

PAKISTAN ENGINEERING COUNCIL

NOTICE FOR INVITATION OF BIDS

Pakistan Engineering Council (PEC) is a statutory regulatory body for regulation of Engineering Profession in the country. In order to save energy under prevailing conditions when Pakistan is facing energy crisis and to promote environment friendly and cheaper options, PEC intends to take a lead in promoting the alternate sources of energy. It has therefore, been decided to convert HQ PEC building in Islamabad and Branch/Liaison offices in to energy efficient green buildings by using available sunlight and solar energy.

Sealed bids are invited from reputed firms operating in the business of providing cost effective solar solutions and equipment on turnkey basis for PEC buildings located in Islamabad, Multan, Quetta and Karachi.

- Bids should cover all aspects of design, installation and operation including modifications if necessary.
- Architectural and related plans of above buildings can be obtained from HQ PEC at address below, for a cost of Rs. 1000/-.
- Bidding will be conducted through international competitive bidding.
- Bids covering partial works shall be rejected.
- Electronic bidding will not be permitted.
- Late bids will be rejected.
- Bids shall remain valid for a period of 120 days.
- Bids should be accompanied by a bid security in the form of insurance/bank guarantee equal to an amount of 2% of total price in Pakistan Rupees or an equivalent amount in freely convertible currency. Bids should be valid for a period of 150 days i.e 30 days after bid opening day.
- PEC reserves the right to accept or reject any tender without assigning any reason whatsoever.
- Interested eligible bidders may obtain further information from **Manager A&P HQ PEC** whose address is given below.
- All bids must be delivered at the address given below by **1100 hours** on or before **25 January 2009**. Bids will be opened at the address given below at **1230 hours** on the same day in the presence of bidders or their representatives who chose to be present at the same address.





BIDDING DOCUMENTS
(Revised)

PRIME MINISTER'S
INITIATIVE FOR SOLAR
POWER

INVITATION TO BIDS

1. Under the project of 'PRIME MINISTER'S INITIATIVE FOR SOLAR POWER'(PMISP), bids are invited from international, national firms to provide Solar Energy through installation of Solar Power Systems at various areas of Pakistan. Service providers will be responsible for the supply, installation/commissioning, operation and maintenance during warranty period of solar power systems.
2. Bidding documents containing details of items along with terms & conditions may be obtained from Pakistan Engineering Council (PEC) Headquarters, Islamabad on any working day at a price of Rs.1,000/-(Rupees one thousand only). Partial bidding has been allowed.
3. 2% of the bid price (refunable) will be submitted as Bid Security along with the offer. The Bid Security shall be, at the option of the bidder, in the form of Deposit at Call or a Bank Guarantee issued by a Scheduled Bank in Pakistan or from a foreign bank duly counter guaranteed by a Scheduled Bank in Pakistan or an insurance company having atleast AA rating from PACRA/JCR in favour of the PEC. The bids should reach the office of Manager (Administration & Personnel) PEC HQs, Islamabad by 1100 hours on or before **06 April, 2009**.
4. Bid shall comprise of a single package clearly indicating "Bid for PMISP" containing two separate sealed envelopes; one for technical proposal another for financial proposal. Envelopes should be marked as "**Technical Proposal**" and "**Financial Proposal**" in bold and legible letters.
5. PEC reserves the right to reject any or all bids, without assigning any reason. Decision of the Bids Evaluation and Procurement Committee will be binding and final in all matters.
6. Technical Proposals will be opened on **06th April, 2009** at 1200 pm at PEC HQs, Islamabad and short-listed companies/firms will be informed accordingly for opening of financial proposal. The financial proposals will be opened on **16th April, 2009** at 12:30 pm at PEC HQs, Islamabad in the presence of the short listed bidders or their representatives.
7. The Bid should be valid for a period of 120 days from the date of the opening of the bid.
8. For further information and clarification, please contact the person at the address given below.

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Assistant Registrar (Co-ordination)
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INSTRUCTIONS TO BIDDERS

Introduction

1.General

This project envisages establishment of model units to be operated on solar systems at various areas of Pakistan under the 'PRIME MINISTER'S INITIATIVE FOR SOLAR POWER'. This is a pilot project which will provide an opportunity to different stakeholders and users to observe the functioning of solar based energy system and popularize use of solar energy. The project will also provide the opportunity to the community and general public to invest in solar systems replacing generator and UPS. These model units with different capacity (5KW, 10KW, 15KW and 20KW) will be installed at different areas of the country. After completion the project will be also able to generate/ contribute 1.050 MW of electricity thus reducing the burden on WAPDA/KESC.

2. Targeted area

The project will be executed simultaneously in various selected locations of Pakistan. The list of locations is given in Annexure- I attached with this tender document. Approximate number of locations to be equipped with Solar Power System (SPS) is fifty five.

3. Institutional set-up

The project will be implemented under the supervision of Pakistan Engineering Council (PEC). The project will be financed by the Federal Government of Pakistan through Ministry of Science & Technology. The Supplier/Service providers will be in charge of providing energy services to the users during the entire duration of the contract period. At the end of the contract period, the Solar Power Systems will be handed over to the custodians in consultation with PEC

General Terms and Conditions

1. Responsibilities of the Supplier/Service provider

The supplier/service provider shall be responsible for supply, installation, operation and maintenance of Solar Power Systems (SPS) during the contract/warranty period. The selected supplier/service provider shall provide a detailed project management plan including a detailed time schedule covering supply of solar power systems, installation, training and its commissioning.

1.1. User information and training of local technicians

The supplier/service provider shall be responsible for informing users of SPS on the functioning of solar Power systems. The supplier /service provider shall be responsible for providing on-the-job training during installation to the persons as designated by the custodians/PEC.

1.2. Supply of equipment and installation of SPS

The supplier/service provider shall be responsible of the supply of equipment as per detail given in Annexure-II. Technical specifications for Solar Power Systems, may be reviewed/modified by technical committee, are given in Annexure-III. The installation shall be completed not later than two months from date of award of contract.

1.3. Operation and Maintenance of systems

The supplier/service provider shall ensure that all installed systems function according to international standards during at least one calendar year after installation of the last system and that all failures are fixed within a maximum period of one week from the date of un-serviceability. In particular, the service provider shall organize the operation and maintenance mechanism including:

- supervise local group of people (ensure monthly visits to users, ensure record keepings, ensure that maintenance books are properly filled in etc);
- ensure that all systems are checked at least once by a qualified technician around six months after installation;
- provide coaching at least twice after the end of installation phase; and
- organize the supply, storage of spare components (at least 2% of all items at any given time) and their installation as required.

The supplier/service provider shall ensure the transfer of responsibility to the custodians in consultation with PEC.

After the end of the contract period and before the end of the performance guarantee of components, the service provider shall be responsible for the storage and supply of spare components (at least 2% of all items at any given time) to the custodian in consultation with PEC.

1.4. Monitoring and Evaluation

The supplier/service provider shall provide required information for monitoring and evaluation purposes for all the contract period. At the end of the warranty period of systems, the supplier/service provider shall provide a consolidated report including:-

- Technical appraisal of system performance
- Report of activities undertaken
- Financial analysis
- Recommendations for further operation and maintenance

Special Terms and Conditions

1. Reliable products of international reputation conforming to technical specifications approved by technical committee.
2. Reliable execution conforming to technical specifications would only be acceptable.
3. Technical and financial offers must be submitted separately in sealed envelopes. Only financial offers of technically short-listed proposals will be opened and considered.
4. The costs related to preparation of tender proposals and all related documents will be solely borne by bidders.
5. Five copies (1 original clearly indicated (ORIGINAL) and 4 additional copies clearly indicated (COPY)) of each bid have to be submitted. For each bid, copies will be enclosed in one envelope. The original will be used as reference in case of discrepancy.
6. All documentation is to be provided in English language.
7. 2% of the bid price will be submitted as Bid Security along with the offer. The Bid Security shall be, at the option of the bidder, in the form of Deposit at Call or a Bank Guarantee issued by a Scheduled Bank in Pakistan or from a foreign bank duly counter guaranteed by a Scheduled Bank in Pakistan or an insurance company having atleast AA rating from PACRA/JCR in favour of the PEC.
8. Documents indicating conformance of firm to all other legal requirements for government procurement like tax must be attached with the technical proposal.
9. Details of manufacturing facilities along-with declaration of conformity from the manufacturer regarding the compliance with international standards shall be provided in the technical proposal; the same applies to sub-contractors.
10. Details of qualification and experience of existing staff (technical and administrative) and similar projects/jobs undertaken previously must be listed in the technical offer.
11. Payment to supplier/service provider would be made in Pak Rupees as per government procurement procedures.
12. Payment of supplier/service providers shall be made as per schedule given below.
 - a. 20% of payment of units of solar power system for one location shall be made on confirmed order placed by the supplier/service provider subject to fulfillment of other terms and conditions given in the present bidding document and contract agreement.
 - b. 60% of payment shall be made on delivery of the solar power systems/equipments at country wide selected locations subject to fulfillment of other terms and conditions given in the bidding documents and contract agreement. An inspection of solar power systems/equipments will be conducted/ organized by PEC before the release of the payment.
 - c. 15% of payment shall be made after complete installation and successful operation of the each unit subject to fulfillment of all contractual obligations.
 - d. The remaining 5% shall be made after completion of warranty period.
 - e. In case of only imports 90% will be paid through L/C after equipment is delivered at

site and balance 10% after successful installation.

13. Special terms for bid documents:

- a. Correct and verifiable performance and technical parameters must be specified for each item.
 - b. Certificates according to performance and testing standards shall be submitted for each item.
14. Price of each unit and work / job would be mentioned separately and quoted in Pakistani Rupees.
15. If during the execution of the contract, the supplier/service provider wishes to change a unit, the service provider shall request in writing to PEC for the permission to do so. The request shall include the performance and technical parameters of the new item and a certificate from reputed laboratories certifying the item meets the technical specifications will be submitted along with a report on system performance issued by the laboratories. Approval will be at the discretion of PEC. Any additional cost shall be solely borne by the service provider.
16. Performance guarantees of each unit needs to be ensured.
17. Supplied units and installation job would be guaranteed for at least three years against faulty manufacture / material / workmanship.
18. Inspection and acceptance would be carried by the team nominated by PEC.
19. Testing of supplied equipment and installed systems would be carried out by a team nominated by PEC. Testing facilities to check power output of PV Modules, calibrated modules with setup for measuring sun intensity, voltmeter, ammeter, DC power supplies, multi meters, loading facility for charge controller etc would be provided by the service provider.
20. During execution, if at any time, a service provider cannot fulfil its obligation as initially planned, the service provider shall immediately (within a week time) notify in writing to PEC the problem, its expected duration and its possible causes. In any case, the execution delay shall not exceed one month.
21. At the end of the planned installation period, if installation has been delayed, a penalty of 2% per month of the uncompleted locations of the contract will be retained from the remaining payment.
22. In case of delay in execution, if PEC authorizes the service provider to complete the contract in a longer timeframe than initially planned, all additional expenses related to delay in execution will be solely borne by the service provider.
23. The contract can be terminated totally or partially at any time under the condition of mutual consent of PEC and the service provider.
24. The contract can be terminated totally or partially at any time by PEC in any of in any of the following cases:

- a. The service provider does not provide the services he has been contracted for;
 - b. The service provider does not fulfill the conditions of the contract;
 - c. The service provider of has been involved in corruption or fraud in matters related to the execution of the contract.
25. If the contract is partially broken, the service provider shall fulfill his contractual obligations for the part that is not withdrawn.
26. In case of controversy between PEC and a service provider, if no mutual agreement is reached within 30 days, a third party mutually agreed upon can be chosen as arbitrator. Otherwise, the controversy should be solved in court.
27. In case of acceptance of the bid, the service provider shall provide an affidavit along with the agreement in accordance with the “Integrity Pact” mentioned under Rule 7 of Public Procurement Rules 2004. The content of the Integrity Pact certificate are mentioned in Annexure-IV.
28. Interested parties may contact PEC for any clarification before submission of bids.
29. All components used in the proposed Solar Power Systems are exempted from custom duties in accordance with clause 13 of SRO (575)(1)2005 of CBR. The service provider shall request and obtain a certificate in this respect issued by the concerned authorities, at the time of claiming exemption by the importer.
30. The service provider shall ensure that each Solar Power System should be capable to produce grid quality power at grid defined voltages/frequency to the load installed at the selected locations as mentioned in Annex-I.
31. The cost for the monitoring system should be quoted separately as breakup.

PRIME MINISTER'S INITIATIVE FOR SOLAR POWER

List of Locations

Sr. No.	Places	Output in KWatts	No of Units
1	Shaheed Mohtarmas Mazar Garhi Khuda Bux	5	3
2	Nurpur Shah (Bari imam),Islamabad	10	3
3	Abdullah Shah Ghazi Mazar karachi	5	4
4	Militry Road Sukkhur	5	3
5	Quaid-e-Azam's Mazar Karachi	20	2
6	Hussain Agahi Market Multan	5	3
7	Gillani Colony Multan	5	3
8	19 Bridge Vehari Road Multan	5	3
9	Darbar Hazrat Moosa Pak Bohar Gate Multan	5	3
10	Tariq Road From Liberty Chowk to Shaheed e Millat Road, Commerecial Area karachi	5	6
11	Shahra-e-Faisal Nursery Commercial Area karachi	20	2
12	Shahra-e-Faisal Nursery Commercial Area karachi	5	4
13	Gulshan-elqbal Baitul Mukkarram Mosque Commercial Area Karachi	5	4
14	Maulana Din Mohammad Wafai Road Karachi Press Club karachi	15	4
15	Institute of Engineers Building Shahra e Faisal Karaschi	20	4
16	Institute of International Affairs Building, Maulana Din Mohammad Wafai Road Karachi	10	2
17	Mumtaz Manzil to Stadium, Gulshan-e-Iqbal Karachi	20	5
18	Maymar Arcade , Gulshan-e- Iqbal Block 16 Karachi	20	4
19	Hasan Center University Road Karachi	5	4
20	Parliament House Islamabad	5	4
21	Constitution Avenue Islamabad	5	2
22	Commercial Area Bilawal House Clifton Karachi	5	2
23	Naudero House, Naudero	5	4
24	Bilawal House Karachi	5	4
25	PPP Secretariat, Karachi	5	3
26	Emergency Room, Civil Hospital Karachi	5	4
27	Fatmeed Blood Centre Karachi	5	2

Sr. No.	Places	Output in KWatts	No of Units
28	B.Y.J Secondary School Hyderabad Colony Karachi	5	2
29	Pir Illahi Bux Colony Main Road Karachi	5	4
30	Mewa Shah Grave Yard Karachi	5	1
31	Allama Iqbal Open University Islamabad	5	2
32	Islamic University Islamabad	5	2
33	Dawood College of Engineering and Technology, Karachi Campus	5	2
34	Institute of Industrial Electronics Engineering (PCSIR), Karachi	5	2
35	Mehran University of Engineering and Technology, Jamshoro	5	2
36	NED University of Engineering and Technology, Karachi	5	2
37	Pakistan Navy Engineering College, Karachi Campus	5	2
38	Pakistan Air Force-Karachi Institute of Economics & Technology (PAF-KIET), Karachi	5	2
39	Quaid-e-Awam University of Engineering, Science & Technology, Nawabshah	5	2
40	Sir Syed University of Engineering & Technology, Karachi	5	2
41	Sindh Agriculture University, Tandojam	5	1
42	Usman Institute of Technology, Karachi	5	2
43	University of Sindh, Jamshoro	5	2
44	Shaheed Zulfiqar Ali Bhutto Institute of Science and Tech, Karachi	5	2
45	Hamdard University Karachi	5	2
46	Jinnah University of Women Karachi	5	2
47	Women Polytechnic, Karachi	5	2
48	Women Polytechnic, North Karachi	5	2
49	Edhi Center North Karachi	5	2
50	Yousuf Plaza, Federal B'Area Karachi	5	2
51	University Road from Hasan Square to Bait ul Mukarram, Gulshan-e-Iqbal, Karachi	5	2
52	CPLC, Governor's House Karachi	5	2
53	St Patrick's Church near CIA Center (St. Josephs College)	5	2
54	Swami Narain Mandir, Bander Road, Karachi	5	2
55	Shiv Mandir, Clifton, Karachi	5	1

Energy Conservation in Pakistan PEC Purview:

- The Pakistan Engineering Council is a statutory body
- Constituted under the PEC Act to regulate the engineering profession
- Main statutory functions include registration of engineers, consulting engineers, constructors/operators
- Accreditation of engineering programmes run by universities/institutions, ensuring and managing of continuing professional development
- Assisting the Federal Government as think tank, establishing standards for engineering products and services besides safeguarding the interest of its members.
- Over one Hundred engineers, 40,000 Contractors and Consultants are enrolled on PEC register.