

**PREQUALIFICATION DOCUMENT
(PQD)**

FOR

**PREQUALIFICATION OF CONTRACTORS FOR
THE PROJECT “INTEGRATED ENERGY AND
AGRICULTURE CONCEPT”**



OCTOBER 2017

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INDEX

PART	DESCRIPTION	PAGE No.
SECTION-A	EXPRESSION OF INTEREST FOR PREQUALIFICATION OF CONTRACTORS	3-4
SECTION- B	APPLICATION FORMAT	5-9
SECTION- C	EVALUATION CRITERIA	10-11
APPENDIX-A	FORMS (1-12)	12-25
APPENDIX-B	EXPLANATION FOR MARKS DISTRIBUTION	26-28

No. _____/VILLAGES/2017

Date: _____/_____/2017

EXPRESSION OF INTEREST (EOI) FOR PREQUALIFICATION OF CONTRACTORS

Notice for Pre-Qualification of Contractor/ Firms on Engineering, Procurement and Construction (EPC) Basis.

The University of Agriculture Faisalabad (UAF) invites EOI's from National/International Engineering, Procurement and Construction (EPC) Firms, having experience in the relevant field installation and integration of Bio Gas and Solar Power System for prequalification in project titled **Integrated Energy and Agriculture Concept at Punjab Bio Energy Institute, University of Agriculture Faisalabad**. The contracting services include, but not limited to the following:

- **Design, Procurement, Supply and Installation of Biogas, Solar Power & Other Components.**
- **Integration of Generated Power and Connection with Load/Grid.**
- **Testing, Commissioning, Training and Operation & Maintenance of the System.**

The contractors/ companies may associate with other firms in the form of a joint venture/consortium to enhance their qualifications/financial soundness and experience. The selection will be made in accordance with the procedure/method set out in the PPRA Rules 2014 (As amended 2016) and prequalification documents (PQD). The prospective contractors / firms shall submit their EOI's along with the documents in English detailed below (one in original and two copies).

1. Name of firm/contractor with year of establishment, partnership deed full address and telephone numbers of persons duly authorized by the firm/contractor with whom future correspondence can be made.
2. Particulars of construction equipment available with the firm/contractor with verified ownership documents and indicate yearly increase.
3. Full Bio-data/list of technical staff available with the firm/contractors showing the proof of their engagement with the firm, with fresh attestation.
4. To substantiate the financial soundness of the firm, a certificate from chartered Firm and copy of up-to date balance sheet may be furnished.
 - (i) Detail of similar nature works (equal or greater amount) executed indicating project cost, scope of work with verification from concerned Officer.
 - (ii)Detail of works handled during last three years indicating project cost, scope of work & date of commencement / completion.
5. Firm applying for Pre-qualification shall give the details of tools, plants and machinery that will be specially made available for the relating projects.
6. Particulars of technical staff that would be made available by the firm for the project cited above with their experience and fresh attestation/proof.
7. Bank certificate and bank statement clearly indicating credit worth of the firm/contractor.
8. Detail of any Arbitration/litigation or similar proceedings against any Government, Semi Government Department showing extent, results & present status.

9. Attested photo state copies of enlistment & update renewal with the C&W Department /UAF or Registered with Pakistan Engineering Council or with their respective country / authority in case of international firms.
10. Undertaking on judicial paper that the firm was never black listed by any of the Govt, or Semi Govt organization or by its respective Govt or any public body in case of international firms.
11. Partnership Deed/ articles of association in case of Company/Limited firm with power of attorney.
12. Attested Photo Copy of Registration with Pakistan Engineering Council. SECP/ registrar of firms, FBR and Provincial Revenue Authority or with their respective country / authority in case of international firms.
13. **Pre-Qualification Documents** can be obtained from the office of undersigned and on production of deposit slip of Rs.1000/- (nonrefundable) in A/c No.11-9/NBP titled “University Income Account” or provision of Bank Draft/Pay Order in favor of Treasurer, University of Agriculture, Faisalabad. **Ph: 041-9200161-69 Ext, 2505, 041-9200507.** Or download from the university web site **www.uaf.edu.pk** free of cost.

Only pre-qualified/selected firms/contractors will receive the tender documents on invitation to submit the tenders for the above works. The EOIs complete in all respect shall reach at the address given below not later than 12.10.2017 at 3.00 PM PST.

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SECTION- A

SCOPE OF WORK

For the purpose of this project, the Solar PV system includes the following features:

- i) Poly Crystalline Solar PV Modules
- ii) Fixed Support Structure for the Solar Modules
- iii) Inverters with built-in MPPT Charge Controller
- iv) Batteries
- v) Cabling, Wiring, DB/Enclosures
- vi) Battery & Inverter Control Room.
- vii) Civil works for mounting structure
- viii) Installation & logistics
- ix) SCADA system

The design of the biogas plant should consist of the following main components and equipment as a minimum technical requirement. Changes in the basic design concept should be of equal value concerning the plant performance, the biogas production yield and the life cycle of the equipment and should be justified and explained within the proposal.

1. Substrate reception and pre-treatment
2. Substrate distribution
3. Main Digester
4. Post digester
5. Gas treatment
6. Slurry Pond
7. Control and Automation
8. Biogas conversion

SECTION – B

APPLICATION FORMAT

B.1 GUIDELINES FOR APPLICATIONS

This Expression of Interest (EOI) serves the purpose of establishing a list of Pre-qualified Contractors that are capable of survey, size, design, procure, supply and install Solar PV System & Biogas System at University of Agriculture Faisalabad and also having the capacity to provide post installation services viz-a-viz operation and maintenance of the complete system during the warranty period of ten (10) years, training of the professionals/ staff/operators etc.

The Solar & Biogas systems would be procured installed & commissioned as a single package on International Competitive Bidding (ICB) process under PPRA Rules, 2014. **Section C** addresses the evaluation procedures for the applications. Applications received after due date **12-10-2017 at 03.00 PM (PST)** shall not be entertained.

The application should be prepared according to the structural format set forth below. Applications must be submitted at address/location indicated on the EOI/Prequalification notice.

The applications should demonstrate the applicant's capabilities and expertise with respect to achieving the goals of this project. The applications should take into account the evaluation criteria found in **Section C**.

The suggested format for the application is as follows:

1. Cover Page

Include project title, name of organization(s) submitting application, contact person, telephone and fax numbers, e-mail, and postal address.

2. Executive Summary (Maximum 3 pages)

Briefly describe how the Applicant proposes to meet the design requirements, carry out the activity functions, and achieve the anticipated results. Indicate the technical and managerial resources of the Applicant's organization and describe how the overall project will be managed.

3. Technical Application

This section represents the technical portion of the EOI. Applicants should retain for their records one copy of the application and all enclosures that accompany their application. The person signing the application must initial erasures or other changes.

The Technical Application format should have the following sections:

i) *Technical Approach:* Applicants should describe how they propose to achieve the overall goal of this assignment. Applicants should offer indicators that will be used to track progress toward achieving results. The technical approach will be evaluated on the overall merit (creativity, clarity, analytical depth, state-of-the-art technical knowledge, and responsiveness), feasibility and strategies proposed to achieve the program's strategic objective and results.

ii) *Management Plan:* The Applicants should fully describe the management structure, role and responsibilities of their staff. They should also identify those sub-cooperating agency(ies) to which they will partner under the Cooperative Agreement, describe how those agency(ies) were selected, and note what portion(s) of the Cooperative Agreement will be implemented by those agency(ies). Qualifications of this agency(ies) should be articulated to provide the assistance required, including technical and managerial resources and expertise. Applicants should state whether or not they have pre-existing relationships with these other agency(ies), where the relationship exists, and the nature of the relationship. The application should present:

- a. Management and administrative arrangements for overall implementation of the project including organizational structure, O&M plan, logistics support, personnel management, procurement arrangements for goods and services, and functions and responsibilities of key personnel.
- b. The degree to which management authority will delegate to the project office from the home office of the Applicant.
- c. How the project will manage a comprehensive set of activities?
- d. How each sub-cooperating agency will contribute to the overall strategy and implementation and how the technical components of the project will be integrated and coordinated?
- e. How the project will work with local partners and other implementing organizations to achieve results?

iii) *Key Personnel and Staffing:* Key personnel are those considered essential to the work being performed under this Agreement intimated to client at the time of award of contract.

The Applicant should provide:

- a. A full staffing plan including support staff, with underlying rationale, and an organizational chart demonstrating lines of authority and staff responsibility

accompanied by position descriptions for each position proposed. Applicants are invited to propose and justify the configuration of key staff positions in addition to or in substitution to those described herein.

- b. The key staff should have complementary skills to ensure a balance of technical and management expertise.
- c. Resumés for all proposed key personnel should be included.

iv) Equipment: The Applicant should provide configuration which should include optimum design, procurement, transport, installation, checking, training and post installation service for ten years.

v) Past Performance: The Applicant should describe and provide evidence of similar projects executed by him. The application should include documentation of current or recent agreements / contracts (or sub-agreements and sub-contracts) that are similar in matter, size, scope, and complexity to the technical description of this project. The information should include the procuring agency, dollar value, period of performance, brief description of the work performed, location of the activity, and references including points of contact with up-to-date telephone numbers and e-mail addresses. The Client reserves the right to obtain past performance information from other sources including those not named in the Application.

vi) Financial Status: Applicants should submit evidence of their capacity deemed necessary for Client to make determination of responsibility. Joint Ventures / Consortium /Interested firm is required to provide documentary evidence showing sufficient bank balance or copy of agreement with any financial institution for allocation of resources if the contract is awarded to them.

Copies of the Applicant's financial audit reports for the previous three years, which have been audited by a certified public accountant, should be attached.

B.2 SUBMISSION OF APPLICATIONS

In addition to the aforementioned guidelines, the applicant is requested to take note of the following:

1. The requisite Performa for submission of applications must be filled in properly as provided in **Appendix- A**.
2. **Unnecessarily Elaborate Applications**– Unnecessarily elaborate brochures or other presentations beyond those sufficient to present a complete and effective application in response to this EOI are not desired. Elaborate art work, expensive paper and bindings, and expensive visual and other presentation aids are neither necessary nor wanted.

3. **Acknowledgement of Amendments to the PQD** - Applicants shall acknowledge receipt of any amendment to this PQD by signing and returning the amendment. Client Lahore must receive the acknowledgement by the time specified for receipt of applications.
4. Applications and modifications thereof shall be submitted in sealed envelope or packages: addressed to the office specified in the Cover Letter of this EOI, and showing the time specified for receipt, the EOI number, and the name and address of the applicant.
5. Receipt of Applications - Applications must be received at the place designated and by the date and time specified in the cover letter of this EOI.
6. Faxed applications will not be considered; however, applications may be modified by written or faxed notice, if that notice is received by the time specified for receipt of applications.
7. The bidders shall prepare one original of EOI clearly marked “**ORIGINAL.**” In addition, the bidders shall submit two (02) copies of EOI, clearly marked as “COPIES” and well-structured soft copy of the proposal should also be in a portable DVD or USB drive.
8. In the event of discrepancy between them, the original shall prevail.
9. Applications received after the deadline shall not be entertained and shall be returned unopened to the applicant.
10. The applicant should be duly licensed by the Pakistan Engineering Council (PEC) in the appropriate category relevant to the scope of Work; for all local bidders.
11. The applicant should provide a copy of registration with Income Tax Department/NTN/Sales Tax Number.
12. Lead firm and their joint ventures/consortium shall submit an affidavit on stamp paper that they have not been blacklisted / defaulted by any public sector organization in Pakistan. Any firm found blacklisted / defaulted by any public sector organization in Pakistan shall not be considered for prequalification.
13. Lead firm or their joint ventures/consortium should certify that they have no conflict of interest in the project activities with the Employer or any other agency.
14. Lead firm and their joint ventures/consortium partner should provide information on any history of litigation or arbitration resulting from contracts executed in the last five years or currently under execution with any public sector organization in Pakistan. The details of litigation would be evaluated in accordance with rules/policy on the subject

for prequalification purpose. In case of no litigation, Lead firm and their joint ventures/consortium partner should provide affidavit of no litigation.

15. In case of violation of any clause of this PQD shall make the applicant as disqualified.
16. Only Companies and JVs/Consortium that have been prequalified under this procedure shall be invited to bid.
17. A pre-qualified firm or a member of a pre-qualified JV/Consortium may participate only in one bid for the contract. If a Company submits more than one bid, singly or as a JV/Consortium, all bids including that bidder, shall be rejected. This rule will not apply in respect of bids which include specialist sub-contractors who are used by more than one bidder.
18. Page Numbering MUST be marked on each page of Original and copies of EOI.
19. Table of Contents MUST also be provided.

SECTION-C

EVALUATION CRITERIA

C.1 OVERVIEW

The criteria for pre-qualification of Contractors presented below have been tailored to the specific requirements of the project. Applicants should note that these criteria serve to:

- (a) identify the significant matters which applicants should address in their applications and
- (b) set the standard against which all applications will be evaluated.
- (c) facilitate the review of applications, applicants should organize the narrative sections of their applications in the same order as the evaluation criteria.

The EOIs shall be evaluated in accordance with the Evaluation Criteria set in C-3. This will result in pre-qualification of Contractor eligible to undertake the project.

C.2 ACCEPTABILITY OF PROPOSED TERMS AND CONDITIONS

An application is acceptable when it manifests the Applicant's agreement, without exception, to the terms and conditions of the EOI, including attachments and provides a complete and responsive proposal without taking exception to the terms and conditions of the EOI. If an Applicant takes exception to any of the terms and conditions of the EOI, then the Client will consider its offer to be unacceptable.

C.3 EVALUATION CRITERIA

The EOIs shall be evaluated on the basis of following criteria and production of relevant record. The bidders obtaining **65 marks** in Evaluation of EOIs shall be declared as Pre-qualified.

As a pre-requisite, companies MUST provide:

- a) proof of registration with Income Tax Department
- b) undertaking regarding no litigation with any public sector organization in Pakistan
- c) undertaking regarding no blacklisting by any public sector organization in Pakistan.
- d) letter of association in case of a JV/consortium of partners
- e) submission of audit financial statement for the past 3 years

S. #	Salient Feature	Maximum Marks*
1	General Experience (Total Marks 35) a) Projects of similar nature completed over last five (5) years (Evidence should be provided) b) Projects of similar nature in hand (Evidence should be provided) c) Status of enlistment with Government Organizations and other agencies.	 20 10 05
2	Technical Approach for the project (Total 10 Marks)	15
	Personnel Capabilities (Total Marks 25) (Attach copies of CVs) i) Qualified Graduate engineers a) Number of engineers b) Experience of engineers in number of years ii) Number of diploma engineers/ technicians in employment of the firm a) Number of diploma engineers/technicians b) Experience of diploma engineers/ technicians in number of years.	 10 5 5 5
4	Equipment Capability (Total Marks 10)	05
5	Financial Position (Total Marks 20) a) Available Bank Credit Line (Attach copy of bank statement) b) Working Capital in last 3 years	10 10
Total		100

*Please see Appendix-B for explanation for distribution of marks

APPENDIX-A

Form 1

Letter of Application

[Letterhead paper of the Applicant, or partner responsible for a joint venture, including full postal address, telephone no., fax no., and e-mail address]

Date:.....

To:

.....
[name and address of the Employer]

Sirs,

1. Being duly authorized to represent and act on behalf of (herein after “the Applicant”), and having reviewed and fully understood all the prequalification information provided, the undersigned hereby apply to be prequalified as a bidder for the following contract(s) under the*[name of the Project to be listed by the User/Employer]* project:

Contract No.	Description of Contract
	INTEGRATED ENERGY AND AGRICULTURE CONCEPT

2. Attached to this letter are copies of original documents defining:
 - (a) the Applicant's legal status;
 - (b) the principal place of business; and
 - (c) the place of incorporation (for applicants who are corporations); or
the place of registration and the nationality of the owners (for applicants who are partnerships or individually-owned firms).
3. Your Agency and its authorized representatives are hereby authorized to conduct any inquiries or investigations to verify the statements, documents, and information submitted in connection with this application, and to seek clarification from our bankers and clients regarding any financial and technical aspects. This Letter of Application will also serve as authorization to any individual or authorized representative of any institution referred to in the supporting information, to provide

such information deemed necessary and requested by yourselves or the authorized representative to verify statements and information provided in this application, or with regard to the resources, experience, and competence of the Applicant.

4. Your Agency and its authorized representatives may contact the following persons for further information, if needed.

General and Managerial Inquiries	
Contact 1	Telephone: Email:
Contact 2	Telephone: Email:

Personnel Inquiries	
Contact 1	Telephone: Email:
Contact 2	Telephone: Email:

Technical Inquiries	
Contact 1	Telephone: Email:
Contact 2	Telephone: Email:

Financial Inquiries	
Contact 1	Telephone:
Contact 2	Email:

5. This application is made with the full understanding that:
- (a) bids by prequalified applicants will be subject to verification of all information submitted for prequalification at the time of bidding;
 - (b) your Agency reserves the right to:
 - (i) amend the scope and value of any contract under this project; in such event bids will only be called from prequalified bidders who meet the revised requirements; and
 - (ii) reject or accept all application, cancel the prequalification process, and reject applications; and
 - (c) your Agency shall be liable for any such actions and shall be under obligation to inform the Applicant of the grounds for actions at 5(b) here above.

- (d) your Agency shall not be liable for consequence of, and shall be under no obligation to inform the applicant of the grounds for, actions taken under para 5(b) here above.

Applicants who are not joint ventures/consortium should delete para 6&7 and initial the deletions.

6. Appended to this application, we give details of the participation of each party, including capital contribution and profit/loss agreements, to the joint venture or association. We also specify the financial commitment in terms of the percentage of the value of the (each) contract, and the responsibilities for execution of the (each) contract.
7. We confirm that in the event that we bid, that bid as well as any resulting contract will be.
- (a) signed so as to legally bind all partners, jointly and severally; and
- (b) submitted with a Joint Venture/consortium agreement providing the joint and several liability of all partners in the event the contract is awarded to us.
8. The undersigned declare that the statements made and the information provided in the duly completed application are complete, true, and correct in every detail.

Signed	Signed
Name	Name
For and on behalf of (name of Applicant or lead partner of a joint venture/consortium)	For and on behalf of (name and signature of other partners of the joint venture/consortium)

General Information

All individual firms and each partner of a joint venture applying for prequalification are requested to complete the information in this form. Nationality information is also to be provided for foreign owners or applicants who are forming part of the Joint Ventures as required under the PEC Bye-Laws as a Partnership/ Joint Venture.

1.	Name of Firm	
2.	Head Office Address	
3.	Telephone	Contact Person: Name: Title:
4.	Fax	Telex: Email:
5.	Place of Incorporation/Registration	Year of incorporation/registration

NATIONALITY OF OWNERS		
	NAME	NATIONALITY
1.		
2.		
3.		
4.		
5.		

General Experience Record

Name of Applicant or partner of a joint venture

All individual firms and all partners of a joint venture are requested to complete the information in this form. The information supplied should be the annual turnover of the Applicant (or each member of a joint venture), in terms of the amounts billed to clients for each year for work in progress or completed over the past ten (10) years.

Use a separate sheet for each partner of a joint venture.

Annual Turnover		
Year	Turnover (in actual currency)	Equivalent Rupees in Millions.
1.		
2.		
3.		

Joint Venture Summary

(In case of JV/Consortium, please attach copy of Agreement)

Names of all Partners of a Joint Venture
1. Lead Partner
2. Partner
3. Partner
4. Partner
5. Partner
6. Partner

Total value of annual turnover, in terms of work billed to clients,

Partner	Year 1	Year 2	Year 3
1. Lead Partner			
2. Partner			
3. Partner			
4. Partner			
5. Partner			
6. Partner			

Particular Experience Record

Name of Applicant or partner of a joint venture

On a separate page, using the format of Application Form 6, each applicant or partner of a Joint Venture is required to list all contracts of a value equivalent to Pak Rs.- (User/Employer to provide the amount) million, of almost similar nature and complexity to the contract for which the Applicant wishes to qualify, undertaken during the last five (05) years. The information is to be summarized, using Application Form 6, for each contract completed or under execution by the Applicant or by each partner of a Joint Venture.

Details of Contracts of Similar Nature with Evidence

Name of Applicant or partner of a joint venture

Use a separate sheet for each contract.

1.	Name of Contract
	Country
2.	Name of Employer
3.	Employer Address
4.	Nature of works and special features relevant to the contract for which the Applicant wishes to prequalify
5.	Contract Role (Tick One) (a) Sole Contractor (b) Sub- Contractor (c) Partner in a Joint Venture
6.	Value of the total contract (in specified currencies) at completion, or at date of award for current contract Currency..... Currency..... Currency.....
7.	Equivalent in Pak/Rs.
8.	Capacity in KW
9.	Date of Award
10.	Date of Completion
11.	Contract Duration (Years and Months) ____ Years _____ Months
12.	Specified Requirements ¹

¹ Description of Project or other comments

Summary Sheet: Current Contract Commitments / Works in Progress with Evidence

Name of Applicant or partner of a joint venture

Applicants and each partner to an application should provide information on their current commitments on all contracts that have been awarded, or for which a letter of intent or acceptance has been received, or for contracts approaching completion, but for which substantial Completion Certificate has yet to be issued. Please provide evidence where applicable.

Name of Contract	Value of Outstanding work (Equivalent Pak Rs. Millions)	Capacity (KW)	Estimated Completion Date
1.			
2.			
3.			
4.			
5.			
6.			

Personnel Capabilities

Name of Applicant

For specific positions essential to contract implementation, the data on their experience should be supplied on separate sheets using one Form for each candidate (Application Form 8).

1.	Title of Position
	Name of Person
	Relevant Experience
2.	Title of Position
	Name of Person
	Relevant Experience
3.	Title of Position
	Name of Person
	Relevant Experience
4.	Title of Position
	Name of Person
	Relevant Experience

Summary of Personal

<i>Name of Applicant</i>

Position		
Candidate information	1. Name of Candidate	2. Date of Birth
	3. Professional Qualification	
Present employment	4. Name of employer	
	Address of employer	
	Telephone	Contact (manager/personnel officer)
	Fax	Telex
	Job title of candidate	Years with present employer

Summarize professional experience over the last 05 years, in reverse chronological order. Indicate particular technical and managerial experience relevant to the Project.

Month/ Dates/Years		Company / Project / Position / Relevant technical and management experience
From	To	

Equipment Capabilities

Name of Applicant

The Applicant shall provide adequate information to demonstrate clearly that he has the capability to meet the requirements for each and all items of equipment.

Item of Equipment		
Equipment information	1. Name of manufacturer	2. Model and power rating
	3. Capacity	4. Year of manufacture
Current status	5. Current location	
	6. Details of current commitments	
Source	7. Indicate source of the equipment <input type="checkbox"/> Owned <input type="checkbox"/> Rented <input type="checkbox"/> Leased	

Omit the following information if it is owned by the Applicant or partner.

Owner	8. Name of owner	
	9. Address of owner	
	Telephone	Contact name and title
	Fax	Telex
Agreement	Details of rental/lease specific to the Project.	

Financial Capability

Name of Applicant or Partner of a Joint Venture

Applicants, including each partner of a joint venture, should provide financial information to demonstrate that they meet the requirements. Each applicant or partner of a joint venture must fill-in this form. If necessary, use separate sheets to provide complete banker information. (A copy of the audited balance sheets for last three (03) years duly signed & stamped by certified Chartered Accountants should be attached)

Banker	Name of banker	
	Address of banker	
	Telephone	Contact name and title
	Fax	Telex

Summarize actual assets and liabilities in Pak Rupees (Equivalent at the current rate of exchange at the end of each year) for the previous three years.

Financial information in Pak Rs. or equivalent	Actual: previous three year				
	1	2	3		
1. Total assets					
2. Current assets					
3. Total liabilities					
4. Current liabilities					
5. Profits before taxes					
6. Profits after taxes					

Source of Financing	Amount (Pak Rs. or equivalent)
1.	
2.	
3.	

Attach audited financial statements for the last three years (for individual applicant or each partner of joint venture).

Firms owned by individuals, and partnerships, may submit their balance sheets certified by a registered accountant, and supported by copies of tax returns, if audits are not required by the laws of their countries of origin in case of foreign firms.

Litigation History

Name of Applicant or Partner of a Joint Venture

Applicants, including each of the partners of a joint venture, should provide information on any history of litigation or arbitration resulting from contracts executed in the last five years or currently under execution. A separate sheet should be used for each partner of joint venture.

Year	Award FOR or AGAINST Applicant	Name of client, cause of litigation, and matter in dispute	Disputed amount (current value Pak Rs. or equivalent)

EXPLANATION FOR MARKS DISTRIBUTION

1. GENERAL EXPERIENCE (Total Marks= 35)

Sr. No.	Description	Marks Assigned	Explanation for Marks distribution
a)	a) Projects of similar nature completed during last five (5) years. (Evidence should be provided)	20	<ul style="list-style-type: none"> • Projects having at least 1MWp cumulative Solar PV / Biogas installation shall be considered to qualify full marks; any less than that will be scored proportionately. Minimum installation size shall not be less than 10 kWp. • Execution in the implementation of at least 3 projects should be biogas plants with one project of at least 40 kWp. In absence of these, the applicant shall list and explain any projects accomplished which similar to biogas technology (construction of large civil structure tanks, CHP installation, any facilities that deal with biomass etc.) • Furthermore, experience in construction of concrete tanks and foundations in Pakistan (required for biogas plant) is required to be demonstrated by the respective references. The references can be provided by the applicant himself or his JV partners within a consortium or subcontractors. Evidence of projects should be completion letter from the Client in the case of completed projects.
b)	a) Projects of similar nature in-hand. (Evidence should be provided)	10	<ul style="list-style-type: none"> • Projects having at least 0.5MWp cumulative Solar PV / Biogas installation shall be considered to qualify full marks; any less than that will be scored proportionately. Minimum installation size shall not be less than 10kWp. Evidence should be award letter/copy of signed contract in case of projects in hand.
c)	Enlistment record with Government Organizations & other agencies	05	<ul style="list-style-type: none"> • 1 mark for each enlistment up to maximum of five enlistments.
Total Marks Allocated			35

2. TECHNICAL APPROACH (Total Marks = 15)

Sr. No.	Description	Marks Assigned
(a)	Timelines of Activities for completion of the Project	08

(b)	Overall Management Plan of the Project (From Award of Contract to handing over of Project)	07
Total Marks allocated		15

3. PERSONNEL CAPABILITIES (Total Marks =25)

Sr. No.	Description	Marks Assigned	Explanation for Marks Obtained
i)	<p>Qualified Graduate Engineers</p> <p>a. Number of Engineers</p> <p>b. Experience of Engineers in number of years</p> <p>(At least one Civil Engineer with Masters or equivalent degree, one Electrical Engineer /Renewable Energy Specialist with Masters or equivalent degree, one Agriculture Engineer /Bioenergy Specialist with Masters or equivalent degree, one Mechanical Engineer with Masters or equivalent degree.)</p>	15	<p>a. <u>Strength of Engineers (10 Marks)</u></p> <ul style="list-style-type: none"> 5 marks will be given if the total No. of Engineers are 10 Nos. or above. For less than 10 no of Engineers, marks will be given as per following formulas: = $(A/10) * 5$ 5 marks will be given if the specialized experts stated on the left are provided. For less than 4 of the stated Engineers, marks will be given as per following formulas: = $(A/4) * 5$ <p>A = No. of Engineers</p> <p>b. <u>Experience (5-Marks) :</u></p> <ul style="list-style-type: none"> 5 marks will be given if the Applicant has at least Ten (10) Engineers graduates having individual experience of at least 5 years or above. For less than 10 No. of Engineers having individual experience of 4 years, marks will be given as per following formulas: = $(A/10) * 5$ <p>A = No. of Engineers having individual experience of 5 years or above.</p>
ii)	<p>Number of Diploma Engineers in Employment of the Firm</p> <p>a. Number of diploma Engineers</p> <p>b. Experience of diploma Engineers in number of years.</p>	10	<p>a. <u>Strength of Diploma of Associate Engineer (5 Marks)</u></p> <ul style="list-style-type: none"> 5 marks will be given if the total No. of Diploma of Associate Engineers (DAE) are 10 nos. or above. For less than 10 No. of Diploma of Associate Engineers, marks will be given as per following formulas: = $(A/10) * 5$ <p>A = No. of DAEs</p> <p>b. <u>Experience (5-Marks) :</u></p> <ul style="list-style-type: none"> 5 marks will be given if the individual experience of at least 10 No. of DAEs is equal to 5 years or above. For less than 10 No. of DAEs having individual experience of 5 years, marks will be given as per following formula: = $(A/10) * 5$ <p>A = No. of DAEs having individual experience of 5 years or above.</p>

Total Marks Allocated	25
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4. EQUIPMENT CAPABILITY (Total Marks =05)

Sr. No.	Description	Marks Assigned	Explanation for Marks Obtained
1	Firm / JV having Manufacturing facility of PV Panels including all the equipment like molding developing formatting as per standards transporting machinery by mechanical means to the required site/height indicating use of modern age machinery etc	5	i. 3 marks for modern age machinery/equipment required essentially for completion execution of the required work. ii. 2 marks for Executing machinery for civil works like Excavator, Concrete mixer, Lift, shuttering etc.
Total Marks Allocated			05

5. FINANCIAL POSITION (Total Marks =20)

Sr. No.	Description	Marks Assigned	Criteria for Marks Obtained
a)	Available Bank Credit Line (Attach proof)	10	<ul style="list-style-type: none"> • 5 marks will be given if the available bank credit line limit is equal to Rs. 50 Million. • For limit less than Rs. 50 Million, following weightage will be applied $5 \times (A/50)$ • For the limit more than Rs. 50 million but less than Rs. 100 million following weightage will be applied $5 + (A/100) \times 5$ <p>A= Available Bank Credit Line Limit</p> <ul style="list-style-type: none"> • Full marks will be given in case of limit is Rs. 100 million or more.
b)	Working Capital in last three (3) years	10	<p>10 marks are given if the available average working capital for last three years is equal to Rs. 50 Million.</p> <ul style="list-style-type: none"> • For the capital less than Rs. 10 million following weightage will be applied $10 \times (A/50)$ • For the capital more than Rs. 50 million but less than Rs. 100 million following weightage will be applied $5 + (A/100) \times 5$ <p>A= Average working capital in last three years.</p> <ul style="list-style-type: none"> • Full marks will be given in case of limit is Rs. 100 million or more.

Total Marks Allocated	20
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