS)	(mg/l)	Quarterly	Quarterly	Quarterly
Settleable Solids (SS)	(ml/l)	Daily	Monthly	Daily
Oil & Grease (O&G)	(mg/l)	Daily	Monthly	Daily
Sulfides	(mg/l)	Quarterly	Quarterly	Quarterly
Sulfates	(mg/l)	Quarterly	Quarterly	Quarterly
Chlorides	(mg/l)	Quarterly	Quarterly	Quarterly
Total Dissolved Solids (TDS)	(mg/l)	Quarterly	Quarterly	Quarterly
Total Kjeldahl Nitrogen (TKN)	(mg/l)	Quarterly	Quarterly	Quarterly
Ammonia Nitrogen	(mg/l)	Quarterly	Quarterly	Quarterly
Nitrite Nitrogen	(mg/l)	Quarterly	Quarterly	Quarterly
Nitrate Nitrogen	(mg/l)	Quarterly	Quarterly	Quarterly
Total Phosphorous	(mg/l)	Quarterly	Quarterly	Quarterly

IW: Influent Wastewater from Wet Well

PS: Combined Effluent after Primary Settling Tanks

TE: Combined Treated Effluent from Treated Effluent Pipe

- c) Requirements of Regulatory Agencies: Laboratory-determined characteristics of the treated effluents, as required by any government regulatory agency, with sample type, frequency and quality parameters, to be in accordance with the requirement of the agency
- d) Sludge Quantities Data: Daily volumes per Operation Day (measured or estimated) of the following sludge generated by the Works:
- Primary Sludge (Primary Settling Tanks to Sludge Thickeners)
 - Secondary Sludge (Secondary Settling Tanks to Sludge Thickeners)
 - Thickened Sludge (Sludge Thickeners to Sludge Digesters)
 - Dewatered Sludge (from Sludge Drying Beds)
- e) Sludge Concentrations Data: Laboratory-determined concentrations of the grab samples of the following sludge, on weekly basis:
- Combined Primary Sludge (Source: Primary Settling Tanks)
 - Combined Secondary Sludge (Source: Secondary Settling Tanks)
 - Combined Thickened Sludge (Source: Sludge Thickeners)
 - Combined Digested Sludge (Source: Sludge Digesters)
 - Combined Dewatered Sludge (Source: Sludge Drying Beds)
- f) Screenings Data: Daily volumes (measured or estimated) of screenings (per Operation Day) generated by the Works
- g) Grit Data: Daily volumes (measured or estimated) of grit (per Operation Day) generated by the Works
- h) Electric Energy Consumption: Daily overall electricity consumption (per Operation Day) of the Works, measured (in kWh) from the main energy meter
- i) Operation Duration of the Plant: Daily operation durations (per Operation Day) in hours of each major Plant (electrical and mechanical equipment)

3. MAINTENANCE OF WORKS

3.1 General Requirements

During the Operation Service Period, the Contractor shall be fully responsible for, and carry out, the maintenance of the Works and the Equipment, including the predictive maintenance investigations and routine, preventive and corrective maintenances, as stated herein.

The Contractor shall carry out all the required rectification and remedial measures, in respect of any defect and fault, identified during maintenance, as early as possible.

The predictive maintenance investigations and routine, preventive and corrective maintenances of the Works including Plant and the Equipment including vehicles, shall include, but may not be limited to, the following:

- a) Predictive Maintenance Investigations for the Plant and the Equipment, including, but may not be limited to, measurements, tests and analyses of performance and associated parameters like noise, vibrations etc, in order to establish the conditions and reliability of the equipment and identify any fault or defect, therein

- b) Corrective Maintenance of the Plant and the Equipment including, but may not be limited to, non-routine repair of parts or replacement with like-kind parts, consequent to a failure, or in order to avert a potential failure identified by the Predictive Maintenance Investigations or otherwise, during the normal useful life of the equipment
- c) Preventive Maintenance of the Plant and the Equipment including, but may not be limited to, the routine lubrication, oil replacement and replacement of parts like belts, oil and air filters etc. and other tasks, which occur on a scheduled frequency as recommended by the equipment manufacturer or as established by the practice of the trade
- d) Routine Maintenance of the Works including, but may not be limited to, the following:
- Upkeep of the landscaping works including irrigation of the green areas and plants, plant trimmings etc, on the Site of Works
 - Upkeep of the grounds of Site of the Works
 - Maintenance and upkeep, including all repair and replacement works, of the Works including buildings, sanitary structures, roads, walkways, vehicle parking areas, entrance gates, boundary walls, piping works, storm water drainage works, water supply works, sewerage works, external illumination works and external & Plant electrification works, in order to maintain their original form, finish, structural & mechanical integrity and functional efficacy, excepting the normal wear and tear
 - Carrying out inspection and taking remedial measures to control corrosion of the metal works
 - Routine maintenance and upkeep of the buildings, forming part of the Works, including, but may not be limited to, all repair and replacement works, for plumbing fittings & fixtures, electrical fittings & fixtures, air conditioners, land-line telecommunication system, furniture and furnishings
 - Maintaining general cleanliness and appearance of the Works, at all the times
 - Regular cleaning of all the accessible surfaces of the sanitary structures, weirs, notches, gratings and like, in order not to allow accumulation and solidification of the undesirable materials adhering to them
 - Internal cleaning/scouring of pipelines, valves, inspection chambers and manholes in order to remove obstructions and clogging
 - Regular cleaning of all the sensors and probes of instruments like flow meters, level controllers etc
 - Manual removal of the floating substances and scum, from the sanitary structures, not provided with scum removal devices
 - Regular sweeping, cleaning, mopping and/or washing of building floors, road and other pavements, walkways, platforms, etc

3.2 Maintenance Program

The Contractor shall carry out maintenance of the Works, in accordance with the Maintenance Program, prepared and submitted by the Contractor and agreed upon by the Employer' Representative.

The Contractor shall submit the Maintenance Program to the Employer' Representative prior to the commencement of the Operation Service.

The Maintenance Program shall lay down the maintenance schedules, methods and procedures, which shall in general be in accordance with recognized standards and

practices and equipment manufacturers' instructions.

3.3 Maintenance Records

The Contractor shall maintain detailed records and reports of the major maintenance activities performed.

These maintenance records shall contain information on the nature of each major maintenance activity, its date, the time spent, the Materials used and any other information reasonably required by the Employer' Representative.

The Contractor shall submit these maintenance records and reports to the Employer' Representative, as part of the Monthly Performance Reports.

4. MONTHLY PERFORMANCE REPORTS

The Contractor shall, at his cost, prepare and submit to the Employer' Representative, a Monthly Performance Report on the operation and maintenance of the Works, in form and format approved by the Employer' Representative, for each month, not later than 10TH day of the next month.

Each Monthly Performance Reports shall contain, but may not be limited, to the following data and information, for the respective month:

- a) Record of operational changes and adjustment, if any
- b) Performance data, in accordance with Section 2
- c) Maintenance records, in accordance with Section 3.3
- d) Data on the process and Plant related troubleshooting, if any
- e) Data on operating process parameters
- f) All the relevant laboratory test results
- g) Data on Equipment utilization
- h) Data on Materials and their consumption
- i) Data on manpower utilization
- j) All the relevant accounting and financial data, as required by the Employer' Representative

5. WORKS

Works, including Plant, for the provision of the Operation and Maintenance Service, shall include the Works executed and completed, by the Contractor, and the following works, whether or not forming the part of the Works executed and completed, by the Contractor:

- a) Air conditioners in the buildings, to the extent deemed necessary by the Employer' Representative
- b) Land-line telecommunication system comprising telephone exchanges, wiring and telephone sets, in the buildings, to the extent deemed necessary by the Employer' Representative
- c) Furniture and furnishings, in the buildings, to the extent deemed necessary by the Employer' Representative, for the operation and maintenance of the Works and for the use of Contractor's and Employer's Personnel, to be housed in these buildings
- d) All the laboratory equipment, instruments, glassware and accessories for the following tests of wastewater and sludge samples:

- pH Value
 - Temperature
 - Biochemical Oxygen Demand (BOD)
 - Chemical Oxygen Demand (COD)
 - Total Dissolved Solids (TDS)
 - Total Suspended Solids (TSS)
 - Volatile Solids (VS)
 - Settleable Solids (SS)
 - Oil & Grease
- e) All the major workshop equipment
- f) All the soft landscaping works including plants on the Site

6. EQUIPMENT

The Contractor shall, at his cost, provide and maintain all the Equipment, required for the operation and maintenance of the Works, under the Contract.

The Equipment shall include, but may not be limited to, the following:

- a) All the vehicles including cars, vans, trucks, tractor-driven trolleys or other modes of transportation to be used for transporting of the following or to be used for other functions for the operation and maintenance of the Works:
- People
 - Goods or things
 - Conveyance of the solid and semi-solid wastes and residues generated by the operation of the Works, within the Site of Works
- b) All the chemicals dosing facilities, including chemical dosing vessels, chemical dosing pumps, instrumentation and piping, if and when required
- c) All the office equipment including, but may not be limited to, computers, printers, fax machines, photocopiers with consumables and stationery items
- d) All the minor laboratory, workshop and other equipment and instruments, not included in the Works, under Section 5 with required consumables.

7. MATERIALS

The Contractor shall, at his cost, provide and use all the Materials, required for the operation and maintenance of the Works, under the Contract, for a period of twelve (12) months.

The Materials shall include, but may not be limited to, the following:

- a) All the fuels and lubricants for the operation of the Plant and Equipment including vehicles
- b) All the treatment process chemicals, if and when required
- c) All the laboratory chemicals
- d) All the stationery items and materials for the operation and maintenance of the office equipments including, but may not be limited to, computers, printers, fax machines, and photocopiers

- e) All the materials including replacement items and spares for the Predictive Maintenance Investigations and Routine, Preventive and Corrective maintenance of the Works including Plant and Equipment including vehicles
- f) The Contractor should include a list of spares and frequency of parts replacement as per the recommendations of the manufacturers. Spares should be provided for minimum twelve (12) months period of operation and maintenance.

All the Materials shall be subject to the approval of the Employer' Representative.

8. TRAINING OF EMPLOYER'S PERSONNEL

During the Operation Service Period, the Contractor shall, at his cost, carry out training of such reasonable number of Employer's Personnel in different disciplines and trades, as designated by the Employer' Representative, in the operation and maintenance of the Works. The training shall comprise both on-job as well as instructional training.

The program and scheduling of the instructional training shall be agreed with the Employer' Representative and the Contractor shall provide experienced training staff, and all training materials, for this purpose.

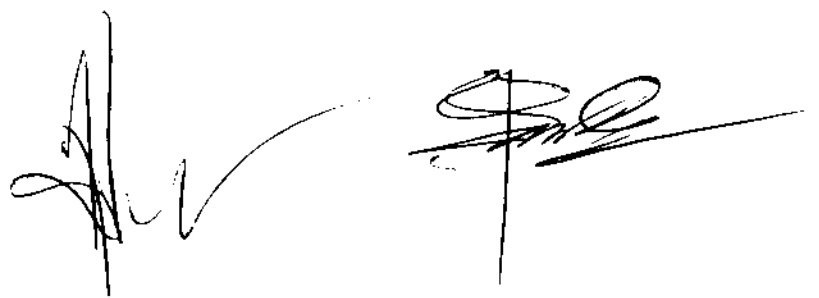
Contract Package TP-III: Upgradation and Expansion of Sewage Treatment Plant at Mauripur, Karachi

Bill No.7 (Operation and Maintenance)

Operation Service for the Works (for specified Operation Service period)

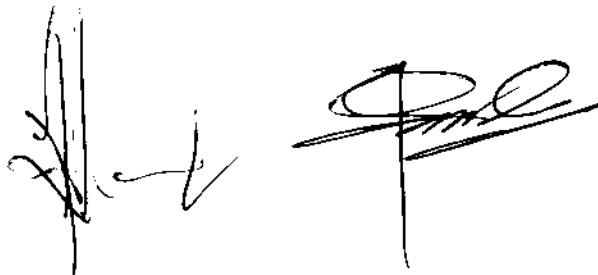
S. No #	Item Description	Unit	Quantity	Unit Rate (Rupees)	Amount (Rupees)
1.	Providing Operation and Maintenance Services for the Works, for specified Operation Service period of 365 days, complete in all respects, in accordance with the Contract, including charges of electricity and other utilities.	Months	12		
	Total Carried to Summary				

Annexure - "C"

Two handwritten signatures in black ink. The signature on the left is a cursive name, possibly 'A. V.'. The signature on the right is a stylized name, possibly 'S. S.', with a horizontal line extending to the right.

Specific Requirement of Trickling Filter Media (Section 20.24)

Filter Material	Nominal Size, mm	Unit Wt., kg/m ³	Specific surface area, m ² /m ³	Void space, %	Application
Rounded River Rock	100 – 130	800 – 1000	45	60	C,CN,N

Two handwritten signatures in black ink are located at the bottom of the page. The signature on the left is more vertical and stylized, while the one on the right is more horizontal and cursive.



KARACHI WATER & SEWERAGE BOARD
OFFICE OF THE EXECUTIVE ENGINEER (S-III) /
SECRETARY EVALUATION COMMITTEE
Block - D, 1st Floor, 9th Mile Karsaz, Shakra-e-Faisal, Karachi

No. E.E/S-III/KW&SB/2014/275

Dated: May 8, 2014

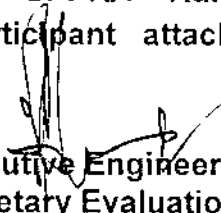
MINUTES OF MEETING

Subject: MEETING OF PROCUREMENT COMMITTEE FOR BID EVALUATION (TECHNICAL PROPOSAL) OF SEWAGE TREATMENT PLANT AT MAURIPUR KARACHI UNDER S-III PROJECT, KW&SB.

Ref. No. SPPRA SR No.18487, NIT REF. NO. INF-KRY- NO.3186/13

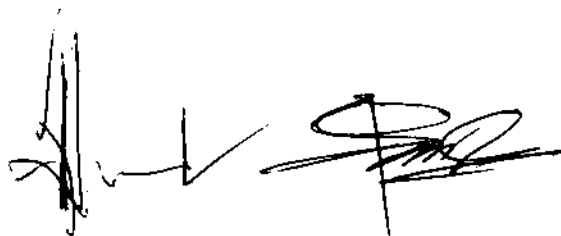

Kindly find attached minutes of the meeting as per Clause 41-9 on the above subject held on 5th May 2014 in Committee Room, Block-D, M.D's Secretariat, KW&SB chaired by Mr. Ovais Malik, Chief Engineer (West) as convener of meeting.

As per Clause 41-9 of SPPRA Rule 2010, the Bid (Technical Proposal) opened at 2.30 p.m. on schedule date in the presence of all members of committee constituted as per Clause No.7 of SPPRA Rule and representatives of contractor firms - List of participant attached at Annexure-1.


Executive Engineer /
Secretary Evaluation
Committee (S-III) Project,
KW&SB

Distribution:
All Members.

Copy to:
1. Project Director, (S-III) Project, KW&SB

Subject: Minutes of Meeting of Procurement Committee for Bid Evaluation (Technical Proposal) of Sewage Treatment Plant at Mauripur, Karachi under S-III Project KW&SB, held on 5th May 2014 i.e. Opening of Technical Proposal.

The Contract Packages of Sewage Treatment Plant's upgradation and expansion works under S-III Project was invited on 2nd January 2014 through local leading newspapers and in international print media on 19th March 2014. The Bid (Technical) opened as per amended schedule on 5th May, 2014 at 2.30 p.m. in the Committee Room of M.D's Secretariat, Block-D, 9th Mile Karsaz Office.

The meeting was chaired by Mr. Ovais Malik, Chief Engineer (West) KW&SB and attended by all members of the Committee and the representatives of the Contractor firms.

Sealed Boxes show to all participants in the room, and then at 2.30 p.m. opens to taken out the bids - seal of all bids checked by the Committee members, after which opened publically in presence of all members and representatives of all bidder's firms. Bid number marked on each bid and circulated among members for signing on title page of bid envelope.

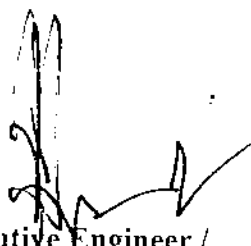
Attendance sheet forwarded for signing the attendance among all members and bidders representatives as per Clause 41(6) of SPPRA.

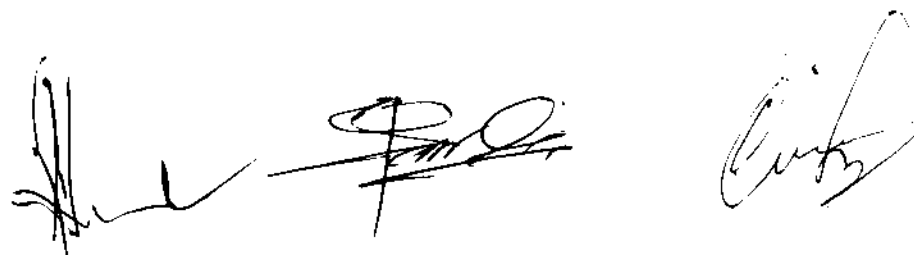
Following the Clause 46-2-(c) (d) of SPPRA Rule 2010, The Committee segregates the financial proposal in separate locked box.

The Convener inform to all members that technical evaluation of bids in accordance with evaluation criteria will be begin from next meeting.

The meeting agenda completed, therefore the meeting ended at 5.50 p.m. with vote of thanks to and from the Chair.

Submitted please.


Executive Engineer /
Secretary Evaluation Committee
S-III Project, KW&SB





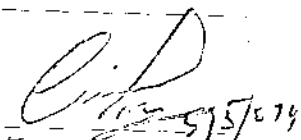
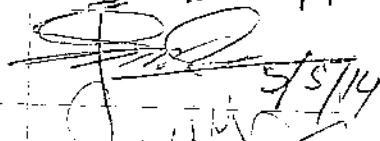

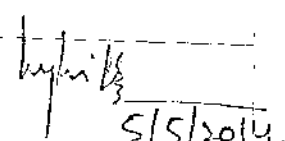

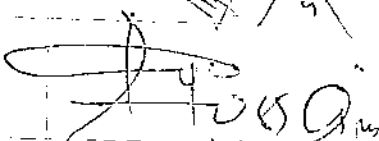
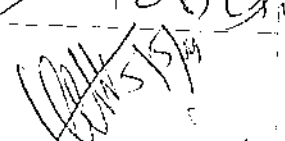

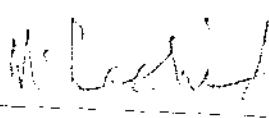

KARACHI WATER & SEWERAGE BOARD
OFFICE OF THE EXECUTIVE ENGINEER (S-III) PROJECT
SECRETARY / MEMBER EVALUATION COMMITTEE
Block - D, 9th Mile Karsaz, Shalra-e-Faisal, Karachi
Phone & Fax No. 99240828

No. EE/SECY (EC)/(S-III)/2014/52

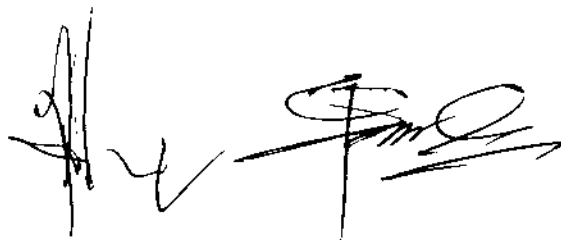
May 05, 2014

Subject: Contract Package TP- III "Up-Gradation and Expansion of Sewage Treatment Plant at Mauripur Karachi, Under Greater Karachi Sewerage Plan S-III"

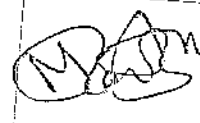
ATTENDANCE SHEET

NAME	DESIGNATION	SIGNATURE
Mr. Owais Malik	Convener / Member	 5/5/14
Mr. Qaiser Ali	Member	 5/5/14
Mr. S. M. Yahya	Director Labs. Env. Dept GOS (Member)	
Mr. Fahim Junejo	D.G (M&E) L.G G.O.S Member	 5/5/2014
Mr. Maqsood Shaikh	S.E (KMC) Member	
Mr. Sardar Shah	Member	
Mr. Ayaz Tunio	Member	
Mr. Naveed Jabbar	A.O Member	
M/s Techno Consultants Int.		

Cont... P/2



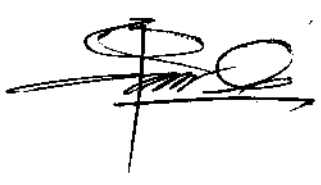
Bidders / Participants

Name of Representative	Firm / Company	Designation	Signature
Mr.	M/s. Crescent Const. Co.		
Mr.	M/s. Descon Engineering Limited		
Mr.	M/s. Habib Rafiq (Pvt) Limited		
Mr.	M/s. NCL - PESC - CRFG (JV)		
Mr. S.M. Raza Naqvi	M/s. Pak Oasis Industries	General Manager.	 M. S. Naqvi
Mr.	M/s. R. M. Gulistan Engineering & Cons.		
Mr.	M/s. Saadullah Khan & Brothers.		
Mr.	M/s. Sultan Mahmood & Co.		
Mr.	M/s. VINCI Construction Grand Project		
Mr.	M/s. Sardar M. Ashraf D. Baluch (Pvt) Ltd.		

5/5/14



MUKHTI SAMTIO
Secretary / Member
Evaluation Committee



Karachi Water and Sewerage Board
Greater Karachi Sewerage Plan (S-III)

BID OPENING CHECKLIST

Contract Reference: *Contract Package TP-III: Upgradation and Expansion of Sewage Treatment Plant at Mauripur, Karachi*

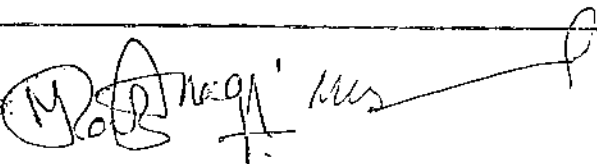
Bid Opening Date: 05-05-2014 Time: 1430 Hrs.

Name of Bidder: M/s Park Oasis Industries (Pvt) Ltd.


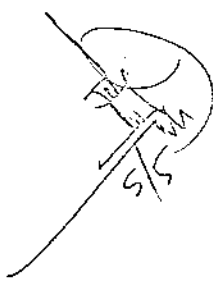
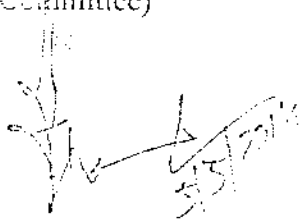
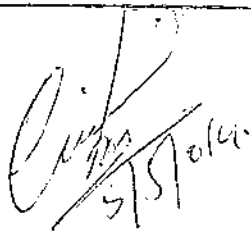
- (a) Is outer envelope of bid sealed? Yes
- (b) Is Letter of Technical Bid completed and signed? Yes
- (c) Expiration date of bid: 05-05-2014
- (d) Is documentary authority for signing enclosed? Yes
- (e) Bid security enclosed (as required): Yes
- (f) Describe any "Substitution," "Withdrawal," or "Modification" submitted.

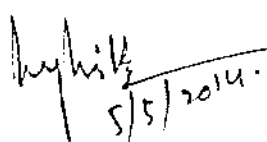
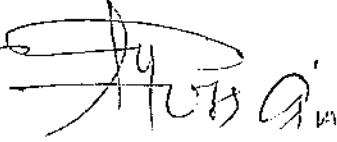
- (g) Additional comments

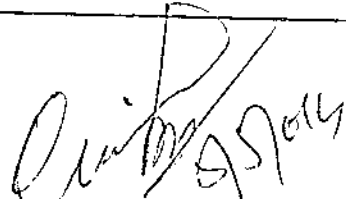
- (h) Name of bidder or his representative who attended bid opening.
Syed Muhammad Raza Naqvi, Mukarram Saad
- (i) Is envelope of financial bid sealed?

Signed by Bidder's Representatives: 

Signed by: (Members, Procurement Committee)

 STS  STS  5/5/2014  STS 5/5/2014

 5/5/2014  STS 5/5/2014

 STS 5/5/14

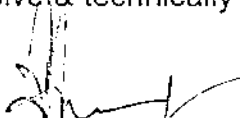
Convenor of Procurement Committee:  

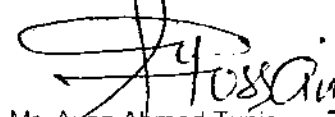
TP-111

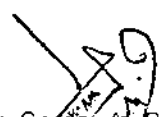
SUB: TECHNICAL EVALUATION REPORT FOR CONTRACT PACKAGE "UP-GRADATION AND EXPANSION OF SEWAGE TREATMENT PLANT AT MAURIPUR, KARACHI UNDER S-III PROJECT.

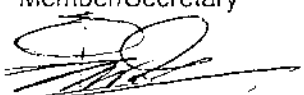
The Procurement Committee having carried out the critical analysis, check & pre-requisites for evaluation and In consideration of all aspects related to the technical proposal. After due deliberation and consensus recommends that only Applicant Firm M/s Pak Oasis Industries (Pvt) Ltd., qualify for the stage-II of bidding process wherein financial proposal will be opened.

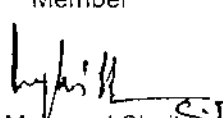
No bidder found non responsive who have been rejected on the ground of their technical proposal and returned their financial bid unopened. Therefore conduct the opening of financial proposal of only applicant bidder submitted substantially responsive & technically qualify bid, as per SPPRA Rules 2010.



Mr. Mukhtiar Ali Samito
EE (S-III)
Member/Secretary

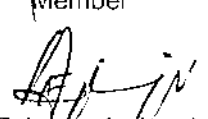

Mr. Ayaz Ahmed Tunio
DPM S-III
Member

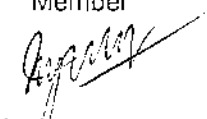

Mr. Sardar Ali Shah
PM S-III
Member

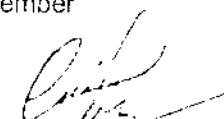

Syed Qaiser Ali
SE (E&M) KW&SB
Member


Mr. Mansoor Shaik
Executive Engineer, KMC
Member


Mr. Naveed Jabbar
Accounts Officer (S-III)
Member


Mr. Faheem A. Junejo
Representative L.G (GOS)
Member


Mr. S.M. Yahya
Rep. Environmental
Deptt. GOS
Member

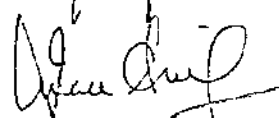

Mr. Ovais Malik
C.E. (Zone-W)
Convener


Encl: Technical Evaluation Report

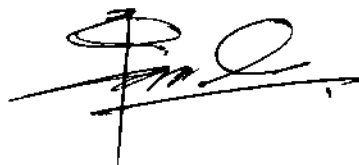
Project Director (S-III), KW&SB.

Approved.

As proposed.


P.D(S-III)





Greater Karachi Sewerage Plan (S-III)
Up-gradation and Expansion of Sewage Treatment Plant at Mauripur, Karachi
Technical Evaluation of Bidder
Status of Responsiveness

Bidder: *M/s Pak Oasis Industries (Pvt.) Ltd. (Sole Bidder)*

S.No	Description	Findings	Remarks
1	Valid PEC Registration Certificate in CA Category with Specialization in CE-09, CE-10, ME-06, EE-04 & EE-05.	Available	Pass
2	Average Annual Turnover (minimum Rs.3,000/- Million)	Rs. 4,404.812 Million	Pass
3	Auditor's Balance Sheets for last 3 years.	Available	Pass
4	Litigation History on Rs 100 Stamp paper	Available	Pass

RESULT

RESPONSIVE

Responsive

NON RESPONSIVE

Signature

Signature *Signature*

Signature *Signature*

Signature *Signature*

Signature *Signature*

Greater Karachi Sewerage Plan (S-III)
Up-gradation and Expansion of Sewage Treatment Plant at Mauripur, Karachi
Detailed Technical Evaluation of Bidder (M/s Pak Oasis Industries (Pvt.) Ltd.)

1.5.1 Qualification of Firm

Total 100 Points

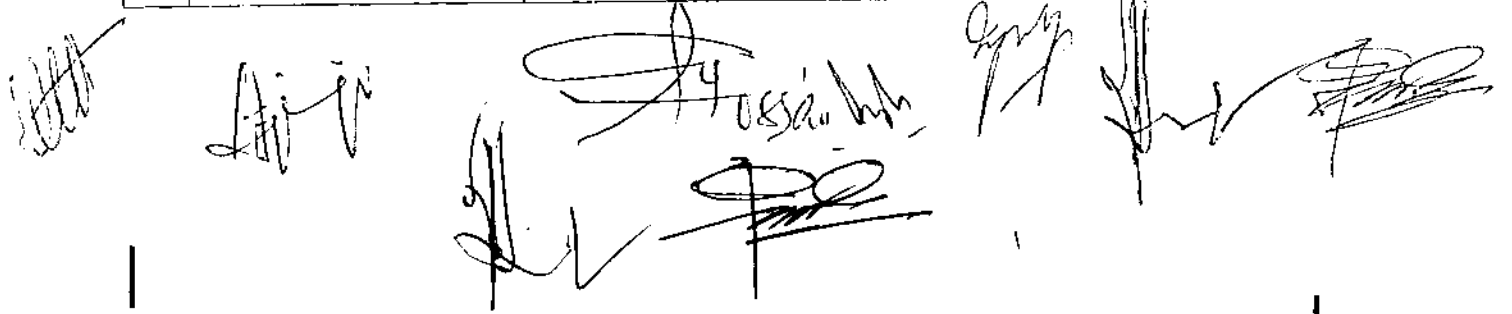
DESCRIPTION		Weightage Points	Project Executed	Weightage Points Obtained
a.	(I) Experience in execution of mega Water / Waste Water Treatment Projects executed during last 5 years amounting to minimum Rs. 2000 Million.	25		
	(II) Experience in execution of mega Water / Waste Water Treatment Projects executed during last 5 years amounting to minimum Rs. 3000 Million.	30		
	(III) Experience in execution of mega Water / Waste Water Treatment Projects executed during last 5 years amounting to minimum Rs. 4000 Million.	35		35
		Weightage Points		Weightage Points Obtained
b.	Mandatory in House Design facility or Association with reputable Design House (The firm or his associates should have capacity to deal with technical aspects and have sufficient knowledge of Sewage Treatment Process).	30	-	20
		Weightage Points		Weightage Points Obtained
c.	Understanding of the Project along with the Methodology of its implementation.	35	-	30
Total Qualification Score (a+b+c)				85

1.5.2 Key Personnel

Total Points 100

Sr. No.	Position	Weightage Points		Weightage Points Obtained	
		Qualifications	Experience	Qualifications	Experience
1	Project Manager	3	12	3	12
2	Site Engineer (2 Nos) Civil	4	8	3.6	8
3	HSF Specialist	2	7	1.8	5.6
4	Structural Engineer	1	7	1	7
5	Material Engineer	3	7	0	7
6	Mechanical Engineer	5	8	5	8
7	Treatment Process Engineer	3	7	3	7
8	Instrumentation Engineer	4	7	3.6	7
9	Electrical Engineer	5	7	4.5	7
Total Weightage Points		30	70	25.5	68.6

Certified



**Greater Karachi Sewerage Plan (S-III)
Up-gradation and Expansion of Sewage Treatment Plant at Mauripur, Karachi
Detailed Technical Evaluation of Bidder (M/s Pak Oasis Industries (Pvt.) Ltd.)**

		Weightage Points	Weightage Points Obtained
a.	Qualification i. BE/BSC/BS Engg + Masters 100% ii BE/BSC/BS Engg 90 %	30	25.5
b.	Experience For Project Manager Only i. 20 years & above 100 % ii 15-20 years 90 % iii 10-15 years 80%	12	12
c.	Experience For 1. Site Engineer 2Nos. (2 x4) 2. HSE Specialist 3. Structural Engineer 4. Material Engineer 5. Mechanical Engineer 6. Treatment Process Engineer 7. Instrumentation Engineer 8. Electrical Engineer i. Above 10 years 100 % ii. 9 to 10 years 90 % iii 8 to 9 years 80 %	58 8 7 7 7 8 7 7 7	56.6

1.5.3 Key Equipments

Total Points 100

Sr. No	Equipment Type & Characteristics	Minimum Number Required	Points on Ownership	Points on Hiring	Weightage Points Obtained
1	Excavators/Rock Breakers	2	6	4	4
2	Wheel Loader	2	8	6	6
3	Grit/Sand BLASTING Equipment	2sets	8	6	6
4	Arc Welding Plant	2sets	8	6	6
5	Transit Concrete Mixer	2	8	6	6
6	Mobile Crane 20 Tons	2	8	6	6
7	Concrete Batching Plant 100 m ³ /day with backup Generators for Plant	1	12	8	8
8	Dewatering Pumps 4" & 6" Dia Suction	10	10	7	7
9	Diesel Generators 100 to 500 KVA	4	12	7	7
10	Concrete Pumps	1	10	7	7
11	Dumpers	4	10	7	7
	Total Weightage Points		100	70	70

The Applicants must provide the list of:

Note: (a) Equipment owned by the applicant along with the ownership Documents. If the ownership documents are not provided the equipment shall be considered as hired rental.

(b) Equipment to be Hired by the Applicant

[Signature]

[Signature]

[Signature]

[Signature]

[Signature]

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Greater Karachi Sewerage Plan (S-III)
Up-gradation and Expansion of Sewage Treatment Plant at Mauripur, Karachi
Detailed Technical Evaluation of Bidder (M/s Pak Oasis Industries (Pvt.) Ltd.)

1.5.4 Financial

Total Weightage Points 100

1	Average Annual Income (Net Profit) for the last 3 Years	Weightage Point	20	Weightage Points Obtained
a.	Rs. 50 million to < 100 million	14		-
b.	Rs. 100 million to < 150 million	17		17
c.	Rs. 150 million to < 200 million	20		-

Note: To be determined from the Auditor's Balance Sheet

2	Year	Average Annual Turn Over (Equivalent in Pak Rs.)	Weightage Point	50	Weightage Points Obtained
a.	1. Fiscal Year 2010 to 2013	Rs.3000 million to < 4000 million	35		-
b.	2. Fiscal Year 2010 to 2013	Rs.4000 million to < 5000 million	42		42
c.	3. Fiscal Year 2010 to 2013	Rs.5000 million and above	50		-

3	Minimum Cash flow Requirement	Weightage Point	30	Weightage Points Obtained
a.	Rs. : 00 million to < 800 million	21		-
b.	Rs. 800 million to < 1000 million	25		-
c.	Rs. 1000 million & above	30		30

Note:

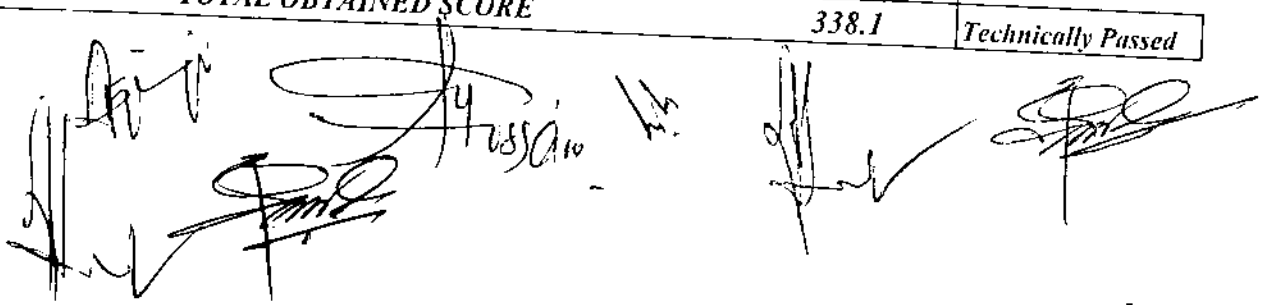
Minimum Cash Flow = (10 x working capital) -- (30% of current commitments) + credit line
 {Working capital = Current assets minus Current Liabilities}

- 1 The Applicant must Submitted the unconditional Bank Letter on the Attached Performa P-1 Mentioning the currently available credit line of the applicant and Auditor's Balance sheets for the last 3 Years.
- 2 Minimum available Credit Line must be 500 Millions through Bank's Letter.
- 3 Where necessary the Employer may make enquiries with the applicant's Bank or Auditors.

1.5.4.1 Average Annual Income	=	17
1.5.4.2 Average Annual Turnover	=	42
1.5.4.3 Minimum Cash Flow	=	30
Total Financial score		89

RESULT			
4.3.1	Qualification	=	85
4.3.2	Key Personal	=	94.1
4.3.3	Key Equipment	=	70
4.3.4	Total Financial Score	=	89
TOTAL OBTAINED SCORE			338.1
			Technically Passed

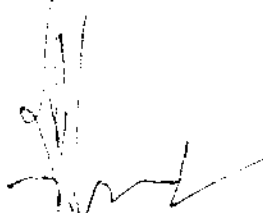
Certified




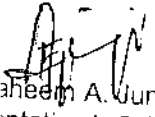
SUMMARY AND CONCLUSION

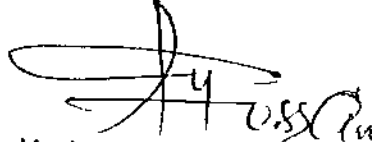
After detailed in depth scrutiny, verification, and evaluation of submitted documents, in accordance with the criteria, the Evaluation Committee found that only participated Contractors' Firms, is qualify for the stage-II of bidding process wherein financial proposal will be opened.

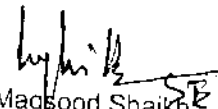
Sr. No.	Name of Firms
1	M/s Pak Oasis Industries (Pvt) Ltd.

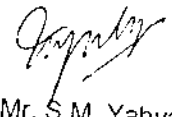

Mr. Mukhtiar Ali Samito
EE (S-III)
Member/Secretary

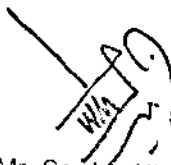

Syed Qaiser Ali
SE (E&M) KW&SB
Member



Mr. Faheem A. Junejo
Representative L.G (GOS)
Member

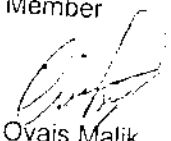

Mr. Ayaz Ahmed Tunio
DPM S-III
Member


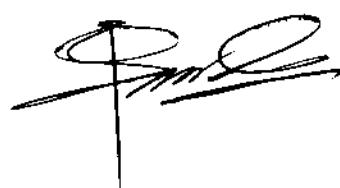

Mr. Maqsood Shaikh
Executive Engineer, KMC
Member


Mr. S.M. Yahya
Rep. Environmental
Deptt. GOS
Member


Mr. Sardar Ali Shah
PM S-III
Member


Mr. Naveed Jabbar
Accounts Officer (S-III)
Member


Mr. Ovais Malik
C.E. (Zone-W)
Convener





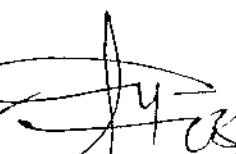
TECHNICAL EVALUATION REPORT / QUALIFICATION ASSESSMENT

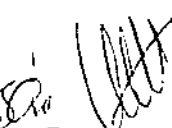
Name of Procuring Agency: Karachi Water & Sewerage Board

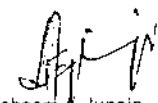
Name of Work: Contract Package "Up-Gradation and Expansion of Sewage Treatment Plant at Mauripur Karachi", under S-III Project.

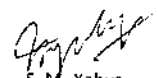
S.No.	Evaluation Criteria	Max. Marks	M/s. Pak Oasis Industries
1	Qualification of Firm		
	(i) Execution of Similar Nature Project	35 Nos.	35 Nos.
	(ii) Inhouse Design Facility	30 Nos.	20 Nos.
	(iii) Understanding of Project	35 Nos.	30 Nos.
2	Key equipment (Machineries & Tools)	100 Nos.	70 Nos.
3	Key Personnel	100 Nos.	94.1 Nos.
4	Financial	100 Nos.	89 Nos.
	Total	400 Nos.	338.1 Nos.
	Results	-	Technically Qualify

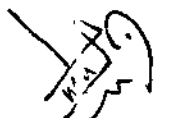

 Mulkhjar Ali Samito
 EE S-III
 Member / Secretary

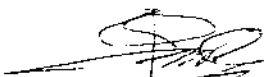

 Ayaz Tunio
 EE S-III
 Member

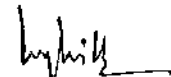

 Naveed Jabbar
 A.O (S-III)
 Member


 Faheem A. Junejo
 D.G (MEC) GOS
 Member

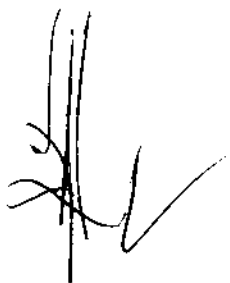
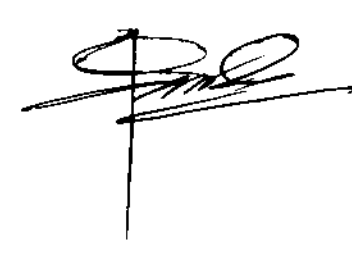

 S. M. Yahya
 Inst. (Environ) GOS
 Member


 Sardar Ali Shah
 P.M (S-III)
 Member


 Syed Qaiser Ali
 S.E. KW&SB
 Member


 Maqsood Shaikh
 S.E (KMC)
 Member


 Ovais Malik
 C.E (West)
 Convenor



OFFICE OF THE CHIEF ENGINEER (WEST), KW&SB
Old KBC Building Behind Civic Centre Gulshan-e-Iqbal Karachi

No. KW&SB/Zone-WEST/S-III/2014/282

Dated 23rd May 2014

To:
M/s. Pak Oasis Industries (Pvt) Ltd

Reference: Bids for Provision of "Upgradation and Expansion of Sewage Treatment Plant at Mauripur, Karachi.

Subject: **Evaluation of Technical Proposal**

The subject bid was submitted under single-stage – two envelop procedure.

The Technical Proposal of the only received bid was opened by the Evaluation Committee appointed by the Competent Authority of Karachi Water and Sewerage Board vide their notification No. KW&SB/D.M.D/HRD&A/35 on 04/02/2014, in presence of the representatives of the bidders..

The evaluation of the Technical proposal of the only one received bid from M/s Pak Oasis Industries (Pvt.) Ltd., was carried out by the Evaluation Committee in accordance with the Evaluation Criteria and other terms and condition set forth in the bidding documents with the following result.

The detailed Evaluation Report comprising of Technical and Financial evaluations will be posted on the SPPRA website, in due course of time.


(i) **Technical Proposal of M/s. Pak Oasis Industries (Pvt) Ltd.**

The proposal was found technically responsive and on evaluation was awarded 338 marks out of total 400 marks and is considered technically qualified to meet the requirements of the bid.

Therefore, in accordance with the Sindh Public Procurement Authority, Rules 2010, the Evaluation Committee is please to invite M/s Pak Oasis Industries (Pvt.) Ltd. to attend the financial opening of subject contract bid.

The venue, date and time of Financial Opening of technically qualified bid is given below:

Date: May 26, 2014
Day: Monday
Time: 3:00 P.M
Venue: Committee Room of S-III Project Secretariat
Karachi Water and Sewerage Board
First Floor, Block-D, 9th Mile Office,
Shahrah-e-Faisal, Karsaz, Karachi.
Phone No.: 021-99240828


CHIEF ENGINEER (WEST)
Convener (Procurement Committee)
Karachi Water and Sewerage Board

cc to:

1. The Managing Director (KW&SB).
2. The Project Director (S-III Project) KW&SB
3. Secretary (Procurement Committee), KW&SB
4. Members (Procurement Committee) {with the request to attend the Financial Bid Opening}



KARACHI WATER & SEWERAGE BOARD
OFFICE OF THE EXECUTIVE ENGINEER (S-III) /
SECRETARY EVALUATION COMMITTEE
Block – D, 1st Floor, 9th Mile Karsaz, Shakra-e-Faisal, Karachi

No. EE/S-III/KW&SB/2014/ 287

Dated: May 31, 2014

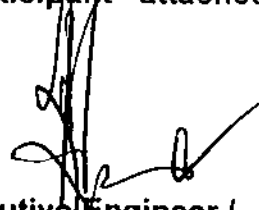
MINUTES OF MEETING

Subject: **MEETING OF PROCUREMENT COMMITTEE FOR BID EVALUATION (FINANCIAL PROPOSAL) OF STP-III UNDER S-III PROJECT, KW&SB.**

Ref. No. SPPRA SR No.18487, NIT REF. NO. INF-KRY- NO.3186/13

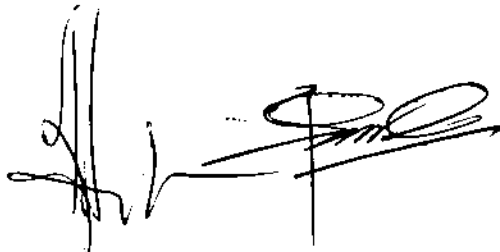
Kindly find attached minutes of the meeting as per Clause 41-9 on the above subject held on 26th May 2014 in Committee Room, Block-D, M.D's Secretariat, KW&SB chaired by Mr. Ovais Malik, Chief Engineer (West) as convenor of meeting.

As per Clause 41-9 of SPPRA Rule 2010, the Bid (Financial Proposal) opened at 11:00 a.m. on schedule date in the presence of all members of committee constituted as per Clause No.7 of SPPRA Rule and representatives of contractor firms – List of participant attached at Annexure-1.


Executive Engineer /
Secretary Evaluation
Committee (S-III) Project,
KW&SB

Distribution:
All Members.

Copy to:
1. Project Director, (S-III) Project, KW&SB



all members Meeting of Procurement Committee

MINUTES OF MEETING

Subject: Minutes of Meeting of Procurement Committee for Bid Evaluation (Financial Proposal) of STP-III, under S-III Project, KW&SB, held on 26th May 2014 i.e. Opening of Financial Proposal.

The Contract Packages of STP-III Works (Upgradation and Expansion of Sewage Treatment Plant at Mauripur, Karachi) under S-III Project was invited on 2nd January 2014 through local leading newspapers and on 19th March 2014 in International Newspapers. The Bid was opened as per amended schedule on 26th May, 2014 at 11:00 a.m. in the Committee Room of M.D's Secretariat, Block-D, 9th Mile Karsaz Office.

The meeting was chaired by Mr. Ovais Malik, Chief Engineer (West) KW&SB and attended by all members of the Committee and the representatives of the Contractor firms.

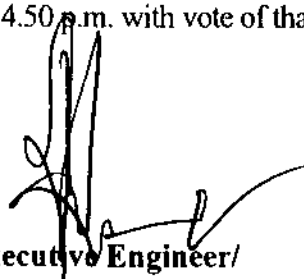
Scaled Box shown to all participants in the room, and then at 11:00 a.m. opened to taken out the bids. Seal of all bids (Financial Proposal) checked by the Committee members and representative of participants firm, after which opened publically in presence of all members and representatives of all bidder's firms. Bid number marked on each bid and circulated among members for signing on title page of bid envelope.



Attendance sheet forwarded for signing the attendance among all members and bidders representatives as per Clause 41(6) of SPPRA.

Following he Clause 41-9 of SPPRA Rule 2010, the name of bidder and total amount of bid read loudly and recorded when opened, also check for overwriting or cutting which is not found.

The Convener inform to all members that financial evaluation of bids in accordance with evaluation criteria will be begin from next meeting.

The meeting agenda completed, therefore the meeting ended at 4.50 p.m. with vote of thanks to and from the Chair.


Executive Engineer/
Secretary Evaluation Committee
S-III Project, KW&SB





KARACHI WATER & SEWERAGE BOARD

OFFICE OF THE EXECUTIVE ENGINEER (S-III) PROJECT /
SECRETARY / MEMBER EVALUATION COMMITTEE
Block - D, 9th Mile Karsaz, Shakra-e-Faisal, Karachi
Phone & Fax No. 99240828

No. EE/SECY (EC)/(S-III)/2014/

May 26, 2014

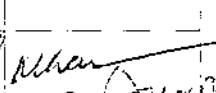

Subject: Contract Package TP- III "Under Greater Karachi Sewerage
Plan S-III Project"

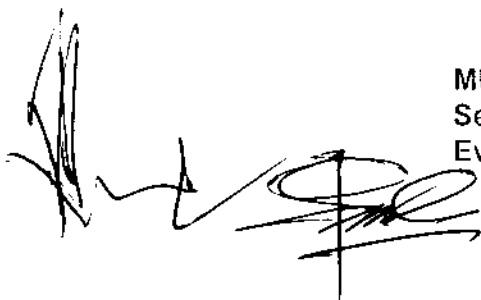
BID EVALUATION COMMITTEE


ATTENDANCE SHEET

NAME	DESIGNATION	SIGNATURE
Mr. Owais Malik	Chief Engineer Convener / Member	
Mr. Qaiser Ali	Superintending Engineer Member	 26/5/14
Mr. S. M. Yahya	Director Labs. Env. Dept GOS (Member)	
Mr. Fahim Junejo	D.G (M&E), LG (GOS) Member	
Mr. Maqsood Shaikh	S.E (KMC) Member	 26/5
Mr. Sardar Shah	Project Manager Member	 26/5/14
Mr. Ayaz Tunio	Dy. Project Manager Member	 0850pm 26/5/14
Mr. Naveed Jabbar	A/c. Officer Member	
Mr. Mukhtiar Samtio	Executive Engineer Secretary	

Bidders / Participants

Name of Representative	Firm / Company	Designation	Signature
Mr. S. Mukherjee	M/s. Pak Oasis Industries	Director-Technical	
S. M. Raza Nagvi		Commercial Manager	
Mr.			
Mr.	M/s.		
Mr.	M/s.		
Mr.	M/s.		
Mr.	M/s.		
Mr.	M/s.		
Mr.	M/s.		
Mr.	M/s.		
Mr.	M/s.		




MUKHTIAR SAMTIO
 Secretary / Member
 Evaluation Committee

Letter of Price Bid

Bid Reference No. Sewage Treatment Plant TP-III, Mauripur, Karachi
 (Name of Contract / Works)

To:

Project Director S III
K.W.S.B.
9th Mile office, Shalimar-e-Fair

[Handwritten signature]
[Handwritten initials]

1. Having examined the bidding documents including Instructions to Bidders, Bidding Data, and Conditions of Contract, Specifications, Drawings and Bill of Quantities and Addenda Nos.

_____ for the execution of the above-named work, we/I, the undersigned, offer to execute and complete the work and remedy any defects therein in conformity with the Conditions of Contract, Specifications, Drawings, Bill of Quantities and Addenda for the sum of Rs. 7,898,719,121/-

(Rupees Seven Billion Eight Hundred Ninety Eight Million Seven Hundred Nineteen Thousand One or such other sum as may be ascertained in accordance with the said conditions. *Hundred Twenty One Only*)

2. We/I understand that all the Appendices attached hereto form part of this bid.

3. We agree to permit Employer or its representative to inspect our accounts and records and other documents relating to the bid submission and to have them audited by auditors. This permission is extended for verification of any information provided in our Technical Bid which comprises all documents enclosed herewith in accordance with IB.11.1 of the Bidding Data Sheet.

4. We/I undertake, if our bid is accepted, to commence the works and to complete the whole of the works comprised in the contract within the time stated in Appendix-A to Bid.

5. We/I agree to abide by this bid for the period of 120 days from the date fixed for opening the same and it shall remain binding upon us and may be accepted at any time before the expiration of that period.

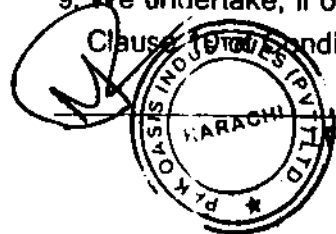
6. Unless and until a formal Agreement is prepared and executed, this bid, together with your/writer acceptance thereof, shall constitute a binding contract between us.

7. We do hereby declare that the bid is made without any collusion, comparison of figures or arrangement with any other bidder for the works.

8. We understand that you are not bound to accept the lowest or any bid you may receive.

9. We undertake, if our/my bid is accepted, to execute the Performance Security referred to in Clause 19 of the Conditions of Contract for the due performance of the Contract.

[Handwritten signature]





LPB-1 (TP-III): Sewage Treatment Plant at Mauripur - Karachi

NADEEM AHMED
 Executive Engineer
 (E&M-MSTP-III) S-III
 K.W & S.B

10. We confirm, if our bid is accepted, that all partners of the joint venture shall be liable jointly and severally for the execution of the Contract and the composition or the constitution of the joint venture shall not be altered without the prior consent of the procuring agency.
(Please delete this in case of Bid form a single bidder)


In the capacity of _____ duly authorized to sign Bids for and on behalf of

Dated this 5 day of May 2014

Signature: 
PAK OASIS INDUSTRIES (PVT) LTD
(Name of Bidder Block Capitals)
(Seal) 

Address: _____

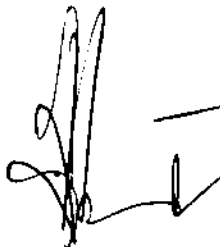
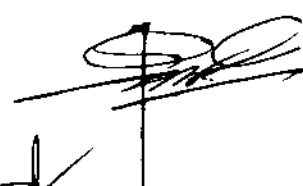
Witness:

Signature: 
Name: Syed Mubaram Saeed

Address: _____

Occupation: _____


NADEEM AHMED
Executive Engineer
(E&M-MSTP-III) S-III
K.W & S.B



KARACHI WATER & SEWERAGE BOARD



CONTRACT PACKAGE STP - 3

PROJECT:

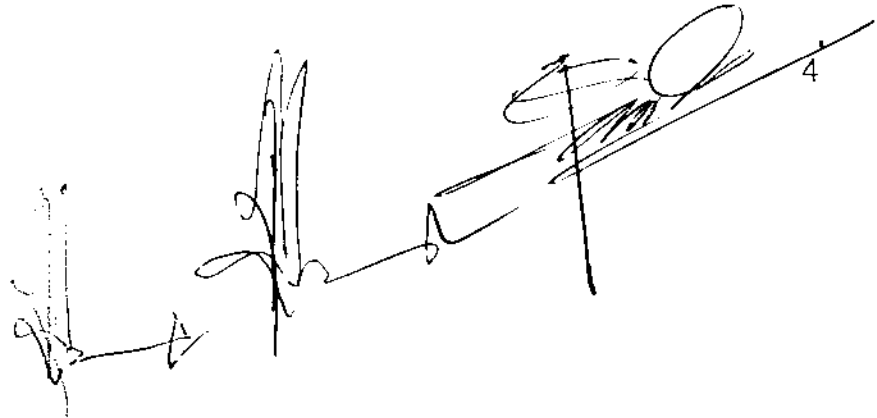
UP-GRADATION AND EXPANSION OF
TREATMENT PLANT TP-III, AT
MAURIPUR, KARACHI UNDER S-III
PROJECT

FINANCIAL EVALUATION REPORT

JULY, 2014

FINANCIAL EVALUATION REPORT TP-III
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KARACHI WATER & SEWERAGE BOARD

UP-GRADATION AND EXPANSION OF TREATMENT PLANT TP-III, AT MAURIPUR KARACHI UNDER S-III PROJECT

1. INTRODUCTION

- 1.1 Karachi with an ever-increasing population that currently stood at around 20 million, is facing a severe sanitation crisis; unhygienic conditions at Sea Coast, Clogged Nullahs, Blocked Drains, and broken up Main Trunk Sewers and out of order Treatment Plants. The current disposal system lacks treatment facilities and requires conveyance network for the sewage to divert it to the treatment plant which are currently being disposed off into coastlines of Karachi City, untreated and thereby causing serious threats to marine life and port operations.
- 1.2 In order to deal with the above stated condition Karachi Water & Sewerage Board (KW&SB) initiated a program for the implementation of Greater Karachi Sewerage Plan (S-III), which includes the Construction of Interceptor sewers along Malir and Lyari Rivers on both sides from outfall of sea to city limits and diverting the generated sewage flows from these rivers to treatment plants including capacity enhancement of existing and construction of new sewage treatment plants at Lyari and Malir River basins.
- 1.3 The subject tender evaluation report is pertaining to Contract Package STP-III upgradation and expansion of treatment plant, TP-III at Mauripur Karachi under S-III Project.

2. BIDDING PROCESS

- 2.1 The Bids were invited through leading National Newspapers published on 2nd January, 2014 and in International Newspapers published on 19th March, 2014 on the basis of Lowest Evaluated Responsive Bid (LERB). In accordance with Clause 46 (2) of SPPRA Rules – 2010.
- 2.2 **Numbers of Firms to Whom Tenders Documents Were Sold:**
Ten (10) Nos. Tenders Documents were sold to the tenders, till last extend date advertised in Corrigendum No.4.



3 BID SUBMISSION AND OPENING:

3.1 Bid Submission Deadline:

The deadline was fixed on 5th May, 2014 by 1400 Hrs.

3.2 Bid Opening:

Out of Ten Numbers issued bid documents, Only one Tender was received and opened (technical proposals) by the tender opening and evaluation committee on 5th May, 2014 at 14:30 Hrs, in the presence of the representative of the participating firms, the following firms submitted their bids.

a) M/s. Pak Oasis Industries (Pvt) Limited.

3.4 Bid Validity Period:

According to terms and conditions of the contract the validity period of bid was fixed as 120 days from the deadline for submission of tender, being I.C Bidding.

3.5 Bid Price Announced

The bid prices were announced in the presence of the representatives of the participating firm.

The summary of announced price is given in table and is also indicated herein

(Rs. In millions)

Sr. No.	TENDER	AMOUNT
1	M/s. Pak Oasis Industries	Rs.7,898,719,121/=

4. PRELIMINARY EXAMINATION OF TENDERS:

The preliminary examination of tenders was made to identify and reject the bids of that were incomplete, invalid or substantially non-responsive to the bidding documents. These following checks have been applied :

a) Verification:

- Is the bid properly signed?
- If the bidders are a joint venture, agreement is submitted.
- Documentary evidence of authority to sign the bid.

b) Eligibility:

- Is the bidder has been qualified at stage – I?

c) Bid Security:

- Is the required bid security submitted?



ii) Is the bid security valid upto required period?

d) **Substantial Responsiveness to Tender Documents:**

Is the bid substantially responsive to the requirements of the tender documents without material deviation or reservation? A material deviation is one (1) which effects in any substantial way the scope quality of performance work (2) which limits in any substantial way in consistent with the tender documents, the employers rights or the tenders obligation under the contract or (3) adoption whereof would affect unfairly the competitive positions of the other tenders presenting substantially responsive tenders.

4.1 **M/s. Pak Oasis Industries (Pvt) Limited:**

a) **Verification:**

- i) The bid is properly signed and stamped.
- ii) N.A.
- iii) Documentary evidence of authority to sign the bid is attached.

b) **Eligible:**

They are eligible to participate in the tender, as their technical proposals have been accepted at stage-1.

c) **Bid Security:**

They have submitted Bid Security in shape of Bank Guarantee No. LG No.14900100001846 dated 2nd May, 2014 from J.S Bank, Shaheen Complex Branch amounting to Rs.50,000,000/- and valid upto 5th October 2014.

The authenticity of the subject Bank Guarantee may be verified by KW&SB.

d) **Substantial Responsiveness to Tender Requirements:**

No material deviation or reservations were notified in the bid.

5. **DETAILED EXAMINATION OF TENDER:**

5.1 **Arithmetical Check:**

The Bill of Quantities (BOQ) of each substantially responsive bidder has been checked arithmetically and minor mistakes have been corrected and implemented accordingly.

&!)% %



5.2 Review of Item Rate:

A detailed comparative statement of substantially responsive bids with Engineer's Estimate (excluding provisional sum and 5% Physical contingencies) has been made and is presented in Annexue-1 of this report. A summary of comparative study is reflected in Table – 8.

It will be seen from Table – 8 that:

- M/s. Pak Oasis Industries (Pvt) Limited has quoted a total price of Rs.7,897,436,924, which is 14.27 % above the Engineer's Estimate.

Since M/s. Pak Oasis Industries (Pvt) Limited has secured the 1st lowest evaluated position at 14.27% above the Engineer's Estimate, their quoted rates for the items of work, which make the significant financial impact, have been examined in detail.

6. DETERMINATION OF AWARD:

In view of the position as stated in this report the lowest evaluated responsive bid of M/s. Pak Oasis Industries (Pvt) Limited can be considered for acceptance and in this regard financial concurrence of contract Cost may be sort out from available funds for the project.

7. RECOMMENDATIONS:

The price quoted by M/s. Pak Oasis Industries (Pvt) Limited is Rs.7,897,436,924. Which is 14.27% above the Engineer's Estimate and being the lowest and single bidder, they can be considered for the contract and competent authority may offer letter of acceptance subject to approvals of authorities.

8. CONCLUSION:

The recommendations made in this report are subject to the availability of required funds for the expenditure incurred in the proposed Contract Package of STP-III under S-III Project.

!#\$ %

TABLES 1 TO 8

TABLE 1. IDENTIFICATION

1.1. Name of Project	Greater Karachi Sewerage Plan (S-III)
1.2. Employer a) Name b) Address	a) Karachi Water & Sewerage Board b) Block 'D', 9 th Mile Karsaz, Shakra-e-Faisal, Karachi.
1.3. Contract number (Identifications)	Contract Package STP-III
1.4 Contract Description	Up-Gradation and expansion of Treatment Plant-III at Mauripur, Karachi under S-III Project.
1.5 Engineer's Cost Estimate (S)	Rs. 6911183,308/-
1.6 Method of Procurement	ICB One stage two envelopes.
1.7 Fixed price contract	Yes



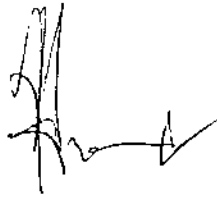


TABLE2. BIDDING PROCESS

2.1 Prequalification, carried out a) Number of firms qualified	N/A
2.2 Procurement / Tender Notice a) Name of National Newspaper b) Issue date c) Number of Individual firms / JVs notified	N/A
2.3 Standard Bidding Document a) Title, publication date b) Date of issue to bidders	2 nd January, 2014 (Local) and 22 nd March, 2014(International) From date of Publications
2.4 Number of firms to whom document issued	Nine (09)
2.5 Amendments to documents, if any a) List all amendments	Attached at Annexure-I
2.6 Date of Pre-Bid conference, if any	14 th April, 2014
2.7 Date of minutes of conference sent to bidders	17 th April, 2014

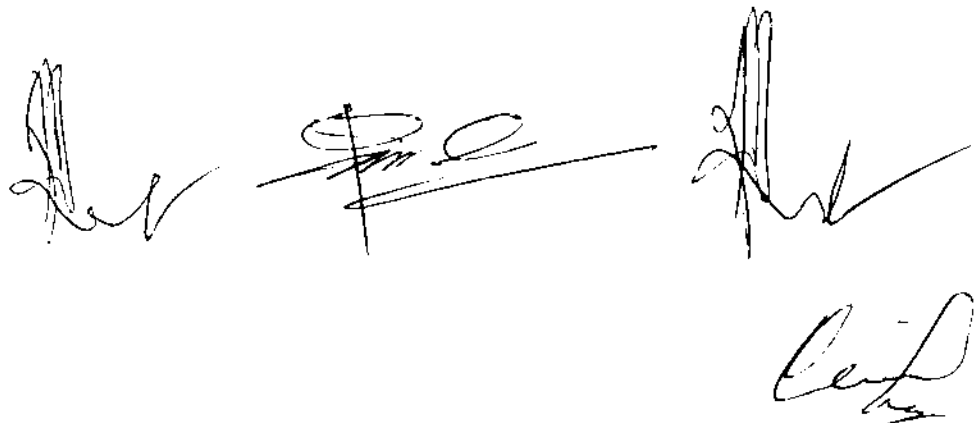


TABLE 3. BID SUBMISSION AND OPENING

3.1 Bid submission deadline a) Original date, time b) Extension, if any	5 th May, 2014, 1400 Hrs Four (04) times
3.2 Bid opening date, time (Actual)	5 th May, 2014, 1430 Hrs
3.3 Number of bids submitted	One (01) No
3.4 Bid validity period (days, weeks or months) a) Originally specified b) Extension, if any	120 days after the date of Tender Opening Nil.

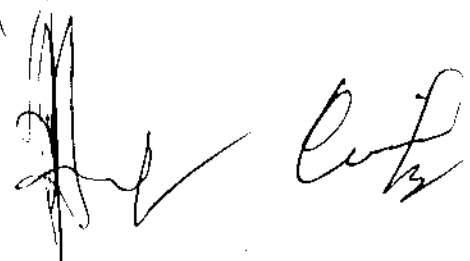
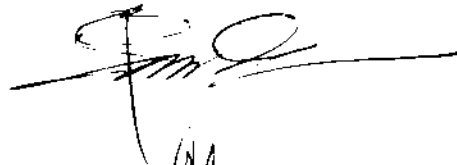
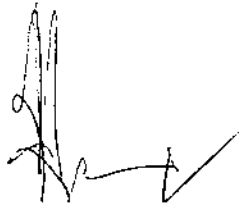


TABLE 4. SUMMARY OF BID PRICES (AS READ ONLY)

Sr. No.	Bidder Identification	Read out Bid Prices (Pak Rupees)		Modification or Comments
	Bidder Identification (a)	Amount Rs. (b)	Rebate / Premium if any (c)	
1	M/s. Pak Oasis Industries (Pvt.) Ltd.	Rs. 7898,719,121/-	NIL	NIL










TABLE 5. PRELIMINARY EXAMINATION

BIDDER	VERIFICATION 1. Properly signed 2. Joint Venture Agreement Submitted 3. Evidence of authority to sign	ELIGIBILITY 1. Prequalified 2. Affiliated with a consulting services firm	BID SECURITY (in the form of Pay Order / Bank Guarantee / Insurance Guarantee Amount in Rupees	SUBSTANTIAL Responsiveness to Tender Requirements	ACCEPTANCE for Detailed Examination
(a)	(b)	(c)	(d)	(e)	(f)
M/s. Pak Oasis Industries (Pvt.) Ltd.	1. Yes 2. N.A. 3. Yes	1. Yes (stage-I) 2. No	Bank Guarantee for Rs. 40 Million	Fonud No Material reservation's or Deviations	Yes

TABLE 6. CORRECTIONS AND UNCONDITIONAL DISCOUNTS

Sr. No.	Bidder	Read-out Bid Price (\$)		
		Amount (S) Rs.	Discount / Premium of any	Amount after discount / premium
	(a)	(b)	(c)	(d)
1.	M/s. Pak Oasis Industries (Pvt.) Ltd.	Rs. 7898,719,121/-	Nil	Rs. 7898,719,121/-






TABLE 7. ADDITIONS, ADJUSTMENTS, AND PRICED DEVIATIONS

Specify Evaluation Currency: Pak Rupees

Sr. No.	Bidder	Corrected / Discounted Bid Price Rs.	Additions	Adjustments	Priced Deviations	Total Price Rs.
	(a)	(b)	(c)	(d)	(e)	(f) = (b) + (c) + (d) + (e)
1	M/s. Pak Oasis Industries (Pvt.) Ltd.	Rs. 7897,436,924/-	-	-	-	Rs. 7897,436,924/-

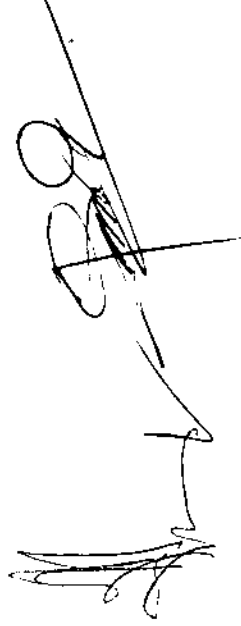


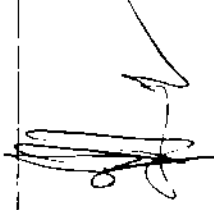




TABLE 8. SUMMARY OF COMPARATIVE COST

(Excluding Provisional Sum and Contingencies)

Sr. No.	Name of Contractor	Cost as per Engineer's Estimate Less Provisional (a)	Quoted Price (Rs.) By Contractor Including Discount / Rebate (b)	Quoted Price (Rs.) By Contractor Less Rebate (if any), Provisional (c)	Difference B/W Engineer's Estimate (Rs.) d = c-a E= (d/a)x100 14.27%

ANNEXURE

**UP-GRADATION AND EXPANSION OF TREATMENT PLANT-III AT MAURIPUR, KARACHI UNDER S-III-
PROJECT**

COMPARATIVE STATEMENT

BILL NR	TITLE	ENGINEER'S STATEMENT	M/S. PAK OASIS INDUSTRIES (Pvt.)
1	ITEM NO 1 TO 4	Rs. 5845,657,730/-	Rs. 6784,905,999/-
2	GENERAL WORKS	Rs. 146,944,402/-	Rs. 133,262,500/-
3	DAY WORKS	Rs. 15,397,209/-	Rs. 38,200,000/-
4	OPERATION & MAINTENANCE	Rs. 574,080,000/-	Rs. 565,000,000/-
	SUB TOTAL 1 TO 4	Rs. 6582,079,341/-	Rs. 7521,368,499/-
	5% PHYSICAL CONTINGENCIES FOR VARIATION / EXTRA WORK INSTRUCTED BY THE ENGINEER	Rs. 329,103,967/-	Rs. 376,068,425/-
	TOTAL	Rs. 6911,183,308/-	Rs. 7897,436,924/-
	Less 5% Physical Contingencies	Rs. 329,103,967/-	Rs. 376,068,425/-
	Less Provisional Sum	Rs. 1000,000,-	Rs. 1000,000,-
	Sub Total	Rs. 6581,079,341/-	Rs. 7520,368,499/-
	Percentage of Rebate, If any	Nil	Nil
	Amount of Rebate	Nil	Nil
	Total After Rebate	Rs. 6581,079,341/-	Rs. 7520,368,499/-
	% Variation from Engineer's Estimate	-	14.27%

**CONTRACT PACKAGE TP-III UPGRADATION AND EXPANSION OF SEWAGE TREATMENT
PLANT AT MAURIPUR, KARACHI!**

**CONTRACT PACKAGE TP-III
COMPARATIVE ESTIMATE
SUMMARY**

SR. NO.	TITLE	ENGINEER'S ESTIMATE	M/S. PAK OASIS IND.	% Above / Below
1	CIVIL WORKS	2,907,393,555	3,064,113,274	5.39
2	CIVIL RESTORATION WORKS	474,753,000	429,634,300	-9.50
3	ELECTRIC WORKS	869,925,940	962,403,925	10.63
4	MECHANICAL WORKS	1,593,585,235	2,328,754,500	46.13
5	GENERAL WORKS	146,944,402	133,262,500	-9.31
6	DAY WORKS	15,397,209	38,200,000	148.10
7	OPERATION AND MAINTENANCE	574,080,000	565,000,000	-1.58
	TOTAL 1 TO 7	6,582,079,341	7,521,368,499	14.27
	5% PHYSICAL CONTINGENCIES FOR VARIATION / EXTRA WORK INSTRUCTED BY THE ENGINEER	329103967	376068425	14.27
	GRAND TOTAL OF ENGINEER'S ESTIMATE	6,911,183,308	7,897,436,924	14.27





CONTRACT PACKAGE TP-III UPGRADE AND EXPANSION OF SEWAGE TREATMENT

PLANT AT MAURIPUR, KARACHI

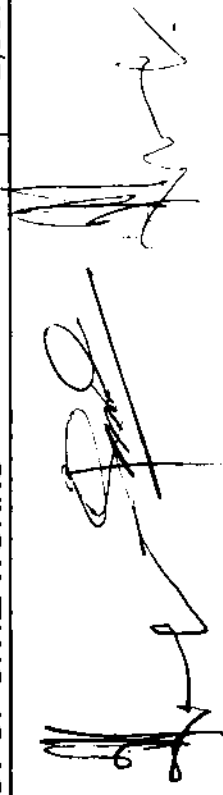
CONTRACT PACKAGE TP-III

COMPARATIVE ESTIMATE

SUMMARY OF COST - CIVIL

SR. NO.	TITLE	ENGINEER'S ESTIMATE	M/S. PAK OASIS IND.	% Above / Below
1	GEOTECHNICAL INVESTIGATION	2,500,000	10,050,000	302.00
2	COARSE SCREEN	29,823,435	35,339,471	18.50
3	WASTE WATER PUMPING STATION	125,483,106	152,889,995	21.84
4	SECONDARY PUMPING STATION	50,730,429	61,205,273	20.65
5	COMMON INFLUENT CHAMBER	53,977,789	64,933,568	20.30
6	FINE SCREEN CHAMBER	19,336,662	25,004,780	29.31
7	GRIT CHAMBER	39,762,070	50,331,195	26.58
8	DISTRIBUTION PIT 01	5,412,886	6,522,420	20.50
9	PRIMARY SEDIMENTATION TANK	255,736,236	333,112,905	30.26
10	JUNCTION PIT 01	4,854,837	5,687,318	17.15
11	DISTRIBUTION PIT 02 & B	16,874,178	20,834,418	23.47
12	TRICKLING FILTERS	1,225,785,223	663,111,257	-45.90
13	DISTRIBUTION PIT 03 A & B	7,420,037	8,048,178	8.47
14	HUMUS TANKS	362,153,204	474,321,012	30.97
15	PRIMARY SLUDGE PUMPING ROOM	5,864,513	6,313,622	7.66
16	HUMUS SLUDGE PUMPING ROOM "A"	5,232,218	5,514,374	5.39
17	HUMUS SLUDGE PUMPING ROOM "B"	3,328,617	3,499,540	5.13
18	THICKENED SLUDGE PUMPING ROOM	5,153,268	5,419,374	5.16
19	PICKET FENCING THICKENERS	78,477,528	100,779,643	28.42
20	SLUDGE DIGESTERS	127,217,190	161,486,896	26.94
21	DIGESTED SLUDGE PUMPING ROOM	5,559,764	5,948,505	6.99
22	DRAINAGE PUMPING STATION	3,889,645	4,395,874	13.01

SR. NO.	TITLE	ENGINEER'S ESTIMATE	M/S. PAK OASIS IND.	% Above / Below
23	SLUDGE TRANSFER STATION	2,676,502	2,867,068	7.12
24	SLUDGE DRYING BEDS	169,876,920	291,711,584	71.72
25	MAIN PUMPING STATION POWER HOUSE	9,404,992	8,889,320	-5.48
26	TREATMENT PLANT POWER HOUSE	14,784,650	18,650,919	26.15
27	SUB-STATION 01	8,094,146	7,592,474	-6.20
28	SUB-STATION 02	4,832,657	4,391,208	-9.13
29	SUB-STATION 03	4,617,829	4,184,789	-9.38
30	PIPES & FITTINGS	166,310,632	361,428,864	117.32
31	STROM WATER DRAINAGE NETWORK	16,057,993	30,615,860	90.66
32	ROAD WORKS	76,164,402	125,031,600	64.16
	TOTAL COST OF CIVIL WORKS	2,907,393,558	3,060,113,304	5.25




CONTRACT PACKAGE TP-III UPGRADATION AND EXPANSION OF SEWAGE TREATMENT

PLANT AT MAURIPUR, KARACHI

CONTRACT PACKAGE TP-III

COMPARATIVE ESTIMATE

SUMMARY OF COST - CIVIL (REHABILITATION)

SR. NO.	TITLE	ENGINEER'S ESTIMATE	M/S. PAK OASIS IND.	% Above / Below
1	COARSE SCREEN CHAMBER	1,051,000	1,773,000	68.70
2	MAIN PUMPING STATION	1,275,000	1,602,500	25.69
3	FINE SCREEN CHAMBER	650,000	1,321,500	103.31
4	DETRITORS	4,080,000	9,212,000	125.78
5	INLET CHANNEL ANAEROBIC LAGOONS	1,301,500	2,876,500	121.01
6	ANEROBIC LAGOONS	71,460,000	85,630,000	19.83
7	OUTLET CHANNEL ANAEROBIC LAGOONS	1,478,500	3,700,500	150.29
8	FACULTATIVE PONDS	391,200,000	318,850,000	-18.49
9	SECONDARY PUMPING STATIONS	1,352,500	2,505,000	85.21
10	SECONDARY PUMPING STATIONS PANEL ROOMS	535,000	1,374,000	156.82
11	INLET WORKS SUB -STATION	369,500	789,800	113.75
	TOTAL COST OF CIVIL REHABILITATION	474,753,000	429,634,800	-9.50

**CONTRACT PACKAGE TP-III UPGRADATION AND EXPANSION OF SEWAGE TREATMENT
PLANT AT MAURIPUR, KARACHI**

**CONTRACT PACKAGE TP-III
COMPARATIVE ESTIMATE
SUMMARY OF COST (ELECTRICAL)**

SR. NO.	TITLE	ENGINEER'S ESTIMATE	M/S. PAK OASIS IND.	% Above / Below
1	MAIN PUMPING STATION POWER HOUSE	74,784,860	78,852,600	5.44
2	TREATMENT PLANT POWER HOUSE	456,737,190	401,702,100	-12.05
3	SUB-STATION - I	26,941,040	39,939,300	48.25
4	SUB-STATION - II	12,319,110	24,105,100	95.67
5	SUB-STATION - III	7,238,700	15,019,000	107.48
6	SUB-STATION FOR SECONDARY PUMPING STATION (EXISTING FROM I TO VI)	64,021,620	63,219,600	-1.25
7	SUB-STATION FOR INLET WORKS (EXISTING)	7,353,080	14,903,375	102.68
8	MAIN PUMPING STATION (EXISTING)	4,991,370	13,644,500	173.36
9	WASTE WATER PUMPING STATIONS	1,353,210	3,223,700	138.23
10	SECONDARY PUMPING STATIONS (EXISTING FROM I TO VI)	2,434,500	6,144,000	152.37
11	SECONDARY PUMPING STATION	744,870	1,857,650	149.39
12	PRIMARY SLUDGE PUMPING ROOMS (FROM I TO II)	311,480	876,000	181.24
13	HUMUS SLUDGE PUMPING ROOMS (FROM I TO II)	328,080	943,000	187.43
14	HUMUS SLUDGE PUMPING ROOMS (FROM III TO IV)	332,820	883,000	165.31
15	THICKENED SLUDGE PUMPING ROOM	155,740	451,500	189.91
16	DIGESTED SLUDGE PUMPING STATION	164,040	477,500	191.09
17	DRAINAGE PUMPING STATION	145,830	455,500	212.35
18	SLUDGE TRANSFER STATION	154,570	455,500	194.69
19	EXTERNAL AREA WORKS	209,413,830	295,703,000	41.21
	TOTAL COST OF ELECTRICAL WORKS	869,925,940	962,855,925	10.68

CONTRACT PACKAGE TP-III UPGRADATION AND EXPANSION OF SEWAGE TREATMENT

PLANT AT MAURIPUR, KARACHI

CONTRACT PACKAGE TP-III

COMPARATIVE ESTIMATE

SUMMARY OF MECHANICAL COST

SR. NO.	TITLE	ENGINEER'S ESTIMATE	M/S. PAK OASIS IND.	% Above / Below
1	MANUALLY CLEANED MECHANICALLY OPERATED COARSE SCREENS	33,113,117	38,200,000	15.36
2	MECHANICALLY CLEANED MECHANICALLY OPERATED RAKED TYPE FINE SCREENS	50,003,272	83,532,000	67.05
3	STANDBY MANUALLY CLEANED FINE SCREENS	9,770,147	14,400,000	47.39
4	WASTE WATER PUMPING STATIONS (NEW)	229,020,763	389,899,500	70.25
5	WASTE WATER PUMPING STATIONS (EXISTING)	46,807,960	15,640,000	-66.59
6	SECONDARY WASTE WATER PUMPING STATION (NEW)	225,244,696	196,610,000	-12.71
7	SECONDARY WASTE WATER PUMPING STATION (EXISTING)	475,101,746	539,678,000	13.59
8	DRAINAGE PUMPING STATION	8,298,296	4,487,000	-45.93
9	DETRITORS FOR NEW TREATMENT WORKS	23,276,314	48,300,000	107.51
10	DETRITORS FOR EXISTING TREATMENT WORKS	39,180,942	78,600,000	100.61
11	DISTRIBUTION PIT # 1	1,929,963	7,200,000	273.06
12	PRIMARY SEDIMENTATION TANK	56,520,775	84,000,000	48.62
13	PRIMARY SLUDGE PUMPING ROOM	22,898,562	25,034,000	9.33
14	TRICKLING FILTERS	118,656,044	193,200,000	62.82
15	HUMUS TANKS	84,781,162	145,200,000	71.26
16	HUMUS SLUDGE PUMPING ROOM	24,758,157	35,636,000	43.94
17	PICKET FENCING THICKENER	34,239,738	42,000,000	22.66
18	THICKENED SLUDGE PUMPING ROOM	8,307,719	12,350,000	48.66
19	SLUDGE DIGESTERS	14,463,554	165,000,000	1040.80

SR. NO.	TITLE	ENGINEER'S ESTIMATE	M/S. PAK OASIS IND.	% Above / Below
20	DIGESTED SLUDGE PUMPING ROOM	11,638,528	17,076,000	46.72
21	SLUDGE TRANSFER STATION	8,124,057	11,464,000	41.11
22	SLUDGE DRYING BEDS	3,800,472	3,320,000	-12.64
23	POWER HOUSE	11,031,119	17,500,000	58.64
24	FLOW METERS	15,391,200	46,080,000	199.39
25	BIOGAS FLARE	2,500,000	22,500,000	800.00
26	HYDRAULIC MODELING	3,000,000	20,250,000	575.00
27	COMMON INLET CHAMBER	24,226,932	62,598,000	158.38
	TOTAL (A)	1,586,085,235	2,319,754,500	46.26

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SUMMARY OF PROVISIONAL SUMS

SR. NO.	TITLE	ENGINEER'S ESTIMATE	M/S. PAK OASIS IND.	% Above / Below
1	INSPECTION OF WASTE PUMPS (3 NOS.) INSTALLED IN EXISTING MAIN PUMPING STATION BY THE	7,500,000	9,000,000	20.00
	TOTAL (B)	7,500,000	9,000,000	20.00

GRAND SUMMARY (MECHANICAL WORKS)

SR. NO.	TITLE	ENGINEER'S ESTIMATE	M/S. PAK OASIS IND.	% Above / Below
1	SUMMARY OF MECHANICAL COST TOTAL (A)	1,586,085,235	2,319,754,500	46.26
2	SUMMARY OF PROVISIONAL SUMS TOTAL (B)	7,500,000	9,000,000	20.00
	TOTAL COST OF MECHANICAL WORKS (A+B)	1,593,585,235	2,328,754,500	46.13

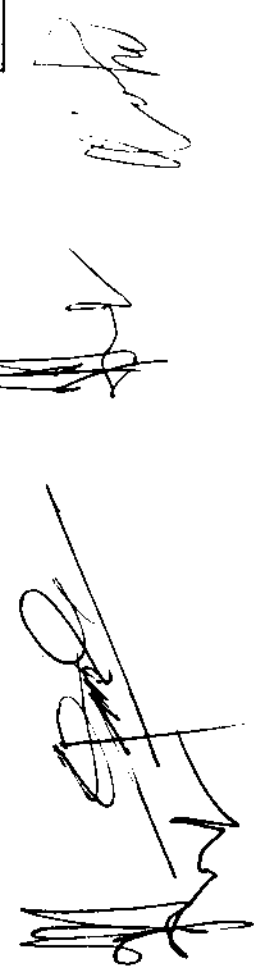
**CONTRACT PACKAGE TP-III UPGRADATION AND EXPANSION OF SEWAGE TREATMENT PLANT
AT MAURIPUR, KARACHI
COMPARATIVE ESTIMATE
BILL NO. 5: GENERAL WORKS**

Sr.No.	ITEMS OF WORKS	ENGINEER'S ESTIMATE	M/S. PAK OASIS IND.	% Above / Below
1	Provide and maintain Temporary containerized furnished Site Office (Area minimum 200 Sq.Mt) with the provision of electricity, telephone, Gas, Water and Drainage sysem including the payment of all taxes and utility bills with separate toilet facility, all as specified or as directed by the Engineer.	8,100,000	10,800,000	33.33
2	Provide furniture, fixtures and equipment, all as specified or as directed by the Engineer, for Temporary Site Office. (The furniture, fixtures and equipment shall become property of the Employer after completion of the project).	750,000	2,364,165	215.22
3	Maintain all specified furniture, fixtures and office equipment alongwith regular supplies of office stationery and consumables including janitorial services of Temporary Site Office.	12,322,800	2,700,000	-78.09
4	Maintain CRE Office's furniture, fixtures and office equipment alongwith regular supplies of office stationery and consumables including janitorial services (Provisional Quantity).	5,400,000	4,107,600	-23.93
5	Provide Assistance to Engineer's Support Staff as stated in specification:			
	(i) Site Office Staff	14,040,000	5,744,700	-59.08
	(ii) Survey Staff with equipment.	10,800,000	16,813,080	55.68
	(iii) Laboratory Staff with Tra	7,200,000	12,151,680	68.77

Sr.No.	ITEMS OF WORKS	ENGINEER'S ESTIMATE	M/S. PAK OASIS IND.	% Above / Below
6	<p>Providing and making available at all times vehicles, including comprehensive insurance and registration etc. for use of the Engineer and his staff and employer in accordance with the specifications and as directed by the Engineer. (The vehicle shall become property of the Employer after completion of the project).</p>			
	(a) Toyota VIGO Champ G Model 2014 or equivalent	5,850,000	5,375,980	-8.10
	(b) Honda Civic Vti Oriol Prosmatec Transmission Model 2014 or equivalent.	3,600,000	2,704,650	-24.87
	(c) Honda City Aspire Prosmatec Petrol Engine with AC Model 2013 or equivalent.	3,300,000	2,489,840	-24.55
	(d) Suzuki Cultus VXRi EURO II Petrol Engine with AC Model 2014 or equivalent.	6,600,000	5,683,000	-13.89
	(e) Toyota Corolla 1.6 Gli Automatic with AC Model 2014 or equivalent.	2,752,500	2,644,830	-3.91
	(f) Suzuki Bolan VX EURO II Petrol Engine with AC Model 2014 or equivalent.	5,400,000	2,888,700	-46.51
	(g) Toyota Hiace commuter Dual AC 3.0 L Model 2014 or equivalent.	3,000,000	5,582,553	86.09
	(h) Motorbike Honda CD 70 Petrol Engine Model 2014 or equivalent.	240,000	201,000	-16.25
7	Maintenance of vehicles including Driver and P.O.L provided under item No. 2/8(a).	5,400,000	4,817,160	-10.79
8	Maintenance of vehicles including Driver and P.O.L provided under item No. 2/8(b).	4,050,000	3,970,800	-1.96
9	Maintenance of vehicles including Driver and P.O.L provided under item No. 2/8(c).	3,510,000	3,970,800	13.13

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Sr.No.	ITEMS OF WORKS	ENGINEER'S ESTIMATE	M/S. PAK OASIS IND.	% Above / Below
10	Maintenance of vehicles including Driver and P.O.L provided under item No. 2/8(d).	3,510,000	15,883,200	352.51
11	Maintenance of vehicles including Driver and P.O.L provided under item No. 2/8(e).	3,510,000	3,970,800	13.13
12	Maintenance of vehicles including Driver and P.O.L provided under item No. 2/8(f).	10,530,000	11,912,400	13.13
13	Maintenance of vehicles including Driver and P.O.L provided under item No. 2/8(g).	3,510,000	5,840,424	66.39
14	Maintenance of motorbikes including Driver and P.O.L provided under item No. 2/8(h).	2,160,000	1,704,240	-21.10
15	Location and protection of all public utility services encountered with in the works during the contract period including Telephone Cables, Water Supply Lines, Sewers, Drains, Gas Pipelines, Oil refiner line and Power Cables.	6,000,000	2,000,000	-66.67
16	Provisional sum for payment to utility agencies for relocation and / or their supervision charges where required.	1,000,000	1,000,000	0.00
TOTAL		122,912,500	146,944,402	19.55






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CONTRACT I PACKAGE TP-III UPGRADEATION AND EXPANSION OF SEWAGE
TREATMENT PLANT AT MAURIPUR, KARACHI
 CONTRACT PACKAGE TP-III
 COMPARATIVE ESTIMATE
 SCHEDULE OF DAY WORKS

SUMMARY

SR.NO.	TITLE	ENGINEER'S ESTIMATE	M/S. PAK OASIS IND.	% Above / Below.
1	Total for Daywork: Labour	22,000,000	1,124,500	-94.89
2	Total for Daywork: Material	22,000,000	8,617,709	-60.83
3	Total for Daywork: Construction Plants	14,000,000	5,655,000	-59.61
	Total for Dayworks	58,000,000	15,397,209	-73.45

CONTRACT PACKAGE TP-II UPGRADE AND EXPANSION OF SEWAGE

TREATMENT PLANT AT MAURIPUR, KARACHI

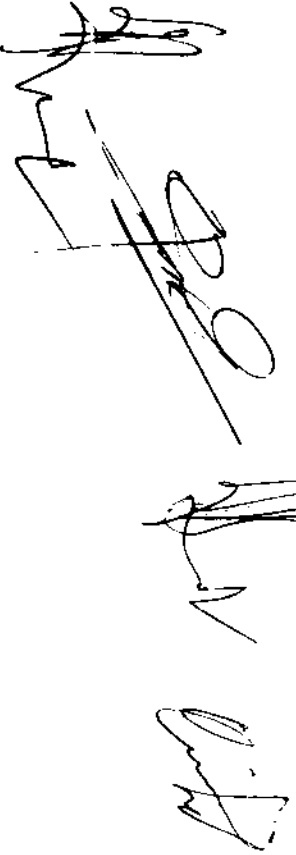
COMPARATIVE ESTIMATE

Bill No.7 (Operation and Maintenance)

Operation service for the Works (for specified Operation Service Period)

Sr. No.	Item Description	ENGINEER'S ESTIMATE	M/S. PAK OASIS IND.	% Above / Below
1	Providing Operation and Maintenance Services for the Works, for specified Operation Service period of 365 days, complete in all respects, in accordance with the Contract, including charges of electricity and other utilities.	565,000,000	574,080,000	1.61
	Total for Operation and Maintenance	565,000,000	574,080,000	1.61

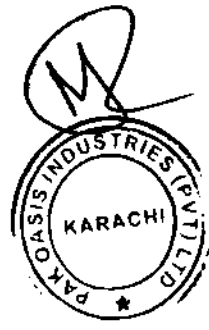
Note : The rate of electricity taken at Rs. 17.0 per KW



BILL OF QUANTITIES

nadeem

NADEEM AHMED
Executive Engineer
(E&M-MSTP-III) S-III,
K.W & S.B.



**CONTRACT PACKAGE TP-III: UPGRADATION AND EXPANSION OF SEWAGE
TREATMENT PLANT AT MAURIPUR, KARACHI**

**CONTRACT PACKAGE TP-III
BILL OF QUANTITIES
SUMMARY**

BILL NR	TITLE	AMOUNT
1	CIVIL WORKS	3064,113,274 /- 3,064,107,114/-
2	CIVIL RESTORATION WORKS	429,634,300/-
3	ELECTRICAL WORKS	962,403,925 /- 963,631,225/-
4	MECHANICAL WORKS	2,328,784,500/-
5	GENERAL WORKS	133,262,500/-
6	DAY WORKS	38,200,000/-
7	OPERATION AND MAINTENANCE	565,000,000/-
TOTAL 1 TO 7		7,521,368,499 /- 7,522,589,639 /-
5% PHYSICAL CONTINGENCIES FOR VARIATION/ EXTRA WORK INSTRUCTED BY THE ENGINEER.		376,068,425 /- 376,129,482 /-
7,897,436,924 /- GRAND TOTAL		7,898,719,121 /-

Amount in Words : *Seven Billion Eight Hundred Ninety Eight Million Seven Hundred Nineteen Thousand One Hundred Twenty One Only*

Total Carried to Letter of Price Bid :

SIGNATURE OF CONTRACTOR



[Handwritten Signature]



[Handwritten Signature]
NADEEM
Executive
(E&M)
KARACHI

CIVIL WORKS

NADEEM
NADEEM AHMED
Executive Engineer
(E&M-MSTP-W) S-111
K.W. & S.B.



BILL OF QUANTITIES (CIVIL WORKS)

SUMMARY OF COST - CIVIL (BILL No.1)

Sl. No.	Description	Quantity	Rate	Amount
1	Geotechnical Investigation			10,050,000/-
2	Coarse Screen			35,339,471/-
3	Wastewater Pumping Station			152,889,995/-
4	Secondary Pumping Station			61,205,273/-
5	Common Influent Chamber			64,933,568/-
6	Fine Screen Chamber			25,004,780/-
7	Grill Chamber			50,331,195/-
8	Distribution PI 01			6,522,420/-
9	Primary Sedimentation Tank			333,112,905/-
10	Junction PI 01	5687318		(5,681,338/-)
11	Distribution PI 02 A&B			20,834,418/-
12	Trickling Filters			667,111,227/-
13	Distribution PI 03 A&B			8,048,178/-
14	Humus Tanks			474,321,012/-
15	Primary Sludge Pumping Room			6,313,622/-
16	Humus Sludge Pumping Room "A"			5,514,314/-
17	Humus Sludge Pumping Room "B"	3499540		(3,499,360/-)
18	Thickened Sludge Pumping Room			5,419,374/-
19	Picket Fencing Thickeners			100,779,663/-
20	Sludge Digesters			166,486,896/-
21	Digested Sludge Pumping Room			5,948,505/-
22	Drainage Pumping Station			4,395,874/-
23	Sludge Transfer Station			2,867,068/-
24	Sludge Drying Beds			291,711,584/-
25	Main Pumping Station Power House			8,889,320/-
26	Treatment Plant Power House			18,650,919/-
27	Sub-Station 01			7,592,474/-
28	Sub-Station 02			4,391,208/-
29	Sub-Station 03			4,184,789/-
30	Pipes & Fittings			361,428,864/-
31	Storm Water Drainage Network			30,615,860/-
32	Road Works			125,031,600/-
	TOTAL			3,064,113,274/-

Grand Total (in Words) Three Billion Sixty Four Million One Hundred and Seven Thousand One Hundred Fourteen Only

Tenderer Name: PAK OASIS INDUSTRIES (PVT) LTD

Authorized Signatures: [Signature] 3064113274

Seal: [Seal]

6160

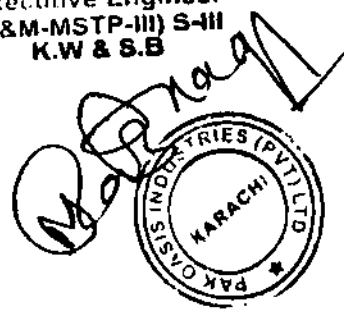
PAK OASIS INDUSTRIES (PVT) LTD KARACHI

NAI Executive Engineer (E&M-MSTP-III) S-II K.W & S.B.

CIVIL WORKS RESTORATION

Nadeem

NADEEM AHMED
Executive Engineer
(E&M-MSTP-III) S-II
K.W & S.B



BILL OF QUANTITIES (RESTORATION WORKS)
 SUMMARY OF COST - CIVIL RESTORATION (BILL No.2)

Sl. No.	DESCRIPTION	AMOUNT (RS)
1	COARSE SCREEN CHAMBER	1,773,000/-
2	MAIN PUMPING STATION	1,602,500/-
3	FINE SCREEN CHAMBER	1,321,000/-
4	DETRITORS	9,212,000/-
5	INLET CHANNEL ANAEROBIC LAGOONS	2,876,500/-
6	ANAEROBIC LAGOONS	22,039,000/-
7	OUTLET CHANNEL ANAEROBIC LAGOONS	3,700,500/-
8	FACULTATIVE PONDS	212,850,000/-
9	SECONDARY PUMPING STATIONS	2,505,000/-
10	SECONDARY PUMPING STATIONS PANEL ROOMS	1,374,000/-
11	INLET WORKS SUB-STATION	789,800/-
TOTAL		429,634,300/-

Grand Total (in Words) *Four Hundred Twenty Nine Million Six Hundred Thirty Four Thousand Three Hundred Only.*

Tenderer Name _____
 Authorized Signatures _____
 Seal _____



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MADHUM AHMEEF
 Executive Engineer
 (E&M-ASSTP-II) S-II
 K.W. & S.B



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ELECTRICAL WORKS

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NADEEM AHMED
Executive Engineer
(E&M-MSTP-III) S-II
K.W & S.B



SUMMARY OF COST - ELECTRICAL (BILL No.3)

876 795

Code	Description	Amount (Rupees)
01	MAIN PUMPING STATION POWER HOUSE	78,852,600/-
02	TREATMENT PLANT POWER HOUSE	40,702,100/-
03	SUBSTATION-I	39,939,300/-
04	SUBSTATION-II	24,105,100/-
05	SUBSTATION-III	15,019,000/-
06	SUBSTATIONS FOR SECONDARY PUMPING STATIONS (EXISTING FROM I TO VI)	63,219,600/-
07	SUBSTATION FOR INLET WORKS (EXISTING)	14,903,375/-
08	MAIN PUMPING STATION (EXISTING)	14,418,500/-
09	WASTEWATER PUMPING STATION	3,223,700/-
10	SECONDARY PUMPING STATIONS (EXISTING FROM I TO VI)	6,144,000/-
11	SECONDARY PUMPING STATION	1,226,000/-
12	PRIMARY SLUDGE PUMPING ROOMS (FROM I TO II)	1,857,650/-
13	HUMUS SLUDGE PUMPING ROOMS (FROM I TO II)	876,000/-
14	HUMUS SLUDGE PUMPING ROOMS (FROM III TO IV)	943,000/-
15	THICKENED SLUDGE PUMPING ROOM	883,000/-
16	DIGESTED SLUDGE PUMPING ROOM	458,500/-
17	DRAINAGE PUMPING STATION	477,500/-
18	SLUDGE TRANSFER STATION	455,500/-
19	EXTERNAL AREA WORKS	455,500/-
Total Cost of Electrical Works :		963,631,225/-

295703000

Grand Total (in Words) *Nine Hundred Sixty Three Million Six Hundred Thirty One Thousand Two Hundred Twenty Five only*

Name
Authorized Signatures



Signature of *M. S. Khan*
295703000

Seal



Signature of *M. S. Khan*
295703000

M. S. Khan
NADEEM AHMED
Executive Engineer
(E&M-MSTP-III) S-III
K.W & S.B

BOQ-ELECTRICAL WORKS (1 of 1)

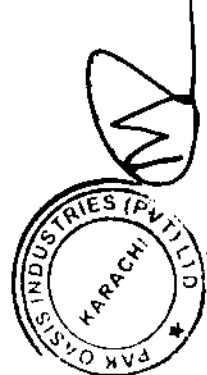
MECHANICAL WORKS

Nadeem
NADEEM AHMED
Executive Engineer
(E&M-MSTP-III) S-III
K.W & S.B

M. S. Khan
MSK INDUSTRIES (PVT) LTD
KARACHI

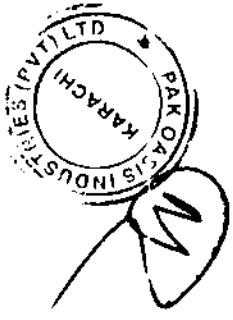
SUMMARY OF MECHANICAL COST (BILL No.4)

S. No.	Heads	Amount
1	MANUALLY CLEANED MECHANICALLY OPERATED COARSE SCREES	38,200,000/-
2	MECHANICALLY CLEANED MECHANICALLY OPERATED RAKED TYPE	83,532,000/-
3	STANDBY MANUALLY CLEANED FINE SCREENS	14,400,000/-
4	WASTEWATER PUMPING STATION (NEW)	389,899,500/-
5	WASTEWATER PUMPING STATION (EXISTING)	15,640,000/-
6	SECONDARY WASTEWATER PUMPING STATION (NEW)	196,610,000/-
7	SECONDARY WASTEWATER PUMPING STATION (EXISTING)	539,678,000/-
8	DRAINAGE PUMPING STATION	4,487,000/-
9	DETRITORS FOR NEW TREATMENT WORKS	48,300,000/-
10	DETRITORS FOR EXISTING TREATMENT WORKS	78,600,000/-
11	DISTRIBUTION PIT # 1	7,200,000/-
12	PRIMARY SEDIMENTATION TANK	84,000,000/-
13	PRIMARY SLUDGE PUMPING ROOM	25,034,000/-
14	TRICKLING FILTERS	193,200,000/-
15	HUMUS TANKS	145,200,000/-
16	HUMUS SLUDGE PUMPING ROOM	35,636,000/-
17	PICKET FENCING THICKENER	42,000,000/-
18	THICKENED SLUDGE PUMPING ROOM	12,350,000/-
19	SLUDGE DIGESTERS	165,000,000/-
20	DIGESTED SLUDGE PUMPING ROOM	17,076,000/-
21	SLUDGE TRANSFER STATION	11,464,000/-
22	SLUDGE DRYING BEDS	3,320,000/-
23	POWER HOUSE	17,500,000/-
24	FLOW METERS	46,080,000/-
25	BIOGAS FLARE	23,500,000/-
26	HYDRAULIC MODELING	20,250,000/-
27	COMMON INLET CHAMBER	62,598,000/-
	TOTAL (A)	2,319,754,500/-



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 EXECUTIVE DIRECTOR
 (E&M) & S.B.



Khadim
MANAGEMENT ENGINEER
Executive Engineer
(EQUIPMENT) S-III
K.W & S.B.

GENERAL WORKS



CONTRACT PACKAGE TP-III: UPGRADATION AND EXPANSION OF SEWAGE TREATMENT PLANT AT MAURIPUR, KARACHI

BILL OF QUANTITIES

BILL NO- 5 : - GENERAL WORKS

S.No.	ITEMS OF WORKS	UNIT	QUANTITY	RATE (Rs.)		AMOUNT (Rs.)
				FIGURE	WORDS	
1	Provide and maintain Temporary containerized furnished, Air conditioned Site Office (Area minimum 200 sq.m) with the provision of Electricity, telephone, Gas, water and drainage system including the payment of all taxes and utility bills. with separate toilet facility, all as specified or as directed by the Engineer.	month	36	225,000	Two lac twenty five thousand	8,100,000/-
2	Provide furniture, fixtures and equipment, all as specified or as directed by the Engineer, for Temporary Site Office. (The furniture, fixtures and equipment shall become property of the Employer after completion of the project).	Lump Sum	Job	750,000	seven lac fifty thousand	750,000/-
3	Maintain all specified furniture, fixtures and office equipment alongwith regular supplies of office stationary and consumables including janitorial services of Temporary Site Office. (36 months)	No.	1	2,700,000	Two lac seventy Two million seven hundred thousand	2,700,000/-
4	Maintain CRE Office's furniture, fixtures and office equipment alongwith regular supplies of office stationary and consumables including janitorial services (Provisional Quantity).	month	12	450,000	Four lac fifty thousand	5,400,000/-
5	Provide Assistance to Engineer's. Support staff as stated in specification. i) Site Office Staff ii) Survey Staff with equipment and transport. iii) Laboratory Staff with Transport.	month	36	390,000	Three lac ninety thousand	14,040,000/-
			36	300,000	Three lac	10,800,000/-
			24	300,000	Three lac	7,200,000/-
6	Providing, and making available at all times vehicles, including comprehensive Insurance and registration etc, for use of the Engineer and his staff and employer in accordance with the specifications and as directed by the Engineer. (The vehicle shall become property of the Employer after completion of the project). (a) Toyota VIGO CHAMP G Model 2014 or equivalent. (b) Honda Civic VTI Ortel Prosmatec Transmission Model 2014 or equivalent. (c) Honda City Aspire Prosmatec Petrol engine with AC Model 2013 or equivalent. (d) Suzuki Cultus VXRI EURO II Petrol engine with AC Model 2014 or equivalent.	No.	1	5,850,000	Five million Eight hundred fifty thousand	5,850,000/-
		No.	1	3,600,000	Three million six hundred thousand	3,600,000/-
		No.	1	3,300,000	Three million Three hundred thousand	3,300,000/-
		No.	4	665,000	one million six hundred sixty five thousand	6,600,000/-
						Sixty eight million three hundred forty thousand

CARRIED TO COLLECTION

SIGNATURE OF THE CONTRACTOR



BOQ-General

Executive Engineer
 (E&M-MSTB-III) S-III

CONTRACT PACKAGE TP-III: UPGRADATION AND EXPANSION OF SEWAGE TREATMENT PLANT AT MAURIPUR, KARACHI

BILL OF QUANTITIES

BILL NO- 5 : - GENERAL WORKS

S.No.	ITEMS OF WORKS	UNIT	QUANTITY	RATE (Rs.)		AMOUNT (Rs.)
				FIGURE	WORDS	
	(e) Toyota Corolla 1.6 GLI Automatic with AC Model 2014 or equivalent.	No.	1	2,572,500	Two million Five hundred seventy two thousand five hundred	2,572,500/-
	(f) Suzuki Bolan VX EURO II petrol engine with AC Model 2014 or equivalent.	No.	3	1,800,000	one million eight hundred thousand	5,400,000/-
	(g) Toyota Hiace Commuter Dual AC 3.0 L Model 2014 or equivalent.	No.	1	3,000,000	Three million	3,000,000/-
	(h) Motorbike Honda CD 70 petrol engine Model 2014 or equivalent.	No.	2	120,000	one lac twenty thousand	240,000/-
7	Maintenance of vehicles including Driver and P.O.L provided under item No-2/8 (a).	month	36	150,000	one lac fifty thousand	5,400,000/-
8	Maintenance of vehicles including Driver and P.O.L provided under item No-2/8 (b).	month	36	112,500	one lac twelve thousand five hundred	4,050,000/-
9	Maintenance of vehicles including Driver and P.O.L provided under item No-2/8 (c).	month	36	97,500	Ninety seven thousand five hundred	3,510,000/-
10	Maintenance of vehicles including Driver and P.O.L provided under item No-2/8 (d).	month	144	97,500	Ninety seven thousand five hundred	14,040,000/-
11	Maintenance of vehicles including Driver and P.O.L provided under item No-2/8 (e).	month	36	97,500	Ninety seven thousand five hundred	3,510,000/-
12	Maintenance of vehicles including Driver and P.O.L provided under item No-2/8 (f).	month	108	97,500	Ninety seven thousand five hundred	10,530,000/-
13	Maintenance of vehicles including Driver and P.O.L provided under item No-2/8 (g).	month	36	97,500	Ninety seven thousand five hundred	3,510,000/-
14	Maintenance of motorbikes including P.O.L provided under item No-2/8 (h).	month	72	30,000	Thirty thousand	2,160,000/-
15	Location and protection of all public utility services encountered with in the works during the contract period including Telephone Cables, Water supply Lines, Sewers, Drains, Gas pipe lines, Oil refiner line and Power Cables	Job	Lump-Sum	6,000,000	six million	6,000,000/-
16	Provisional Sum for payment to Utility Agencies for Re-location and / or their supervision charges where Required.	Provisional-Sum		1,000,000	one million	1,000,000
CARRIED TO COLLECTION						64,922,500/-

SIGNATURE OF THE CONTRACTOR



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NABEEM AHMED
Executive Engineer
(E&M-MSTP-III) S-III
K-187/2018/11

SEAL

BOO-General

SCHEDULE OF DAYWORK RATES

I. Labour

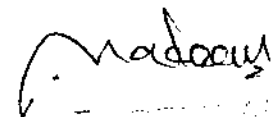
Item No.	Description	Unit	Nominal Quantity	Rate (Rs) In Figure	Rate (Rs) In Words	Amount (Rs.)
1	2	3	4	5	6	7
D101	Ganger	Hr	500	225	Two hundred twenty five	112,500/-
D102	Labourer	Hr	5,000	150	one hundred fifty	750,000/-
D103	Plumber	Hr	500	225	Two hundred twenty five	112,500/-
D104	Mason / Brick Layer	Hr	500	225	Two hundred twenty five	112,500/-
D105	Carpenter	Hr	500	225	Two hundred twenty five	112,500/-
D106	Steel Work Erector	Hr	500	225	Two hundred twenty five	112,500/-
D107	Welder	Hr	500	225	Two hundred twenty five	112,500/-
D108	Driver for vehicle up to 10 tons	Hr	1,000	225	Two hundred twenty five	225,000/-
D109	Operator for excavator, dragline, shovel or crane	Hr	500	300	Three hundred	150,000/-
D110	Operator for tractor, (tracked) with dozer blade or ripper	Hr	500	300	Three hundred	150,000/-
	Sub Total					1,950,000/-
	Add percent adjustment for Contractor's overhead, profit, etc.					250,000/-
	Total for Labour Day Works (carried forward to Day Work Summary)					2,200,000/-



Authorized Signature

Seal





Authorised Representative
(FCM/MS/TP-III) S/III
K.V. & S.S.

SCHEDULE OF DAYWORK RATES

II. Materials

Item No.	Description	Unit	Nominal Quantity	Rate (Rs) In Figure	Rate (Rs) in Words)	Amount (Rs.)
1	2	3	4	5	6	7
D201	Cement, ordinary Portland or equivalent in bags	M.Ton	200	16,000	Sixteen thousand	3,200,000/-
D202	Mild Steel reinforcing bar upto 16mm diameter to ASTM-A615 or BS 4449 or equivalent	M.Ton	100	120,000	One lac twenty thousand	12,000,000/-
D203	Fine aggregate	Cu.M	1,000	1400	Fourteen hundred	1,400,000/-
D204	Coarse aggregate	Cu.M	2,000	1500	Fifteen hundred	3,000,000/-
D205	Gelignite (Noble Special Gelatine 60 % or equivalent) including caps, fuse, wire and requisite accessories	M. Ton	10	50,000	Fifty thousand	500,000/-
	Sub Total				Twenty million one hundred thousand	20,100,000/-
	Add percent adjustment for Contractor's overhead, profit, etc.				One million Nine hundred thousand	1,900,000/-
	Total for Material Day Works (carried forward to Day Work Summary)				Twenty two million	22,000,000/-



Authorized Signature



Seal


RECEIVED
 GENERAL MANAGER
 (ENGINEERING) S-III
 K.V.S.O.B.



SCHEDULE OF DAYWORK RATES

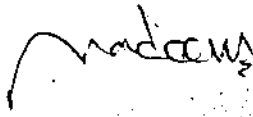
III. Constructional Plant

Item No.	Description	Unit	Nominal Quantity	Rate (Rs.) In Figure	Rate Rs.) In Words	Amount (Rs.)
1	2	3	4		5	6
D301	Excavator, face shovel or dragline: 1. Up-to and including 1 Cu.M. 2. Over 1 Cu.M to 2 Cu. M. 3. Over 2 Cu. M	Hr Hr Hr	500 400 100	4000 4000 4000	Four thousand Four Four	2,000,000/- 1,600,000/- 400,000/-
D302	Tractor (tracked) including bull or angle dozer: 1. Up-to and including 150 HP 2. Over 150 to 200 HP 3. Over 200 to 250 HP	Hr Hr Hr	500 400 200	6000 6000 6000	Six thousand Six thousand Six thousand	3,000,000/- 2,400,000/- 1,200,000/-
D303	Tractor with ripper: 1. Up-to and including 200 HP 2. Over 200 to 250 HP	Hr Hr	400 200	1500 1500	Fifteen hundred Fifteen hundred	600,000/- 300,000/-
D304	Dewatering Pumps	Hr	200	2000	Two thousand	400,000/-
	Sub Total				Eleven million Nine hundred thousand	11,900,000/-
	Add percent adjustment for Contractor's overhead, profit, etc.				Two million hundred thousand	2,100,000/-
	Total for Constructional Plant Day Works (carried forward to Day Work Summary)				Fourteen million	14,000,000/-


Authorized Signature

Seal




Authorized Signature
Engineer
(S-III)
K.W & S.E.

SUMMARY - DAYWORK

Bill No.6: Daywork

	Amount (Rs.)
(I) Total for Daywork: Labour	2,200,000/-
(II) Total for Daywork : Materials	22,000,000/-
(III) Total for Daywork: Constructional Plant	14,000,000/-
Total for Daywork (Carried forward to Summary Page of Bill of Quantities)	38,200,000/-

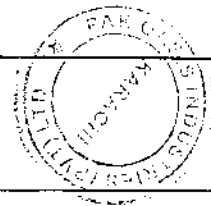
Grand Total (in Words) : Thirty Eight Million Two Hundred Thousand Only

Tenderer : _____

Name : PAK OASIS INDUSTRIES (PVT) LTD.

Authorized Signature : 

Seal : _____



M. O. S.
 M. O. S. (S-III)
 M. O. S. (S-III)
 M. O. S. (S-III)
 M. O. S. (S-III)

CONTRACT PACKAGE TP-III: UPGRADATION AND EXPANSION OF SEWAGE TREATMENT PLANT AT MAURIPUR, KARACHI

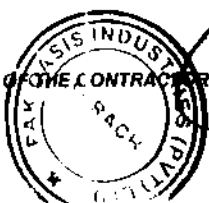
BILL OF QUANTITIES

BILL NO- 5 :- GENERAL WORKS

S.No.	PAGE NO	AMOUNT
1	PAGE NO - 1	68,349,000/-
2	PAGE NO - 2	64,922,500/-
CARRIED TO BOQ SUMMARY		133,262,500/-

One Hundred Thirty Three Million Two Hundred Sixty Two Thousand Five Hundred Only

SIGNATURE OF THE CONTRACTOR



SEAL

BOQ-General

NADEEM AHMED
Executive Engineer
(E&M-MSTP-III) S-III
K.W & S.B

DAYWORKS

Madeaus

11/10/11
11/10/11
11/10/11
11/10/11
11/10/11

