1. Introduction

This document describes the System to meet the maintenance requirements for traffic signals in Karachi. During one year maintenance period.

2. Brief Maintenance Requirements

The maintenance requirements of the Urban Traffic Control System works fall into following two categories:

- Routine Maintenance of Traffic Signal Equipment and Controllers.
- Fault Call Out Maintenance

2.1 Routine Maintenance

Daily

Visit of All signal sites and replacement of fined lamps if any and submission of status of complaint/repair:

Fault Call out Maintenance

Monthly

3. Cleaning of Signal Heads and Signal Poles
4. Checking/calibration of clock of each controller with master controller.

Half Yearly

Repainting of Signal Poles
Controller Functional Checks
Visual Inspection of Controller, Cable Termination

2.2 Fault Categories:

- Urgent

And

- Less urgent faults. Urgent faults are

Urgent faults are

- All aspects of one phase or more units.
- 50% of the red lamps on one phase unlit.
- Signals failing to change
- Defective signals/timings causing abnormal traffic conditions.
- Signals damaged and/or in a dangerous condition

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Chief Engineer (TC&...
Transport & Communication Deptt.
Metropolitan Corporation

2.3. Response Time

Urgent Faults

Within flours on working day	if no other fault exists
Within 4 hours on working day	if any other fault exists
Within 4 hours on weekends and Holidays.	if no other fault exists
Within 6 hours on weekends and Holidays.	if any other fault exists.

Less urgent faults

To be responded to	within 10 contract hours

2.4. Definition of Response

Attending the location of the fault within the periods defined above and continuously working during the contract hours to clear the fault.

2.5. Maintenance Working Hours

The working hours for maintenance shall be

0830 -1830	MON through SAT
0930 - 1700	SUN and Public Holidays
0830 -1500	during the Holy Month of Ramzan

Faults reported at times other than between the above working hours shall be deemed to have been reported on the start of next working days subject to clause 2.5 above. At weekends non-urgent faults shall be deemed to be reported two hours prior to the start of the next working day, No routine maintenance will be carried out on Eid days, 10th of Moharam and I4 August, however for emergency person will be available on working telephone to attend on call from TRANSPORT & COMMUNICATION DEPARTMENT

2.6. Maintenance Depot

A location serving as the base for maintenance activities is to be maintained. The complaints pertaining Traffic Signal Faults shall be reported at the Depot at a given 24 HOUR Mobile number. Arrangements for receipt of complaints should be maintained on register.

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Chief Engineer (Tech.)
Transport & Communication Deptt.

2.7. Spares

All the spares for maintenance shall be specified and kept at the Contractor's depot. A perpetual inventory of spares shall be maintained by the Contractor and inspected by the Engineer at six monthly intervals. All die material and spare parts to be supplied and replaced shall be brand new and compatible with the corresponding part of the existing Traffic Signal Equipment installed at site.

2.8. Non Performance Rebates

One Rebate Unit (RU) =0.05% of the annual routine maintenance cost.

If the Contractor fails to meet the performance requirements regarding response and fault attendance one Rebate Unit for every four hour period in excess of the response times defined limited to a total of 100 RU, can be claimed by the Engineer.

Non performance rebates shall not be applicable if

1. The equipment has to be taken out of service for repairs or
2. It is necessary that the equipment be isolated from the mains supply for which the Engineer fails to provide a competent person or
3. The equipment is damaged and can only be' made safe'

2.9. Schedule of Equipment to be maintained

The Contractor shall maintain all the street equipments mentioned in clause

3. Meeting the Requirements

3.1 Staffing

Maintenance team shall comprise of following personnel, strength whereof shall be kept according to the job requirements:

System Engineer (Maintenance In charge)

Supervisors

Technicians

Telephone Operator/Co-coordinator

Helpers

This team would be based at the UTC Project Depot and would employ and will be equipped with all required tools to carry out:

Routine maintenance as per specifications
And
Respond to Fault Call Outs.

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Chief Engineer (TC&O)
Transport & Communication Deptt.
Karachi Metropolitan Corporation

3.2 Schedule of Equipment and Works to be maintained

The following equipments! Works at the intersections shall be maintained during the 12 months maintenance period

- Traffic Signal Controllers
- Traffic Signal Aspects and assemblies
- Mast arm and Standard Signal poles.
- Accessories to above.

3.3 Spares for Maintenance

The routine maintenance charges include the service to be rendered and cost for bulb replacement etc. and the replacement of spare parts on the stock of TRANSPORT & COMMUNICATION DEPARTMENT Store. A tentative spares if not available in TCD store shall be arranged by the contractor on chargeable basis.

3.4 Maintenance Depot.

Maintenance Depot shall be equipped to receive fault complaints. The address of the Maintenance Depot and 24 hour Mobile Telephone No. shall be communicated to the Department before the start of the contract.

3.5. Routine Maintenance Services

Following are the broad functions of the maintenance teams to perform maintenance services:

General Inspection and Fault Reporting
Replacement of fused lamps
Cleaning of Signal Heads and Poles
Clearance of Damaged equipment from the street
Repainting of signal poles
Replacement of spare parts on stock of T & C

The System Engineer shall be the overall in charge to perform the maintenance activities shall have following specific tasks:

- Contact the Engineer or any person authorized by the Engineer daily upon commencement of maintenance working hours to inform the schedule of works during the day or Fax the program of the day to the office of the Engineer.
- Overall administrative control of maintenance set-up
- Fine tuning of all the controllers as & when required to activate customize the new time plans generated according to traffic load on the junction.
- Attending Controller faults.
- Making timing changes upon written request of the Engineer.
- Synchronization of CLF Clocks (if required)
- Inspection of controllers
- Document fault reports, damages, spare requirements and monthly progress to tile Engineer.
- Daily report of the status of each complaint attended/fault rectified or otherwise.

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Chief Engineer (TC&O)

- Daily inspection of all Traffic signal equipments on all the junctions jointly along with the representative of the Engineer In charge, Transport to be arranged by the contractor.

3.6. Timing changes/modification in staging and specifications

For timing changes/modification in specification etc. the Engineer shall issue instructions to the System Engineer on a form after which the System Engineer shall carry out the job and report back to the Engineer. Reconfiguration/Customization of the controller shall be a chargeable maintenance activity.

3.7. Fault Reporting System

Complaints shall be received at Depot:

By Telephone
By fax,
Or by reporting in person

The complaints shall be registered by the attendant on the log sheet.
During the working hours a complaint Number would be issued to the complaint. During none working hours on holiday's complaint would record on the answering telephone machine and number would allot on the next working day.

3.8. Records for the Engineer.

The System Engineer would regularly submit in writing to the Engineer on monthly basis the following:

Log of the complaints received
Detail of routine maintenance carried out
Detail of parts replaced if any

Schedule of routine maintenance shall be provided to the Engineer in advance in the event of damages the System Engineer will notify the Engineer through a Damage Report in quadruplicate and the Engineer will inspect the site with system engineer and will issue necessary instruction for repair/replacement on the same report.

3.9. Sequence of fault removals.

Sequence of events in removal of any fault is shown in the Flow chart.

3.10. Documents related to Maintenance

3.10.1. Daily Fault Log

This record will be kept at the UTC maintenance depot. It will contain the complaint number and location with a brief mention of the nature of complaint, reporting time, time of attendance of fault. This log will form the source document for all other documents related to Fault Call Out.

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Transport & Communication Deptt.
Metropolitan Corporation

3.10.2. Yearly Maintenance Record

Master copy of this document to be kept at the Depot. She staff will have a duplicate to keep the maintenance history for each site. It contains the record of bulb replacement; faults and damages occurred during the year.

There will be a unique card for each site and information on this card will be a proof that maintenance is being carried out as per contract conditions.

3.11. Maintenance Charges.

Maintenance charges shall be invoiced on periodic basis to the Executive Engineer at the rate quoted/month by the contractor for routine maintenance which include repair of modules of phase driver cards and motherboard of the controller.

Charges for services outside the- scope of work defined above shall be invoiced separately by the contractor at the rate prevailing at the time of works done.

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Namdar Square SB-12
Askari Park Comm. Scheme
No. 11,
University Rd. Karachi

Chief Engineer (TC&C)
Transport & Communication Dept.
Karachi Metropolitan Corporation

SINDH PUBLIC PROCUREMENT REGULARITY AUTHORITY

CONTRACT EVALUTION FORM

TO BE FILLED IN ALL BY ALL PROCURING AGENCIES FOR PUBLIC CONTRACTS OF TRANSPOT & CONNUNICATION DEPARTMENT, KMC.

1) NAME OF THE ORGANIZATION / DEPTT. :Karachi Metropolitan Corporation (TCD)
2) PROVINCIAL / LOCAL GOVT. OTHER. : Local Government (KMC)
3) TITLE OF CONTRACT : :Installation/Improvement & up- gradation : of Existing Traffic Signal in Karachi (Zone-I & Zone-II)
4) TENDER NUMBER : : C.E/TC&O/T&C/KMC/2013/52
5) BRIEF DESCRIPTION OF CONTRACT :To keep the smooth movement of vehicular in cit Improvement /Up-gradation of Traffic Signals Is necessary.
6) FORUM THAT APPROVED THE SCHEME : :KMC DDWP
7) TENDER ESTIMATE VALUE: : Rs. 34.995 Million
8) ENGINEER'S ESTIMATE : : _____
9) ESTIMATED COMPLETION PERIOD (as per contract): : 12 Month
10) TENDER OPEN ON (DATE & TIME): : 16-07-2013 12:00 PM
11) NUMBER OF TENDER DOCUMENTS SOLD: (Attached civil works only) :One (01)
12) NUMBER OF BIDS RECEIVED: : One (01)
13) NUMBER OF BIDERS PRESENT AT THE TIME OF OPENING OF BIDS: : One (01)
14) Bid Evaluation report (Enclose a copy) : Attached
15) Name and address of the successful bidder: :M/s Silicon Communication & Security
16) Contract Award Price : :34.889 Million
17) Ranking of Success full Bidder in evaluation report : (i.e1st, 2nd, 3rdEvalution Bid). 1st lowest M/S Silicon
18) Method of Procurement used:- (Tick one)

a) SINGLE STAGE- ONE ENVELOPE PROCEDURE _____ [ ]

b) SINGLE STAGE- TWO ENVELOPE PROCEDURE [ ]

19. APPROVING AUTHORITY FOR AWARD OF CONTRACT: : Administrator Karachi

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

YESS			

21. ADVERTISEMENT:

Yes	Sppra SNo.16546

i) SPPRA Website

(If yes, Give date and SPRA Identification No.)

ii) News Papers

(If yes, Give names of news papers and dates)

YES	DAILY EXPRESS30-5-2013, DAILY UMAT 30-05-2013 DAILY DAWN 31-5-2013

22. Nature of Contract

LOCAL			

23. WHETHER QUALIFICATION CRITERIA WAS INCLUDED IN BIDDING /TENDER DOCUMENTS?

(If yes, enclose a copy)

YES	Copy of NIT attached

24 WHETHER BID EVALUATION CRITERIA WAS INCLUDED INBIDDING / TENDER DOCUMENTS?

(If yes, enclose a copy)

YES	Copy of NIT attached

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

Open Competition

26. WAS BID SECURITY OBTAINED FROM ALL THE BIDDERS?

YES	

27. WHETHER THE SUCCESSFUL BID WAS LOWEST EVALUATED BID/ BEST EVALUATED BID (IN CASE OF CONSULTANCIES)

Yes	1st lowest Evaluated Bid

28. WHETHER THE SUCCESSFUL BIDDER WAS TECHNICALLY COMPLIANT?

NO			

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

YES			

30. WHETHER EVALUATION REPORT GIVEN TOBIDDERS BEFORE THE AWARD OF CONTRACT?

(Attached copy of the bid evaluation report)

YES	Copy of Bid Evaluation attached

34. DEVIATION FROM QUALIFICATION CRITERIA

NO	

(If yes, give detailed reasons)

35. WAS IT ASSURED BY THE PROCURING AGENCIES THAT THE SELECTED FIRM IS NOT BLACK LISTED?

YES	

36. WAS A VISIT MADE BY ANY OFFICER/OFFICIAL OF THE PROCURING AGENCIES 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)

NOT APPLICABLE

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

NO ADVANCE

38. SPECIAL CONDITIONS, IF ANY COPY ATTACHED

NO	

(If yes, give brief description)

39. Date of Award of Contact 16-09-2013

Signature & Official Stamp of

Authorized Officer

Executive Engineer (E&M)
Transport & Communication Department
Karachi Metropolitan Corporation

OFFICE OF THE CHIEF ENGINEER(TC&O)
TRANSPORT & COMMUNICATION DEPARTMENT
KARACHI METROPOLITAN CORPORATION

8th Floor, Civic Centre, Gulshan-e-Iqbal, University Road, Karachi-99230658

Dated: 16-09-2013

No.C.E/TC&O/T&C/KMC/2013/ 221

M/s. Silicon Security & Communication,
Suit No.2, 2nd Floor, Namdar Square,
S.B-12, Askari Park, Old Subzi Mandi,
Karachi

WORK ORDER

SUBJECT: **INSTALLATION / IMPROVEMENT AND UPGRADATION OF EXISTING TRAFFIC SIGNALS IN KARACHI (ZONE-I AND II)**

In continuation to this office acceptance No. CE/TC&O/T&C/KMC/2013/201 dated.27.08.2013, the above mentioned work amounting to Rs. 34,889,550/- (Three crore forty eight lac eighty nine thousand five hundred & fifty only) is hereby awarded to you as per detail below:

1. Cost of work Zone-I	Rs.1,78,06,100/-
2. Cost of work Zone-II	Rs.1,70,83,450/-
Total	Rs. 3,48,89,550/-

(Rupees Three crore forty eight lac eighty nine thousand five hundred fifty only)

16/09/2013

(Engr.Syed Muhammad Taha)
Chief Engineer
Traffic Control & Operation
T&C, KMC

Copy to:

1. The Senior Director (TCD) Department, KMC.
2. The Superintending Engineer (TC&O) TCD KMC
3. The Executive Engineer (Traffic Signal) TCD KMC

Total Comp. Amt. 34809550/- 264 104670/-
28/08/2013

KARACHI METROPOLITAN CORPORATION

AGREEMENT

Project: Installation/Improvement and upgradation of existing Traffic Signals in Karachi (Zone-I & Zone-II).

Cost: Rs 34889550/=

Completion time: Twelve (12) Months

An Agreement made this 28th day of August 2013 between the Karachi Metropolitan Corporation Karachi through its Senior Director (TCD) hereinafter called the "KMC", (which expression shall mean and included his successors) of the one part and M/s Silicon Communication & Security having their office at Suit-4 2nd Floor, Nandor Square SB-12, Askari Park old Subzi Mandi Commercial Scheme No. 11 University Road Karachi through their _____ hereinafter called the "Contractor" (which expression shall mean and include his successors, heirs, executors, administrator and assignees) of the other part.

Whereas the KMC has accepted the tender of the Contractor dated 16-7-2013 on percentage basis at _____ % above/below/at par the schedule of rates (2004) plus offer rate/on item rate basis/on turn key basis for construction and completion of the work namely Above- _____ at a cost of Rs. 34889550/= (Rupees Three Crore Fourty Eight lac Eighty nine thousand five hundred Eighty only) within a period of _____ according to the specification and general conditions of the contract signed by the contractor after having made himself fully acquainted with their meaning.

AND WHEREAS the Contractor has already deposited with the KMC a sum of Rs. 698000/= (Rupees Six Lac Ninty Eight Thousand only) vide Pay Order/ ~~Bank Guarantee~~ No. 5205503 dated 21-6-13 from Bank Al-Habib Bank _____ Branch, Karachi on account of 2% Earnest Money for the said contract. The said P.O has been encashed and deposited into the Bank A/c of KMC vide Challan No. _____ dated 07-8-2013.

AND WHEREAS the Contractor has also agreed to the deduction of the amount equal to 8% from his running payments to make the total security including the earnest money equal to 10% of the contract value for due performance of the contract. The claim for refund of Security can be lodged after six months of the satisfactory completion of the work and after issuance of completion certificate by the Engineer in charge.

28/08/2013

AND WHEREAS the Contractor has given a lien to the KMC over the security and performance bond for due fulfillment of the contract and does hereby bind himself, his heirs, successors legal representative and assignee to pay to the KMC, penalty through forfeiture of the said security and the performance bond in case of breach of any condition of the contract without prejudice to the right of KMC to recover the damages from the Contractor for any such breach as per condition of the contract.

AND WHEREAS the following documents shall be deemed to form and be read and constructed as part of this Agreement.

i. Notice inviting tenders. =1=
ii. Tender ~~documents~~ marked -01- and date 16-7-2013 including terms and conditions, BOQ, specifications and drawings.
iii. Work schedule.
iv. Payment schedule.
v. Security and Performance Bond.
vi. All correspondence n respect of the contract and the work.

AND WHEREAS in consideration of the payments to be made by the KMC to the Contractor as hereinafter mentioned the contractor hereby covenants with the KMC to execute and complete the work and remedy the defects therein in all respect in conformity with the provision of the contractor.

AND WHERAS the KMC hereby covenants to pay to the Contractor in consideration of execution and completion of the work and remedy of defects therein, contract price or such other sum as may become payable under provision of the contract.

AND WHEREAS the Contractor binds himself to execute and complete the work according to specification and to pay the KMC compensation for delay as per relevant clause of the conditions of contracts in case he does not perform under this contract and fails to complete the work within the specified time.

AND HWEREAS the contractor has agreed to abide by the following conditions also:

1. The Contractor will engage a qualified Engineer of relevant field for proper supervision and execution of work. In case, the contractor fails to do so, the KMC will hire an Engineer on behalf of the Contractor and the emoluments of the Engineer will be deducted form the bills of the Contractor.

2. The Contractor will submit work methodology and activity plan before the start of work but not later than 7 days after issuance of Work Order.

3. The Contractor will ensure availability of machinery and equipments and would also ensure their proper use on the work. In case of default, the KMC will be at liberty to hire plant and machinery on its own and the charges will be recovered from the bills of the Contractor.

28/08

Chief Engineer (T&O)

4- The work on road/bridges/flyovers will be carried out by the Contractor round the clock in order to reduce the time of completion for the public convenience. The electricity charges and other expenditure involved during execution of work will be paid by the Contractor.

5- In case of non-completion of the work within the stipulated time or if the contractor is found delaying the work deliberately he will be penalized by the Engineer Incharge strictly in accordance with the Penalty /Compensation clause of the Contract.

AND WHEREAS in case of any disagreement/dispute on technical matters and those relating to execution of project the decision of the KMC will be final conclusive and binding on the Contractor.

NOW THREFORE THIS AGREEMENT WITNESSETH that the KMC and the Contractor shall respectively and well truly carryout and fulfill the contract and abide by all terms and conditions and specifications thereof.

IN WITINESS WHEREOF the said parties have set their respective hands this ....28th..... Day of August.2013

KARACHI METROPOLITAN CORPORATION

28/08/2012

Chief Engineer (TC&O)
Karachi Metropolitan Corporation
Transport & Communication Deptt.

CONTRACTOR

SENIOR DIRECTOR
Transport & Communication Deptt
K.M.C

SILICON COMMUNICATION & SECURITY
Suit 4, 2nd Floor, Namdar Square 98-12 Ashraf Park Comm. Scheme No. 11, University Rd. Karachi

WITNESSES:-

1- _____

Taj Munawar

D-185, K.D.A. Scheme No I-A

Karachi

2- _____

Tahir Munawar

D-257, K.D.A. SCHEME NO I-A

KARACHI

4- The work on road/bridges/flyovers will be carried out by the Contractor round the clock in order to reduce the time of completion for the public convenience. The electricity charges and other expenditure involved during execution of work will be paid by the Contractor.

5- In case of non-completion of the work within the stipulated time or if the contractor is found delaying the work deliberately he will be penalized by the Engineer Incharge strictly in accordance with the Penalty /Compensation clause of the Contract.

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KARACHI METROPOLITAN CORPORATION

28/08/2012

Chief Engineer (TC&O)
Transport & Communication Deptt.
K.M.C.

CONTRACTOR

SENIOR DIRECTOR
Transport & Communication Deptt
K.M.C.

SILICON COMMUNICATION & SECURITY
Suit 4, 2nd Floor, Nandan Square SB-12 Ashok Park Comm. Scheme No. 11, University Rd. Karachi

WITNESSES:-

1- Munawar

Taj Munawar

D-135, K.D.A. Scheme No I-A

Karachi

2- Tahir Munawar

Tahir Munawar

D-257, K.D.A. SCHEME NO I-A

KARACHI

COURTS GOVT. OF SINDH

B022373

Rupees 50 ۵۰ روپیہ

SHEP ALTAF ALI STAMP VENDOR
Licence No. 0... Shop No.1 KDA Circle Centre Building
... Road Karachi

THE INTERGRITY PACT

I, Faisal Sattar S/O Abdul Sattar (Late) Bearing CNIC # 42000-0375250-5 the managing Director hereby solemnly affirm and state on behalf of my firm silicon Communication & Security having its cooperative office at Suit No. 4, 2nd floor, Namdar Square, SB-12, askari Park Old Sabzi Mandi, commercial scheme # 11 University Road Karachi, (hereinafter refer as the "Company") that we will adhere with the integrity pact with of the KMC, provided to us with the TOR.

It is therefore agreed that the Company will follow the following clauses of the integrity pact during the course of the contract with KMC.

a. This Company places importance on competitive tendering taking place on a basis that is free, fair competitive and not subject to abuse. This Company is pleased to confirm that (i). it has not offered or granted, and will not offer or grant, either directly or indirectly through agents or other third parties, any improper inducement or reward to any public official, their relations or business associates, in order to obtain or retain this contract or other improper advantage, and (ii). it has not colluded, and will not collude, with others in order to limit competition for this contract.

b. This company has a No-Bribery Policy / Code of Conduct and a compliance program which includes all reasonable steps necessary to assure that the no bribery commitment given in the statement will be complied with by its, managers and employees as well as by all their parties working with this company on this project, including agents, contractor JV consultants, consortium partners, subcontractors and supplies. Copies of our No-Bribery Policy / Code of Conduct and compliance program are attached or.

In cases where companies participate in the bidding which do not yet have a general any bribery policy / code of conduct.

COMMUNICATION & ... Suit 4, 2nd Floor, ...

022374

Rupees 50 ۵۰ روپیہ

SYED AKHTAR ALI STAMP VENDOR
Licence No. [illegible] Shop No. [illegible] Civic Centre Building
[illegible] Karachi
[illegible] 5 53 DATE 28 AUG 2013
[illegible]
[illegible] ZHA[illegible]
[illegible] 50/2 ADV[illegible]

c. "This company has developed, for the purposes of this tender. a compliance program copy attached which includes all reasonable steps necessary to assure that the no-bribery commitment given in this statement will be complied with by its Mangers and employees, as well as by all third parties working with this company on this project including agents, contractor IV Consultants. consortium partners, subcontractors and suppliers".

d. This commitments is in the name and on behalf of this company's Managing Director mentioned above.

SILICON COMMUNICATION
& SECURITY

SILICON COMMUNICATION & SECURITY
Suit 4, 2nd Floor, Mamdar Square SB-12 Apkari Park Contiguous Scheme No. 11, University Rd. Karachi

MA[illegible]R

Witness:
1: _____

2: _____

OFFICE OF THE SENIOR DIRECTOR
TRANSPORT & COMMUNICATION DEPARTMENT
KARACHI METROPOLITAN CORPORATION

8th Floor, Left Wing, Civic Centre, Gulshan-e-Iqbal, Karachi
Ph: 021-99230655 Fax: 99231304

No. TCD/Sr.Dir(DDO(Sectt)/260/2013/52
Dated: 27/05/2013

The Director,
Media Management,
Karachi Metropolitan Corporation,
Civic Centre, Karachi.

Subject:- **NIT FOR "INSTALLATION / IMPROVEMENT & UPGRADATION OF EXISTING TRAFFIC SIGNALS IN KARACHI (ZONE-I AND ZONE-II)"**

Enclosed please find herewith ten (10) copies of NIT for subject mentioned work for publication in the press. Copy of approval of competent authority for publication of advertisement in newspapers is also enclosed please.

Encls : As above.

27/5/2013
(Muhammad Athar)
Senior Director
T&C Department, KMC

Copy along with copy of NIT to :-

1. The Manager (CB), SPPRA, with request to upload on SPPRA website please.
2. The Deputy Director (Web), IT Department, KMC, with request to upload on KMC Website.
3. The Chief Engineer (TC&O), T&C Department, KMC.
4. The Secretary to Administrator Karachi.
5. PS to Metropolitan Commissioner, Karachi.

OFFICE OF THE SENIOR DIRECTOR
TRANSPORT & COMMUNICATION DEPARTMENT
KARACHI METROPOLITAN CORPORATION

8th FLOOR, CIVIC CENTRE, GULSHAN-E-IQBAL, MAIN UNIVERSITY ROAD, KARACHI
☎: 9923 0655

NOTICE INVITING TENDER

SINGLE STAGE TWO-ENVELOP SYSTEM (SPPRA Rules 2010)

KMC invites sealed tenders on Single stage –Two Envelop procedure in two separate sealed envelopes; one containing financial proposal and the other containing Technical proposal for the following work. The contractors having experience in similar nature of works and registered with PEC in relevant category having Valid Certificate of PEC and Electrical License from Government of Sindh, can purchase tender documents and submit their bids / proposal in two separate envelopes clearly marked "FINANCIAL PROPOSAL" and "TECHNICAL PROPOSAL" as per the Sindh Public Procurement Rules 2010.

SR.NO	DESCRIPTION	ESTIMATED COST	BID SECURITY	TENDER COST	CATEGORY AS PER PEC ELIGIBILITY CRITERIA
01	INSTALLATION / IMPROVEMENT AND UP-GRADATION OF EXISTING TRAFFIC SIGNALS IN KARACHI (ZONE – I & II)	OFFER RATE	2 % OF OR	RS.3000/=	• PEC C-4 CATEGORY ALONG WITH SPECIAL CATEGORY FOR SIGNALIZATION WORK EE-06 & 07 AND CE-10. • ELECTRICAL LICENSE OF THE FIRM ISSUED FROM GOVT. OF SINDH. • VALID NTN CERTIFICATE. • VALID PROFESSIONAL TAX CERTIFICATE. • MINIMUM LAST FOUR YEARS EXPERIENCE IN EXISTING SIGNALING SYSTEM WITH ANY PUBLIC SECTOR / ORGANIZATION.

Schedule shall be as follows

	SCHEDULE	DATE & TIME	VENUE
01	Receiving Applications & issuance of Tenders	From 05.06.2013 to 20.06.2013 During Office Hours	Office of the Chief Engineer (TC&O) Transport & Communication Dep't., KMC, 8th Floor, Civic Centre, Gulshan-e-iqbal, Karachi. Application should be addressed to Senior Director, T &C Dep't, and KMC. Tender shall be issued to those applicants who fulfill the eligibility criteria.
02	Dropping of Tender	21.06.2013 at 12.00 Noon	Office of Senior Director, Transport & Communication Dep't, KMC, 8th Floor Civic Centre, Gulshan-e-iqbal,Karachi.
03	Opening of Tender	21.06.2013 at 12:30 PM	Office of Senior Director, Transport & Communication Dep't, KMC, 8th Floor Civic Centre, Gulshan-e-iqbal,Karachi.

TERMS & CONDITIONS

1. The tenders in sealed covers mentioning name of work and marked as Technical and Financial offer in Separate envelope should be dropped in the tender Box. Kept at the place and time mentioned above.
2. Initially the technical proposals will be opened by the Tender Opening Committee on the date and time mentioned above, whereas, the financial proposal will be retrained with KMC till evaluation of technical proposal.
3. The technical proposal submitted by the bidders will be evaluated by Procurement Committee and thereafter financial proposals of Technically qualified bids will be opened by the designated Committee on the date and time to be communicated to the successful bidders.
4. The financial proposals of the technically non-responsive bidders shall be returned unopened to the respective bidders.
5. In case the date of opening is declared as a public holiday by the Government, the next working day shall be deemed to be the date for submission and opening of tenders accordingly. The time and venue shall remain same.
6. The competent authority reserves the right to reject any or all proposals without assigning any reason subject to the relevant provision of SPPRA Rules.
7. Canvassing in connection with tender is strictly prohibited and proposal submitted by the contractors who are reported to be involved in canvassing will liable for rejection.
8. The conditional proposals or the proposal received in unsealed covers will not be entertained and no proposal will be received after Schedule date and time.
9. A pre-bid meeting with contractors will be held on 18-06-2013 at 12.00 Noon.

16546	SPPRA ID WITHHELD	Karachi Metropolitan Corporation KMC Transport & Communication Department KMC Karachi Traffic Signals		29 May 2013	29.May.2013	21.Jun.2013			Rule 17,18,7 & 45

TRANSPORT & COMMUNICATION DEPARTMENT
KARACHI METROPOLITAN CORPORATION
8th FLOOR, CIVIC CENTRE, GULSHAN-E-IQBAL, MAIN UNIVERSITY ROAD, KARACHI
☎: 923 0655

No: CE/TC&O/147 Dated: 17/07/2013

Bid Evaluation Report

1. Name of Procuring Agency: KARACHI METROPOLITAN CORPORATION
2. Tender Reference No: C.E/TC&O/T&C/2013/52
3. Tender Description/Name of work: Installation/Improvement & Up gradation of Existing Traffic Signals In Karachi (Zone-I & Zone-II)
4. Method of Procurement: Single Stage - Two Envelope procedures
5. Tender Published: Print & electronic media as SPPRA S.NO16546 & news paper Ummat 30May 2013 / Express 30 May 2013 / Dawn 31 May 2013
6. Total Bids Documents Sold: 01 Nos
7. Total Bids Received: 01 Nos
8. Technical Bids Opening date (If applicable): 21 June 2013
9. No. of Bid technically qualified (If applicable): 01
10. Bid(s) Rejected: NIL
11. Financial Bid Opening Date: the Financial bid opened on 16-07-2013 for qualified contractor On the basis Of evaluation criteria and download on sppra web Site.
12. Technical Evaluation: One firm qualified on the basis of evaluation criteria by Procurement Committee
13. Bid Evaluation Report:

S.NO	Name of Firm or Bidder	Cost Offered by the bidder (As calculated)	Engg Estimate of the work	Comparison with estimated cost	Reason for acceptance / Rejection	Remarks
0	1	2	3	4	5	6
	Silicon Communication & Security	34889550/=	34995665/=	0.303 % Below The Estimated Cost	Qualified as per Eligibility Criteria	The Firm is Responsive and Evaluated Lowest Bidder and Below The Estimated Cost Recommended for Award of Work

As per rule 48 of SPPRA and keeping in view of the prim function of TCD to regulate the traffic through intersection and considering the rates of the bidder who has quoted the rates 0.303% below the engineering estimate of 2012 amounting to Rs34995665/= the bid is recommended for award.

17/7
Syed Nafees Agha
Executive Engineer
Layari Development Authority
Member

Chief Engineer (P&D)
Engineering Department
Karachi Metropolitan Corporation
Member
17/7/13

Engr Syed Muhammad Kazim
Chief Engineer (TC&O)TCD
Karachi Metropolitan Corporation
Chairman
17/07/2013

Director(CB) SPPRA GOS
With a request to upload on the website of SPPRA(Authority)

C.C To –
1. All members of Procurement committee
2. The senior Director (T&C)KMC

Issued To M/s Silico Communication & Security

VOLUME-I

MUHAMMAD YOUSUF
Distribution Accounts Officer
Transport & Communication Deptt
(TC&O) K.M.C

18/6/13

KARACHI METROPOLITAN CORPORATION
TRANSPORT & COMMUNICATION DEPARTMENT

Tender opening date 16/7/2013

16/7/2013

16/7

16/7

NAME OF WORK: INSTALLATION/IMPROVEMENT AND UP-GRADATION OF EXISTING TRAFFIC SIGNALS IN KARACHI (ZONE-I & ZONE-II)

Financial Proposal Opened on 16-7-2013.

TENDER REFERENCE NO:C.E/TC&O/T&C/2013/52

BILL OF QUANTITIES

NOTE:
The conditions of contract will be available on KMC Website (www.karachicity.gov.pk) please download it, read carefully , signed and stamped all pages and attached with this documents / BOQ and drop in the tender box

FINANCIAL PROPOSAL

Note: Please detach this portion, fill it, duly signed and stamped. Seal it in separate envelope clearly marking on the envelope FINANICAL PROPOSAL with name of project.

Chief Engineer
Transport & Communications Deptt.

NAME OF WORK: INSTALLATION / IMPROVEMENT AND UP-GRADATION OF EXISTING TRAFFIC SIGNALS IN KARACHI ZONE - I SOUTH ZONE

S.NO	ITEM	QTY OR NOS	RATES	UNIT	AMOUNT
1	ROUTINE MAINTENANCE OF TRAFFIC LIGHT SIGNAL EQUIPMENT OF UTC AND NON-UTC SYSTEM AS PER TERMS & CONDITIONS AND SCOPE OF MAINTENANCE ATTACHED AND AS INSTRUCTIONS AND DIRECTION OF THE ENGINEER INCHAEGE.	60 JUNCT FOR 12 MONTHS	Nine Thousand Three Hundred 9300/=	MONTH/JUNCTION	6696000/=
	SUB TOTAL				
2	CHARGEABLE MAINTENANCE OF SIGNALS				
2-A	SUPPLY AND REPLACEMENT OF PARTS.				
2-B	INSTALLATION / DISMANTLING CHARGES OF PARTS.				
2-A	SUPPLY AND REPLACEMENT OF PARTS.				
	PARTS OF T-400 CONTROLLER				
1	CONTROLLER BASE Six Thousand	1	6000/=	Each	6000/=
2	MAIN PROCESSOR CARD Eighty five Thousand	5	85000/=	Each	4,25,000/=
3	4-PHASE DRIVER CARD Ninty four Thousand	10	94000/=	Each	9,40,000/=
4	POWER SUPPLY UNIT Sixty Three Thousand	15	63000/=	Each	9,45,000/=
5	H.R.C.FUSE Two Hundred	1	200/=	Each	200/=
6	CAPACITOR Four Hundred	1	400/=	Each	400/=
7	CLOCK MODULE Three Thousand five Hundred	15	3500/=	Each	52500/=
8	T-400 OR EQUVELENT 8 - PHASE Six lac fifty Thousand	1	650000/=	Each	650000/=

3019100/=

16/07/2013

(2)

NAME OF WORK: INSTALLATION / IMPROVEMENT AND UP-GRADATION OF EXISTING TRAFFIC SIGNALS
IN KARACHI ZONE - I SOUTH ZONE

S.NO	ITEM	QTY OR NOS	RATES	UNIT	AMOUNT
	PARTS OF ST-800 CONTROLLER				
9	POWER SUPPLY UNIT Twenty five Thousand	5	25000/=	Each	1,25,000/=
10	C P U Seventy five Thousand	1	75000/=	Each	75000/=
11	8-PHASE DRIVER CARD Fifty Six Thousand five Hundred	5	56500/=	Each	2,82,500/=
12	ST-800 OR EQUEVELENT CONTROLLER 16 PHASE Five lac thirty five Thousand	1	535000/=	Each	5,35,000/=
13	ST-800 OR EQUEVELENT CONTROLLER 8- PHASE Five lac twenty Thousand	1	520000/=	Each	5,20,000/=
	PARTS OF SIMATIC OR EQUVILENT CONTROLLER				
14	SIMATIC OR EQUVILENT CONTROLLER Fourty Thousand	4	40000/=	Each	1,60,000/=
15	CENTRAL PROCESSING CARD Twenty five Thousand	10	25000/=	Each	2,50,000/=
16	POWER SUPPLY Twenty Thousand	15	20000/=	Each	3,00,000/=
17	RELAY OUT PUT CARD Ten Thousand five Hundred	20	10500/=	Each	2,10,000/=
18	ELECTRIC FLASHER Two Hundred	10	200/=	Each	2000/=
19	CONTROLLER CASING Twelve Thousand	2	12000/=	Each	24000/=
20	BACKUP BATTERY One Thousand Eight Hundred	1	1900/=	Each	1900/=
	SIGNAL HEADS POLY CARBONIZED (GERMAN,TURKISH)				
21	3-WAY ASPECT 200 MM Twenty four Thousand five Hundred	15	24500/=	Each	3,67,500/=
22	3-WAY ASPECT 200 MM (WITH LED BALL) Thirty Three Thousand five Hundred	5	33500/=	Each	1,67,500/=
					3020300/=

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Group Engineer (T&S)
Traffic & Communication Dept.
Karachi Metropolitan Corporation

SILICON COMMUNICATION & SECURITY
Shop 4, 2nd Floor, Nandlal Centre SB-12 Allahi Rahi Trust Scheme No. 11, University Rd. Karachi

(3)

NAME OF WORK: INSTALLATION / IMPROVEMENT AND UP-GRADATION OF EXISTING TRAFFIC SIGNALS IN KARACHI ZONE - I SOUTH ZONE

S.NO	ITEM	QTY OR NOS	RATES	UNIT	AMOUNT
23	3-WAY ASPECT 300 MM Thirty two Thousand	5	32000/=	Each	1,60,000/=
24	3-WAY ASPECT 300 MM (WITH LED BALL) Forty four Thousand five Hundred	2	44500/=	Each	89000/=
25	2-WAY ASPECT 200 MM Eighteen Thousand	5	18000/=	Each	90000/=
26	2-WAY ASPECT 200 MM (WITH LED BALL) Twenty five Thousand	5	25000/=	Each	1,25,000/=
27	1-WAY ASPECT 300 MM Twelve Thousand five Hundred	4	12500/=	Each	50000/=
28	1-WAY ASPECT 300 MM (WITH LED BALL) Seventeen Thousand	2	17000/=	Each	34000/=
29	1-WAY ASPECT 200 MM Ten Thousand five Hundred	30	10500/=	Each	3,15,000/=
30	1-WAY ASPECT 200 MM (WITH LED BALL) Fourteen Thousand	10	14000/=	Each	1,40,000/=
31	PEDESTRIAN PUSH BUTTON One Thousand one Hundred	1	1100/=	Each	1100/=
	PARTS OF 200 MM SIGNAL HEADS (GERMAN , TURKISH)				
32	GLASS One Thousand one Hundred	70	1100/=	Each	77000/=
33	HOOD One Thousand one Hundred	80	1100/=	Each	88000/=
34	RUBBER GASKIT one Hundred	5	100/=	Each	500/=
35	REFLECTOR one Hundred	5	100/=	Each	500/=
36	MOUNTING BRACKET Four Hundred	6	400/=	Each	2400/=
37	ARROW BRACKET Two Hundred	6	200/=	Each	1200/=
38	ARROW MASK One Hundred	5	100/=	Each	500/=
39	LED BALLS 200 MM Three Thousand two Hundred fifty	50	3250/=		1,62,500/=
					1336700/=

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Chief Engineer (Tr. Sec.)
Transport & Communication Dept.
Karachi Metropolitan Corporation

SILICON COMMUNICATION & SECURITY
Suite 6, 2nd Floor, Nawabar Square S.R.E. Askari Park Cantt. Sheet No. 11, University Rd. Karachi

NAME OF WORK: INSTALLATION / IMPROVEMENT AND UP-GRADATION OF EXISTING TRAFFIC SIGNALS IN KARACHI ZONE - I SOUTH ZONE

S.NO	ITEM	QTY OR NOS	RATES	UNIT	AMOUNT
	PARTS OF 300 MM SIGNAL HEADS (GERMAN , TURKISH)				
40	GLASS One Thousand Two Hundred	4	1200/=	Each	4800/=
41	HOOD One Thousand Three Hundred fifty	4	1350/=	Each	5400/=
42	RUBBER GASKIT One Hundred	3	100/=	Each	300/=
43	REFLECTOR One Hundred	2	100/=	Each	200/=
44	ARROW BRACKET Two Hundred	1	200/=	Each	200/=
45	HANGING BRACKET Four Thousand	5	4000/=	Each	20000/=
46	ARROW MASK Two Hundred	1	200/=	Each	200/=
47	LED BALLS 300 MM Four Thousand Two Hundred	35	4200/=		1,47,000/=
48	STANDARD POLE AS PER EXISTING SAMPLE Ten Thousand	1	10000/=	Each	10000/=
49	CONSTRUCTION OF FOUNDATION FOR STANDARD POLE				
	(COMPLETE) AS PER SPECS. Four Thousand five Hundred	10	4500/=	Each	45000/=
50	MAST ARM POLE AS PER EXISTING SAMPLE Fifty two Thousand	1	52000/=	Each	52000/=
51	CONSTRUCTION OF FOUNDATION FOR MAST ARM POLE				
	(COMPLETE) AS PER SPECS. Ten Thousand five Hundred	10	10500/=	Each	1,05,000/=
52	SUPPLY & LAYING OF 2 NOS GI PIPE (H.D) 4" DIA IN DUCT				
	UNDER THE ROAD CARRIAGE WAY/ FOOTWAY I/C COST				
	OF CONSTRUCTION OF DUCT AND MAKING GOOD THE ROAD				

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(5)

NAME OF WORK: INSTALLATION / IMPROVEMENT AND UP-GRADATION OF EXISTING TRAFFIC SIGNALS IN KARACHI ZONE - I SOUTH ZONE

S.NO	ITEM	QTY OR NOS	RATES	UNIT	AMOUNT
	Two Thousand One Hundred COMPLETE AS PER DIRECTION OF THE ENGINEER INCHARGE.	15	2100/=	METER	31500/=
53	SUPPLY & LAYING OF 1 NO GI PIPE (H.D) 4" DIA IN DUCT UNDER THE ROAD CARRIAGE WAY/ FOOTWAY I/C COST OF CONSTRUCTION OF DUCT AND MAKING GOOD THE ROAD		16/7		
	One Thousand four Hundred COMPLETE AS PER DIRECTION OF THE ENGINEER INCHARGE.	50	1400/=	METER	70000/=
54	SUPPLY & LAYING OF 1 NO GI PIPE (H.D) 2" DIA IN DUCT UNDER THE ROAD CARRIAGE WAY/ FOOTWAY I/C COST OF CONSTRUCTION OF DUCT AND MAKING GOOD THE ROAD		16/7		
	One Thousand COMPLETE AS PER DIRECTION OF THE ENGINEER INCHARGE.	100	1000/=	METER	1,00,000/=
55	Four Hundred five CABLE 12 CORE ARMOURED PVC/PVC COPPER CONDUCTOR	1500	405/=	METER	6,07,500/=
56	Four Thousand KESC BOX (BREAKER30.A, INDICATION LAMP, VOLT METER)	10	4000/=	Each	40000/=
57	POWER CABLE 3 CORE 6MM Three Hundred Sixty five	1000	365/=	METER	3,65,000/=
			16/7		
58	AUTOCHANGEOVER SWITCH (COMPLETE) Five Thousand	1	5000/=	Each	5000/=
59	CIRCUIT BREAKER 30 A Four Hundred fifty	10	450/=	Each	4500/=
60	CONTACTOR One Thousand Two Hundred	1	1200/=	Each	1200/=
			16/7		12247000/=

Chief Engineer (Transport & Communication Wing) Karachi Metropolitan Corporation

SILICON COMMUNICATION & SECURITY Suite 4, 2nd Floor, Nandan Square SB-12 Askari Housing Scheme No. 11, University Rd. Karachi

NAME OF WORK: INSTALLATION / IMPROVEMENT AND UP-GRADATION OF EXISTING TRAFFIC SIGNALS IN KARACHI ZONE - I SOUTH ZONE

S.NO	ITEM	QTY OR NOS	RATES	UNIT	AMOUNT
61	TIMER Four Hundred	1	400/=	Each	400/=
62	RECONSTRUCTION OF OLD CHAMBER Two Thousand Eight Hundred	20	2800/=	Each	56000/=
63	REPAIR OF OLD CHAMBER Two Thousand four Hundred fifty	20	2450/=	Each	49000/=
64	PROVIDING & FIXING OF CHAMBER COVER Two Thousand one Hundred	20	2100/=	Each	42000/=
65	DUCT WITH (PVC) PIPE 2" DIA Five Hundred	50	500/=	METER	25000/=
66	REPAIR OF STANDARD POLE Two Thousand Six Hundred fifty	10	2650/=	Each	26500/=
67	REPAIR OF MAST ARM POLE Nine Thousand five Hundred	5	9500/=	Each	47500/=
68	POLE COVER FOR MAST ARM POLE Six Hundred	20	600/=	Each	12000/=
69	POLE COVER FOR STANDARD POLE Four Hundred	50	400/=	Each	20000/=
70	REPAIR OF MAST ARM POLE FOUNDATION Four Thousand four Hundred	10	4400/=	Each	44000/=
71	REPAIR OF STANDARD POLE FOUNDATION One Thousand four Hundred	30	1400/=	Each	42000/=
72	REPAIR OF POWER SUPPLY ST-800 AND T-400 CONTROLLER Seven Thousand five Hundred	75	7500/=	Each	5,62,500/=
73	FRONT DOOR OF CONTROLLER CASING T-400, ST-800 Five Thousand five Hundred	5	5500/=	Each	27500/=
74	BACK DOOR OF CONTROLLER CASING T-400, ST-800 Five Thousand five Hundred	5	5500/=	Each	27500/=
75	REPAIR OF CONTROLLER CASING T-400, ST-800 Six Thousand five Hundred	5	6500/=	Each	32500/=
76	WIRE 7/ 36 Seventy five	500	75/=	METER	37500/=
77	WIRE 12 CORE PVC / PVC COPPER CONDUCTOR Two Hundred Sixty	1000	260/=	METER	2,60,000/=
78	UPVC PIPE 4" DIA Five Hundred fifty	50	550/=	METER	27500/=
79	COUNT DOWN TIMER COMPLETE 12" Fourteen Thousand five Hundred	21	14500/=	Each	3,04,500/=

16/7

1643900/=

SILICON COMMERCIAL CORPORATION
Plot No. 11, Mehmood Estate Block 2 & 3 Floor, Adam Park Colony, Sikandar Lane, University Road, Karachi
SECURITY

Chief Engineer (Traffic Engineering & Transportation) Karachi Metropolitan Corporation

7

NAME OF WORK: INSTALLATION / IMPROVEMENT AND UP-GRADATION OF EXISTING TRAFFIC SIGNALS
IN KARACHI ZONE - I SOUTH ZONE

S.NO	ITEM	QTY OR NOS	RATES	UNIT	AMOUNT
80	POWER SUPPLY UNIT FOR LED BALL Nine Hundred Twenty	25	920/=	Each	23000/=
81	CLAMP WITH LOCK FOR CONTROLLER CASING Three Thousand	5	3000/=	Each	15000/=
82	SOLLAR FLASHER IN 200 MM LIGHT ASPECT Fifteen Thousand	5	15000/=	Each	75000/=
83	UPS 1000 WATT (ARTIFICAL SIGN WAVES) Fourty five Thousand	3	45000/=	Each	1,35,000/=
84	DRY BATTERY 100 AMP MAINTENANCE FREE Twenty one Thousand	6	21000/=	Each	1,26,000/=
2-B	INSTALLATION / DISMANTLING CHARGES OF PARTS.				
1	T-400 OR ST-800 CONTROLLER 16 PHASE INCLUDING COMMISSIONING & TESTING WITH RE- BLOWING OF EPROM. Six Thousand	1	6000/=	Each	6000/=
2	T-400 OR ST-800 CONTROLLER 8 PHASE INCLUDING COMMISSIONING & TESTING WITH RE- BLOWING OF EPROM. Six Thousand	3	6000/=	Each	18000/=
3	SIMATIC OR EQUVILENT CONTROLLER INCLUDING				
	COMMISSIONING & TESTING Two Thousand	1	2000/=	Each	2000/=
4	CONTROLLER BASE Five Hundred	1	500/=	Each	500/=
5	MAIN PROCESSOR CARD Four Hundred	1	400/=	Each	400/=
6	4 OR 8 PHASE DRIVER CARD Four Hundred	1	400/=	Each	400/=
7	POWER SUPPLY UNIT Three Hundred	1	300/=	Each	300/=
8	HRC FUSE Fifty	5	50/=	Each	250/=

4,01,850/=

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SILICON COMMUNICATION & SECURITY

NAME OF WORK: INSTALLATION / IMPROVEMENT AND UP-GRADATION OF EXISTING TRAFFIC SIGNALS IN KARACHI ZONE - I SOUTH ZONE

S.NO	ITEM	QTY OR NOS	RATES	UNIT	AMOUNT
9	CAPACITOR Fifty	1	50/=	Each	50/=
	SIGNAL HEADS POLY CARBONIZED				
10	3-WAY ASPECT 200 MM Seven Hundred	10	700/=	Each	7000/=
11	3-WAY ASPECT 300 MM One Thousand Three Hundred	5	1300/=	Each	6500/=
12	2-WAY ASPECT 200 MM Six Hundred fifty	5	650/=	Each	3250/=
13	1-WAY ASPECT 300 MM Five Hundred	3	500/=	Each	1500/=
14	1-WAY ASPECT 200 MM Four Hundred	1	400/=	Each	400/=
15	PEDESTRIAN PUSH BUTTON One Hundred fifty	1	150/=	Each	150/=
	PARTS OF 200 MM SIGNAL HEADS				
16	GLASS One Hundred fifty	1	150/=	Each	150/=
17	HOOD One Hundred	1	100/=	Each	100/=
18	RUBBER GGASKIT Fifty	5	50/=	Each	250/=
19	REFLECTOR Fifty	10	50/=	Each	500/=
20	MOUNTING BRACKET Fifty	1	50/=	Each	50/=
21	ARROW BRACKET Fifty	1	50/=	Each	50/=
22	ARROW MASK Fifty	5	50/=	Each	250/=

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20200/=

Chief Engineer (Traffic) Traffic Engineering & Communication Dept. Karachi Metropolitan Corporation

SILICON COMMUNICATION (PVT) LTD. Suit 4, 2nd Floor, Nandlal Square SB-42, Jakan Pre Emption, Scheme No. 11, University Rd Karachi

(2)

NAME OF WORK: INSTALLATION / IMPROVEMENT AND UP-GRADATION OF EXISTING TRAFFIC SIGNALS IN KARACHI ZONE - I SOUTH ZONE

S.NO	ITEM	QTY OR NOS	RATES	UNIT	AMOUNT
	PARTS OF 300 MM SIGNAL HEADS				
23	GLASS Two Hundred	10	200/=	Each	2000/=
24	HOOD One Hundred fifty	15	150/=	Each	2250/=
25	RUBBER GASKIT Eighty	5	80/=	Each	400/=
26	REFLECTOR Eighty	5	80/=	Each	400/=
27	ARROW BRACKET Fifty	1	50/=	Each	50/=
28	HANGING BRACKET One Hundred fifty	1	150/=	Each	150/=
29	ARROW MASK One Hundred	5	100/=	Each	500/=
	OTHER PARTS				
30	STANDARD POLE AS PER EXISTING SAMPLE Seven Hundred fifty	10	750/=	Each	7500/=
31	MAST ARM POLE AS PER EXISTING SAMPLE Seven Thousand five Hundred	5	7500/=	Each	37500/=
32	LAYING OF CABLE 12 CORE Fifty	50	50/=	METER	2500/=
	SUB TOTAL 2-A +2-B				11116100/=
	1- ROUTINE MAINTENANCE Sixty Six lac ninty Six Thousand				6696000/=
	2- CHARGEABLE MAINTENANCE One Caror eleven lac Ten Thousand one Hundred				11110100/=
	TOTAL One Caror Seventy eight lac Six Thousand one Hundred only.				17806100/=

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SILICON COMMUNICATION SECURITY

Director Communication Dept. Karachi Metropolitan Corporation

(6)

ESTIMATE (ZONE - II) CENTRAL,WEST,EAST AND MALIR ZONE

NAME OF WORK: INSTALLATION / IMPROVEMENT AND UP-GRADATION OF EXISTING TRAFFIC SIGNALS IN KARACHI ZONE - II CENTRAL,WEST,EAST AND MALIR ZONE

S.NO	ITEM	QTY OR NOS	RATES	UNIT	AMOUNT
1	ROUTINE MAINTENANCE OF TRAFFIC LIGHT SIGNAL EQUIPMENT OF UTC AND NON-UTC SYSTEM AS PER TERMS & CONDITIONS AND SCOPE OF MAINTENANCE ATTACHED AND AS INSTRUCTIONS AND DIRECTION OF THE ENGINEER INCHAEGE.	60 JUNCT FOR 12 MONTHS	Nine Thousand Three Hundred 9300/=	MONTH/JUNCTION	6696000/=
	SUB TOTAL				
2	CHARGEABLE MAINTENANCE OF SIGNALS				
2-A	SUPPLY AND REPLACEMENT OF PARTS.				
2-B	INSTALLATION / DISMANTLING CHARGES OF PARTS.				
2-A	SUPPLY AND REPLACEMENT OF PARTS.				
	PARTS OF T-400 CONTROLLER				
1	CONTROLLER BASE Six Thousand	1	6000/=	Each	6000/=
2	MAIN PROCESSOR CARD Eighty five thousand	5	85000/=	Each	4,25,000/=
3	4-PHASE DRIVER CARD Ninty five thousand	10	94000/=	Each	9,40,000/=
4	POWER SUPPLY UNIT Sixty Three Thousand	10	63000/=	Each	6,30,000/=
5	H.R.C.FUSE Two Hundred	1	200/=	Each	200/=
6	CAPACITOR Four Hundred	1	400/=	Each	400/=
7	CLOCK MODULE Three thousand Five Hundred	5	3500/=	Each	17500/=
8	T-400 OR EQUVELENT 8 - PHASE Six lac fifty thousand	1	6,50,000/=	Each	6,50,000/=

Total = 2669100/=

Chief Engineer (Traffic Engineering & Communication Dept.) Karachi Metropolitan Corporation

SILICON COMMUNICATION Suit 4, 2nd Floor, Nanduar Square 53-12 Adam Park Frontier Scheme No. 11, University Rd. Karachi

ESTIMATE (ZONE - II) CENTRAL,WEST,EAST AND MALIR ZONE

NAME OF WORK: INSTALLATION / IMPROVEMENT AND UP-GRADATION OF EXISTING TRAFFIC SIGNALS IN KARACHI ZONE - II CENTRAL,WEST,EAST AND MALIR ZONE

S.NO	ITEM	QTY OR NOS	RATES	UNIT	AMOUNT
	PARTS OF ST-800 CONTROLLER				
9	POWER SUPPLY UNIT Twenty five thousand	5	25000/=	Each	1,25,000/=
10	C P U Seventy five thousand	1	75000/=	Each	75000/=
11	8-PHASE DRIVER CARD Fifty six thousand five hundred	5	56500/=	Each	2,82,500/=
12	ST-800 OR EQUEVELENT CONTROLLER 16 PHASE Five lac thirty five thousand	1	5,35,000/=	Each	5,35,000/=
13	ST-800 OR EQUEVELENT CONTROLLER 8- PHASE Five lac twenty thousand	1	5,20,000/=	Each	5,20,000/=
	PARTS OF SIMATIC OR EQUVILENT CONTROLLER				
14	SIMATIC OR EQUVILENT CONTROLLER Fourty thousand	1	40000/=	Each	40000/=
15	CENTRAL PROCESSING CARD Twenty five thousand	10	25000/=	Each	2,50,000/=
16	POWER SUPPLY Twenty thousand	10	20000/=	Each	2,00,000/=
17	RELAY OUT PUT CARD Ten thousand five hundred	10	10500/=	Each	1,05,000/=
18	ELECTRIC FLASHER Two hundred	5	200/=	Each	1000/=
19	CONTROLLER CASING Twelve thousand	2	12000/=	Each	24000/=
20	BACKUP BATTERY One thousand eight hundred	2	1800/=	Each	3600/=
	SIGNAL HEADS POLY CARBONIZED (GERMAN.TURKISH)				
21	3-WAY ASPECT 200 MM Twenty four thousand five hundred	15	24500/=	Each	3,67,500/=
22	3-WAY ASPECT 200 MM (WITH LED BALL) Thirty three thousand five hundred	10	33500/=	Each	3,35,000/=

Total = 2863600/=

Chief Engineer
Transport & Communication Deptt.
Karachi Metropolitan Corporation

SILICON COMMUNICATION SECURITY
Shop 4, 2nd Floor, Nainder Square SB-12 Askari Park Comm. Scheme No. 11, University Rd. Karachi

ESTIMATE (ZONE - II) CENTRAL,WEST,EAST AND MALIR ZONE

NAME OF WORK: INSTALLATION / IMPROVEMENT AND UP-GRADATION OF EXISTING TRAFFIC SIGNALS IN KARACHI ZONE - II CENTRAL,WEST,EAST AND MALIR ZONE

S.NO	ITEM	QTY OR NOS	RATES	UNIT	AMOUNT
23	3-WAY ASPECT 300 MM Thirty two thousand	5	32000/=	Each	1,60,000/=
24	3-WAY ASPECT 300 MM (WITH LED BALL) Fourty four Thousand five Hundred	5	44500/=	Each	2,22,500/=
25	2-WAY ASPECT 200 MM Eighteen thousand	5	18000/=	Each	90000/=
26	2-WAY ASPECT 200 MM (WITH LED BALL) Twenty five Thousand	5	25000/=	Each	1,25,000/=
27	1-WAY ASPECT 300 MM Twelve Thousand five Hundred	4	12500/=	Each	50000/=
28	1-WAY ASPECT 300 MM (WITH LED BALL) Seventeen thousand	2	17000/=	Each	34000/=
29	1-WAY ASPECT 200 MM Ten thousand five Hundred	20	10500/=	Each	2,10,000/=
30	1-WAY ASPECT 200 MM (WITH LED BALL) Fourteen thousand	10	14000/=	Each	1,40,000/=
31	PEDESTRIAN PUSH BUTTON One thousand one Hundred	1	1100/=	Each	1100/=
	PARTS OF 200 MM SIGNAL HEADS (GERMAN , TURKISH)				
32	GLASS One thousand one Hundred	50	1100/=	Each	55000/=
33	HOOD One thousand One Hundred	50	1100/=	Each	55000/=
34	RUBBER GASKIT One Hundred	5	100/=	Each	500/=
35	REFLECTOR One Hundred	5	100/=	Each	500/=
36	MOUNTING BRACKET Four Hundred	6	400/=	Each	2400/=
37	ARROW BRACKET Two Hundred	8	200/=	Each	1200/=
38	ARROW MASK One Hundred	5	100/=	Each	500/=
39	LED BALLS 200 MM Three thousand two Hundred fifty	30	3250/=		97500/=

Total = 12452000/=

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Chief Engineer
Transport & Communication
Karachi Metropolitan Corporation

SILICON COMMUNICATION
Suit 4, 2nd Floor Nandar Square SB-12 Asfar Fare Colony Scheme No. 11, University Rd Karachi

ESTIMATE (ZONE - II) CENTRAL,WEST,EAST AND MALIR ZONE

NAME OF WORK: INSTALLATION / IMPROVEMENT AND UP-GRADATION OF EXISTING TRAFFIC SIGNALS IN KARACHI ZONE - II CENTRAL,WEST,EAST AND MALIR ZONE

S.NO	ITEM	QTY OR NOS	RATES	UNIT	AMOUNT
	PARTS OF 300 MM SIGNAL HEADS (GERMAN , TURKISH)				
40	GLASS Twelve Hundred	4	1200/=	Each	4800/=
41	HOOD One thousand three Hundred fifty	4	1350/=	Each	5400/=
42	RUBBER GASKIT One Hundred	3	100/=	Each	300/=
43	REFLECTOR One Hundred	2	100/=	Each	200/=
44	ARROW BRACKET Two Hundred	1	200/=	Each	200/=
45	HANGING BRACKET Four thousand	5	4000/=	Each	20000/=
46	ARROW MASK Two Hundred	1	200/=	Each	200/=
47	LED BALLS 300 MM Four thousand two Hundred	30	4200/=		1,26,000/=
48	STANDARD POLE AS PER EXISTING SAMPLE Ten thousand	1	10000/=	Each	10000/=
49	CONSTRUCTION OF FOUNDATION FOR STANDARD POLE . Four thousand five Hundred		4500/=		22500/=
	(COMPLETE) AS PER SPECS.	5		Each	
50	MAST ARM POLE AS PER EXISTING SAMPLE Fifty two thousand	1	52000/=	Each	52000/=
51	CONSTRUCTION OF FOUNDATION FOR MAST ARM POLE				
	(COMPLETE) AS PER SPECS. Ten thousand five Hundred	5	10500/=	Each	52500/=
52	SUPPLY & LAYING OF 2 NOS GI PIPE (H.D) 4" DIA IN DUCT				
	UNDER THE ROAD CARRIAGE WAY/ FOOTWAY I/C COST				
	OF CONSTRUCTION OF DUCT AND MAKING GOOD THE ROAD				

Total = 294100/=

Chief Engineer (TC&C)
Transport & Communication Dept.
Karachi Metropolitan Corporation

SILICON COMMUNICATION
Shop 4, 2nd Floor
Nandan Square SB-13
Ashar Fani Chorangi Scheme
No. 11,
University Rd. Karachi

ESTIMATE (ZONE - II) CENTRAL,WEST,EAST AND MALIR ZONE

NAME OF WORK: INSTALLATION / IMPROVEMENT AND UP-GRADATION OF EXISTING TRAFFIC SIGNALS IN KARACHI ZONE - II CENTRAL,WEST,EAST AND MALIR ZONE

S.NO	ITEM	QTY OR NOS	RATES	UNIT	AMOUNT
	Two Thousand One Hundred COMPLETE AS PER DIRECTION OF THE ENGINEER INCHARGE.	15	2100/=	METER	31500/=
53	SUPPLY & LAYING OF 1 NO GI PIPE (H.D) 4" DIA IN DUCT				
	UNDER THE ROAD CARRIAGE WAY/ FOOTWAY I/C COST				
	OF CONSTRUCTION OF DUCT AND MAKING GOOD THE ROAD				
	One Thousand four Hundred COMPLETE AS PER DIRECTION OF THE ENGINEER INCHARGE.	50	1400/=	METER	70000/=
54	SUPPLY & LAYING OF 1 NO GI PIPE (H.D) 2" DIA IN DUCT				
	UNDER THE ROAD CARRIAGE WAY/ FOOTWAY I/C COST				
	OF CONSTRUCTION OF DUCT AND MAKING GOOD THE ROAD				
	One Thousand COMPLETE AS PER DIRECTION OF THE ENGINEER INCHARGE.	100	1000/=	METER	1,00,000/=
55	Four Hundred five CABLE 12 CORE ARMOURED PVC/PVC COPPER CONDUCTOR	1500	405/=	METER	6,07,500/=
56	Four Thousand KESC BOX (BREAKER30.A, INDICATION LAMP, VOLT METER)	5	4000/=	Each	20000/=
57	POWER CABLE 3 CORE 6MM Three Hundred Sixty five	1000	365/=	METER	3,65,000/=
58	AUTOCHANGEOVER SWITCH (COMPLETE) Five Thousand	1	5000/=	Each	5000/=
59	CIRCUIT BREAKER 30 A Four Hundred fifty	10	450/=	Each	4500/=
60	CONTACTOR One Thousand two Hundred	1	1200/=	Each	1200/=
61	TIMER Four Hundred	1	400/=	Each	400/=

Total = 1205100/=

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Chief Engineer (I)
Transport & Communications
Karachi Metropolitan Corporation

SILICON COMMUNICATION
Suit 4, 2nd Floor, Alamdar Square SB-4, Ashan Park Gulshan Iqbal
No. 11, University Rd Karachi

(5)

ESTIMATE (ZONE - II) CENTRAL,WEST,EAST AND MALIR ZONE

NAME OF WORK: INSTALLATION / IMPROVEMENT AND UP-GRADATION OF EXISTING TRAFFIC SIGNALS IN KARACHI ZONE - II CENTRAL,WEST,EAST AND MALIR ZONE

S.NO	ITEM	QTY OR NOS	RATES	UNIT	AMOUNT
62	RECONSTRUCTION OF OLD CHAMBER Two thousand Eight Hundred	10	2800/=	Each	28000/=
63	REPAIR OF OLD CHAMBER Two thousand four Hundred fifty	10	2450/=	Each	24500/=
64	PROVIDING & FIXING OF CHAMBER COVER Two thousand one Hundred	10	2100/=	Each	21000/=
65	DUCT WITH (PVC) PIPE 2" DIA Five Hundred	25	500/=	METER	12500/=
66	REPAIR OF STANDARD POLE Two thousand Six Hundred fifty	5	2650/=	Each	13250/=
67	REPAIR OF MAST ARM POLE Nine thousand five Hundred	2	9500/=	Each	19000/=
68	POLE COVER FOR MAST ARM POLE Six Hundred	5	600/=	Each	3000/=
69	POLE COVER FOR STANDARD POLE Four Hundred	10	400/=	Each	4000/=
70	REPAIR OF MAST ARM POLE FOUNDATION Four thousand four Hundred	2	4400/=	Each	8800/=
71	REPAIR OF STANDARD POLE FOUNDATION One thousand four Hundred	10	1400/=	Each	14000/=
72	REPAIR OF POWER SUPPLY ST-800 AND T-400 CONTROLLER Seven thousand five Hundred	75	7500/=	Each	5,62,500/=
73	FRONT DOOR OF CONTROLLER CASING T-400, ST-800 Five thousand five Hundred	2	5500/=	Each	11000/=
74	BACK DOOR OF CONTROLLER CASING T-400, ST-800 Five thousand five Hundred	2	5500/=	Each	11000/=
75	REPAIR OF CONTROLLER CASING T-400, ST-800 Six thousand five Hundred	2	6500/=	Each	13000/=
76	WIRE 7/ 36 Seventy five	500	75/=	METER	37500/=
77	WIRE 12 CORE PVC / PVC COPPER CONDUCTOR Two Hundred sixty	2000	260/=	METER	5,20,000/=
78	UPVC PIPE 4" DIA Five Hundred fifty	50	550/=	METER	27500/=
79	COUNT DOWN TIMER COMPLETE 12" Fourteen thousand five Hundred	21	14500/=	Each	3,04,500/=
80	POWER SUPPLY UNIT FOR LED BALL Nine Hundred twenty	25	920/=	Each	23000/=

Total = 1658050/=

Chief Engineer (TC&O)
Transport & Communication Dept.
Karachi Metropolitan Corporation

SILICON COMMUNICATION
Suit 4, 2nd Floor, Nandar Sadan, SB-13, Asian Park Comm. Society, University Rd. Karachi
No. 11,

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ESTIMATE (ZONE - II) CENTRAL,WEST,EAST AND MALIR ZONE

NAME OF WORK: INSTALLATION / IMPROVEMENT AND UP-GRADATION OF EXISTING TRAFFIC SIGNALS IN KARACHI ZONE - II CENTRAL,WEST,EAST AND MALIR ZONE

S.NO	ITEM	QTY OR NOS	RATES	UNIT	AMOUNT
81	CLAMP WITH LOCK FOR CONTROLLER CASING Three Thousand	5	3000/=	Each	15000/=
82	SOLLAR FLASHER IN 200 MM LIGHT ASPECT Fifteen Thousand	5	15000/=	Each	75000/=
83	UPS 1000 WATT (ARTIFICAL SIGN WAVES) Fourty five Thousand	3	45000/=	Each	1,35,000/=
84	DRY BATTERY 100 AMP MAINTENANCE FREE Twenty one Thousand	6	21000/=	Each	1,26,000/=
2-B	INSTALLATION / DISMANTLING CHARGES OF PARTS.				
1	T-400 OR ST-800 CONTROLLER 16 PHASE INCLUDING COMMISSIONING & TESTING WITH RE- BLOWING OF EPROM. Six Thousand	1	6000/=	Each	6000/=
2	T-400 OR ST-800 CONTROLLER 8 PHASE INCLUDING COMMISSIONING & TESTING WITH RE- BLOWING OF EPROM. Six Thousand	3	6000/=	Each	18000/=
3	SIMATIC OR EQUVILENT CONTROLLER INCLUDING COMMISSIONING & TESTING Two Thousand	1	2000/=	Each	2000/=
4	CONTROLLER BASE Five Hundred	1	500/=	Each	500/=
5	MAIN PROCESSOR CARD Four Hundred	1	400/=	Each	400/=
6	4 OR 8 PHASE DRIVER CARD Four Hundred	1	400/=	Each	400/=
7	POWER SUPPLY UNIT Three Hundred	1	300/=	Each	300/=
8	HRC FUSE Fifty	5	50/=	Each	250/=

Total = 3758 50/=

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Chief Engineer (TC&O)
Transport & Communication Deptt.
Karachi Metropolitan Corporation

SILICON COMMUNICATION
Suite 4, 2nd Floor, Nandar Square Shop, Askari Pre Court Sabzi Mandi No. 11, University Rd Karachi

ESTIMATE (ZONE - II) CENTRAL,WEST,EAST AND MALIR ZONE

NAME OF WORK: INSTALLATION / IMPROVEMENT AND UP-GRADATION OF EXISTING TRAFFIC SIGNALS IN KARACHI ZONE - II CENTRAL,WEST,EAST AND MALIR ZONE

S.NO	ITEM	QTY OR NOS	RATES	UNIT	AMOUNT
9	CAPACITOR Fifty	1	50/=	Each	50/=
	SIGNAL HEADS POLY CARBONIZED				
10	3-WAY ASPECT 200 MM Seven Hundred	10	700/=	Each	7000/=
11	3-WAY ASPECT 300 MM One Thousand Three Hundred	5	1300/=	Each	6500/=
12	2-WAY ASPECT 200 MM Six Hundred fifty	5	650/=	Each	3250/=
13	1-WAY ASPECT 300 MM Five Hundred	3	500/=	Each	1500/=
14	1-WAY ASPECT 200 MM Four Hundred	1	400/=	Each	400/=
15	PEDESTRIAN PUSH BUTTON One Hundred fifty	1	150/=	Each	150/=
	PARTS OF 200 MM SIGNAL HEADS				
16	GLASS One Hundred fifty	1	150/=	Each	150/=
17	HOOD One Hundred	1	100/=	Each	100/=
18	RUBBER GGASKIT Fifty	5	50/=	Each	250/=
19	REFLECTOR Fifty	10	50/=	Each	500/=
20	MOUNTING BRACKET Fifty	1	50/=	Each	50/=
21	ARROW BRACKET Fifty	1	50/=	Each	50/=
22	ARROW MASK Fifty	5	50/=	Each	250/=

Total = 20200/=

Chief Engineer (TC&C)
Transport & Communication Deptt.
Karachi Metropolitan Corporation

SILICON COMMUNICATION
Unit 4, 7th Floor
Nusrat Square SB-12
Ashari Pam Colony Scheme
No. 11,
University Rd. Karachi

ESTIMATE (ZONE - II) CENTRAL,WEST,EAST AND MALIR ZONE

NAME OF WORK: INSTALLATION / IMPROVEMENT AND UP-GRADATION OF EXISTING TRAFFIC SIGNALS IN KARACHI ZONE - II CENTRAL,WEST,EAST AND MALIR ZONE

S.NO	ITEM	QTY OR NOS	RATES	UNIT	AMOUNT
	PARTS OF 300 MM SIGNAL HEADS				
23	GLASS Two Hundred	10	200/=	Each	2000/=
24	HOOD One Hundred fifty	15	150/=	Each	2250/=
25	RUBBER GASKIT Eighty	5	80/=	Each	400/=
26	REFLECTOR Eighty	5	80/=	Each	400/=
27	ARROW BRACKET Fifty	1	50/=	Each	50/=
28	HANGING BRACKET One Hundred fifty	1	150/=	Each	150/=
29	ARROW MASK One Hundred	5	100/=	Each	500/=
	OTHER PARTS				
30	STANDARD POLE AS PER EXISTING SAMPLE Seven Hundred fifty	10	750/=	Each	7500/=
31	MAST ARM POLE AS PER EXISTING SAMPLE Seven Thousand five Hundred	5	7500/=	Each	37500/=
32	LAYING OF CABLE 12 CORE Fifty	50	50/=	METER	2500/=
	SUB TOTAL 2-A +2-B				10387450/=
	1- ROUTINE MAINTENANCE Sixty Six lac Ninty Six Thousand				6696000/=
	2- CHARGEABLE MAINTENANCE One Caror Three lac eighty Seven Thousand four fifty				10387450/=
	TOTAL				17083450/=

One Caror Seventy lac eighty three Thousand four Hundred & fifty only.

SILICON COMMUNICATION SECURITY
Plot No. 11, University Rd Karachi

DETAIL OF WORK

NAME OF THE PROJECT

INSTALLATION / IMPROVEMENT & UP-GRADATION OF EXISTING TRAFFIC SIGNALS IN KARACHI (ZONE-I & ZONE-II)

SUMMARY / SCOPE OF WORK:

KMC intend to Improvement / Installation and Up-gradation of existing signals including routine checkup of system and make in functional condition. The traffic signal of Karachi at the various locations as per detail analysis of required and traffic demand. The scheme has been approved by the competent authority. The signals are already in operation at various locations of the city controlled by KMC. The list is attached for ready reference.

ESTIMATED COST OF THE SUBJECT WORK

ZONE-I ESTIMATED COST OF	RS.17912120/=
ZONE-II ESTIMATED COST OF	RS.17083545/=
TOTAL	RS.34, 995,665/=

SOURCE OF FUNDING:

KMC Budget / District Annual Development Programme

AMOUNT & TYPE OF FINANCING:

KMC Budget / District Annual Development Programme

Chief Engineer (TC&O)
Transport & Communication Deptt.
Karachi Metropolitan Corporation

METHOD OF PROCUREMENT USED

SINGLE STAGE – TWO ENVELOPE PROCEDURE (RULE 46 (2) OF SPP RULE 2010)

46 (2) SINGLE STAGE – TWO ENVELOPE PROCEDURE

a) Notice Inviting Tender and bidding documents of this method shall contain the following eligibility criteria:

- The following works from Firm / Contractors Registered with P.E.C in C-4 Category With special category for signalization work EE-06, EE-07 & CE-10 and having Valid/renewed license of PEC.
- Valid Electrical License of the Firm issued from Government of Sindh.
- Valid NTN and paid up original challan of professional Tax prescribed fee.
- The bidders shall provide evidence to the satisfaction of employer of their eligibility and their capability and adequacy of resources to carryout the contract effectively.
- Tenders will be issued to those firms/contractors who provide letter from principle / original equipment manufacturer for promising of technical and equipment supply support.
- The Firm/Contractor minimum last four years experience in relevant field with any public sector / organization.
- The Firm /Contractor must have laboratory duly equipped with necessary tools and soft wear for repair, configuration and re-configuration of the controller.
- The Firm / Contractor have must sufficient inventory / procurement arrangement of Genuine Spare Parts (attach documentary evidence).

b) All bids received shall be opened and evaluated in the manner prescribed in the Notice Inviting Tender or bidding document.

SILICON COMMUNICATIONS
Shop 4, 2nd Floor
Nandan Centre
Ashiq Ali Centre
No. 11
University Rd. Karachi

Minimum Qualification / Eligibility Criteria

The evidence / document of the following minimum qualification / eligibility criteria will be checked during opening process of tender & if anyone missing than the tender will be similarly rejected at the monument by the tender opening committee.

Eligibility

- Valid PEC in C-4 category along with special category for signalization Work EE-06 , EE-07 & CE-10.

- Electrical License of the firm issued from Government of Sindh.
- Valid NTN Certificate.
- Valid Professional Tax Certificate.
- Minimum last four years experience in relevant field with any public sector / organization.

Minimum Qualification Criteria

- Bid security , as mention in the NIT and bidding document , is furnished
- All rates quoted including the total amount of the bid shall be in figures and words (both)
- All correction / overwriting shall be clearly re written with initial and duly stamp by the bidder
- The bid shall be properly sign name and stamped by the authorized person of the firm and authorization letter for signatory shall be enclosed with the tender by the authorized person , if other than the signatory of the firm
- Evidence of employing engineer as declared in the PEC license should be provided in shape of copy of engineer registration certificate by PEC
- Bank certificate of firm
- The minimum work experience with satisfactory completion report in last four years in maintenance / installation of traffic signals.

FACILITIES TO BE PROVIDED BY CONTRACTOR

The Contractor has to pay a sum of Rs.10, 000/- (Rupees Ten Thousand Only) per month for Twelve (12) Months towards salary of Computer Operator / other temporary staff required to be engaged by the Employer and Rs. 3,000/- (Rupees Three Thousand Only) Per Month towards Pay Card for Mobile for Engineering Staff of TC&O (TCD) KMC and a Photocopier and a Fax Machine, Office Furniture or Stationeries etc. up to the extent of Rs.2, 00,000/-. The contract will include the cost in the BOQ rate; no separate payment will be made to the Contractor.

APPENDIX "A"

LIST OF INTERSECTION NAME

SILICON COMMUNICATIONS
Chief Engineer (Office)

ST OF TRAFFIC SIGNALS UNDER TRANSPORT & COMMUNICATION DEPARTMENT SOUTH ZONE

O	S.CODE	NAME OF INTERSECTION
	321	M.A.JINNAH ROAD / MOHD BIN QASIM ROAD (JAMA CLOTH)
	322	M.A.JINNAH ROAD / BABA-E-URDU ROAD (DMC)
	323	M.A.JINNAH ROAD / HASSAN ALI AFFANDI RD / DR.ZIAUDDIN AHMED RD (LIGHT HOUSE)
	324	M.A.JINNAH ROAD / ALTAF HUSSAIN ROAD (DENSO HALL-A)
	324	M.A.JINNAH ROAD / TAHIR SAIFUDDIN ROAD (DENSO HALL-B)
	332	SHAHRAE-E-LIAQUAT / MUHAMMAD BIN QASIM ROAD (FRESCO CHOWK)
	333	SHAHRAE-E-LIAQUAT / DR.ZIAUDDIN ROAD (ARAM BAGH - A)
	333	SHAHRAE-E-LIAQUAT / BABA-E-URDU ROAD (ARAM BAGH -B)
	334	SHAHRAE-E-LIAQUAT / TAYYAB JI ROAD (PAPER MARKET)
	335	SHAHRAE-E-LIAQUAT / ALTAF HUSSAIN HALI ROAD (NEW CHALLI)
	342	OLD NED CAMPUS / M.BIN QASIM ROAD
	351	I.I.CHUNDRIGAR ROAD / M.R.KIYANI RD / DR.ZIAUDDIN ROAD (SHAHEEN COMPLEX)
	411	SULTAN AGHA KHAN ROAD / KIYANI SHAHEED ROAD (MAKKI MASJID)
	413	M.A.JINNAH ROAD / MANSFIELD STREET (CAPRI)
	414	M.A.JINNAH ROAD / DAWOOD POTA ROAD (SEVEN DAY)
	415	M.A.JINNAH ROAD / AGHA KHAN ROAD (KANDA WALLA)
	416	M.A.JINNAH ROAD / HAKIM FATEH MOHD SEHWANI ROAD (PREEDY STREET TIBET CENTRE)
	417	M.A.JINNAH ROAD / JAMILA STREET (SAEED MANZIL)
	421	SAGHIR SHAHEED ROAD / MANSFIELD STREET (SHALAMAR CHOWK)
	422	SAGHIR SHAHEED ROAD / DAWOOD POTA ROAD (GRAMMER SCHOOL)
	423	SULTAN AGHA KHAN ROAD / CASTLE STREET (BAMBINO STAR CINEMA)
	424	PREEDY STREET / TEMPLE ROADP (REEDY POLICE STATION)
	431	PREEDY STREET / DAWOOD POTA ROAD (EMPRESS MARKET)
	432	PREEDY STREET / ZAIBUN-NISA-STREET (SINGER)
	433	ABDULLAH HAROON ROAD / PREEDY STREET (REGAL CHOWK)
	434	SHAHRAE-E-LIAQUAT / SIR GHULAM HUSSAIN HIDAYAT ULLAH ROAD (AKBER ROAD)
	435	SHAHRAE-E-LIAQUAT / COURT ROAD
	441	SHAHRA-E-IRAQ / MANSFILD STREET (CIA CENTRE)
	442	SHAHRAH-E-IRAQ / MIR KARAM ALI TALPUR ROAD (CHILTON HOTEL)
	443	SHAHRA-E-IRAQ / DR.DAWOOD POTA ROAD (HONG KONG SHOPPING MALL)
	444	RAJA GHAZANFAR ALI KHAN ROAD / SHAHRAH-E-IRAQ (BHORI BAZAR)
	445	SHAHRA-E-IRAQ / ZAIBUNNISA STREET (RUBY JEWELERS)
	446	ABDULLAH HAROON ROAD / SHAHRA-E-IRAQ (PARADISE)
	451	RAFIQUE SHAHEED ROAD / MANSFILD STREET / MIR KARAM ALI TALPUR RD (LUCKY STAR)
	452	SARWAR SHAHEED ROAD / DR.DAWOOD POTA ROAD (CAFÉ SUBHANI)

6	453	SARWAR SHAHEED ROAD / RAJA GHAZANFAR ALI ROAD (HOTEL SARAWAN)
7	454	ZAIB-UN-NISA STREET / SARWAR SHAHEED ROAD (ZAFAR MARBLE)
8	455	ABDULLAH HAROON ROAD / SARWAR SHAHEED ROAD (ZAINUB MARKET)
9		MUMTAZ HASSAN/II CHUND RD
0		TALPUR ROAD/II CHUND RD
1		HABIB BANK/ II CHUND RD
2		ALTAF HUSSAIN /II CHUND RD
3		TOWER / M.A.JINNAH ROAD
4		SADDAR DAWAKHANA / MAINSFIELD STREET
5	461	SHAHRA-E-FAISAL / RAFIQUE SHAHEED ROAD (TAJ MEHAL HOTEL)
6	462	SHAHRA-E-FAISAL / DR.DAWOOD POTA ROAD (HOTEL MEHRAN)
7	463	SHAHRA-E-FAISAL / FATIMA JINNAH ROAD (AVARI TOWERS)
8	464	ABDULLAH HAROON ROAD / CLUB ROAD (HOTEL METROPOLE)
9	511	DR. ZIAUDDIN AHMED ROAD / M.T.KHAN ROAD (PIDC)
0	521	HOSHANG ROAD/ ABDULLAH HAROON ROAD
1		BOAT BASIN CLIFTON
2		AGHA KHAN JAMAT KHANA CLIFTON
3		THREE SWORD / KHAYABAN-E-IQBAL
4		RACE COURSE / CH.KHALIQ-UZ-ZAMAN ROAD
5		CH. KHALIQ UZZAM / LILLY BRIDGE
6		LILLY ROAD / CANT STATION ROAD
7		HOSHANG CHORANGI/ ZIAUDDIN AHMED ROAD
8		KHOTHARI PRADE / PARK TOWER CLIFTON
9		CHAND BIBI BRIDGE / CSD / KALA PUL
0		INFRONT OF C M HOUSE

LIST OF TRAFFIC SIGNALS UNDER TRANSPORT & COMMUNICATION DEPARTMENT		
CENTRAL ZONE		
S.NO	S.CODE	NAME OF INTERSECTION
1		TEEN HATTI / JAHANGIR ROAD
2		BOARD OFFICE / SHER SHAH SORI ROAD
3		LASBELLA / NISHTAR ROAD
4		AL-BELA / NISHTAR ROAD
5		NAZIMABAD CH 1 / NAWAB SIDDIQUE ALI KHAN ROAD
6		BARA BOARD / MANGO PIR ROAD
7		LOVE LANE PAKISTAN / NISHTAR ROAD
8		NAZIMABAD 7 / NAWAB SIDDIQUE ALI KHAN ROAD
9		FIVE STAR CHOWK / SHER SHAH SORI ROAD
10		SHAHRAH-E-PAKISTAN / WATERPUMP
11		SHAHRAH-E-PAKISTAN / AYSHA MANZIL
12		SHAHRA-E-PAKISTAN / KARIMABAD
13		LIAQUATABAD NO-10
14		GRUMANDIR / JAHANGIR ROAD
15		BANORIA CHOWK / JAMSHED ROAD
16		SOLDIER BAZAR / MIRZA ADAM KHAN ROAD
17		OLD EXHIBITION/ M.A.JINNAH ROAD
18		MASKAN CHOWRANGI / ABUL HASSAN ISPHANI ROAD
19		CAFÉ LIBERTY / TARIQ ROAD
20		ALLAH WALLI CHOWRANGI / SHAHRA-E-QUAIDEEN
21		PARADISE BAKERY / ABUL HASSAN ISPHANI ROAD
22		DISCO BAKERY GULSHAN / SHABBIR USMANI ROAD
23		13-D RAILWAY CROSSING / SAHBA AKHTAR ROAD
24		SHARFABAD / ALAMGIR ROAD
25		NOORANI / SHAHRA-E-QUAIDEEN
26		YASEEN ABAD / SHABBIR USMANI ROAD
27		RUB HOSPITAL GULSHAN / SHABBIR USMANI ROAD
28		SIRSYED / KHALID BIN WALEED ROAD
29		ALAMA IQBAL/ KHALID BIN WALEED ROAD
30		MEDI CARE / SHAHEED MILAT ROAD
31		MOUCHI MOR / SHABBIR USMANI ROAD
32		M.CHOWRANGI / SHAHEED MILAT ROAD
33		RAZI ROAD / PECHS
34		GHANI CHOWRANGI / STATE AVENUE
35		SOCITY CHOWRANGI / SHAHRA-E-QUAIDEEN

Chief Engineer (C&O)
Transportation Deptt.
Karachi Metropolitan Corporation

		EAST ZONE
1		SHAMA SHOPPING SH.FAISAL COLONY
2		ABBAS BA WAZEER SH.FAISAL COLONY
3	720	SHAREA FAISAL / RASHID MINHAS ROAD (DRIG ROAD)
4	721	MILITARY GATE / SHAHRA-E-FAISAL
5	722	STAR GATE / SHAHRA-E-FAISAL
6	724	MALIR HALT / NATIONAL HIGHWAY
7		ARMY SCHOOL / RASHID MINHAS ROAD
8		JOHAR CHOWRANGI / HAFEEZ JALHANDRI ROAD
9		NATIONAL STADIUM / PIR SIBGHATULLAH ROAD
10		NAVY GATE / HIR ROAD
11		AGHA KHAN HOSPITAL / PIR SIBGHATULLAH ROAD
12		SIRAJUD DULAH / SHAHEED-E-MILLAT ROAD
13		TIPU SULTAN ROAD / SHAHEED-E-MILLAT ROAD
14		KORANGI CROSSING / 12000 ROAD
15		NASIR JUMP KORANGI / 12000 ROAD
16		KORANGI NO-5 / 12000 ROAD
17		KORANGI NO-2 1/2 / 12000 ROAD
		WEST ZONE
1		MOUCH MOUR / BALDIA TOWN
2		24 MARKET / BALDIA TOWN
3		5B ROAD / BALDIA TOWN
4		SHERSHA / HUB RIVER ROAD
		MALIR ZONE
1		ALPINE / MODEL COLONY
2		TANK CHOWRANGI / LINK ROAD TO S.HIGHWAY
3	725	KALA BOARD / NATIONAL HIGHWAY
4	726	MALIR-15 / NATIONAL HIGHWAY

1219

OFFICE OF THE CHIEF ENGINEER (TC&O)

TRANSPORT & COMMUNICATION DEPARTMENT

KARACHI METROPOLITAN CORPORATION

8th Floor, Civic Centre, Gulshan-e-Iqbal, University Road, Karachi.

No.C.E/TC&O/T&C/KMC/2013/158 Dated: 26-.07.2013

The Deputy Director (ENF-I),
Sindh Public Procurement Regulatory Authority,
Government of Sindh,
KARACHI

Subject: TCD/SR/DIR/DDO(Sectt)/260/2013/52/2013 DATED 27.05.2013

In context to your letter No. Dir (ENF-I)/1219/SPPRA/37-I(KMC)/12-13/267 dated 17.07.2013, it is clarified that Rules 48 of SPPRA, 2010 has been followed, such as :

(i) The subject mentioned NIT has been advertised in leading English, Daily Dawn dated 31.5.2013 and Urdu local daily Express and Ummet on 30-5.2013 and also uploaded on SPPRA website vide S. No. 16546.(copy of N.IT. published enclosed)

(ii) The Engineer estimate for the work were prepared on the basis of quoted rates of last awarded contract and the present quoted cost of the bidder is within the engineering estimate.

(iii) The bid has been evaluated keeping in view the SPPRA Rules 48 of 2010, and has been recommended accordingly in the evaluation report to upload the same on SPPRA website.

This is for information please.

796
29/7/13

26/07/2013

(Engr: Syed Muhammad Taha)
Chief Engineer
Traffic Control & Operation
T&C Department, KMC

Copy for information please to :

1. The Administrator KMC.
2. The Director General (Tech: Services), KMC, Karachi.
3. The Senior Director (TCD), KMC, Karachi.
4. The MD, SPPRA, Government of Sindh, Karachi.

OFFICE OF THE SENIOR DIRECTOR
TRANSPORT & COMMUNICATION DEPARTMENT
KARACHI METROPOLITAN CORPORATION

8th Floor, Left Wing, Civic Centre, Gulshan-e-Iqbal, Karachi
Ph: 021-99230655 Fax: 99231304

No. TCD/Sr.Dir(DDO(Sectt)/260/2013/52
Dated: 27/05/2013

The Director,
Media Management,
Karachi Metropolitan Corporation,
Civic Centre, Karachi.

Subject:- **NIT FOR "INSTALLATION / IMPROVEMENT & UPGRADATION OF EXISTING TRAFFIC SIGNALS IN KARACHI (ZONE-I AND ZONE-II)"**

Enclosed please find herewith ten (10) copies of NIT for subject mentioned work for publication in the press. Copy of approval of competent authority for publication of advertisement in newspapers is also enclosed please.

Encls : As above.

27/5/2013
(Muhammad Athar)
Senior Director
T&C Department, KMC

Copy along with copy of NIT to :-

1. The Manager (CB), SPPRA, with request to upload on SPPRA website please.
2. The Deputy Director (Web), IT Department, KMC, with request to upload on KMC Website.
3. The Chief Engineer (TC&O), T&C Department, KMC.
4. The Secretary to Administrator Karachi.
5. PS to Metropolitan Commissioner, Karachi.

28/5/2013

Sindh Public Procurement Regulatory Authority
Block 8 & 9, Sindh Secretariat Karachi

OFFICE OF THE SENIOR DIRECTOR
TRANSPORT & COMMUNICATION DEPARTMENT
KARACHI METROPOLITAN CORPORATION

8th FLOOR, CIVIC CENTRE, GULSHAN-E-IQBAL, MAIN UNIVERSITY ROAD, KARACHI
☎ : 9923 0655

NOTICE INVITING TENDER

SINGLE STAGE TWO-ENVELOP SYSTEM (SPPRA Rules 2010)

KMC invites sealed tenders on Single stage –Two Envelop procedure in two separate sealed envelopes, one containing financial proposal and the other containing Technical proposal for the following work. The contractors having experience in similar nature of works and registered with PEC in relevant category having Valid Certificate of PEC and Electrical License from Government of Sindh, can purchase tender documents and submit their bids / proposal in two separate envelopes clearly marked "FINANCIAL PROPOSAL" and "TECHNICAL PROPOSAL" as per the Sindh Public Procurement Rules 2010.

SR.NO	DESCRIPTION	ESTIMATED COST	BID SECURITY	TENDER COST	CATEGORY AS PER PEC ELIGIBILITY CRITERIA
01	INSTALLATION / IMPROVEMENT AND UP-GRADATION OF EXISTING TRAFFIC SIGNALS IN KARACHI (ZONE – I & II)	OFFER RATE	2 % OF OR	RS.3000/=	• PEC C-4 CATEGORY ALONG WITH SPECIAL CATEGORY FOR SIGNALIZATION WORK EE-06 & 07 AND CE-10. • ELECTRICAL LICENSE OF THE FIRM ISSUED FROM GOVT. OF SINDH. • VALID NTN CERTIFICATE. • VALID PROFESSIONAL TAX CERTIFICATE. • MINIMUM LAST FOUR YEARS EXPERIENCE IN EXISTING SIGNALING SYSTEM WITH ANY PUBLIC SECTOR / ORGANIZATION.

Schedule shall be as follows

	SCHEDULE	DATE & TIME	VENUE
01	Receiving Applications & issuance of Tenders	From 05.06.2013 to 20.06.2013 During Office Hours	Office of the Chief Engineer (TC&O) Transport & Communication Dep't., KMC, 8th Floor, Civic Centre, Gulshan-e-iqbal, Karachi. Application should be addressed to Senior Director, T &C Dep't, and KMC. Tender shall be issued to those applicants who fulfill the eligibility criteria
02	Dropping of Tender	21.06.2013 at 12.00 Noon	Office of Senior Director, Transport & Communication Dep't, KMC, 8th Floor Civic Centre, Gulshan-e-iqbal,Karachi
03	Opening of Tender	21.06.2013 at 12.30 PM	Office of Senior Director, Transport & Communication Dep't, KMC, 8th Floor Civic Centre, Gulshan-e-iqbal,Karachi

TERMS & CONDITIONS

1. The tenders in sealed covers mentioning name of work and marked as Technical and Financial offer in Separate envelope should be dropped in the tender Box. Kept at the place and time mentioned above.
2. Initially the technical proposals will be opened by the Tender Opening Committee on the date and time mentioned above, whereas, the financial proposal will be retrained with KMC till evaluation of technical proposal.
3. The technical proposal submitted by the bidders will be evaluated by Procurement Committee and thereafter financial proposals of Technically qualified bids will be opened by the designated Committee on the date and time to be communicated to the successful bidders.
4. The financial proposals of the technically non-responsive bidders shall be returned unopened to the respective bidders.
5. In case the date of opening is declared as a public holiday by the Government, the next working day shall be deemed to be the date for submission and opening of tenders accordingly. The time and venue shall remain same.
6. The competent authority reserves the right to reject any or all proposals without assigning any reason subject to the relevant provision of SPPRA Rules.
7. Canvassing in connection with tender is strictly prohibited and proposal submitted by the contractors who are reported to be involved in canvassing will liable for rejection.
8. The conditional proposals or the proposal received in unsealed covers will not be entertained and no proposal will be received after Schedule date and time.
9. A pre-bid meeting with contractors will be held on 18-06-2013 at 12.00 Noon.

27/5/2013

Senior Director
Transport & Communication Department
Karachi Metropolitan Corporation

CALL FREE AT OUR COMPLAINT CENTRE 0800-00011

KARACHI METROPOLITAN CORPORATION

NOTICE INVITING TENDER

SINGLE STAGE TWO-ENVELOP SYSTEM (SPPRA Rules 2010)

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S. No.	Description	Estimated Cost	Bid Security	Tender Cost	Category as per PEC Eligibility Criteria
01	Installation Improvement and Up-Gradation of Existing Traffic Signals in Karachi Zone - I & II	Offer Rate	2% of OR	Rs. 3,000/-	• PEC C-4 category along with special Category for Signalization work CE-06 & 07 and CR-10 • Electrical license of the firm issued from Govt. of Sindh. • Valid NTN certificate. • Valid Professional Tax Certificate. • Minimum last four years experience in existing signaling system with any Public Sector / Organization.

Schedule shall be as follows

	Schedule	Date & Time	Venue
01	Receiving Applications & Issuance of Tenders	From 05-06-2013 to 20.06.2013 During Office Hours	Office of the Chief Engineer (TC&O) Transport & Communication Dept. KMC, 8th Floor, Civic Centre, Gulshan-e-Iqbal, Karachi. Application should be addressed to Senior Director, T&C Dep't, and KMC. Tender shall be issued to those applicants who fulfill the eligibility criteria.
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Senior Director
Transport & Communication Department
Karachi Metropolitan Corporation

8th Floor, Civic Centre, Gulshan-e-Iqbal, Main University Road, Karachi - Phone: 9923 0655

KMC/MMO/343/13

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بلدیہ عظمیٰ کراچی

ٹرانسپورٹ اینڈ کمیونیکیشن ڈپارٹمنٹ
کراچی میٹروپولیٹن کارپوریشن

8thفلور،سوک سینٹر ،گلشن اقبال ،مین یونیورسٹی روڈ ،کراچی ،فون: 99230655

ٹینڈر طلبی نوٹس

سنگل اسٹیج ٹوانویلپ سسٹم (SPPRA رولز 2010)

KMC کو ذیل میں درج کام کیلئے دو علیحدہ علیحدہ سربمہر لفافوں پہلا فنانشل پروپوزل اور دوسرا ٹیکنیکل پروپوزل پر مشتمل ہو، میں سنگل اسٹیج ٹوانویلپ پروسیجر پر سربمہر ٹینڈرز مطلوب ہیں۔ اسی نوعیت کے کاموں میں تجربے اور متعلقہ کیٹیگری میں PEC سے رجسٹرڈ، PEC کے قابل میعاد سرٹیفکیٹ اور حکومت سندھ سے الیکٹریکل لائسنس کے حامل کنٹریکٹرز ٹینڈر دستاویزات خرید سکتے ہیں اور سندھ پبلک پروکیورمنٹ رولز 2010 کے مطابق اپنی پیشکشیں / پروپوزل جو دو علیحدہ علیحدہ لفافوں میں ہوں اور ان پر "فنانشل پروپوزل" اور "ٹیکنیکل پروپوزل" کی واضح صراحت کی گئی ہو جمع کرا سکتے ہیں۔

نمبر شمار	تفصیل	تخمینی لاگت	بڈ سیکیورٹی	ٹینڈر کی قیمت	PEC معیار اہلیت کے مطابق کیٹیگری
01	کراچی میں موجودہ ٹریفک سگنلز کی انسٹالیشن / اپڈیٹ / اپ گریڈیشن	آفر ریٹ	5% OR	Rs.3000/-	• سگنلائزیشن ورک EE-06 اور CT-10 اور 07 کیلئے اوپن کیٹیگری کیساتھ PEC C-4 کیٹیگری • حکومت سندھ کی جانب سے جاری کردہ الیکٹریکل لائسنس • قابل میعاد NTN سرٹیفکیٹ • قابل میعاد پروفیشنل ٹیکس سرٹیفکیٹ • کسی بھی کنٹریکٹر / آرگنائزیشن کیساتھ موجودہ سگنلنگ سسٹم میں کم از کم سابقہ چار سالہ تجربہ

شیڈول درج ذیل ہوگا:

	شیڈول	تاریخ اور وقت	مقام
01	درخواستوں کی وصولی اور ٹینڈرز کا اجراء	05-06-2013 تا 20-06-2013 دوران اوقات کار	دفتر چیف انجینئر (T C & O) ٹرانسپورٹ اینڈ کمیونیکیشن ڈپارٹمنٹ KMC، 8th فلور، سوک سینٹر گلشن اقبال، کراچی درخواست بنام سینئر ڈائریکٹر T&C ڈپارٹمنٹ اور KMC ہونی چاہئے۔ ٹینڈر معیار اہلیت پر پورا اترنے والے درخواست دہندگان کو جاری کیا جائے گا۔
02	ٹینڈرز کی وصولی	21-06-2013 دن 12:00 بجے	دفتر سینئر ڈائریکٹر ٹرانسپورٹ اینڈ کمیونیکیشن ڈپارٹمنٹ KMC، 8th فلور، سوک سینٹر گلشن اقبال، کراچی
03	ٹینڈر کا کھلنا	21-06-2013 دن 12:30 بجے	دفتر سینئر ڈائریکٹر ٹرانسپورٹ اینڈ کمیونیکیشن ڈپارٹمنٹ KMC، 8th فلور، سوک سینٹر گلشن اقبال، کراچی

قواعد وضوابط

1۔ کام کے نام کی صراحت کیساتھ سربمہر لفافوں میں ٹینڈرز جن پر علیحدہ علیحدہ لفافے میں ٹیکنیکل اور فنانشل آفر کی صراحت کی گئی ہو، اوپر درج مقام اور وقت پر رکھے گئے ٹینڈر باکس میں ڈالے ہوں گے۔

2۔ ابتدائی طور پر مندرجہ بالا تاریخ اور وقت پر ٹینڈر اوپننگ کمیٹی کی جانب سے ٹیکنیکل پروپوزلز کھولے جائیں گے، جبکہ فنانشل پروپوزل ٹیکنیکل پروپوزل کی ایوالیوشن تک KMC کے پاس رہیں گے۔

3۔ بولی دہندگان کی جانب سے جمع کرائے گئے ٹیکنیکل پروپوزل پروکیورمنٹ کمیٹی کی جانب سے ایوالیوٹ کئے جائیں گے اور جس کے بعد تکنیکی طور پر کوالیفائیڈ پیشکشوں کے فنانشل پروپوزلز نامزد کردہ کمیٹی کی جانب سے کامیاب بولی دہندگان کو مطلع کردہ تاریخ اور وقت پر کھولے جائیں گے۔

4۔ تکنیکی طور پر ناقابل جواب پائے جانے والے بولی دہندگان کے فنانشل پروپوزلز متعلقہ بولی دہندگان کو بغیر کھولے واپس کردیے جائیں گے۔

5۔ ٹینڈر کھلنے کی تاریخ کو حکومت کی جانب سے عام تعطیل قرار دیے جانے کی صورت میں آئندہ کام والے دن کو ٹینڈرز جمع کرانے اور کھلنے کی تاریخ تصور کیا جائے گا۔ وقت اور مقام وہی رہے گا۔

6۔ SPPRA رولز کی متعلقہ شق سے مشروط مجاز اتھارٹی کو بلا اظہار وجوہ کسی یا تمام پروپوزلز کو مسترد کرنے کا استحقاق حاصل ہے۔

7۔ ٹینڈرز کے حوالے سے کوئیرنگ سخت ممنوع ہے، کوئیرنگ میں ملوث پائے جانے والے کنٹریکٹرز کی جانب سے جمع کرائے گئے پروپوزل مسترد کردیے جائیں گے۔

8۔ مشروط یا کھلے لفافوں میں موصول ہونے والے پروپوزل زیر غور نہیں لائے جائیں گے اور مقررہ تاریخ اور وقت کے بعد پروپوزل وصول نہیں کئے جائیں گے۔

9۔ کنٹریکٹرز کیساتھ 18-06-2013 کو دوپہر 12:00 بجے ایک پری بڈ میٹنگ منعقد کی جائے گی۔

سینئر ڈائریکٹر
ٹرانسپورٹ اینڈ کمیونیکیشن ڈپارٹمنٹ
کراچی میٹروپولیٹن کارپوریشن

KMC/MMD/343/13

DAILY :
UMMEED
30/5/2013

بلدیہ عظمیٰ کراچی

ٹرانسپورٹ و کمیونیکیشن ڈپارٹمنٹ
کراچی میٹروپولیٹن کارپوریشن
آٹھویں منزل سوک سینٹر گلشن اقبال مین یونیورسٹی روڈ کراچی
فون نمبر: 99230656

نوٹس طلبی ٹینڈر

سنگل اسٹیج ٹو انیولپ سسٹم (ایس پی پی آر اے قواعد 2010)

کے ایم سی اکہرا مرحلہ 2 لفافہ نظام کے تحت 2 علیحدہ علیحدہ لفافوں جن میں سے ایک میں فنانشل تجاویز اور دوسرے میں تکنیکی تجاویز ہوں، درج ذیل کام کے لئے سربمہر ٹینڈرز طلب کرتا ہے۔ ٹھیکیداران جنہیں اس نوعیت کے کام کا تجربہ ہو، PEC سے متعلقہ کیٹگری میں رجسٹریشن کا کارآمد سرٹیفکیٹ اور حکومت سندھ کا الیکٹریکل لائسنس ہو، سندھ پبلک پروکیورمنٹ قواعد 2010 کے تابع ٹینڈر دستاویزات خرید سکتے ہیں اور اپنی بولیاں/تجاویز دو علیحدہ علیحدہ لفافوں میں جن پر جلی حروف میں "فنانشل تجاویز" اور "تکنیکی تجاویز" لکھا ہو جمع کرا سکتے ہیں۔

نمبر شمار	تفصیلات	تخمینی لاگت	بولی سیکورٹی	قیمت ٹینڈر	PEC معیار اہلیت کی کیٹگری
1	تنصیب / بہتری اپ گریڈیشن موجودہ ٹریفک سگنلز واقع کراچی (زون I&II)	پیشکش نرخ	OR 2%	3000 روپے	PEC C-4 کیٹگری ہمراہ پروفیشنل کیٹگری برائے سگنلائزیشن ورک 6 و 7 اور CE-10 ☆ فرم کا الیکٹریکل لائسنس اجرا شدہ از حکومت سندھ ☆ کارآمد NTN سرٹیفکیٹ ☆ کارآمد پروفیشنل ٹیکس سرٹیفکیٹ ☆ موجودہ سگنلائزیشن نظام کے ساتھ کسی پبلک سیکٹر ادارے میں کم از کم 4 سال کا تجربہ

شیڈول درج ذیل ہوگا

	شیڈول	تاریخ وقت	مقام
1	درخواستوں کی وصولی اور ٹینڈر کا اجرا	5-6-13 تا 20-6-13 دوران دفتری اوقات کار	دفتر چیف انجینئر (TC&O) ٹرانسپورٹ و کمیونیکیشن ڈپارٹمنٹ KMC آٹھویں منزل سوک سینٹر گلشن اقبال کراچی۔ درخواستیں سینئر ڈائریکٹر T&C ڈپارٹمنٹ اور KMC کے نام بھیجی جائیں۔ ٹینڈرز ان درخواست دہندگان کو جاری کئے جائیں گے جو معیار اہلیت پر پورے اترتے ہوں
2	ٹینڈر ڈالنا	21-6-13 کو دوپہر 12 بجے تک	دفتر سینئر ڈائریکٹر ٹرانسپورٹ و کمیونیکیشن کے ایم سی آٹھویں منزل سوک سینٹر گلشن اقبال کراچی
3	ٹینڈر کشائی	21-6-13 کو دوپہر 12:30 بجے	ایضاً

شرائط و ضوابط:

1- ٹینڈرز سربمہر لفافوں میں جن پر کام کا نام جلی حروف میں لکھا ہو اور علیحدہ علیحدہ لفافوں میں جن پر تکنیکی و فنانشل تجاویز لکھا ہو ٹینڈر باکس میں ڈال دیئے جائیں جو مذکورہ بالا وقت اور مقام پر رکھے ہوں گے۔

2- ابتداً تکنیکی تجاویز کی کشائی ٹینڈر کشائی کمیٹی مذکورہ بالا تاریخ اور وقت پر کرے گی، جب کہ فنانشل تجاویز تکنیکی تجاویز کے جائزے تک کے ایم سی کے پاس ہی رہیں گی۔

3- بولی دہندگان کی جانب سے جمع کرائے گئے ٹیکنیکل پرپوزل پری کوالیفکیشن کمیٹی کی جانب سے کھولے جائیں گے اور ٹیکنیکل بولیوں میں کامیاب امیدواروں کے فنانشل پرپوزل مجاز کمیٹی کی جانب سے مقررہ وقت اور تاریخ جو کامیاب بولی دہندگان کو بتائی جائے گی، اس پر کھولے جائیں گے۔

4- ٹیکنیکل بولیوں میں ناکام ہونے والے امیدواروں کے فنانشل پرپوزل متعلقہ بولی دہندگان کو سربمہر واپس کر دیئے جائیں گے۔

5- تاریخ کشائی پر اگر حکومت کی جانب سے عام تعطیل کا اعلان کر دیا جائے تو ٹینڈر جمع کروانے اور ٹینڈر کشائی اگلے یوم کار پر ہوگی، جبکہ وقت اور مقام غیر تبدیل شدہ رہے گا۔

6- زیر قواعد ایس پی پی آر اے، راز مجاز اتھارٹی کسی بھی بولی/بولیوں کو بغیر کسی اظہار وجوہ کے مسترد کرنے کا حق محفوظ رکھتی ہے۔

7- کنویسنگ کی سختی سے ممانعت ہے۔ کنویسنگ میں ملوث پائے جانے والے ٹینڈر مسترد کر دیئے جائیں گے۔

8- مشروط اور غیر مشروط سربمہر ٹینڈر قابل قبول نہیں ہوں گے، نیز وقت مقررہ کے بعد موصول ہونے والے پرپوزل بھی قابل قبول نہیں ہوں گے۔

9- کنٹریکٹروں سے بولی سے قبل میٹنگ کا انعقاد مورخہ 18-6-2013 بوقت 12:00 بجے دوپہر کیا جائے گا۔

شرح دستخط:

سینئر ڈائریکٹر

ٹرانسپورٹ اینڈ کمیونیکیشن ڈپارٹمنٹ

کراچی میٹروپولیٹن کارپوریشن

KMC/MMD/343/13

OFFICE OF THE CHIEF ENGINEER (TC&O)
TRANSPORT & COMMUNICATION DEPARTMENT
KARACHI METROPOLITAN CORPORATION
8th Floor Civic Centre Gulshan-e-Iqbal University Road Karachi

No.C.E/TC&O/T&C/KMC/2013/158

Dated: 26.07.2013

The Deputy Director (ENF-I),
Sindh Public Procurement Regulatory Authority,
Government of Sindh,
KARACHI

Subject: **TCD/SR/DIR/DDO(Sectt)/260/2013/52/2013 DATED 27.05.2013**

In context to your letter No. Dir (ENF-I)/1219/SPPRA/37-I(KMC)/12-13/267 dated 17.07.2013, it is clarified that Rules 48 of SPPRA, 2010 has been followed, such as :

(i) The subject mentioned NIT has been advertised in leading English, Daily Dawn dated 31.5.2013 and Urdu local daily Express and Ummet on 30-5.2013 and also uploaded on SPPRA website vide S. No. 16546.(copy of N.IT. published enclosed)

(ii) The Engineer estimate for the work were prepared on the basis of quoted rates of last awarded contract and the present quoted cost of the bidder is within the engineering estimate.

(iii) The bid has been evaluated keeping in view the SPPRA Rules 48 of 2010, and has been recommended accordingly in the evaluation report to upload the same on SPPRA website.

This is for information please.

26/07/2013

(Engr: Syed Muhammad Taha)
Chief Engineer
Traffic Control & Operation
T&C Department, KMC

Copy for information please to :

1. The Administrator KMC.
2. The Director General (Tech: Services), KMC, Karachi.
3. The Senior Director (TCD), KMC, Karachi.
4. The MD, SPPRA, Government of Sindh, Karachi.

TRANSPORT & COMMUNICATION DEPARTMENT
KARACHI METROPOLITAN CORPORATION
8th FLOOR, CIVIC CENTRE, GULSHAN-E-IQBAL, MAIN UNIVERSITY ROAD, KARACHI
☎: 923 0655

No: CE/TC&O/147

Dated: 17/07/2013

Bid Evaluation Report

1. Name of Procuring Agency: KARACHI METROPOLITAN CORPORATION
2. Tender Reference No: C.E/TC&O/T&C/2013/52
3. Tender Description/Name of work: Installation/Improvement & Up gradation of Existing Traffic Signals In Karachi (Zone-I & Zone-II)
4. Method of Procurement: Single Stage - Two Envelope procedures
5. Tender Published: Print & electronic media as SPPRA S.NO16546 & news paper Ummat 30May 2013 / Express 30 May 2013 / Dawn 31 May 2013
6. Total Bids Documents Sold: 01 Nos
7. Total Bids Received: 01 Nos
8. Technical Bids Opening date (If applicable): 21 June 2013
9. No. of Bid technically qualified (If applicable): 01
10. Bid(s) Rejected: NIL
11. Financial Bid Opening Date: the Financial bid opened on 16-07-2013 for qualified contractor On the basis Of evaluation criteria and download on sppra web Site.
12. Technical Evaluation: One firm qualified on the basis of evaluation criteria by Procurement Committee
13. Bid Evaluation Report:

S.NO	Name of Firm or Bidder	Cost Offered by the bidder (As calculated)	Engg Estimate of the work	Comparison with estimated cost	Reason for acceptance / Rejection	Remarks
0	1	2	3	4	5	6
	Silicon Communication & Security	34889550/=	34995665/=	0.303 % Below The Estimated Cost	Qualified as per Eligibility Criteria	The Firm is Responsive and Evaluated Lowest Bidder and Below The Estimated Cost Recommended for Award of Work

As per rule 48 of SPPRA and keeping in view of the prim function of TCD to regulate the traffic through intersection and considering the rates of the bidder who has quoted the rates 0.303% below the engineering estimate of 2012 amounting to Rs34995665/= the bid is recommended for award.

17/7
Syed Nafees Agha
Executive Engineer
Layari Development Authority
Member

17/7/13
Chief Engineer (P&D)
Engineering Department
Karachi Metropolitan Corporation
Member

17/07/2013
Engr Syed Muhammad Tahir
Chief Engineer (TC&O)TCD
Karachi Metropolitan Corporation
Chairman

Director(CB) SPPRA GOS
With a request to upload on the website of SPPRA(Authority)

C.C To –
1. All members of Procurement committee
2. The senior Director (T&C)KMC

ANNEXURE – "A"

TECHNICAL EVALUATION OF BID

INSTALLATION / IMPROVEMENT AND UP-GRADATION OF EXISTING TRAFFIC SIGNALS IN KARACHI (ZONE-I & ZONE-II)

S. No.	CRITERIA	DISTRIBUTION	MAXIMUM.	MARKS OBTAINED BY M/S. SILICON COMMUNICATION & SECURITY
1.	**Qualification / Experience of firm**		20	20
	A. Experience in maintenance of traffic Signal T-400 and ST-800 Controllers (Attached documentary evidence)			
	1. For Last 3 years experience	05		
	2. For Last 5 years experience	15		20 (Max Marks are 20)
	B. Experience in installation of traffic signals.		15	10
	(Attached documentary evidence) List of related project complete			
	1. Signal related project completed in last 3 years.	05		
	2. Signal related project completed in last 5 years.	10		10
2..	**License**		20	20
	1. PEC license in relevant category EEO6,EE07 and CE10 (Attached documentary evidence)	15		15
	2. Electrical license	05		05
3.	**Support for Improvement / Installation / Repair**		35	25
	1. Sufficient inventory of genuine spare parts of traffic signals (specially T-400 & ST-800 controllers & German & Turkish lights) (with documentary evidence)	15		10
	2. Principal letter for support of equipment of traffic signal equipment	05		05
	3. Laboratory duly equipped with necessary tools and software and repaired of phase driver card. and mother board. (with documentary evidence).	15		10
4.	**Engineer depute in maintenance of traffic signal.**		10	10
	1. Electrical engineer (Attached valid PEC registration certificate / card.	05		05
	2. Electronic engineer (Attached valid PEC registration certificate / card.	05		05
	TOTAL:	100	100	85

MAHMOOD-UL-HASSAN
Research Officer (PTMOR) TCD

RAFIULLAH KHAN
Deputy Director (PTMOR) TCD

SYED MUHAMMAD AZEEM
Assistant Traffic Engineer

TECHNICAL PROPOSAL

EE LDA
21/6/2013

EE Dosi (G-SD)

21/06/2013

DOCUMENTS FOR SUBMISSION OF TENDOR FOR (INSTALLATION/ IMPROVEMENT AND UP-GRADATION OF EXISTING TRAFFIC SIGNALS IN KARACHI) .

Silicon

Communication & security

INDEX

Annexure-1	Covering letter
Annexure-2	Company Curriculum Vita Of Firm
Annexure-3	List of project/Work order and picture of the projects
Annexure-4	Copies of PEC License & Electrical License
Annexure-5	Picture and the documentary evidence of sufficient stock
Annexure-6	Principle letter for support of traffic signals equipments
Annexure-7	Evidence of laboratory with picture
Annexure-8	Electrical & Electronic engineers PEC certificate copy
Annexure-9	N.T.N Certificate / professional tex certificate
Annexure-10	Broachers

Silicon
Communication & Security

The
Senior Director,
Transport & Communication Department,
K.M.C,
Karachi.

KMC/TS9980/2013
Dated.21-06-2013

SUB: Submission Of Tender For Installation/Improvement & UP-Gradation of existing Traffic Signals In Karachi (Zone-1 & Zone-2).

Dear sir,

Reference to your Tender Notice in the daily Dawn on dated 31-05-2013 & at your web Site (www.karachicity.gov.pk) enclosed please find our offer along with Earnest Money, Copy of the Certificate Of Income Tax, Copy of Pakistan Engineering Council License, Electrical license copy of Professional Tax certificate copy of engineers PEC Registration certificate/card , Agent letter From Principal Company , Copy of work orders of relevant work for 5 years , Broachers , Picture & list of Project of similar nature.

The company was established in 1980. It is one of the pioneer companies to introduce digital electronic in Pakistan We introduced high – tech electronics from amateur to professional level by developing learning kits for amateur and highly advanced electronic system for the industry and sports sector .

We are dealing with Traffic Signals maintenance & installation business for almost 8 years .We have installed number of Traffic signals in different locations of Karachi & Hyderabad in 8 years .We are successfully maintaining the Traffic Signals of Karachi City Government (C.D.G.K) for Last 5years.We have sufficient local & foreign experience in execution of such type of work , we have adequate trained man-power experienced in Installation & Maintenance of Traffic Signals Equipments. We also have a sufficient stock of traffic signal equipments and in house High-tech Laboratory duly equipped with the necessary tools and software especially for existing traffic signal installed at Karachi at various locations which was also visited by the EDO (T&C) along with DO-1 (Technical, Advisor to city nazim) and DO (TC&O) on dated 15-01-2008 .

We hope that you will find our offer most competitive and in line with your requirements. We are looking forward for another opportunity to provide our best possible services & equipments.

Assuring you of our best services at all time, we remain

Thanking you
Yours sincerely

Faisal Sattar Daruwalla
(Managing Director)

Agent PEEK Peek Traffic Ltd.

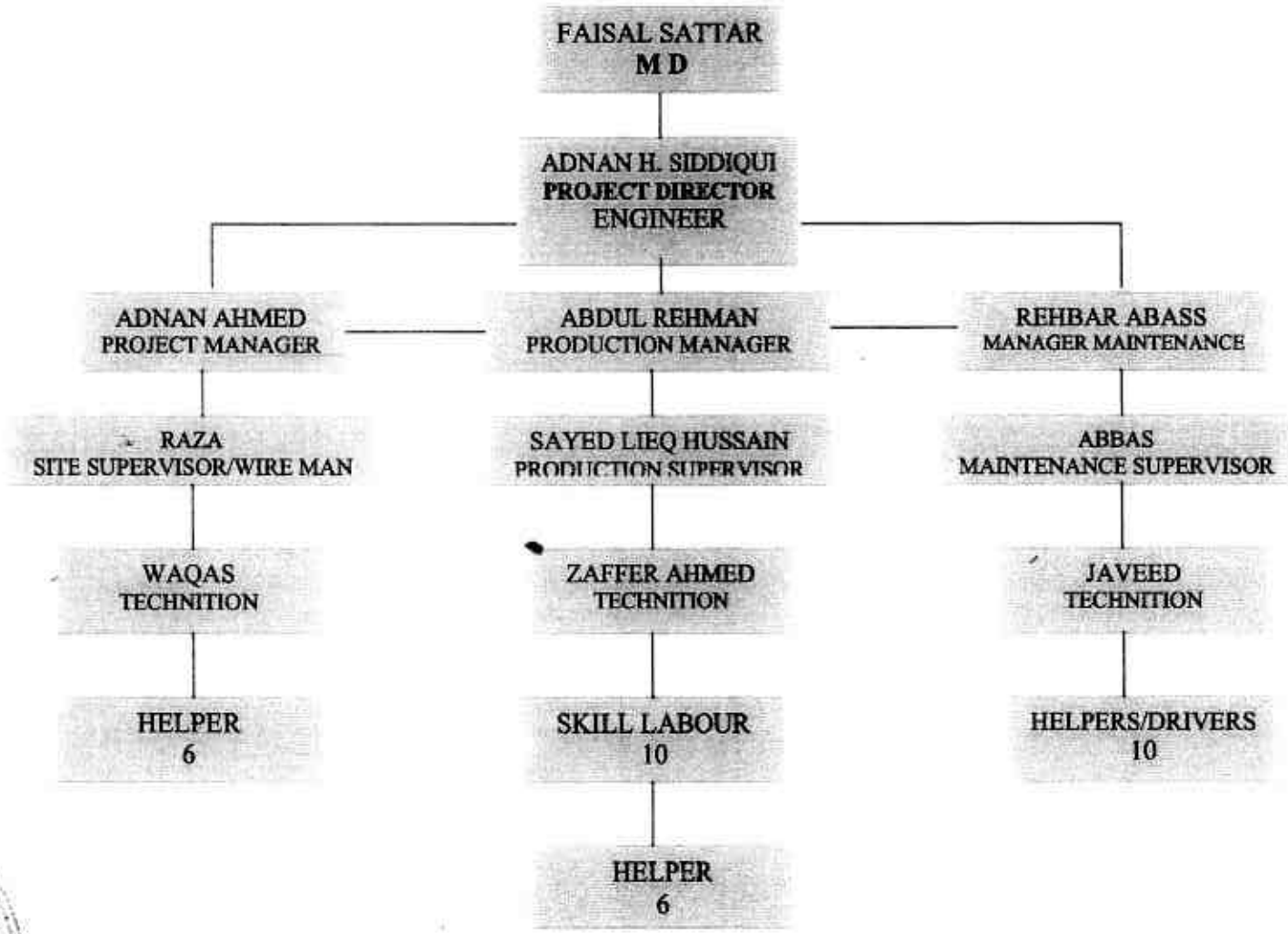
SILICON TRAFFIC

Agent Pike SIGNALS LTD

Suit 4, 2nd Floor, Namdar Square SB 12, Askari Park Old Sabzi Mandi, Commercial Scheme No. 11, University Road Karachi.
Tel: 021-37725998 **Mob:** 0300-8203293 **Fax:** 021-34911443 **Email:** silicontraffic.pk@gmail.com

CURRICULUM VITA OF FIRM

1. NAME OF FIRM	SILICON COMMUNICATION & SECURITY
2. ADDRESS	SUITE NO 4,2nd Floor,Namdar Square SB12,Askari Askari Park Old Sabzi Mandi, Commercial Scheme No. 11 University Road Karachi.
3. DATE OF COMMENCEMENT OF BUSINESS	1986
4. NAME OF DIRECTOR	FAISAL SATTAR DARUWALLA(MD)
5. N.T.N	1435592-2
6. TELEPHONE NO	021-7725998 021-32638559
7. FAX NO	021-34911443
8. CELL NUMBER	03008203293
9. E mail	silicontraffic.pk@gmail.com


FAISAL SATTAR
M D
ADNAN H. SIDDIQUI
PROJECT DIRECTOR
ENGINEER
ADNAN AHMED
PROJECT MANAGER
ABDUL REHMAN
PRODUCTION MANAGER
REHBAR ABASS
MANAGER MAINTENANCE
RAZA
SITE SUPERVISOR/WIRE MAN
SAYED LIEQ HUSSAIN
PRODUCTION SUPERVISOR
ABBAS
MAINTENANCE SUPERVISOR
WAQAS
TECHNITION
ZAFFER AHMED
TECHNITION
JAVEED
TECHNITION
HELPER
6
SKILL LABOUR
10
HELPERS/DRIVERS
10
HELPER
6

LIST OF PROJECTS RELATED TO EXISTING TRAFFIC SIGNALING SYSTEM

COMPLETED IN 5 YEAR

S.NO	NAME OF PROJECT	COST IN Rs	DATE OF COMMENCEMENT	DATE OF COMPLETION	NAME OF CLIENT
1	SUPPLY,INSTALLATION & WIRING OF TRAFFIC SIGNAL NASIR JUMP LANDHI KORANGI	8,51,000/=	6/12/2006	09/02/07	M/s IFTIKHAR & TAHA
2	SUPPLY,INSTALLATION TRAFFIC SIGNALS AT DISCO BAKERY GULSHAN FOR GULSHAN-E-IQBAL TOWN	12,00,000/=	24/07/2008	20/09/2008	GULSHAN IQBAL TOWN
3	MAINTENANCE CONTRACT FOR THE YEAR FEB 2008 TO JAN 2009 FOR TAFFIC LIGHT SIGNALS OF KARACHI T&C DEPT CDGK	1,81,38,765/=	1/2/2008	31/01/2009	T&C DEPT CDGK
4	SUPPLY,INSTALLATION OF 3NOS TRAFFIC SIGNALS & SPEED BREAKERS STUDS AT BALDIA TOWN KARACHI	23,69,000/=	14/10/2008	22/12/2008	BALDIA TOWN
5	REVISED MAINTENANCE CONTRACT FOR THE YEAR 2009 TO DEC 2009 FOR TAFFIC LIGHT SIGNALS OF KARACHI T&C DEPT CDGK	1,67,74,777/=	1/2/2009	31/12/2009	T&C DEPT CDGK
6	TRAFFIC SIGNALS AT LINK ROAD TO SUPER HIGHWAY TO JINNAH TERMINAL	40,69,000/=	6/8/2009	29/09/2009	M/s MAQBOOL ASSOCIATES (PVT)LTD
7	SUPPLY,INSTALLATION OF 2NOS TRAFFIC SIGNALS AT SHAMA CINEMA & ABASS BA WAZEER MALIR RIVER BRIDGE SHAH FAISAL COLONY KARACHI	23,76,000/=	2/2/2010	15/03/2010	T&C DEPT CDGK
8	SUPPLY INSTALLATION OF 1NOS PEDISTRAIN SIGNALS AT AGA KHAN HOSPITAL KARACHI	8,22,000/=	27/07/2010	15/08/2010	AGA KHAN HOSPITAL

9	SUPPLY,INSTALLATION OF CAT EYES & LAND MARKING AT AGA KHAN HOSPITAL KARACHI	4,50,000/=	9/9/2010	28/09/2010	AGA KHAN HOSPITAL
10	SUPPLY,INSTALLATION OF 2NOS TRAFFIC SIGNALS AT ABUL HASAN ISPHAHNI ROAD	29,78,000/=	30/06/2009	25/07/2009	T&C DEPT CDGK
21	SUPPLY,INSTALLATION OF 1NOS TRAFFIC SIGNALS AT WADHUHA CHOWK HYDERABAD	7,00,000/=	12/1/2008	13/03/2008	NAVEED CONTRACTAR
11	SUPPLY,INSTALLATION OF 1NOS TRAFFIC SIGNALS AT JOHAR CHORANGI	18,69,000/=	6/7/2009	28/07/2009	T&C DEPT CDGK
12	SUPPLY,INSTALLATION OF 2NOS TRAFFIC SIGNALS AT QASIM CHOWK HYDERABAD	25,69,327/=	03/01//2011	5/2/2011	HYDERABAD CANT
13	MAKING OF CHAMBER, FOUNDATION & LAYING OF UPVC PIPE, CABLE AT QASIM CHOWK HYDERABAD	12,34,000/=	28/12//2010	8/1/2011	HYDERABAD CANT
14	RE REVISED MAINTENANCE CONTRACT FORM 01/01/2010 TILL 28/02/2011 FOR TAFFIC LIGHT SIGNALS OF KARACHI T&C DEPT CDGK	2,76,18,303/=	01/01//2010	30/06/2011	T&C DEPT CDGK
15	RE REVISED MAINTENANCE CONTRACT FORM 01/03/2011 TILL 30/06/2011 FOR TAFFIC LIGHT SIGNALS OF KARACHI T&C DEPT CDGK	1,43,02,977/=	01/03//2011	30/06/2011	T&C DEPT CDGK
16	INSTALLATION/ MAINTENANCE OF TAFFIC LIGHT SIGNALS OF KARACHI FROM 01/07/2011 TILL 30/06/2012 FOR	2,56,99,570/=	01/07//2011	6/30/2012	T&C DEPT CDGK

OFFICE OF THE DISTRICT OFFICER (TC&O)
TRANSPORT & COMMUNICATION DEPTT.
CITY DISTRICT GOVERNMENT KARACHI.

No.DO/TC&O/T&C/CDGK/2008/ 54 Dated: 08-2-2008

M/s.Silicon Communication & Security,
AM-4, Shop No.24,
Shahrah-e-Liaquat,
Karachi.

(WORK ORDER)

SUBJECT: MAINTENANCE OF TRAFFIC LIGHT SIGNALS"

In continuation to this office acceptance letter No. DO/TC&O/T&C/CDGK/2008/43 dt. 31.1.2008 the above mentioned work amounting to Rs. 1,81,38,765/- (Rupees one crore eighty one lac thirty eight thousand seven hundred sixty five only) is hereby awarded to you as per detail below.

1.	Routine maintenance	Rs. 65,18,700.00
2.	Chargeable maintenance	Rs.1,16,20,065.00
	Total	Rs.1,81,38,765.00

This work order is for the period from 1st February 2008 to 31.1.2009, subject to the condition that it could be terminated after four calendar months i.e. on 31.5.2008 if your performance/capability of handling the smooth operation of Traffic Signals is found un- satisfactory.

8/2/08

DISTRICT OFFICER
(TC&O)T&C CDGK.

Copy to:

1. The E.D.O (T&C)
2. The D.D.O (Signal) TC&O TCD

DISTRICT OFFICER
(TC&O)T&C CDGK.

OFFICE OF THE DISTRICT OFFICER (TC&O)
TRANSPORT & COMMUNICATION DEPARTMENT
CITY DISTRICT GOVERNMENT KARACHI

8th Floor, Civic Centre, Gulshan-e-Iqbal, University Road, Karachi

No. DO/TC&O/T&C/CDGK/ 101 Dated: 26-6-2009

M/s Silicon,
Communication & Security,
A.M.U, Suit No.22,23,24,
Shahrah-e-Liaquat,
Karachi.

REVISED ACCEPTANCE LETTER

SUBJECT: MAINTENANCE OF TRAFFIC SIGNALS IN KARACHI.

The Competent Authority i.e. City Nazim has been pleased to accept the revised cost of above mentioned work amounting to Rs.3,49,13,542/- (Rupees three crore forty nine lac thirteen thousand five hundred forty two only) against original cost of work Rs. 1,81,38.765/-.

You are, therefore, requested to arrange the following for execution of revised contract agreement.

1. Revenue stamps of Rs. 33,550/- (Rupees Thirty three thousand five hundred fifty only) @ 0.20% of difference of cost of work i.e. R.s 1,67,74,777/-(Rupees one crore sixty seven lac seventy four thousand seven hundred seventy seven only)

2. Security deposit @ 10% of difference of cost Rs. 16,77,478/- through pay order in favour of CDGK from any Scheduled Bank.

26/6/09.

DISTRICT OFFICER (TC&O)
(T&CD), CDGK

Copy to :-

1. The Executive District Officer (T&C), CDGK.

OFFICE OF THE ADDL.DISTRICT OFFICER (TC&O)
TRANSPORT & COMMUNICATION GROUP OF OFFICES
CITY DISTRICT GOVERNMENT KARACHI
8th Floor, Civic Centre, Gulshan-e-Iqbal, University Road, Karachi.

No. DO/TC&O/TCD/CDGK/2011/117 Dated: 24-2-2010

M/s. Silicon,Communication & Security,
Suit No.2, IInd Floor, Namdar Square,
SB-12, Askari Park, Old Subzi Mandi,
Commercial Scheme NO.II,
Karachi

RE-REVISED WORK ORDER

SUBJECT: **MAINTENNANCE OF TRAFFIC LIGHT SIGNALS IN KARACHI.**

In continuation to this office revised work order No. DO /TC&O/T&C/CDGK/2009/106 dt. 01.07.2009 It is intimated that the Competent Authority i.e city Nazim has been pleased to accord sanction to the re-revised cost of work amounting to Rs 6,25,31,845/- (Rupees six crore twenty five lac thirty one thousand eight hundred forty five only) for subject mentioned work against revised sanction amounting to Rs 3,49,13,542/- (Rupees three crore forty nine lac thirteen thousand five hundred forty two only) . The difference of re-revised estimate and revised sanction amount isRs. 2,76,18,303/-(Rupees tow crore seventy six lac eighteen thousand three hundred three only) .10% security deposit of re- revised sanctioned cost will be deducted from running bills . The Competent Authority has also accorded approval for extension of contract period up to 28/02/2011.

DISTRICT OFFICER
(TC&O) T&C CDGK.

Copy to:

1. The E.D.O (TCD) CDGK
2. The Addl:D.O (Signal) TC&O, CDGK

OFFICE OF THE ADDL.DISTRICT OFFICER (TC&O)
TRANSPORT & COMMUNICATION GROUP OF OFFICES
CITY DISTRICT GOVERNMENT KARACHI
8th Floor, Civic Centre, Gulshan-e-Iqbal, University Road, Karachi.

No. DO/TC&O/TCD/CDGK/2011/ Dated: 01-03 2011

M/s. Silicon,Communication & Security,
Suit No.2, IInd Floor, Namdar Square,
SB-12, Askari Park, Old Subzi Mandi,
Commercial Scheme NO.II,
Karachi

RE-REVISED WORK ORDER

SUBJECT: **MAINTENNANCE OF TRAFFIC LIGHT SIGNALS IN KARACHI.**

In continuation to this office it is intimated that the Competent Authority i.e Administrator has been pleased to accord sanction to the re-revised cost of work amounting to Rs 7,68,34,822/- (Rupees seven crore sixty eight lac thirty four thousand eight hundred twenty two only) for subject mentioned work against re- revised sanction amounting to Rs 6,25,31,845/- (Rupees six crore twenty five lac thirty one thousand eight hundred forty five only). The difference of re-revised estimate and previous revised sanction amount is Rs. 1,43,02,977/- Rupees one crore forty three lac two thousand nine hundred seventy seven only) . 10% security deposit of re- revised sanctioned cost will be deducted from running bills . The Competent Authority has also accorded approval for extension of contract period up to 30/06/2011.

DISTRICT OFFICER
(TC&O) T&C CDGK.

Copy to:

1. The E.D.O (TCD) CDGK
2. The Addl:D.O (Signal) TC&O, CDGK

COMMUNICATION
Suit 4, 2nd Floor, Namdar Square SB-12 Askari Park Comm. Scheme

OFFICE OF THE ADDL.DISTRICT OFFICER (TC&O)
TRANSPORT & COMMUNICATION GROUP OF OFFICES
CITY DISTRICT GOVERNMENT KARACHI
8th Floor, Civic Centre, Gulshan-e-Iqbal, University Road, Karachi.

No. DO/TC&O/TCD/CDGK/2011/01 Dated: 06 – 7 – 2011

M/s. Silicon,
Suit No.2, IInd Floor, Namdar Square,
SB-12, Askari Park, Old Subzi Mandi,
Commercial Scheme NO.II,
Karachi

WORK ORDER

SUBJECT: INSTALLATION /MAINTENNANCE OF TRAFFIC LIGHT SIGNALS IN KARACHI.

In continuation to this office acceptance letter No. TCD /DO /TC&O/ 2011/162 dt. 30.6.2011, the above mentioned work amounting to Rs 2,56,99,570/- (Rupees Two crore fifty six lc ninety nine thousand five hundred seventy only) is hereby awarded to you as per detail below

1.	Chargeable maintenance	Rs. 1,44,67,570/-
2.	Routine Maintenance	Rs. 1,12,32,000/-
		Rs. 2,56,99,570/-

This work order will be effective from 1st July 2011.

DISTRICT OFFICER
(TC&O)T&C CDGK.

Copy to:

1. The E.D.O (TCD) CDGK
2. The Addl:D.O (Signal) TC&O, CDGK

COMMUNICATION
Suit 4, 2nd Floor, Namdar Square SB-12 Askari Park Commercial Scheme

OFFICE OF THE CHIEF ENGINEER(TC&O)
TRANSPORT & COMMUNICATION DEPARTMENT
KARACHI METROPOLITAN CORPORATION
8th Floor, Civic Centre, Gulshan-e-Iqbal, University Road, Karachi-99230658

No.C.E/TC&O/T&C/KMC/2012/327 Dated: 18-10-2012

M/s. Silicon Communication & Security,
(J/V) J.J. Constructor
Suit No.2, 2nd Floor, Namdar Square,
S.B-12, Askari Park, Old Subzi Mandi,
Karachi.

WORK ORDER

SUBJECT: IMPROVEMENT/INSTALLATION AND UP-GRADATION OF EXISTING SIGNALS INCLUDING ROUTINE CHECKING OF SYSTEM AND MAKE IN FUNCTIONAL CONDITION.

In continuation to this office acceptance letter No. C.E /TC&O /T&C/ KMC/ 2012/316 dated. 05.10.2012, the above mentioned work amounting to Rs.32,387,950/- (thirty two million three hundred eighty seven thousand nine hundred and fifty only) is hereby awarded to you as per detail below.

1. Chargeable Maintenance	Rs. 1,33,92,000.00
2. Routine Maintenance	Rs. 1,89,95,950.00
	Rs. **3,23,87,950.00**

Chief Engineer
Traffic Control & Operation
T&C, KMC

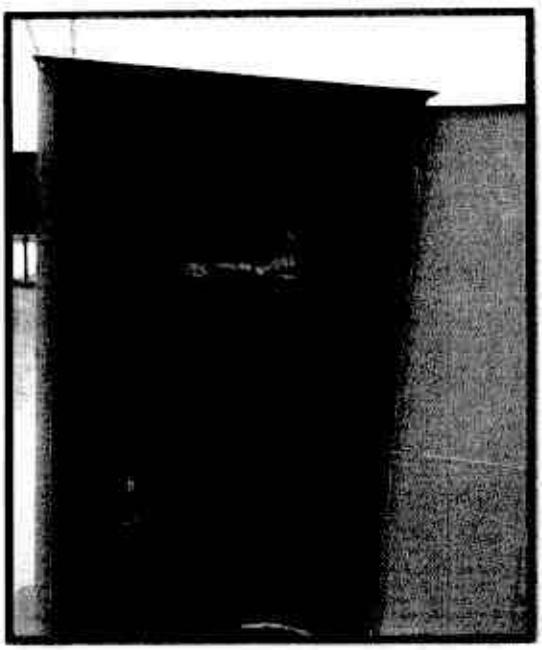
Copy to:

1. The Senior Director (TCD) Department, KMC.
2. The Additional D.O (Traffic Signals), TC&O, T&C Department, KMC.

COMMUNICATION
4, 2nd Floor,
Namdar Square SB-12

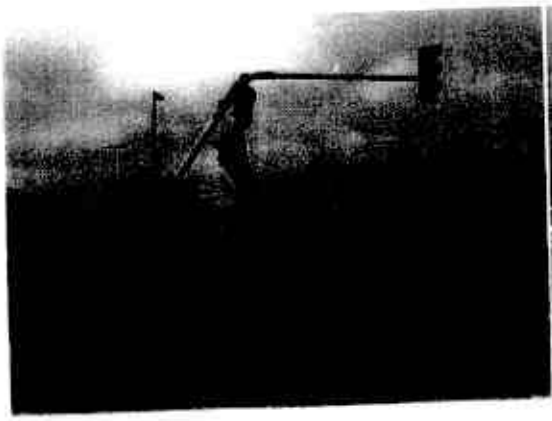
Project References

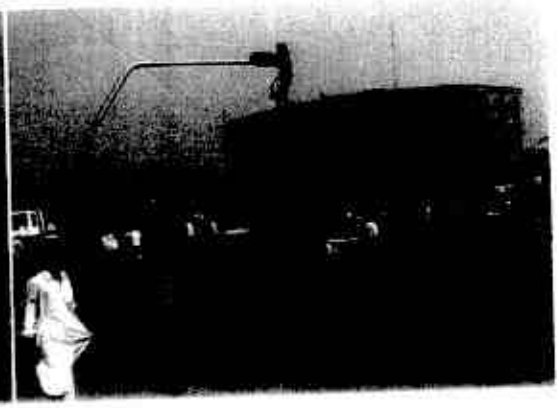
MAINTENANCE TEAM OF TRAFFIC SIGNALS



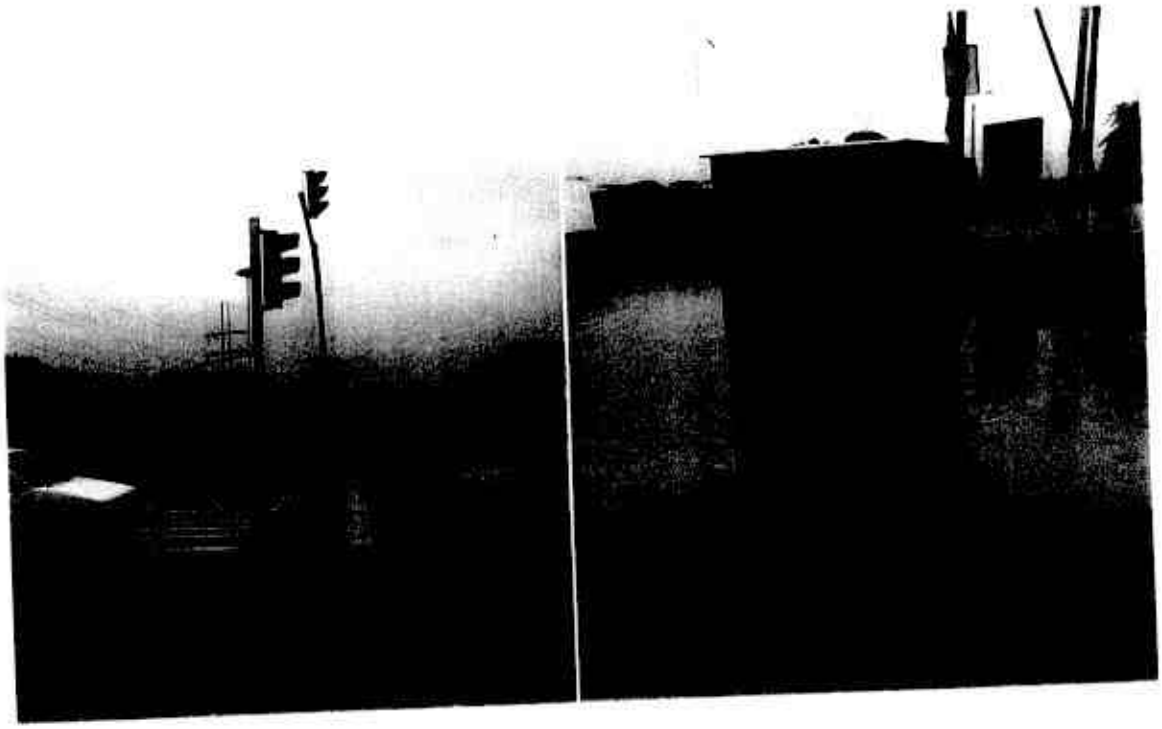
INSTALLATION OF TRAFFIC SIGNALS AT LINK ROAD SUPER HIGHWAY TO JINNAH TERMINAL

SIGNALIZATION WORK & INSTALLATION OF STUDS AT BALDIA TOWN

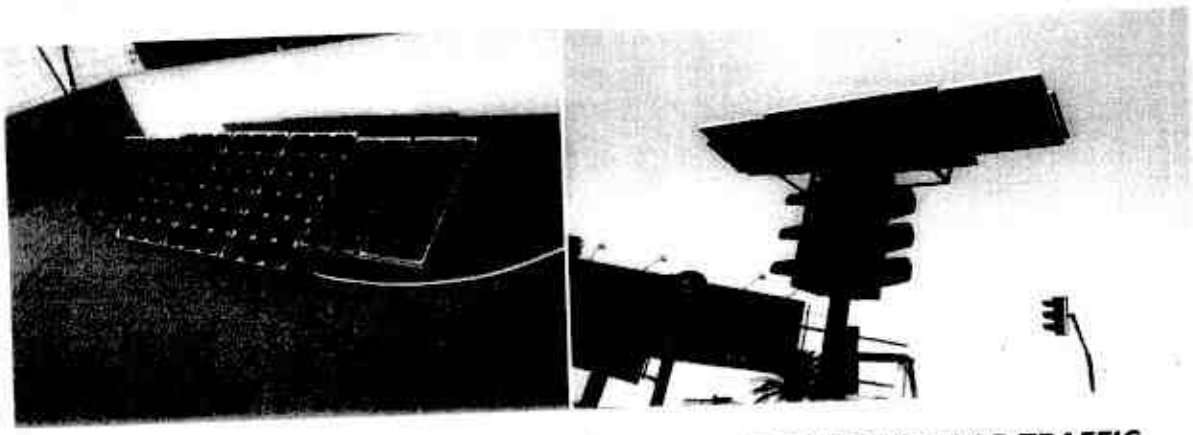




MAINTENANCE OF TRAFFIC SIGNALS AT KARACHI CDGK

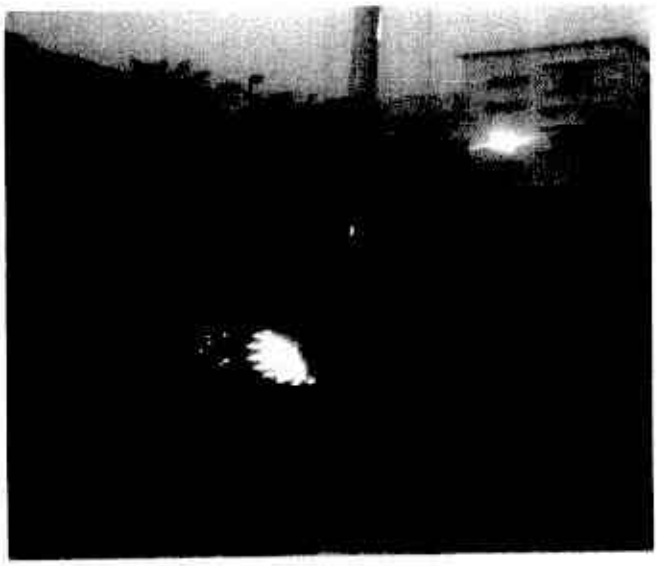


TRAFFIC SIGNALS INATALL AT JINNAH TERMIAL LINK ROAD CANT GATE 6

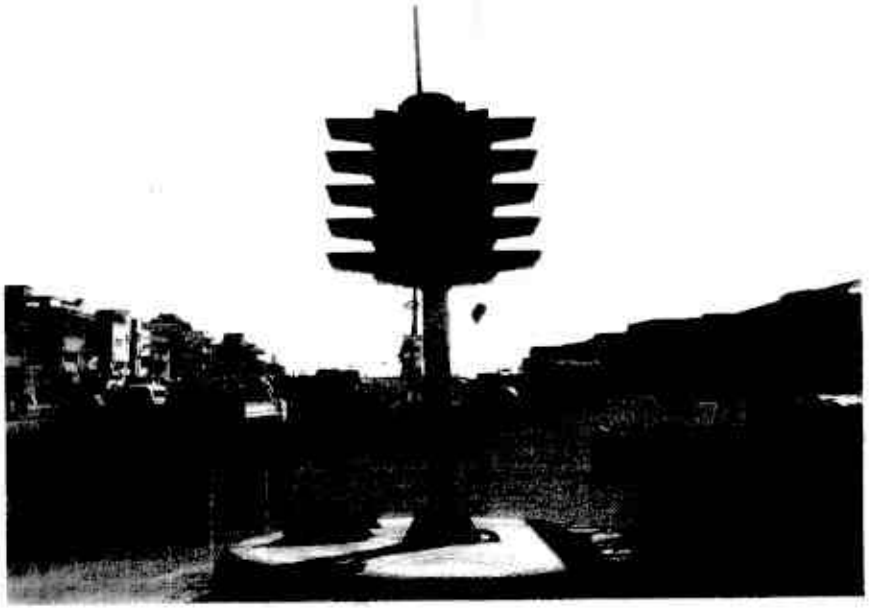


SOLAR CELL FOR TRAFFIC SIGNAL SIGNAL

PAKISTAN FIRST SOLAR TRAFFIC INSTALL AT KARSAZ KARACHI



SOLLAR FLASHER



INSTALLATION OF TRAFFIC SIGNAL AT ABASS BA WAZEER

TAFFIC SIGNAL INSTALLED AT QASIM CHOWK HYDERABAD

INSTALLATION OF TRAFFIC SIGNAL AT MASQAN CHORANGI ABUL ASPHANI ROAD GULSHAN-E- IQBAL

INSTALLATION OF TRAFFIC SIGNALS AT KORAGI CROSSING & TANK CHORANGI MALIR

INSTALLATION OF TRAFFIC SIGNALS AT SHARE-E-QUIDEEN

Serial No. 262300
PEC-11

PAKISTAN ENGINEERING COUNCIL

License No: **07394** Category: **C4** Validity: **31st December, 2013**

LICENCE OF PAKISTANI CONSTRUCTOR/OPERATOR

(Under the bye-laws of Pakistan Engineering Council 1987)

This is to certify that M/s **SILICON COMMUNICATION & SECURITY** (Licensee), with its registered office at **SUITE#4 2ND FLOOR NAMDAR SQUARE SB-12 ASKARI PARK OLD SABZI MANDI KARACHI** has/have been licensed under Construction and Operation of Engineering Works Bye-laws 1987, until the validity date to construct/operate engineering works, the construction/capital cost of which does not exceed Rs. **100 (ONE HUNDRED) million** provided the licensee fulfils all the qualification requirements prescribed by Client or Employer for a particular engineering work; and subject to the licensee continuing to fulfill all the requirements of the bye-laws.

Field of Specialization **CE10 - EE06 - EE07 - (THREE ONLY)** (Specialization Code Nos. for detail see overleaf)

Date of Issue : April 29, 2013
(Karachi)

Registrar
Pakistan Engineering Council,
Islamabad.

Note:

1. This Certificate of Registration is valid until 31st December 2013. It should be renewed on payment of the required fee for the next year. Application of renewal for the next year should be submitted by 05 November 2013.
2. Names of Professional Engineers working with the firm are shown on the reverse. The Consulting Engineer (the Engineer Incharge in case the consultant is not appointed) shall monitor the number of engineers employed by the Constructor and inform the Council accordingly.
3. This licence shall be renewed before 31st March 2014 without late payment surcharge.

GOVERNMENT OF SINDH

LICENCE
TO
ELECTRICAL CONTRACTOR

(Authorised by Govt. Notification Public Works Deptt. No.46-1-M dated 26th October, 1937).

KC-NO. 2136

M/s/ Silicon Communication & Security

is/are, hereby, authorised to carry out Electric Installation Work in Karachi Area, subject to the conditions mentioned in the rules issued by the Government of Sindh under Notification Public Works Department No.46-1-M, dated the 26th October, 1937.

Secretary,
Licensing Board,
Karachi Region.

-sd-
President,
Licensing Board,
Karachi Region.

Karachi, dated 10-05-2013

RENEWALS

Date of Renewal	Date of expiry	Secretary's initial	Date of renewal	Date of expiry	Secretary's initial
—	31-12-13				

A-0747

SECRETARY
Licensing Board Karachi
Secretary Licencing Board

A- 0747

GOVT. OF SINDH
KARACHI REGION
KARACHI

M/S. Silicon Comunication & Security

K.C. NO. KC-I. NO. 2136

NAME: Mr. Faisal Sattar

N.I.C. NO. 42000-0375250-5

Contractor Signature

President Licening Board

A- 0747

Issue Date	Expiry Date	Signature
1-1-13	31-12-13	
	SECRETARY Licensing Board Karachi	

A- 0747

Issue Date	Expiry Date	Signature

Delivery Note

EMENS

Silicon Communication & Security
4 Suit No. 22,23,24,
ra-e-Liaquat,
chi.

D.N No	Date:
X-1715	15.03.2013
Customer No	N/A

COMMERCIAL

omer Reference auction dated: 14.03.2013 Reference M/SH/SS/1715.Doc	Date Date	Contact Sajjad Shah SCM-IM Phone +92(21)2574910-19 2361 Fax: +92(21)2577790
atch Address Silicon Communication & Security 4 Suit No. 22,23,24, ra-e-Liaquat, chi.		Confirmed Delivery Date Mode of Dispatch: Transport Vehicle No. JX-6434 / KM.825 LSB-4509 JY-4286 Netweight 1 LOT

m	Description of Goods / Services	Origin	Quantity / Unit	Remarks of Consignee
1 OT	Traffic Singnal Lights & Controllers (Item 4/Auction-6) AL : N ECCN : N AWV NN	PK	1 LOT	

Siemens Pakistan Engineering Co. Ltd.
SCM-IM
Authorized Signatory
Khurram Abbas
Head SCM-IM

SHARIQ SAEED
Manager BA Projects
Siemens Pakistan
ICS Division

Goods labeled with "AL not equal to N" are subject to European or German export authorization when being exported out of the EU.
Goods labeled with "ECCN not equal to N" are subject to US re-export authorization. Even without a label, or with label.
"AL:N" or "ECCN:N", authorization may be required due to the final whereabouts and purpose for which the goods are to be used.

material received as per condition

RECEIVED
15 MAR 2013
SCM-IM

S.S. SUPERVISOR
M. N. SHAKIR

Sajjad Shah
SCM-IM

www.siemens.com.pk

-IM
Box 7158
Estate Ave, Karachi 75700
+92 (21) 257 4910 Fax: +92(21) 256 3563

SIEMENS

Delivery Note

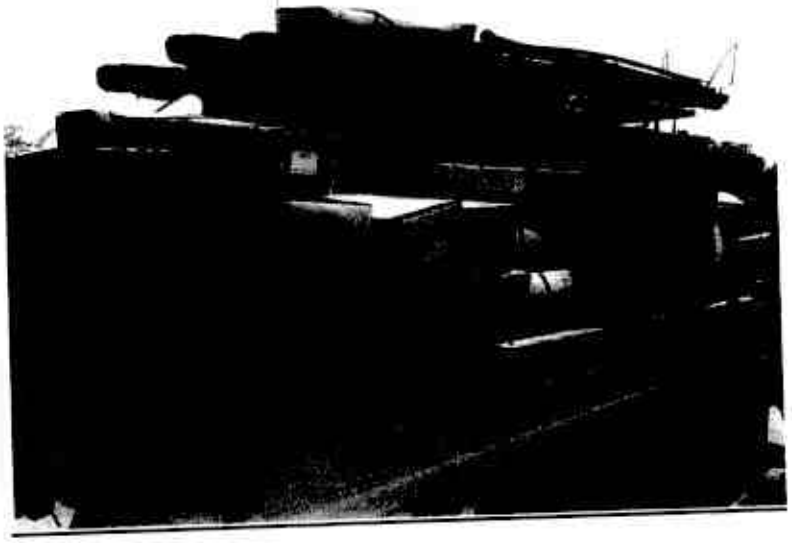
M/s. Silicon Communication & Security,
M 4, Shop # 24,
Shahrah - e - Liaquat,
Karachi

No. X-1429	Date: 22.03.2012
Customer No	N/A

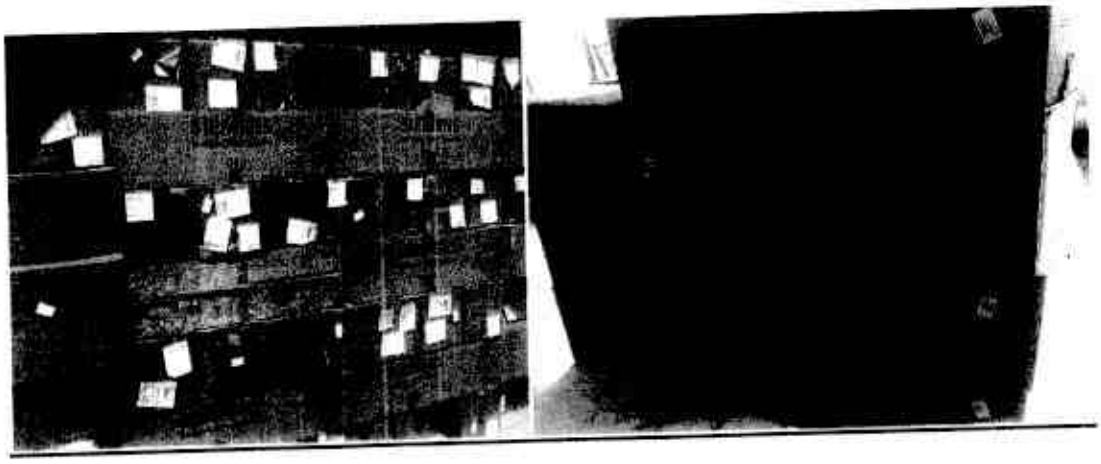
COMMERCIAL

Customer Reference Per Auction dt. 21.03.2012 Our Reference ASSI/H/I-A/SS/I of-2_Misc. Scrap.Doc	Date Date	Contact Muhammad Farhan Abdullah Shared Services Phone +92(21)2574910-19 2364 Fax: +92(21)2577790
Dispatch Address M/s. Silicon Communication & Security, M 4, Shop # 24, Shahrah - e - Liaquat, Karachi		Confirmed Delivery Date Incoterms 2000 Mode of Dispatch: Own Transport Vehicle No. JX-8619 & JX-0142 Net weight Lot - 2

Item	Description of Goods / Services	Origin	Quantity / Unit	Remarks of Consignee
Lot	Traffic Signal Light and Controller Spare Parts As a Lot - 2 AL : N ECCN : N AWV NN Ameen Imtiaz Head of SRE/SSO Mohammad Farhan Shared Services Siemens Pakistan Engineering Co. Ltd Shared Services Authorized Signature 22 MAR 2012 Goods labeled with "AL not equal to N" are subject to European or German export authorization when being exported out of the EU. Goods labeled with "ECCN not equal to N" are subject to US re-export authorization. Even without a label, or with label. "AL:N" or "ECCN:N", authorization may be required due to the final whereabouts and purpose for which the goods are to be used. material received as per condition		Lot - 2 22.03.2012 ASIM KAMI SREM 22 MAR 2012	



Delivery of traffic signal equipments from Siemens Pakistan



Traffic signal equipments stock at our depot

SIEMENS

Industry

To Whom It May Concern:

Name	Ray Wood Business
Unit	Traffic Solutions
Department	Sales and Marketing
Telephone	+44 (0) 1202 782040
Fax	+44 (0) 1202 782435
E-mail	ray.wood@siemens.com
Your reference	
Our reference	RLW/703017
Date	22/08/2012

Attn:

Dear Sir,

Project: Pakistan Traffic Control Equipment

Subject: Maintenance of Road Signalling Equipment

Please note that the following company has agreed to purchase spares and equipment from the manufacturer Siemens Traffic Solutions and have access to technical information from ourselves to enable them to maintain our full range of equipment.

Silicon Communication & Security,

Suit #4, SB 12 , Namdar Square
Askari Park, Near Old Sabzi Mandi,
Karachi, Pakistan.

International Business Development Manager

Peek Traffic Ltd
Hazelwood House, Lime Tree Way,
Chineham Business Park,
Basingstoke,
Hampshire RG24 8WZ, U.K.
Tel: +44 (0) 1256 891800
Facsimile: +44 (0) 1256 891870
E Mail: ukinfo@peek-traffic.co.uk
peek-traffic.co.uk

Your Ref
Our Ref Agent_Pak_200306

14 Jan 2013

To Whom It May Concern:

Dear Sirs,

Re: Peek Approved Agent

We hereby certify that the following company

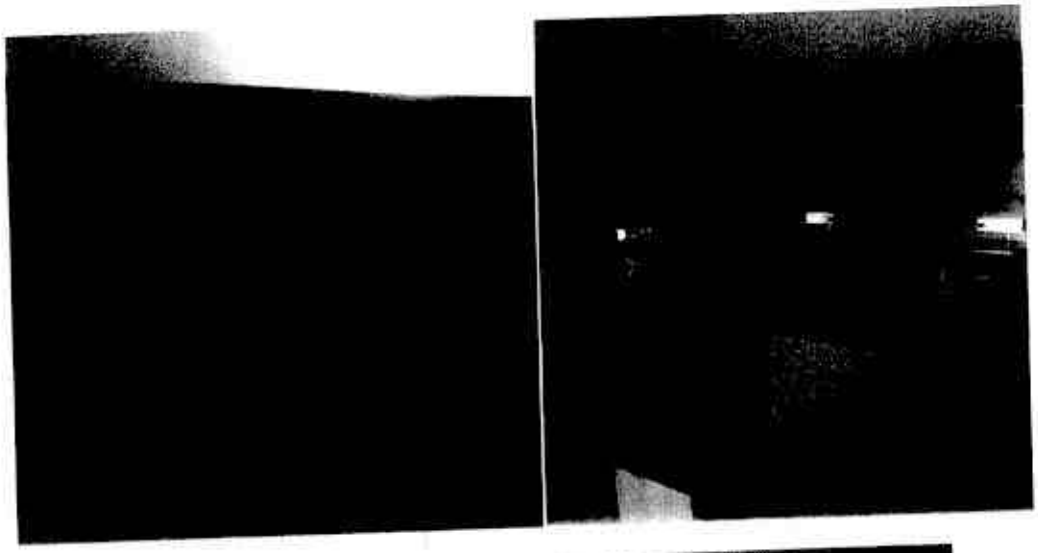
Silicon Communication & Security
A.M 4 Shahrah-e-liaquat
Karachi 74400
Pakistan

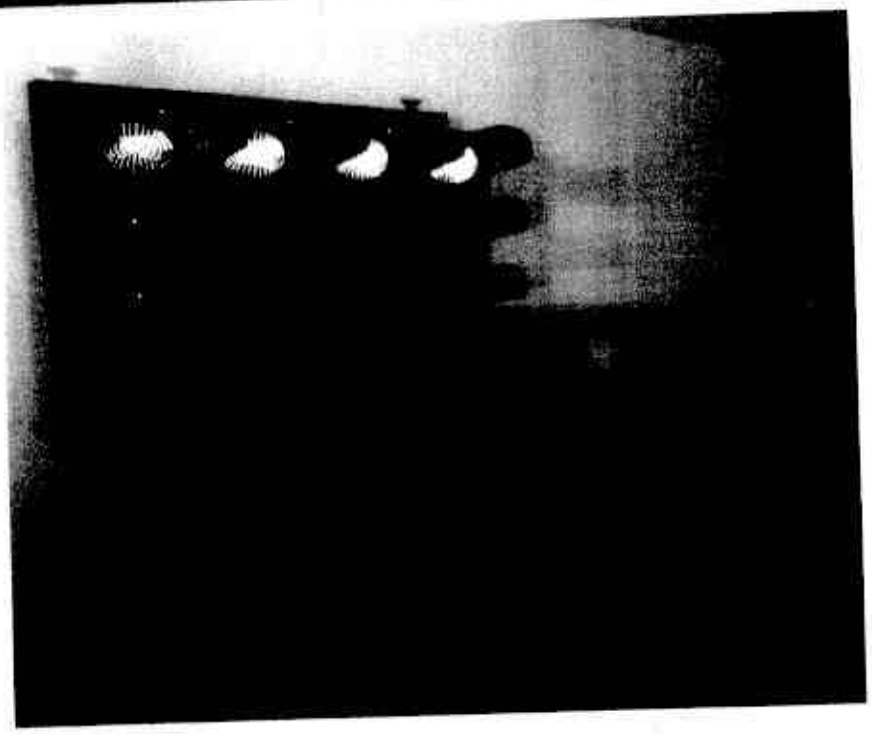
are approved to act as agents for Peek Traffic products and services in The Islamic Republic of Pakistan.

Yours faithfully,

For and on behalf of
Peek Traffic Ltd

Paul Smith
Product Sales Manager





HIGH TECH LAB TO REPAIR & MAINTAIN TRAFFIC SIGNAL CONTROLLERS

PAKISTAN ENGINEERING COUNCIL

Serial No. 13555
Form PEC-7

Registration No. ELECTRO/9115
Date of Registration: May 30,2008

CERTIFICATE OF REGISTRATION
UNDER
PAKISTAN ENGINEERING COUNCIL ACT 1976

This is to certify that Engr. ADNAN AHMED
son/daughter of ABDUL HANNAN born on Dec.16,1982
resident of 5-D,11/2 Nazimabad # 5 Karachi-74600
Present postal address -do-
has been registered as Registered Engineer at Serial No. ELECTRO/9115 of
the Register of Pakistan Engineering Council with following particulars:-

Qualifications:- =B.E.(ELECTRONICS)/2007-PAF,KIET,KARACHI=

Professional Affiliation
with status:

Specialisation/
Training / Attainments:

Registrar
Pakistan Engineering Council
G-5/2, Islamabad.

Date of Issue
May 30,2008

Note: This registration certificate is valid until 31st December 2013, unless renewed further.
This Certificate is the property of the council, returnable on request or de-registration.

Sr. No. 103996

Form PEC-5

PROFESSIONAL ENGINEER

Engr. ADNAN H.SIDDIQUI

Registration No. ELECT/19374

Valid upto: 31,DEC.2013

Address: L-180,SECTOR 5C/2,BILAL TOWN,NORTH KARACHI

Signature of Holder

Registrar

RENEWAL CARD

PAKISTAN ENGINEERING COUNCIL

PAKISTAN ENGINEERING COUNCIL

Ataturk Avenue (East) G-5/2, Islamabad
Tele. No. 2829296, 2829348

Ireland

Providing innovative quality solutions and services to the traffic industry.

At Peek Ireland, we are very proud of our staff expertise and commitment to customer satisfaction. Below are some examples of recent and ongoing major projects carried out from our Ireland offices.

- **Dunkettle Roundabout, Cork**

Signalisation of major access roundabout at Jack Lynch Tunnel, Cork and installing a dual control linked MOVA system.

- **Dun-Laoghaire Rathdown, Co. Dublin**

November 2006 – awarded through competitive tender a prestigious 3 Year maintenance contract. This incorporates both routine and reactive service to faults for approx 250 sets of traffic signals. 24/7 emergency response is a key element of this service along with full optical maintenance. This contract is fully supported by a dedicated team utilizing the Peek FMS system – FAST.

- **Killarney Town**

Supply & Installation of new Pelican Crossings and signalised junctions throughout the area.

- **Cork Green Route C**

Supply & Installation of new signalised junctions and pelican crossings along with full refurbishment of existing sites. All these sites were then validated to run SCOOT via Cork City Council's Peek TMS UTC system.

- **Cork County Council**

Supply & Installation of large quantity of Solar powered school warning lights and signage throughout Cork County.

For further details of any Peek products mentioned above please log onto our web site at; www.peekglobal.com
Or contact us at:

Cork
Curraghconlivay Business Park, Ballyvolane Road, Frankfield, Cork.
Tel: 021 - 4392968 **Fax:** 021 - 4392981 **Email:** info.ie@peekglobal.com

Dublin
Unit 30, Parkwest Enterprise Centre, Nangor Road, Clondalkin, Dublin 22.
Tel: 01 - 6251940 **Fax:** 01 - 6251941

PEEK

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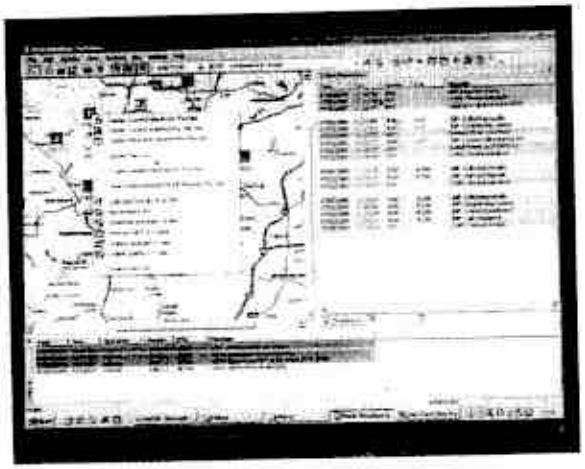
[illegible] Floor, [illegible] Square SB-12 [illegible] Scheme No. 11, [illegible] Rd. Karachi

www.peekglobal.com

PEEK

WISNet

WISNet is the latest version of Peek's remote monitoring instation software.



Key Features

- **PC based remote monitoring system**
- **User friendly interface**
- **Supports fixed line and wireless communications**
- **User configurable functions and features**
- **Integrated Crystal report forms for fault, site configuration and statistical information reporting**

WISNet allows for essential fault filtering and prioritisation. The user can interact with the WISNet system through a user friendly, menu driven graphical user interface (GUI). WISNet is designed to run on a standard PC with a high resolution graphics display. This allows the instation to provide useful presentation and reporting features. Site layouts and maps can also be entered onto the system. These can then be used to display sites operating in real time and identify sites with faults, using standard fault identification symbols.

WISNet is designed for easy installation and configuration on a standard PC, providing the operators with a Window's based alarms and monitoring system for traffic signal installations.

WISNet uses a standard telephone connection, through a dial up modem to link to the outstation, traffic, pedestrian or other controller, where a Peek Outstation Monitoring and Control Unit (OMCU), and optional MOVA card is installed.

The WISNet instation can be connected, via the telephone network, to multiple OMCUs. The system then monitors the status, collects data, and carries out fault analysis of all equipment. Information can be downloaded at regular intervals, or alternatively, automatic routines can be set up to alert the user to any faults.

How the Remote Monitoring System Works

Each OMCU monitors key parameters of a junction, pedestrian or other outstation as specified by the user. This may include lamp current, detector activity, or timings, with the expected performance ranges entered using the instation configuration pages. These are then downloaded via the telephone line to the OMCU. If the OMCU reports conditions outside of these limits, an alarm is automatically raised, alerting the operator so action can be taken.

The OMCU can also gather data on vehicle counts, which can be used to assess the performance of the site. In these cases the instation can be configured to dial up the OMCU on a regular basis to retrieve specific data. This data will automatically be retrieved any time the OMCU dials up to report a fault.

COMMUNICATION
Suite 4, 2nd Floor,
No. 11,

www.peek-traffic.co.uk

WISNet

Remote Monitoring Software

Archiving and Backup

Various archive and back-up methods are available to suit the level of data integrity required. Floppy disks and memory sticks for small systems, optical drives for write-only archiving; tape streamers for convenience; and digital tape for mass storage. A comprehensive audit trail is maintained on all system activities whichever archive method is selected.

Standby Power Supply (SPS) systems are available for the highest level of data protection, and to ensure sufficient backup in the event of power supply problems. The system provides sufficient power to maintain operation during a shutdown sequence.

Instation PC System Requirements

Minimum Hardware Requirements:

Pentium III 800
128 Mb RAM
10 Gb Hard disk
CD-ROM
4 Mb Graphics card 1024 x 768 x 256
3 Com US Robotics Sportster 56K
or Monitron Monicom modem
Printer (Deskjet)
SVGA 17" Colour monitor
Keyboard and mouse

Recommended Hardware Requirements:

Pentium P4-1.7GHz or above
256 Mb RAM
20 Gb Hard disk or greater
CD ROM 50x
64 Mb Graphics card 1600 x 1200 x 256
(To view map, system log and user log at the same time)
3 Com US Robotics Sportster 56K
Un-interruptible Power Supply with 20 minutes back-up time
CD-Writer (Back-up device)
Printer (Deskjet)
SVGA 19" Colour monitor or above
Keyboard and mouse

Software Requirements:

Windows 2000 Professional SP2™
Windows XP Home and Professional™
Windows NT4 Workstation™

PEEK

Peek Traffic, Kingsland House, Lime Tree Way, Chineham Business Park,
Basingstoke, Hampshire, RG24 8AZ
Tel: +44 (0) 1256 817800 Fax: +44 (0) 1256 891970 Email: sales@peek-traffic.com

Information furnished by Peek is believed to be accurate and reliable. However, Peek assumes no responsibility for its use, nor for any infringements of patents or other rights of third parties which may result from its use. Peek makes no representation that the interconnection of its products in the manner described herein will not infringe third parties' patent rights.

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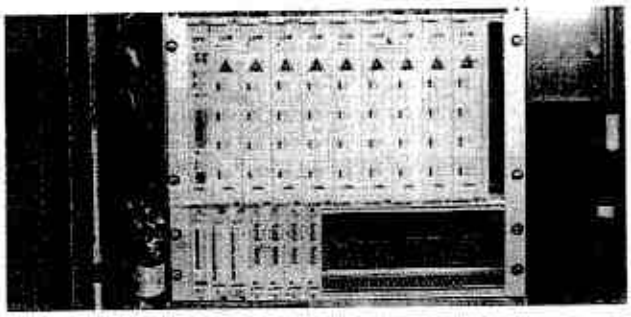
SILICON COMMUNICATION & CONSULTANCY
Unit 4, 2nd Floor,
Nandar Square SB-12
Nakai Park Comm. Scheme
No. 11,
University Rd. Karachi

www.peek-traffic.co.uk

PEEK

PTC-1

The latest in traffic signal controller technology from Peek providing more functionality at the roadside.



The Peek PTC-1 represents a fundamental change in traffic controller design. It offers fully integrated modern communications interfaces together with an operating system enabling flexibility for new applications. At the same time the robustness, reliability and many of the design features of its predecessor (the TRX controller) have been maintained in a very cost effective package.

Key Features

- **Modular traffic signal controller offering up to 36 phases**
- **Designed as fully compliant to the latest controller specifications – TR2500/EN12675**
- **Multiple user interfaces – USB, IP (Ethernet) and RS485 supported**
- **Support software includes user friendly windows based configuration and simulator packages**
- **IP and TCP/IP UTMC connectivity**
- **State-of-the-art, surface mount electronic circuits, resulting in high reliability and low maintenance**
- **Integrated power unit including mains voltage monitoring, safety filters and separate main contactor for optimum safety**
- **Comprehensive fault log facilities**
- **Traffic control programs are stored in flash-EPROM with remote maintenance facility**
- **Power PC Central Processing Unit (CPU) contains two autonomous processors, one for control and one for supervision**
- **Four signal groups (twelve lamp switches) integrated into one lamp control and monitoring unit, including voltage and current monitoring for each lamp switch**
- **Concurrent operation of 230 and 48 volt signals**
- **High accuracy integrated speed measurement**

PTC-1 benefits

The PTC-1 has a number of specific benefits that make it very cost-effective in a large number of applications. The high level of integration, the flexibility and specifically the extensive connectivity options make it the ideal choice for the modern networked environment.

The large memory of the CPU board enables multiple configurations and applications to be stored, selected and activated. All safety functions are continuously monitored by a separate safety processor which provides standard safety monitoring or a more detailed safety monitoring exceeding the requirements of latest U.K. and European standards.

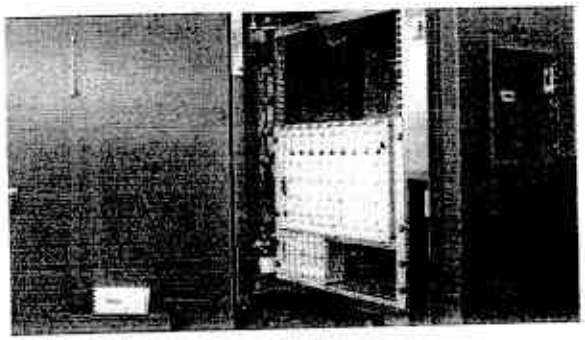
Designed for the next generation of traffic control equipment the controller has IP (Ethernet) and USB interfaces and is able to drive and monitor low voltage LED signals directly, fully utilising the energy saving advantages of the latest LED signals.

COMMUNICATION
14, 2nd Floor,
Block 7 & 8 Scheme
No. 11,
Gulshan-e-Iqbal, Sit, Karachi

www.peek-traffic.co.uk

PTC-1

Traffic signal controller



PTC-1 applications and operational modes

- **Fixed time, vehicle actuated, and CLF modes**
- **Can be operated in manual or part time modes**
- **Supports integral OTUs (up to 4)**
- **Supports integral multiple stream MOVA**
- **UTMC compatible operation**
- **UTC control and bus priority options**
- **Pelican, Toucan, and Puffin capabilities**

Software configuration and testing

Available with the controller is a suite of Windows™ application tools providing facilities for Configuration, Simulation and Programming. Using these tools the Traffic Engineer can configure a junction graphically & then simulate its operation including the detectors with real traffic data.

Once the engineer is satisfied with the configuration it can be downloaded to the controller either locally or remotely. The Programming tool can additionally be used to automatically complete full site specific safety testing including conflict and lamp monitoring prior to installation (using additional hardware).

Access to the controller to modify site data or for maintenance purposes can either be via a terminal simulator (e.g. HyperTerminal) using the familiar TRL handset commands or through a web browser (e.g. Internet Explorer) which then provides a graphical interface for comprehensive display & changing of data.

Specifications

CPU:	PowerPC
Interface:	10 x Mbit s Ethernet port 2 x USB ports 3 x RS485 RS422 interfaces 1 x RS232 modem interface 1 x RS232 engineers terminal interface
LCM:	4 Phase 230V 16A Lamp Monitoring RRA3 NPAG Lightning Protection
Configuration:	5 ... 36 signal phases 0 ... 64 detector inputs 0 ... 48 Parallel inputs 0 ... 48 Parallel output
Mains Voltage:	110 ... 230V +25% ... -20% 50 60Hz +4% ... -4%
Energy Reserve:	>= 50ms
Output Power:	920 VA per output 1.8 kVA total (per 4 signal group) 7.3 kVA total (36 signal groups)
Op. Temperature:	-18°C to +60°C -40°C to +70°C export option
EMC:	EN 50293
Safety:	HD638
Approvals:	EN 12675 TR2300A RoHS and WEEE compliant
Cabinet (standard):	IP Rating 55 1185H x 740W x 432D mm
6U Rack:	87H x 483H x 180D mm
Manual Panel:	Pushbutton with LED Indicators manual On Off only 8 programmable buttons
Capacity:	Phases 36 Stage Streams 8 Hurr. calls 8 CLF Plans 32 per stream Groups per day 32 Timetables 255
Other Options:	Emergency lighting protection Audible Tactile drivers Secret sight drivers

PEEK

Peek Traffic, Hazelwood House, Lime Tree Way, Chineham Business Park
Basingstoke, Hampshire, RG24 8WZ
Tel: 44 (0) 1256 891800 Fax: 44 (0) 1256 891810 Email: ea.ce@peek-traffic.co.uk

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Adjt Park Centre Scheme
No. 11,
University Rd Karachi

www.peek-traffic.co.uk

First in Traffic Solutions

MONDIAL

COMPLETE TRAFFIC LIGHT RANGE IN INTERNATIONALLY ACCLAIMED STYLE

DESCRIPTION KEY BENEFITS TECHNICAL DETAILS PICTURES

First in Traffic Solutions

SWARCO Worldwide Products & Services Traffic Management Urban Traffic Management Traffic Lights MONDIAL

MONDIAL

COMPLETE TRAFFIC LIGHT RANGE IN INTERNATIONALLY ACCLAIMED STYLE

DESCRIPTION KEY BENEFITS TECHNICAL DETAILS PICTURES

Due to the successful combination of outstanding optical quality and an attractive design, MONDIAL is one of SWARCO FUTURIT's most popular signal heads. It has been installed all over the world, from icy Scandinavia to deserts on the Arabian peninsula, where MONDIAL signal heads have successfully proven their sturdiness and flexibility in all climatic conditions.

PROVEN QUALITY – HIGHEST FLEXIBILITY

Made of UV-stabilized polycarbonate SWARCO FUTURIT's MONDIAL is resistant to mechanical stress, unfavourable weather conditions and solar radiation. Its modular design and constructional snap elements allow for easy signal maintenance. MONDIAL can be supplied with different types of light sources and electrical systems such as high voltage, low voltage, BA 20, halogen or LEDs. Meeting the highest requirements all over the world, MONDIAL is the most versatile traffic signal head available.

With its optical system being adapted to each lamp type for optimum light intensity, MONDIAL is our well proven contribution to traffic safety.

- available in ø 210 / 300 mm, combisignal (ø 300 mm + ø 210 mm)
- in combination with FUTURLED optic lowest power consumption and brilliant light output
- proven technology
- longevity of operation
- vandal-proof design
- modular lens filter system adapted to minimize phantom light
- any type of lens with customized symbols can be delivered on request

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vertical and horizontal mounting

Material	UV-stabilized polycarbonate
Diameters	100 / 210 / 300 mm aspects: 1, 2, 3 as standard; more aspects on request
Optics	210 / 300 mm FUTURLED
Impact resistance	High (Class IR3 acc. to EN 60598-1)
Ingress protection	Water- and dust-proof (IP54) – EN 60529
Certified	in accordance with EN12368 CE certification obtained
Protection classification	Class II – double or reinforced insulation
Housing colours	pebble-grey (RAL 7032) fir-green (RAL 6009) black (RAL 9005) orange (RAL 2000) silver-grey (RAL 7002) other colours on request
Variation options	**Mounting:** two point fixing/mounting by means of brackets in different lengths of 105 mm, 183 mm, 240 mm, for L-shaped brackets as well as for T- shaped brackets (brackets in customized lengths available) two point fixing/mounting on cantilever bracket backing **Electrical:** FUTURLED modules; High voltage E27, B22; Low voltage Ba20S, PKX 22s **Optics:** depending on light source used - spiderweb lens, spiderweb lens with lens pattern centre, wide angle lens. **Boards:** can be fixed easily at the rear side of the housing

PICTURES

COMMUNICATION
Suite 14, 2nd Floor, Mandar Square SG-12, Ashfaq Ahmed Cooperative Housing Society, No. 11, Shaheed-e-Millat Road, Karachi

Due to the successful combination of outstanding optical quality and an attractive design, MONDIAL is one of SWARCO FUTURIT's most popular signal heads. It has been installed all over the world, from icy Scandinavia to deserts on the Arabian peninsula, where MONDIAL signal heads have successfully proven their sturdiness and flexibility in all climatic conditions.

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COMMUNICATION Plot 4, 3rd Floor, Nishat Square SS-12 Main Pak Colony Square No. 11, Shahrah-e-Faisal Karachi

black (RAL 9005)
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silver-grey (RAL 7002)
other colours on request

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Mounting: two point fixing/mounting by means of brackets in different lengths of 105 mm, 183 mm, 240 mm, for L-shaped brackets as well as for T- shaped brackets (brackets in customized lengths available)
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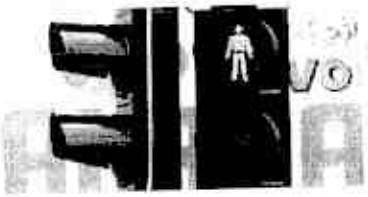

GOVERNMENT OF PAKISTAN
REVENUE DIVISION
CENTRAL BOARD OF REVENUE

NATIONAL TAX NUMBER CERTIFICATE

(Issued under section 20 of the Finance Act, 1999)

National Tax Number (NTN) 1435592-2

OTHER BUSINESSES

1 SILICON COMMUNICATION & SECURITY
AM-4 SHOP # 24 SHAHRAH E LIAQUAT, KARACHI

Name: FAISAL SATTAR

Address: M/S F&R AUTO
AM-4 SHAHRAH E LIAQAT BURNS ROAD
KARACHI MADINA MUSJID
KARACHI

Status/Nature: Business Individual

NIC/Firm Reg./Company Inc.Number. /New NIC : 4200003753505

This certificate shall be prominently displayed at a conspicuous place of the premises in which business or work for gain is carried on. It is also required to be indicated on the signboard wherever it is affixed.

Total Number of Businesses : Two
Date of Issue 21/07/2006

Chairman

GOVERNMENT OF SINDH

OFFICE OF THE EXCISE & TAXATION OFFICER, 'P-I' DIVISION, KARACHI.
4th Floor, Manzoor Square, Plaza Quarters, Opp: My Bank, Behind Rimpa Plaza M.A. Jinnah Road, Karachi

No. E.T.O/ P-II /Prof. Tax/ /2012, Karachi Dated 18-07-2012

Professional Tax

CERTIFICATE

(See Rule 11(4)(a)

This is certified that M/s. Silicon Communication & Security Suit No. 4 2nd Floor Maindar Square SB-12 near Aslam Park old Subzi Mandi Karachi

Have paid the Tax on Trades, Professions, Callings and Employment for the Financial Year 2012-13 vide Challan No. _____ dated 18-07-12 in the ~~SBP~~ National Bank of Pakistan, Defence Housing Society Br. Branch Karachi.

This Certificate is valid for the year 2012-13 only, i.e. Up to 30th June 2013

EXCISE & TAXATION OFFICER,
'P-I' DIVISION, KARACHI.

VOLUME-I

KARACHI METROPOLITAN CORPORATION
TRANSPORT & COMMUNICATION DEPARTMENT

TENDER DOCUMENTS

SINGLE STAGE –TWO ENVELOPE SYSTEM BASED ON SPPRA RULE 2010

EE LBA 21/6/2013

EE DOBS&BM 21/6/2013

INSTALLATION/IMPROVEMENT AND UP-GRADATION OF EXISTING TRAFFIC SIGNALS IN KARACHI (ZONE – I & ZONE -II)

CE(TC&O) 21/06/13

VALIDITY OF TENDER: 90DAYS **TENDOR COST: RS.3, 000/=**
TO BE OPENED ON: 21JUNE 2013

CHIEF ENGINEER (TC&O)
T&C DEPARTMENT, KMC

NO. **DATED:** 18-6-2013

ISSUE TO M/S Silicon Communication + Security **P.O.NO:**

DATED:

BANK:

Signature & Stamp of Issuing Authority

MUHAMMAD YOUSUF
Divisional Accounts Officer
Transport & Communication Deptt
(TC&O) K.M.C
18/6/13

SILICON COMMUNICATION & SECURITY
Suit 4, 2nd Floor, Namdar Square SB-12 Askari Park Comm. Scheme No. 11, University Rd. Karachi

INTRODUCTION & BACKGROUND

1- TCD KMC is controlling/regulating the traffic throughout signalized UTC/SCOOT system in all over Karachi 120 nose traffic signal since 1998 on every year annual contract is invited has being awarded to the firm eligible. For monitoring the system and keep its operating system 24/7 round the clock throughout the year .The list of intersection being mention and operation is annexure A.

2- Presently the system is in operative condition and being maintained by the TCD Department through the contractor / firm.

3- The TOR as under

THE REQUEST FOR PROPOSALS (RFP)

1- This request for proposal RFP is issued by transport & communication department on the behalf of the Karachi Metropolitan Corporation. It invites well repute having experience in the field of traffic signalization, operation & maintenance.

RESPONSIBILITIES OF THE CONTRACTOR

Maintenance Requirements for contractor

The maintenance requirements of the Urban Traffic Control System works fall into following two categories:

- Routine Maintenance of Traffic Signal Equipment and Controllers.
- Fault Call Out Maintenance

1.1 Routine Maintenance

Daily

Visit of All signal sites and replacement of fined lamps if any and submission of status of complaint/repair:
Fault Call out Maintenance

Monthly

1. Cleaning of Signal Heads and Signal Poles
2. Checking/calibration of clock of each controller with master controller.

Half Yearly

Repainting of Signal Poles
Controller Functional Checks
Visual Inspection of Controller, Cable Termination

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Azkari Park Comm. Scheme
No. 11,
University Rd. Karachi

BASIS FOR SELECTION OF CONTRACTOR/FIRM

The contractor/firm will be selected through competitive tendering process in accordance with the sindh public procurement rules 2010and as per the two level evolution criteria specified below:

LEVEL-1 Technical Evaluation primarily concerning experience in signalization of intersection especially in Siemens T-400 ST-800 Traffic control system, Maintenance of traffic signals and financial standing of the firm.

LEVEL-2 Financial evaluation basically comparison of financial bids.

THE PROJECT TERMS:

The initial term will be one years renewable for another term subject to performance evaluation and as per mutual consent of the parties, OR the project will be Re tendered accordingly.

THE RFP PACKAGE:

The services to be provided by the bidders, the procedure to be followed during the tendering process and the term and condition of the draft agreement are described in this RFP package. The RFP package consists of:

THE RFP

Annexure A to the RFP - Bidders commitment letter

PROJECT MONITORING:

The process will be conducted solely under the direction and supervision of the Project Director / Chief Engineer (TC&O) or Official deputed by him, T & C Department KMC.

TIME TABLE

The time for submission of proposals by the bidder is 21ST JUNE 2013 up to 12:00 NOON. Only the technical proposal shall be open on the same day at 12:30PM

15. **WITHDRAWAL OF PROPOSAL:**

A bid may withdraw its proposal after submission provided that a Notice of Withdrawal is received by the KMC prior to the Submission Deadline or before the Opening of proposal by the procurement committee.

16. **SUBMISSION, RECEIPT AND SIGNING OF PROPOSAL:**

The bidder shall the proposal under two envelops system, that is, the Technical and Financial proposals is separate envelops clearly marked Technical and financial with original and one duplicate copy at the following Address:

Senior Director
Transport & Communication Department, KMC,
8TH Floor, Civic Centre, Gulshan-e-Iqbal, Karachi.
Tel No: 021-99230655 – Fax: 021-99231787

17. **OPENING AND EVALUATION OF PROPOSAL:**

Opening of Technical Proposal:

The technical proposal submitted on or before the Submission, Deadline, will be opened on the same day at 12:30 PM, in the presence of the bidder's representatives who choose to attend the opening.

18. Only the names of bidders shall be announced who submitted the proposal.

19. Bidders representatives who attend the opening of the technical section envelopes Shall sign a register to record their attendance.

20. **OPENING OF FINANCIAL PROPOSAL:**

The financial proposals of only Qualified Bidders will be opened on the notified date and time.

21. **EVALUATION OF PROPOSAL:**

The Evaluation of Proposals shall be undertaken by the designated Evaluation Committee after the deadline for submission of proposals. Any proposal not in conformity with the prescribed bidding procedure and requirements in the RFP will be disqualified.

The Technical proposals shall be evaluated first in accordance with the eva criteria prescribed below. The bidders who will secure 70 points shall be considered technically qualified. The financial proposals of the technically bidders shall be opened in the presence of bidders. The Evaluation Repo hoisted on KMC website and that of the prior to the award of contract.

SILICON COMMUNICATION & CONSULTANCY
Suit A, 2nd Floor, Namdar Square SB-12 Askari Park Comm. Scheme No. 11, University Rd. Karachi

TECHNICAL EVALUATION CRITERIA

The Technical Proposal shall be evaluated as per the following criteria:

S.NO	CRITERIA	DISTRIBUTION	MAXIMUM
1	**Qualification / Experience of firm**		20
	A. Experience in maintenance of traffic Signals T-400 and ST-800 Controllers) (Attached documentary evidence)		
	1. For Last 3 years experience	05	
	2. For Last 5 years experience	15	
	B. Experience in installation of traffic signals (Attached documentary evidence) List of related project complete		15
	1. Signal related project completed in last 3 years	05	
	2. Signal related project completed in last 5 years	10	
2	**License**		20
	1. PEC license in relevant category EE06,EE07 AND CE10 (Attached documentary evidence)	15	
	2. Electrical license	05	
3	**Support for Improvement /Installation /Repair**		35
	1. Sufficient inventory of genuine spare parts of traffic signals (specially T-400 & ST-800 controllers & German &Turkish lights)(with documentary evidence)	15	
	2. Principal letter for support of equipment of traffic signal equipment.	05	
	3. Laboratory duly equipped with necessary tools and software and repaired of phase driver card and mother board (with documentary evidence)	15	
4	**Engineer depute in maintenance of traffic signal.**		10
	1. Electrical engineer (Attached valid PEC registration certificate / card.	05	
	2. Electronic engineer (Attached valid PEC registration certificate / card.	05	

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KARACHI METROPOLITAN CORPORATION

TRANSPORT & COMMUNICATION DEPARTMENT

TERMS OF REFERENCE (TOR)
FOR

INATALLATION / IMPROVEMENT AND UP-GRADATION OF EXISTING TRAFFIC SIGNALS IN KARACHI (ZONE-I & ZONE-II)

SILICON COMMUNICATION SOCIETY
Suit 4, 2nd Floor,
Nandar Square SB-12
Askari Park Comm. Scheme
No. 11,
University Rd, Karachi

1. Introduction

This document describes the System to meet the maintenance requirements for traffic signals in Karachi. During one year maintenance period.

2. Brief Maintenance Requirements

The maintenance requirements of the Urban Traffic Control System works fall into following two categories:

- Routine Maintenance of Traffic Signal Equipment and Controllers.
- Fault Call Out Maintenance

2.1 Routine Maintenance

Daily

Visit of All signal sites and replacement of fined lamps if any and submission of status of complaint/repair:

Fault Call out Maintenance

Monthly

3. Cleaning of Signal Heads and Signal Poles
4. Checking/calibration of clock of each controller with master controller.

Half Yearly

Repainting of Signal Poles
Controller Functional Checks
Visual Inspection of Controller, Cable Termination

2.2 Fault Categories:

- Urgent

And

- Less urgent faults. Urgent faults are

Urgent faults are

- All aspects of one phase or more units.
- 50% of the red lamps on one phase unlit.
- Signals failing to change
- Defective signals/timings causing abnormal traffic conditions.
- Signals damaged and/or in a dangerous condition

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2.3. Response Time

Urgent Faults	
Within flours on working day	if no other fault exists
Within 4 hours on working day	if any other fault exists
Within 4 hours on weekends and Holidays.	if no other fault exists
Within 6 hours on weekends and Holidays.	if any other fault exists.
Less urgent faults	
To be responded to	within 10 contract hours

2.4. Definition of Response

Attending the location of the fault within the periods defined above and continuously working during the contract hours to clear the fault.

2.5. Maintenance Working Hours

The working hours for maintenance shall be

0830 -1830	MON through SAT
0930 - 1700	SUN and Public Holidays
0830 -1500	during the Holy Month of Ramzan

Faults reported at times other than between the above working hours shall be deemed to have been reported on the start of next working days subject to clause 2.5 above. At weekends non-urgent faults shall be deemed to be reported two hours prior to the start of the next working day, No routine maintenance will be carried out on Eid days, 10th of Moharam and 14 August, however for emergency person will be available on working telephone to attend on call from TRANSPORT & COMMUNICATION DEPARTMENT

2.6. Maintenance Depot

A location serving as the base for maintenance activities is to be maintained. T complaints pertaining Traffic Signal Faults shall be reported at the Depot at a gi 24 HOUR Mobile number. Arrangements for receipt of complaints should maintained on register.

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2.7. Spares

All the spares for maintenance shall be specified and kept at the Contractor's depot. A perpetual inventory of spares shall be maintained by the Contractor and inspected by the Engineer at six monthly intervals. All die material and spare parts to be supplied and replaced shall be brand new and compatible with the corresponding part of the existing Traffic Signal Equipment installed at site.

2.8. Non Performance Rebates

One Rebate Unit (RU) =0.05% of the annual routine maintenance cost.

If the Contractor fails to meet the performance requirements regarding response and fault attendance one Rebate Unit for every four hour period in excess of the response times defined limited to a total of 100 RU, can be claimed by the Engineer.

Non performance rebates shall not be applicable if

1. The equipment has to be taken out of service for repairs or
2. It is necessary that the equipment be isolated from the mains supply for which the Engineer fails to provide a competent person or
3. The equipment is damaged and can only be' made safe'

2.9. Schedule of Equipment to be maintained

The Contractor shall maintain all the street equipments mentioned in clause

3. Meeting the Requirements

3.1 Staffing

Maintenance team shall comprise of following personnel, strength whereof shall be kept according to the job requirements:

System Engineer (Maintenance In charge)

Supervisors

Technicians

Telephone Operator/Co-coordinator

Helpers

This team would be based at the UTC Project Depot and would employ and will be equipped with all required tools to carry out:

Routine maintenance as per specifications
And
Respond to Fault Call Outs.

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3.2 Schedule of Equipment and Works to be maintained

The following equipments! Works at the intersections shall be maintained during the 12 months maintenance period

- Traffic Signal Controllers
- Traffic Signal Aspects and assemblies
- Mast arm and Standard Signal poles.
- Accessories to above.

3.3 Spares for Maintenance

The routine maintenance charges include the service to be rendered and cost for bulb replacement etc. and the replacement of spare parts on the stock of TRANSPORT & COMMUNICATION DEPARTMENT Store. A tentative spares if not available in TCD store shall be arranged by the contractor on chargeable basis.

3.4 Maintenance Depot.

Maintenance Depot shall be equipped to receive fault complaints. The address of the Maintenance Depot and 24 hour Mobile Telephone No. shall be communicated to the Department before the start of the contract.

3.5. Routine Maintenance Services

Following are the broad functions of the maintenance teams to perform maintenance services:

General Inspection and Fault Reporting
Replacement of fused lamps
Cleaning of Signal Heads and Poles
Clearance of Damaged equipment from the street
Repainting of signal poles
Replacement of spare parts on stock of T & C

The System Engineer shall be the overall in charge to perform the maintenance activities shall have following specific tasks:

- Contact the Engineer or any person authorized by the Engineer daily upon commencement of maintenance working hours to inform the schedule of works during the day or Fax the program of the day to the office of the Engineer.
- Overall administrative control of maintenance set-up
- Fine tuning of all the controllers as & when required to activate customize the new time plans generated according to traffic load on the junction.
- Attending Controller faults.
- Making timing changes upon written request of the Engineer.
- Synchronization of CLF Clocks (if required)
- Inspection of controllers
- Document fault reports, damages, spare requirements and monthly progress to tile Engineer.
- Daily report of the status of each complaint attended/fault rectified or otherwise.

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- Daily inspection of all Traffic signal equipments on all the junctions jointly along with the representative of the Engineer In charge, Transport to be arranged by the contractor.

3.6. Timing changes/modification in staging and specifications

For timing changes/modification in specification etc. the Engineer shall issue instructions to the System Engineer on a form after which the System Engineer shall carry out the job and report back to the Engineer. Reconfiguration/Customization of the controller shall be a chargeable maintenance activity.

3.7. Fault Reporting System

Complaints shall be received at Depot:

By Telephone
By fax,
Or by reporting in person

The complaints shall be registered by the attendant on the log sheet.
During the working hours a complaint Number would be issued to the complaint. During none working hours on holiday's complaint would record on the answering telephone machine and number would allot on the next working day.

3.8. Records for the Engineer.

The System Engineer would regularly submit in writing to the Engineer on monthly basis the following:

Log of the complaints received
Detail of routine maintenance carried out
Detail of parts replaced if any

Schedule of routine maintenance shall be provided to the Engineer in advance in the event of damages the System Engineer will notify the Engineer through a Damage Report in quadruplicate and the Engineer will inspect the site with system engineer and will issue necessary instruction for repair/replacement on the same report.

3.9. Sequence of fault removals.

Sequence of events in removal of any fault is shown in the Flow chart.

3.10. Documents related to Maintenance

3.10.1. Daily Fault Log

This record will be kept at the UTC maintenance depot. It will contain the complaint number and location with a brief mention of the nature of complaint, reporting time, time of attendance of fault. This log will form the source document for all other documents related to Fault Call Out.

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Karachi Metropolitan Corporation

3.10.2. Yearly Maintenance Record

Master copy of this document to be kept at the Depot. She staff will have a duplicate to keep the maintenance history for each site. It contains the record of bulb replacement; faults and damages occurred during the year.

There will be a unique card for each site and information on this card will be a proof that maintenance is being carried out as per contract conditions.

3.11. Maintenance Charges.

Maintenance charges shall be invoiced on periodic basis to the Executive Engineer at the rate quoted/month by the contractor for routine maintenance which include repair of modules of phase driver cards and motherboard of the controller.

Charges for services outside the- scope of work defined above shall be invoiced separately by the contractor at the rate prevailing at the time of works done.

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SPECIAL CONDITIONS

CLAUSE-I

a) The routine maintenance include the services to be rendered for keeping the Traffic Signal Equipment in perfect running condition etc.Including repainting of poles, repair of modules of phase driver cards, mother boards of controllers, cost of bulb including replacement of spare parts. These spare parts will be kept under lock & key of the authorized representative of T&C however, separate but proper and adequate space will be provided by the contractor within the Maintenance Depot free of charge. Watch & ward of the entire Depot round the clock will be the responsibility of the Contractor. The contractor will also maintain the inventory of spare parts and will fulfil other obligations as set-forth in the TOR.

b) Chargeable maintenance includes the supply, replacement of spare parts and dismantling of signals as and when required on the rates given in the offer and the faulty parts & dismantled equipment should be transported to TCD store on contractor expense. However, for all other services and works outside the scope of this agreement if desired by EXEN (E/M) TRAFFIC SIGNAL UNIT TCD KMC the contractor will submit an estimate with rate analysis for the jobs to be carried out before execution and shall charge rates applicable for such jobs after obtaining the necessary approval from EXEN (E/M) TRAFFIC SIGNAL UNIT.

CLAUSE-II

Any reason or cause whatsoever for non-availability of the required parts will not be entertained and the existing system will not be replaced due to this reason. This has to be assured by the contractor before awarding the contract by submitting authorization certificate from manufacturer of system.

CLAUSE-III

The contractor hereby permits the authority to make deductions from any payment to him by the authority for the work done under this contract, such sum, will amount to 10% of all money so paid. Such deductions to be held by the Authority by way of Security Deposit against the completion of work. Security Deposit so deduct shall be refunded within 3 months from the date of completion of work.

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CLAUSE-IV

The maintenance of the traffic signal equipment on all junctions shall be carried out properly/promptly with all due diligence to keep all the signal equipment in perfect running condition (Un-interrupted and quality maintenance is the essence of the contract).The maintenance of the signal equipment will be carried out by the team of technician having sufficient experience and knowledge of maintenance of UTC signal equipment headed by qualified Engineer trained for the Controller installed under this project. Maintenance and fault attending in Traffic Controller will be done only in presence of the Qualified/Trained Maintenance Engineer of UTC System. In case of delay in clearance of reported fault beyond the specified time penalty/non-performance rebate, One Rebate Unit (R.U) for every 4 hours delay will be imposed on the contractor; however, the total non-performance rebate will not exceed 100 R.U per annum. One R.U =0.05% of the annual routine maintenance cost.

CLAUSE-V

The maintenance and service of the equipment will be carried out by the maintenance staff of contractor, during normal business hours, however, in emergency cases and, on special request of the EXEN (E/M) of T&C. Contractor will send their maintenance staff even after the official working hours. The T & C shall furnish all information and assistance to the maintenance staff of contractor. For damage caused due to negligence of Contractor's maintenance staff, will be repaired by the Contractor free of charge.

CLAUSE-VI

In the event of any dispute or difference arising between the T & C and contractor in connection with any of the matters contained in this agreement, be settled amicably , if , however both the parties fail to arrive at an amicably settlement, such dispute or difference be referred to the two arbitrators one to be appointed by each party and the provisions of the Pakistan Arbitration Act 1940 or any re-enactment or statutory modification thereof for the time being in force shall be modification to such arbitration proceedings. The decisions of the Arbitration shall be accepted as binding upon both the parties.

CLAUSE-VII

Two Hilux Vehicles owned by T.C.D. for maintenance of U.T.C. and NON-UTC system shall be maintained by the Contractor at his own cost. The Contractor will bear the operation & maintenance charges including Motor Vehicle tax & insurance charges etc of the vehicles during the period of contract. He shall

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return the vehicle to T.C.D. after expiry of contract period in good running condition.

CLAUSE-VIII

The T & C, KMC will pay all such maintenance, replacement or services, arising out due to outside influence such as accidents, violence, riots, strikes, storms, theft and fire.

CLAUSE-IX

a) All Duties and Taxes (Provincial and Central Governments) will be borne by the contractor. The maintenance charges and the rates of spare parts, replacement charges are firm and no escalation due to fluctuation in market rates will be paid to the contractor during currency of this Contract Agreement.

b) The Contractor authorizes the "Authority" to deduct Income Tax from all payment made to him, in accordance with the prevailing Income Tax Laws of Pakistan with any amendments made subsequently during the currency of the contract. The Income Tax so deducted will be deposited with the Government of Pakistan towards payment of advance Income Tax by contractor. When such deduction is made from the payments a certificate to the effect shall be issued by the Authority to the Contractor. Not with standing such deductions of advance Income Tax at source, the contractor shall be liable to pay the balance Income Tax, Super Tax and other taxes on income or his profit arising out of this contract and his employees on their remuneration etc. in accordance with the prevailing Income Tax Laws of Pakistan.

CLAUSE-X

The contractor agreement can be terminated by T & C at any time on a 30 thirty days prior notice given to the contractor. No claim whatsoever on this account will be admissible.

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APPENDIX "A"

UTC STORE INVENTORY

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Namdar Square SB-12
Askari Park Comm. Scheme
No. 11,
University Rd. Karachi

PARTS OF TRAFFIC SIGNALS STORE INVENTORY AS ON FEBRUARY 2013		
S.NO	DESCRIPTION	STOCK IN HAND
1	POWER SUPPLY UNIT T-400	NIL
2	CAPACITOR	19
3	SOLID STATE RELAY	38
4	BATTERY	111
5	RELAY A OR B	228
6	MAIN HRC FUSE	34
7	FUSE FS 7	61
8	FUSE FS 8	123
9	REGULATORY SIGN FUSE	78
10	REGULATORY SIGN FUSE HOLDER	90
11	MAIN CONTROLLER SWITCH	59
12	DOOR LOCK	12
13	DOOR GASKIT (ROLLS)	1
14	SCREW LOCK BOLT	34
15	SCREW LOCK NUT PLATE	50
16	CONFIGURE EPROM	52
17	8 PHASE CONTROLLER T-400	2
18	16 PHASE CONTROLLER T-400	6
19	CONTROLLER CASE	NIL
20	3 WAY LIGHT ASPECT 200 MM	3
21	3 WAY LIGHT ASPECT 300 MM	20
22	1 WAY LIGHT ASPECT 200 MM	NIL
23	1 WAY LIGHT ASPECT 300 MM	2
24	2 WAY LIGHT ASPECT 200 MM	73
25	REGULATORY SIGN 300 MM	NIL
26	PEDESTARIAN PUSH BUTTON	114
27	CONTROLLER PLINTH	NIL
28	MAIN PROCESSOR BOARD CPU	NIL
29	4-PHASE DRIVER CARD	2
30	HAND SET	1
31	MANUAL PANEL	NIL
32	STANDARD POLE	137
33	CONFLICT EPROM	52
34	GLASS 200 MM	NIL
35	RUBBER GASKIT 200 MM	36
36	REFLECTOR 200 MM	205
37	HOOD 200 MM	NIL
38	MOUNTING BRACKET 200 MM	NIL
39	ARROW BRACKET 200 MM	NIL

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Namdar Square SB-12
Askari Park Comm. Scheme
No. 11,
University Rd. Karachi

40	ARROW MASK 200 MM	NIL
41	GLASS 300 MM	56
42	REFLECTOR 300 MM	27
43	MAST ARM POLE	27
44	RUBBER GASKIT 300 MM	58
45	HOOD 300 MM	37
46	ARROW BRACKET 300 MM	NIL
47	HANGIN BRACKET 300 MM	NIL
48	ARROW MASK 300 MM	57
49	CABLE 12 CORE	NIL
50	LOOP CABLE	NIL
51	CONTROLLER ST- 800 8 PHASE	NIL
52	CONTROLLER ST- 800 16 PHASE	3
53	3-WAY ASPECT 200 MM WITH LED BALL (BLACK)	10

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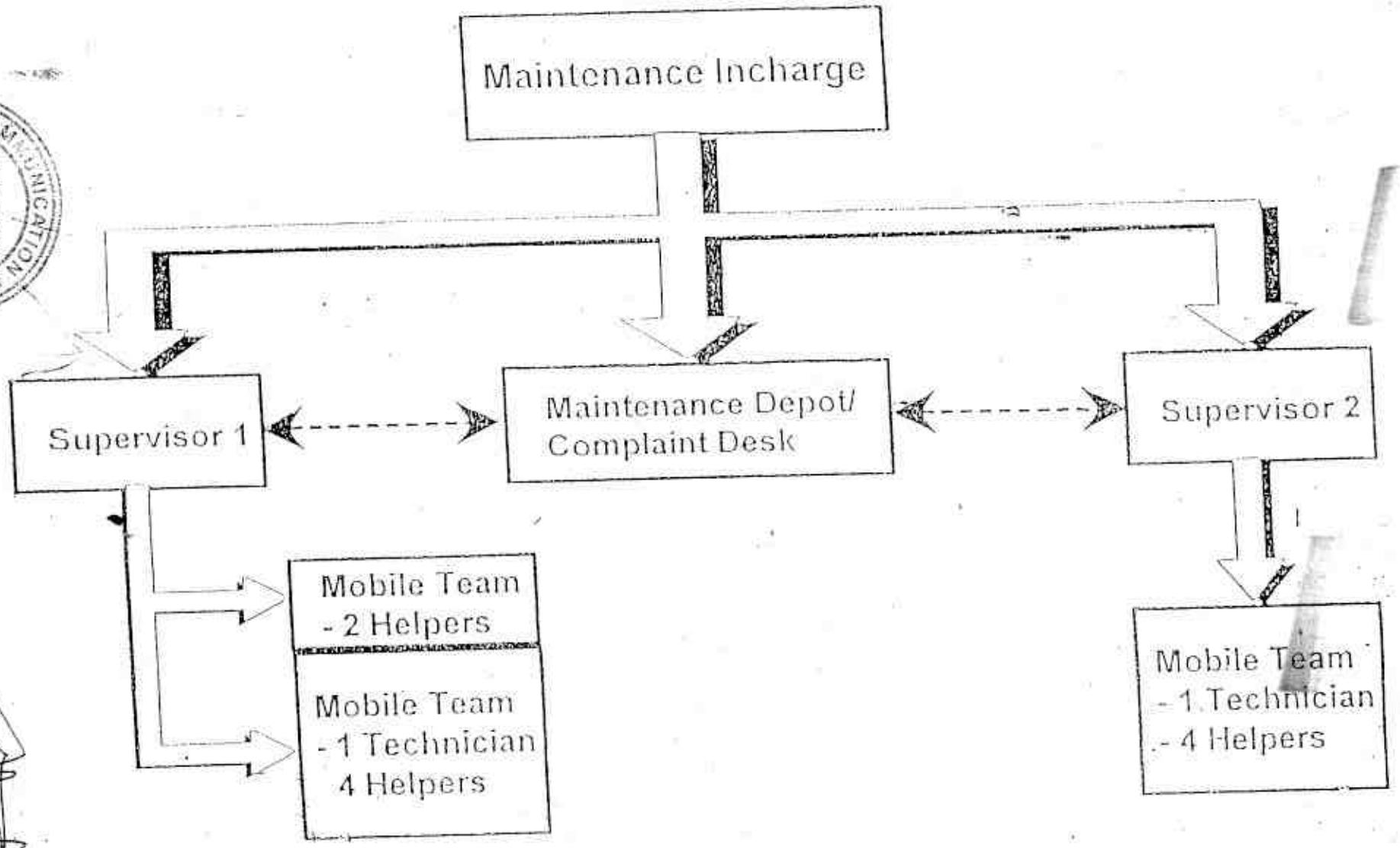
APPENDIX "B"

MAINTENANCE ORGANIZATION CHART

UTC MAINTENANCE ORGANIZATION



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Unit 4, 2nd Floor, Kailash Square SB-12, Ashish Park Comm. Scheme, No. 11, University Rd, Ranchi

APPENDIX "C"

FORM FOR THE CHANGES REQUIRED BY THE ENGINEER

SILICO COMMUNICATION & SECURITY
Shop 4, 2nd Floor,
Namdar Square SB-12
Block 14, Gulshan Scheme
No. 11,
University Rd. Karachi

SPECIAL CHANGES REQUIRED BY THE ENGINEER

Date:.....Issue. No.

S. No	Intersection No. and Name	Detail of changes required	Response from the System Engineer

SALICON COMMUNICATION & SECURITY
Suit 4, 2nd Floor,
Nandar Square SB-12
Askari Park Comm. Scheme
No. 11,
University Rd. Karachi

APPENDIX "D"

DAILY FAULT LOG

SILICON COMMUNICATION & SECURITY
Suit 4, 2nd Floor,
Nandar Square SB-12
Ashraf Park Comm. Area
No. 11,
University Rd. Karachi

DAILY FAULT LOG

S.NO.	COMPLAINT NO:	INTERSECTION NO.	REPORTING TIME	SOURCE OF COMPLAINTS	NATURE OF FAULT	FAULT ATTENDED ON	FAULT CLEARED ON	REMARKS
1								
2								
3								
4								
5								
6								
7								
8								
9								
10								
11								
12								
13								
14								

Notes:-

Fault Nature: L=Lamp Failure, T=Timing Changes, C=Controller, D=Damages, A=Any Other

Complaint No. to be a four digit serial number (e.g. C0001, C0002 continued on the next date / page

SILICON COMMUNICATION SECURITY
Namdar Square SB-12, 5th Floor,
Ashan Park Comm. Scheme
No. 11,
University Rd. Karachi

APPENDIX "E"

DAMAGE REPORT

SILICON COMMUNICATION & SECURITY
Shop 4, 2nd Floor,
Nandar Square SB-12
Askari Park Gram Sec.
No. 11,
University Rd, Karachi

MAINTENANCE OF TRAFFIC LIGHT SIGNAL CDGK

Equipment Damage Report No _____

Intersection _____

Name _____

Inspection Carried Out On: _____

Damage Occurred On: _____

Equipment And Material Found Damage

Equipment And Material To Replace Or Repaired

S.NO	BOQ NO	DISCRIPTION	QTY	BOQ RATE	TOTAL	REMARKS Needs replacement/missing	REPLACE /REPAIR	QTY	COST INCURED
1									
2									
3									
4									
5									
6									
7									
8									
9									
10									
11									
12									
13		Subject to availability							

INSPECTED	
REPLACED	
REPAIRED	**Contractor/Engineer**
INSPECTED	
REPLACED	
REPAIRED	**T C D Representative**

Equipment be Replaced /Repaired
THE ENGINEER

COMPONENTS OF ASPECTS IN GOOD CONDITION AFTER DEMAGE		QTY
HOOD	200MM/ 300MM	
LENS	200MM/ 300MM	
GASKIT	200MM/ 300MM	
REFELECTOR	200MM/ 300MM	
1-WAY REAR HEAD BODY	200MM/ 300MM	

SILICON COMMUNICATION SECURITY

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APPENDIX "F"

FAULT ATTENDANCE FLOW CHART

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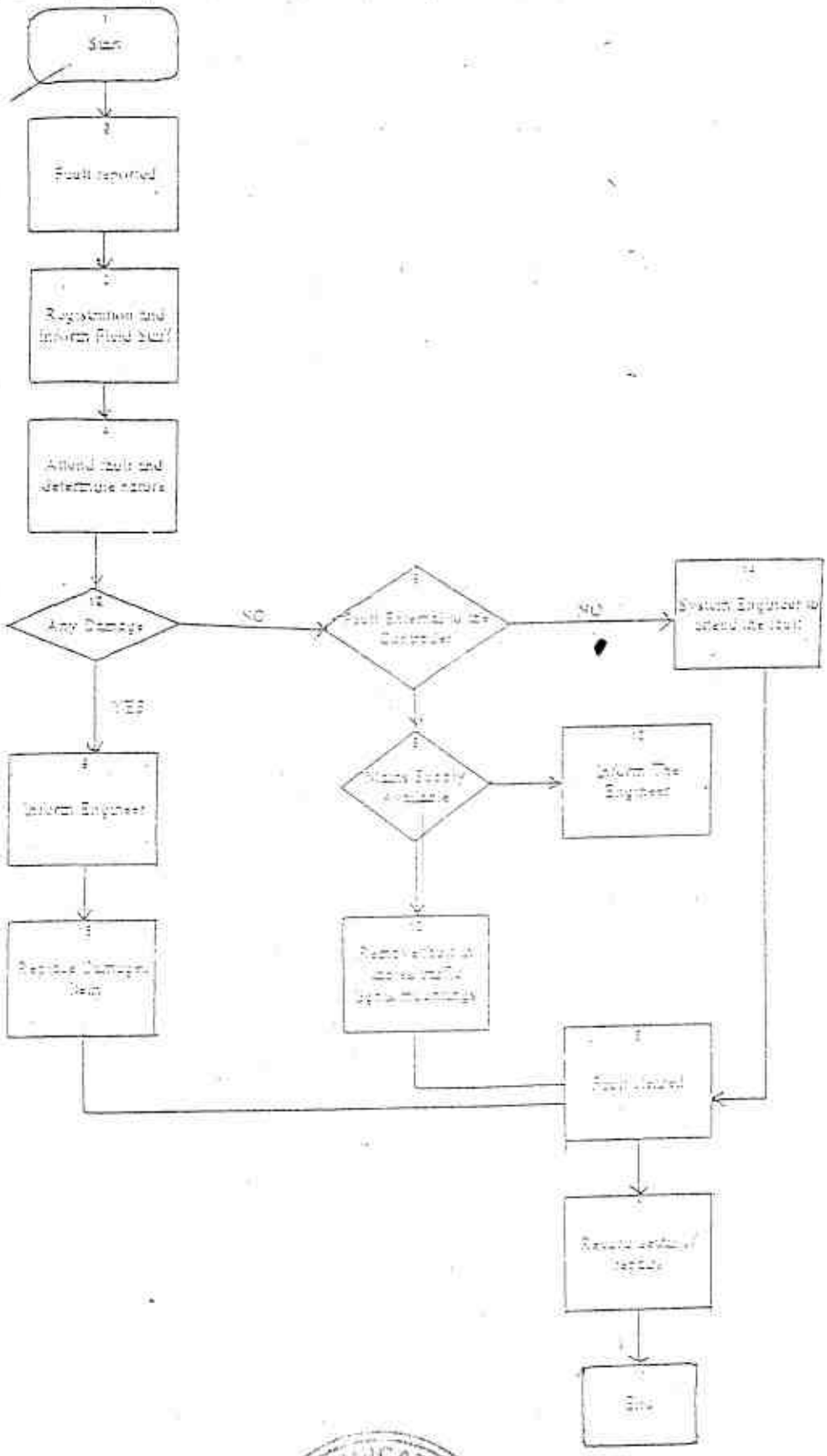
Aakan Park Comm. Scheme
No. 11,
University Rd. Karachi



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(CEO)
Deptt.
Corporation

APPENDIX "G"

YEARLY MAINTENANCE RECORD

SILICON COMMUNICATION & SECURITY
Nandar Square SB-12
No. 11,
University Rd. Karachi

AT INTERSECTION .....

WEEKLY CLEANING OF SIGNAL HEADS

1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30

31	32	33	34	35	36	37	38	39	40	41	42	43	44	45	46	47	48

	Repainting Of Signal Poles	Visual Inspection of Controller	Cable Termination Checking
First			
Second			

MONTHLY CLEANING OF SIGNAL HEADS

Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun

CLF CLOCK SETTING

Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun

SILICON COMMUNICATION & SECURITY
Suite 3rd Floor, Islamabad Plaza SB-12, Main Fazl Ghani Scheme No. 11, University Rd, Karachi

COMPLAINT RECORD

Comp No																								
Date																								

DAMAGES

Damage Rp #: Date:	Damage Rp #: Date:	Damage Rp #: Date:
Damage Rp #: Date:	Damage Rp #: Date:	Damage Rp #: Date:
Damage Rp #: Date:	Damage Rp #: Date:	Damage Rp #: Date:
Damage Rp #: Date:	Damage Rp #: Date:	Damage Rp #: Date:

CHANGES REQUIRED BY THE ENGINEER

Sr No. Date:	Sr No. Date:	Sr No. Date:
Sr No. Date:	Sr No. Date:	Sr No. Date:
Sr No. Date:	Sr No. Date:	Sr No. Date:
Sr No. Date:	Sr No. Date:	Sr No. Date:

CERTIFICATE

This is to certify that all information attached with this Technical Offer is true.

I/We have signed & stamped all papers of the documents as well as all supporting documents enclosed.

I/ We have attached Earnest Money in shape of Pay Order No. 5205503 (Pay Order / Bank Guarantee) (P.O. / B.G. No.) dated 21 JUN 2013 issued from BANK AL HABIB GULSHAN CHOWK BR

(P.O. /B.G. Date) (Name of Bank)

Department Verification
Seal & Signature

Signature of Bidder with Stamp

SILICON COMMUNICATION & SECURITY
Suit 4, 2nd Floor, Namdar Square SB-12, Askari Park Gulshan Scheme
No. 11, University Rd. Karachi

SILICON COMMUNICATION & SECURITY
Suit 4, 2nd Floor, Namdar Square SB-12, Askari Park Gulshan Scheme
No. 11, University Rd. Karachi

Annexure 'A'

BIDDER'S COMMITMENT LETTER

The Chief Engineer (TC&O),
Transport & Communication Department,
City District Government Karachi,
8th Floor, Civic Centre, Gulshan-e-Iqbal,
KARACHI.

Subject:- IMPROVEMENT/INSTALLATION AND UP-GRADATION OF EXISTING SIGNALS.

With respect to the RFP for the provision of the services as contained in Section 4, please be advised as follows:

(i) we have examined to RFP Package and confirm that we have received all pages of the RFP Package;

(ii) by the submission of our proposal, we submit a binding offer to carry out all services and obligations described in the RFP Package in accordance with the terms and conditions of the RFP Package.

(iii) by the submission of our proposal, we submit a binding offer to provide the staff identified in our proposal or, with TCD, KMC's prior written consent, equivalent or superior staff, to carry out the services set out in the RFP Package; and

(iv) We agree to hold our proposal open for acceptance until the expiration of the Proposal Validity Period set out in the RFP Package.

(Signed by person or persons authorized to bind the bidder in accordance with RFP)

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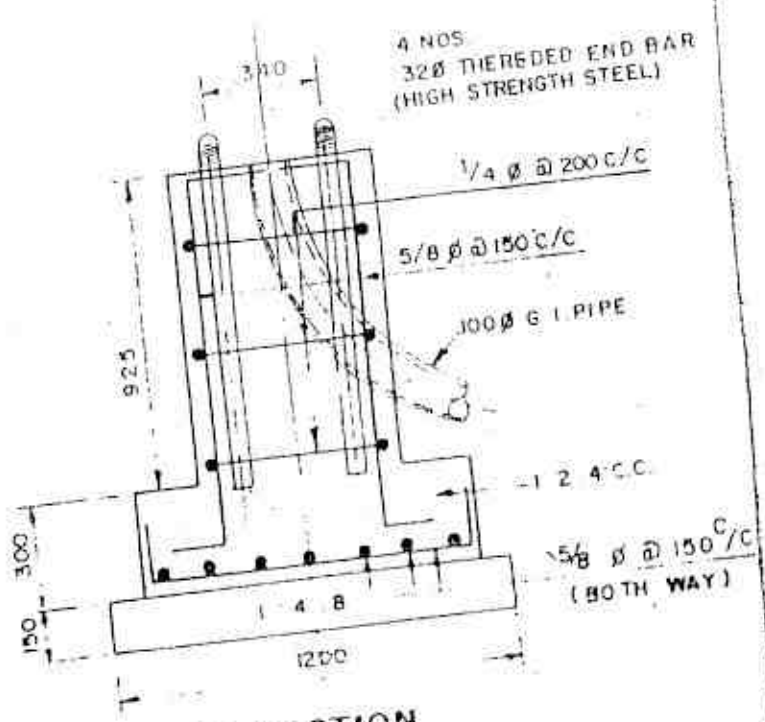
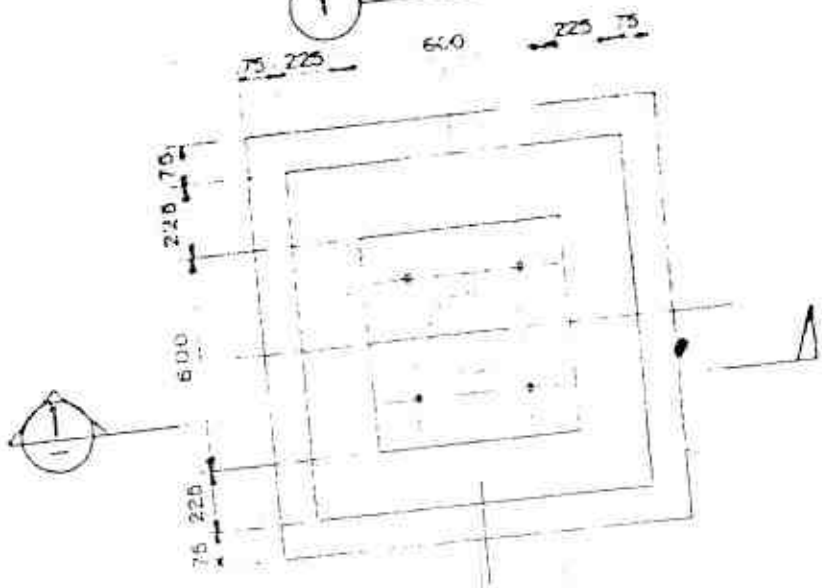
Askari Park Comm. Scheme
No. 11,
University Rd. Karachi



1 SECTION

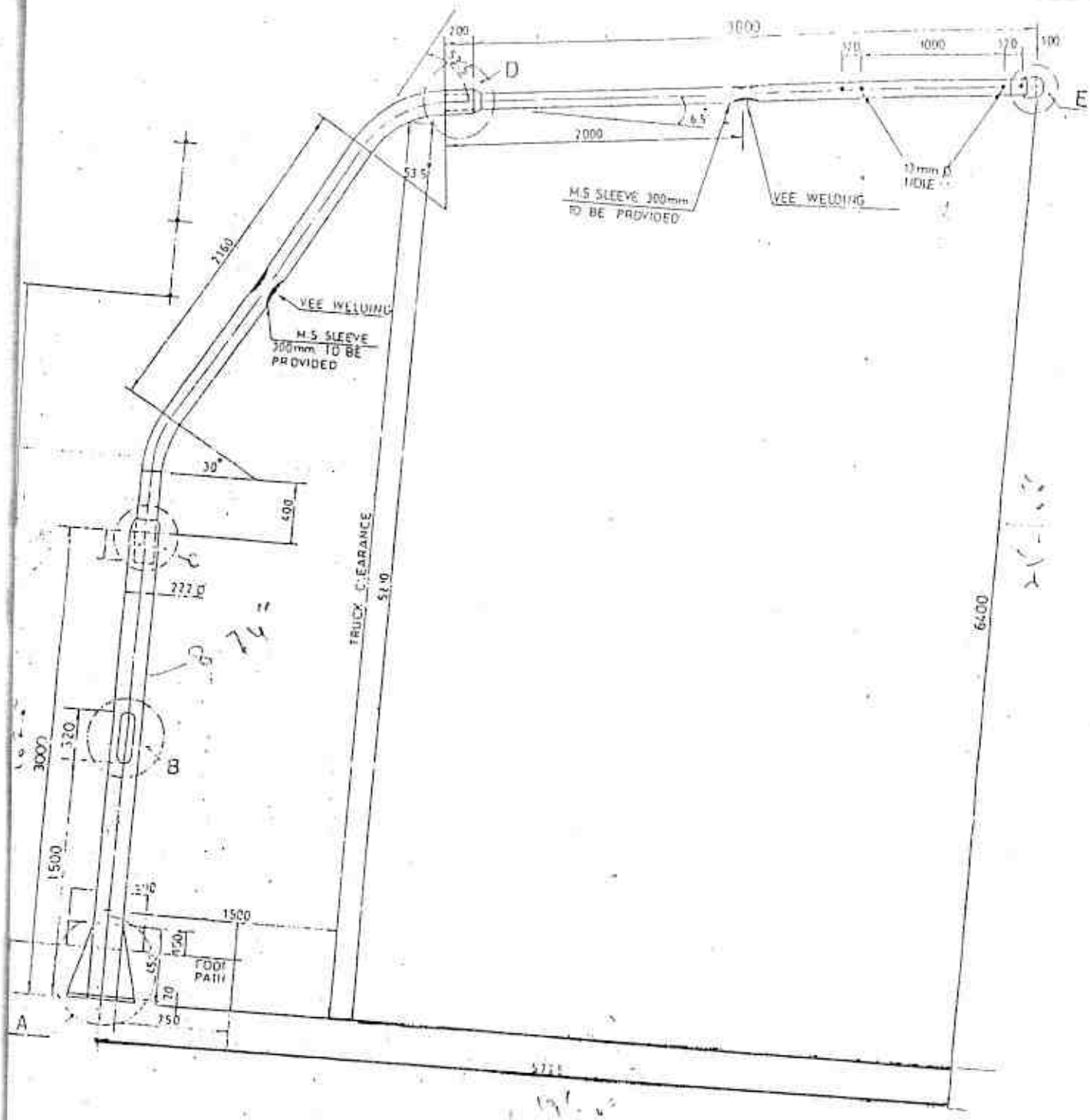


PLAN

SILICON COMMUNICATION & SECURITY
Suit 4, 2nd Floor,
Nasiman Square SB-12
Aakad Park Comm. Scheme
No. 11,
University Rd. Karachi

DETAILS OF FOUNDATION

(FOR MAST ARM POLE)



DETAILS OF MAST ARM POLE

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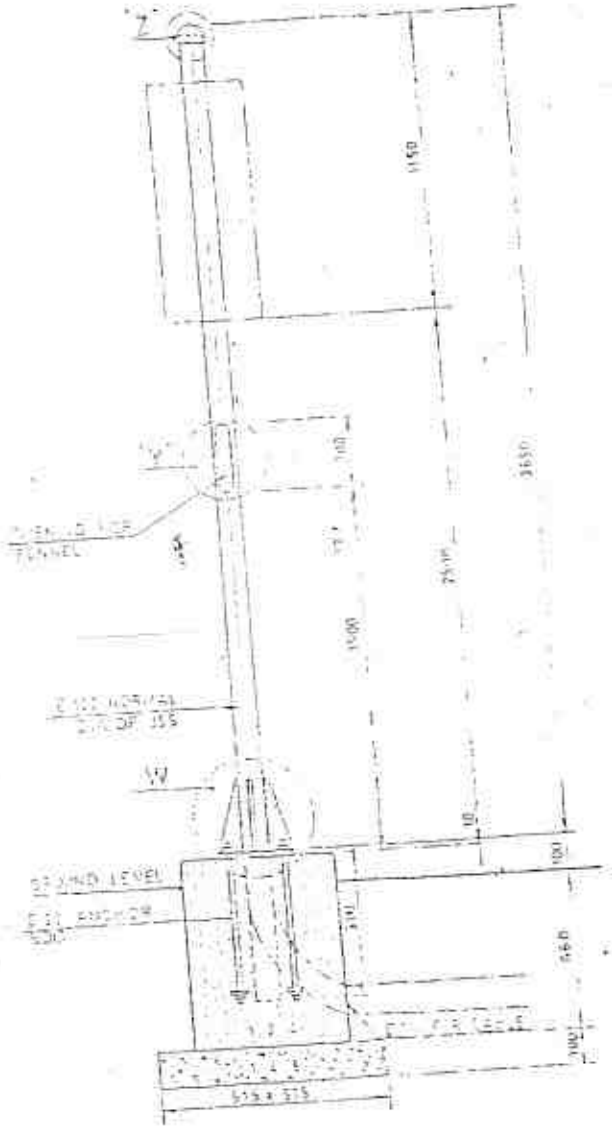
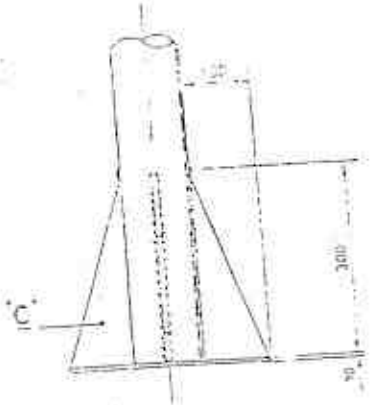
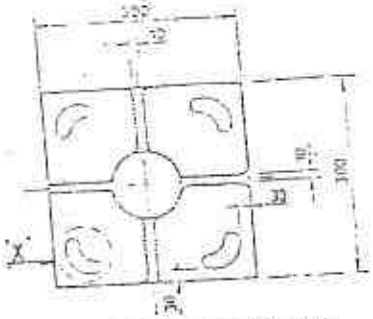


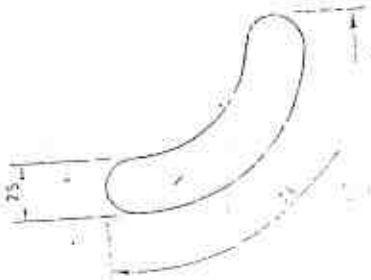
SIGNAL POLE



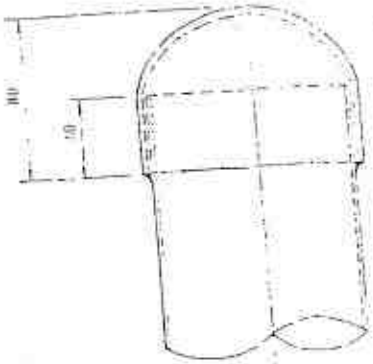
DETAIL-W



DETAIL OF BASE PLATE
(FOR SIGNAL POLE)



DETAIL-'X'
SLOT FOR BOLT



DETAIL-'Z'
DETAIL OF CAP

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Ground, 1st, 2nd Floor,
Iqbal Square FB 13
Allama Iqbal Town Scheme
No. 11,
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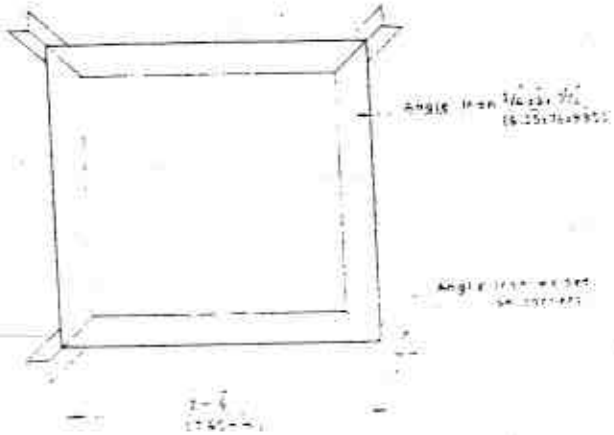
SECTION A.A.



DETAIL OF ANGLE IRON FRAME

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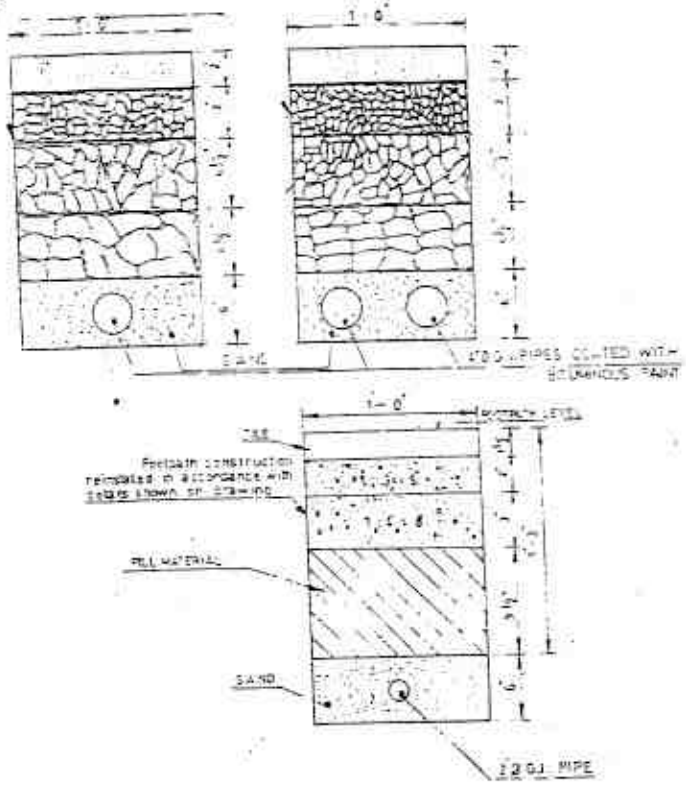
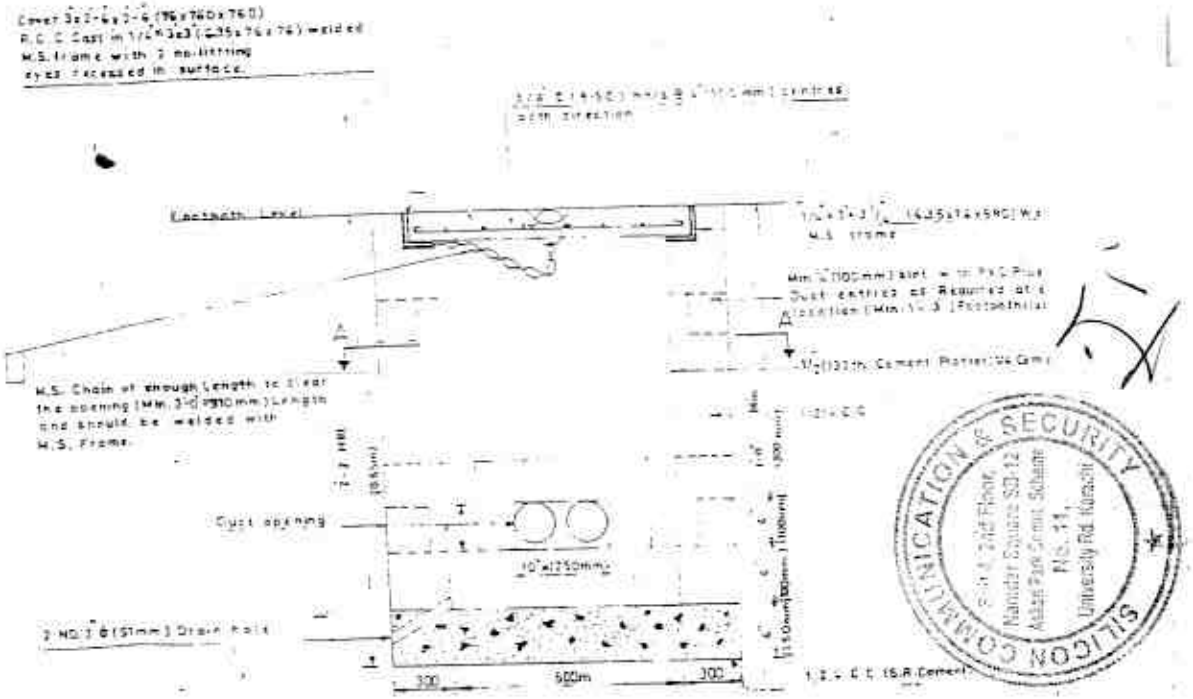
Unit 4, 2nd Floor, Nandi Square SB-12 Nandi Park Scheme No. 11, University Rd, Karachi

(38)



CABLE DUCT DETAIL



CABLE DUCT DRAW CHAMBER

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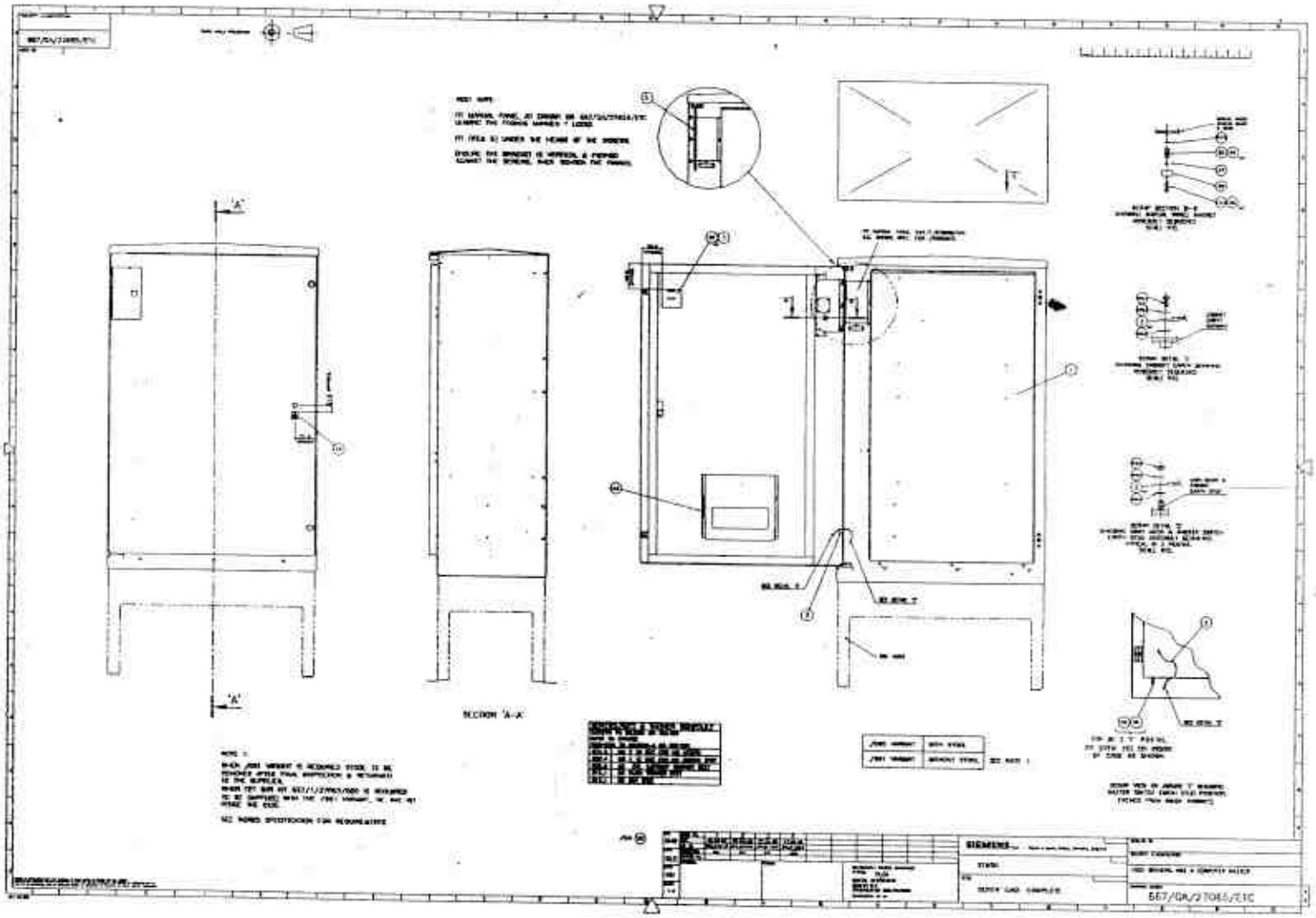
Suite 2nd Floor, Nandar Square SD-12, Abbas Pak Cement Scheme No. 11, University Rd. Karachi

Karachi Metropolitan Corporation

(39)



SILICON COMMUNICATION & SECURITY
Plot 1, 2nd Floor, Nandan Estate 58-41, Ashok Rajpath Scheme, No. 11, Patna, Bihar

(40)

First in Traffic Solutions. swarco

STANDARD

THE UNIVERSAL TRAFFIC SIGNAL HEAD

DESCRIPTION **KEY BENEFITS** **TECHNICAL DETAILS**

SWARCO FUTURIT, the world leader in the development and production of traffic signal head technology, demonstrates that well developed design concepts are hard to improve. STANDARD - our first ever polycarbonate traffic signal head launched many years ago and progressively enhanced over time - remains the state of the art standard in many countries due to its robust design, reliability, and universal usability. Installations around the globe include a variety of applications in road, rail, waterways and other areas. STANDARD can be supplied with different types of light sources and electronics including incandescent, halogen or LED optics.

STANDARD: PROVEN QUALITY – BY REPUTATION

Manufactured using UV-stabilized polycarbonate, SWARCO FUTURIT's STANDARD signal is particularly resistant to mechanical stress, adverse weather conditions and solar radiation. Customers appreciate the flexible fixing options combined with the robust signal body design. STANDARD is easy to maintain and renowned for its classic ageless design.

available in Ø 210 mm and Ø 300 mm, 200 mm x 200 mm square, combination of signals of all dimensions possible

lowest power consumption and brilliant light output when combined with FUTURLED

proven technology

longevity and robustness

easy access for maintenance

modular lens filter system adapted to minimize phantom light (honey comb filter)

any type of lens with customized symbols can be delivered on request

vertical and horizontal mounting

Material	UV-stabilized polycarbonate
Diameters / square	210/300 mm aspects: 1, 2, 3 as standard; more aspects on request 200x200 mm

SILICO COMMUNICATION & SECURITY
Suit 4, 2nd Floor,
Namdar Square SB-12
Sector 24, Scheme 33
No. 11,
University Rd. Karachi

Dept.

41

Optics	depends on installed light source: spiderweb lens, spiderweb lens with lens pattern centre, wide angle lens, special shapes for various applications Phantom light reducing lens filter systems
Impact resistance	High (Class IR3 acc. to EN 60598-1)
Ingress protection	Water- and dust-proof (IP54) – EN 60529
Certified	in accordance with EN12368 CE certification obtained
Protection classification	Class II – double or reinforced insulation
Housing colours	pebble-grey (RAL 7032) fir-green (RAL 6009) black (RAL 9005) orange (RAL 2000) silver-grey (RAL 7002) other colours on request; combinations available
Mounting / backing board	Two point fixing/mounting by means of brackets in different lengths of 105 mm, 183 mm, 240 mm, for L-shaped brackets as well as for T-shaped brackets (brackets in customized lengths available) Two point fixing /mounting on cantilever bracket backing Boards can be easily fixed at the rear side of the housing
Electrical	FUTURLED modules: High voltage E27, B22; Low voltage Ba20S, PKX 22s

SILICON COMMUNICATION PVT. LTD.
Suit 4, 2nd Floor, Namdar Square SB-12, Ashan Park Comm. Scheme, University Rd. Karachi

Dept.
Karachi Metropolitan Corporation

LED TRAFFIC SIGNALS

LED Traffic Signal Light(Vehicle)

LED Traffic Signal Light(Pedestrian)

☐ Overview

1) Features.

- LED TRAFFIC SIGNALS USE 80~90 PERCENT LESS ELECTRICITY than traditional incandescent traffic signals.
- LED TRAFFIC SIGNALS LAST 5~10 TIMES LONGER. This longer life translates into substantial maintenance savings.
- LED TRAFFIC SIGNALS INCREASE VISIBILITY due to High Light Intensity Technology. (applying AlInGaP or InGaN LEDs.)

Description	Incandescent Signals	LED Signals
Power Consumption	100W	5~10W
Sun Phantom	Need color light filter cover, easily produce sun phantom	High, brightness, pure color light, apparent brightness contrast, no sun phantom
Operating Life	4,000 hours	70,000 ~ 100,000 hours
Cost of Maintenance	High	Low(95% cost reductive)
Environmental	Increase of CO2, the pollutant as well	Environment-friendly

2) Specifications

Description	EELED-12 :12"(300mm)				EELED-8 : 8"(210mm)				EELED-12:12"(300mm) Pedestrian	
	Red	Yellow	Green/Amber	Flash	Red	Yellow	Green/Amber	Flash	Red	Green
Size of Lens	12"(300mm)				8"(210mm)				12"(300mm)	
Luminance Intensity(cd)	600	600	8000/m²	600	300	300	3000/m²	300	1000/m²	1000/m²
Voltage range	120V(80~135V) / 220V(180~250V)									
Frequency range	50~60Hz									
Power Factor	>0.9									
Power consumption	8W	8W	8W	13W	6W	6W	6W	8W	4W	6W
Operating temperature	-10 ~ 65 C									
Dimming function	YES									

- **WE WELCOME CUSTOMERS DESIGN & SPECIFICATIONS.**

SILICON COMMUNICATION SECURITY
Shop 4 2nd Floor, Nimdar Square SB-12 Askari Park Comm. Scheme No. 11, University Rd. Karachi

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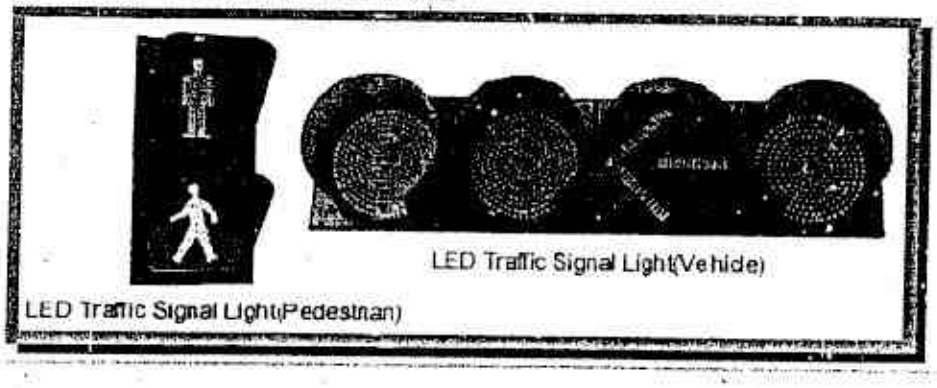
LED TRAFFIC SIGNALS



☐ Overview

1) Features.

- LED TRAFFIC SIGNALS USE 80~90 PERCENT LESS ELECTRICITY than traditional Incandescent traffic signals.
- LED TRAFFIC SIGNALS LAST 5~10 TIMES LONGER. This longer life translates into substantial maintenance savings.
- LED TRAFFIC SIGNALS INCREASE VISIBILITY due to High Light Intensity Technology. (applying AlInGaP or InGaN LEDs.)

Description	Incandescent Signals	LED Signals
Power Consumption	100W	5~10W
Sun Phantom	Need color light filter cover, easily produce sun phantom	High, brightness, pure color light, apparent brightness contrast, no sun phantom
Operating Life	4,000 hours	70,000 ~ 100,000 hours
Cost of Maintenance	High	Low(95% cost reductive)
Environmental	Increase of CO2, the pollutant as well	Environment-friendly

2) Specifications

Description	EELED-12 :12"(300mm)				EELED-8 : 8"(210mm)				EELED-12:12"(300mm) Pedestrian	
	Red	Yellow	[redacted]	[redacted]	Red	Yellow	[redacted]	[redacted]	Red	[redacted]
Size of Lens	12"(300mm)				8"(210mm)				12"(300mm)	
Luminance Intensity(cd)	600	600	8000/m²	600	300	300	3000/m²	300	1000/m²	1000/m²
Voltage range	120V(80~135V) / 220V(180~250V)									
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Dimming function	YES									

- **WE WELCOME CUSTOMERS DESIGN & SPECIFICATIONS.**

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SPECIFICATIONS

1.HOUSING: Fabricated from plastic die molded Conforming to international standard as applicable for 200 / 300 mm dia signals respectively, with Lens. Sealed unit

2. OPTICAL SYSTEM:
LED illuminated optical plate comprising of 5-mm dia ultra bright LED.s, spaced at a pitch of 15 mm in an organized matrix. Green /Amber / Red color (also available with pedestrian signs walk. don.t walk , arrow - ball type) .

Number of LED.s
210 MM BALL TYPE = 116 , ARROW TYPE = 60
300 MM BALL TYPE = 234 , ARROW TYPE = 100

LED : electrical characteristic (T = 25° C) angle 23°

Sno	Chip emitting colour	Wave length λp (nm)	IF = 20 mA		
			Vf (V)		Iv (mcd)
1.	Red	620~635	1.7	2.2	1650~6300
2.	Amber	584~600	2.1	2.4	1650~6300
3.	Green	520~555	3.5	4.0	1650~6400
4.	Bluish green	500~510	3.6	4.0	2170~8300

Green colour wavelength is different as per requirements, can be supplied on customer choice.

3.POWER REQUIREMENT: 24 / 48 VOLTS D.C. or 110 / 220 VOLTS A.C.

4. CIRCUIT DESCRIPTION:

LED's are soldered in Glass Epoxy PCB.The LED's are operated in a multi channel series/parallel matrix and are multiplexed pulse operated at high frequency, high intensity and low duty cycle to obtain maximum visible brightness at minimum POWER consumption. The electronic circuit is built in the unit itself. With tinted lens for protection in a sealed beam type plastic housing

The LED KIT convinces with its bright and homogenous light distribution.The LED's are evenly Arranged and grouped in parallel chains on the LED board.In front of each led plate there is lens that protects It from outside dust. The light passes through the tinted or plain lens (as per customer choice) front lens, which is precisely harmonized with the LED Wavelength. This system creates a very homogeneous lit aspect surface, and by using filter (optional) the individual LED's are no longer Perceived as dots o/p intensity is reduced by a fraction . Also comes with auto dimmer which further reduces the power consumption in night time (optional) .

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TRANSPORT & COMMUNICATION DEPARTMENT
KARACHI METROPOLITAN CORPORATION

8th FLOOR, CIVIC CENTRE, GULSHAN-E-IQBAL, MAIN UNIVERSITY ROAD, KARACHI
☎ : 923 0655

No: CE (TC&O)/132 Dated: 27/06/ 2013

Bid Evaluation Report

1. Name of Procuring Agency: KARACHI METROPOLITAN CORPORATION
2. Tender Reference No: C.E/TC&O/T&C/2013/52
3. Tender Description/Name of work: Installation / Improvement & Up-Gradation of Existing Traffic Signals in Karachi (Zone-I & Zone-II)
4. Method of Procurement: Single Stage - Two Envelope procedure
5. Tender Published: Print & electronic media as SPPRA S.NO 16546 & News Paper Express 30th June 2013 / Ummat 30 June2013/Dawn 31st June 2013
6. Total Bids Documents Sold: 01 No
7. Total Bids Received: 01 No
8. Technical Bids Opening date (If applicable): 21 June 2013
9. No. of Bid Technically qualified (If applicable): 01 No
10. Bid(s) Rejected: NIL
11. Financial Bid Opening Date
12. Bid Evaluation Report:

S.NO	Name of Firm or Bidder	Max Marks	Marks Obtained
0	1	2	3
1	Silicon Communication & Security	100	85

M/s.Silicon Communication & Security has been Evaluated Technically qualified for the subjected work.

SYED NAFEES AGHA
EXECUTIVE ENGINEER
LYARI DEVELOPMENT AUTHORITY
MEMBER

27/6/13
CHIEF ENGINEER (P&D)
ENGINEERING DEPARTMENT
KARACHI METROPOLITAN CORPORATION
MEMBER

27/06/2013
ENGR SYED MUHAMMAD TAHA
CHIEF ENGINEER (TC&O) TCD
KARACHI METROPOLITAN CORPORATION
CHAIRMAN

SPPRA INWARD DIARY
No: 12570 Dated: 29/6
EF I

Director (CB) SPPRA GOS
With a request to upload on the Website of SPPRA (Authority)

C.C To:-
1. All Members of Procurement Committee
2. The Senior Director (T&C) KMC