

GOVERNMENT OF THE PUNJAB
ENERGY DEPARTMENT



PC-II

For

FEASIBILITY STUDY FOR SOLARIZATION OF
COURTS AND DISTRICT SESSION COURTS OF
PUNJAB

GS No.3530

Cost PKR 10 Million

June 2022

GOVERNMENT OF THE PUNJAB

PLANNING COMMISSION PC-II FORM

1.	Name of the Project	Feasibility Study for Solarization of Courts and District Session Courts at Punjab
2.	Authority responsible for i. Sponsoring ii. Execution Agency	Energy Department, Government of the Punjab Punjab Energy Efficiency and Conservation Agency (PEECA)
3.	General Description	<ul style="list-style-type: none"> • <u>Brief Background</u> <p>Punjab is the most populous province of Pakistan, and is experiencing rapid urbanization. Cities in Punjab alone are estimated to contribute around 35% to the national GDP. As cities grow, substantial investments in urban governance and service delivery are needed to encourage economic growth and sustainable development.</p> <p>The efficiency and sustainability of Punjab's courts and district session courts will be a stepping stone in achieving green and inclusive growth.</p> <p>Courts and District Session Courts of Punjab have high energy consumption. Expenditures on power of courts across Punjab have</p>



increased manifold over time. The increasing cost of energy coupled has made service provision unsustainable. As a result, courts are running large deficits against their electricity bills, and are invariably reliant on bail outs by the provincial government for clearing accumulated arrears to continue operation of services. Similarly, rising costs of fuel for backup power generation has added to the difficulties. The inefficient energy consumption at the Courts and District Session Courts has led to energy wastage and increased electricity bills. These public institutes currently lack capacity and tools to undertake surveys on their own, and understand their energy needs through installation of solar PV system. Therefore, Courts and District Session Courts require critical technical assistance to develop and operationalize effective systems and procedures, and train staff on diagnostic tools.

II. Objectives of Feasibility

PEECA shall undertake survey and feasibility of Courts and District Session Courts and identify priority investments to make service delivery more efficient. The consultancy will support analytical and capacity building activities i.e. to undertake surveys of the buildings infrastructure and develop an Energy Management and Investment Plan identifying solarization needs for equipment / infrastructure. Surveys by an independent professional organization is required to provide the vital information based for overall energy conservation program covering essentially energy utilization analysis and evaluation of energy conservation measures. The major objectives are to:

- Assess present pattern of energy consumption (through electricity bills of previous 12 months)
- Relate energy inputs and production output
- Identify each building, its location and collect data.
- Highlight wastage in major areas
- Determine solarization capacity feasible buildings and open spaces.

- Determine whether rooftops can handle solar PV installation in case of roof mounted structure
- Investigation of existing electrical infrastructure including transformer capacity, cable, internal wiring, sanction load, electricity meter....etc. and recommendations of replacement/upgradation where necessary as per the solar capacity requirements and its cost.
- Exploring provision of net metering and its requirements for all sites.
- Implementation of measures of energy conservation and realization of savings.
- Estimation of solarization for each court.
- Recommend the buildings/courts to be feasible for solarization
- Economic, social, financial and environmental impact and analysis.
- Preparation of procurement documents division/city wise, including but not limited to preparation & finalization of bidding documents and technical specifications.
- Preparing pre-qualification , Request for Proposals (RFP), contracts etc.;

The details of district and session courts in all nine divisions of Punjab is attached as **Annexure-01**.

2. Core Team of the Consultant

The consultant will be bound to provide their detail methodology to carry out the detailed feasibility study. The detailed Terms of Reference (TORs) of Feasibility study for the Consultant is given in **Annexure-02**. The proposition in PC-II has been based upon their proposition of conducting feasibility study in all courts and district and session court buildings in line with scope of work/TORs of feasibility study. It has been proposed that a team leader will be stationed at Lahore.

Electrical engineer, civil engineers and diploma holder/technicians will carry out surveys and prepare initial analysis, and will send its

division wise data after initial analysis to consultant head office for preparation of feasibility study and survey reports. The Team Leader will be responsible to submit these reports to the client i.e. the Managing Director PEECA, Energy Department.

Team structure with allocation of courts is given below :-

Table 1: Team Distribution in Divisions

S #	Personnel	Based in	No's of Professional
1	Team Leader	Head Office at Lahore	1
2	Electrical Engineer	At Divisional Level	3
3	Civil Engineer	At Divisional Level	3
4	Junior Technician (Civil / Electrical / Mechanical)	At Divisional Level	6

Qualification and minimum experience required for required professionals is given below :-

Table 2: Personnel Detail with Qualification

S #	Personnel	No's	Qualification
1	Team Leader	1	M. Sc. in Electrical Engineering with minimum 12-years' Experience, foreign qualification and experience shall be preferred.
2	Electrical Engineer	03	B. Sc. in Electrical engineering with minimum 5-years similar kind of experience particularly feasibility study, maintenance of electrical installations and design of electrical projects
3	Civil Engineer	03	B. Sc. in Civil engineering with minimum 5-years' experience on similar projects particularly field based assignments
4	Technicians	06	Diploma in Civil / Electrical / Mechanical engineering with minimum 1-years' experience

			on solar PV installation and feasibility study assignments.
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3. Professional Liability of the Consultant

The consultant shall comply with the PPRA Rule-54 which states

“(1) The consultant selected and awarded a contract shall be liable for consequence of errors or omissions on the part of the consultant.

(2) The extent of liability of the consultant shall form part of the contract and such liability shall not be less than remunerations nor it shall be more than twice the remunerations.

(3) The procuring agency may demand insurance on part of the consultant to cover the liability of the consultant and necessary costs shall be borne by the consultant.

(4) The consultant shall be held liable for all losses or damages suffered by the procuring agency on account of any misconduct by the consultant in performing the consulting services.”

4. Hiring Process

The hiring shall be done through competitive bidding as per PPRA Rules.

5. Consultant Fee

The Consultant fee will be based upon technical/financial proposal.

The payments to the consultant will be linked with output/deliverables.

All payments made to the Consultant shall be subject to prevalent applicable taxes.

6. Duration of the assignment

(i) Assignment is likely to be completed within Ten (10) months from date of contract agreement.

(ii) The consultant shall furnish Completion Report within a fortnight after completion of assignment.

7. Deliverables and timelines

The tentative deliverables and its payment plan

Table 3: Detail of Deliverables as per the TORs

S.N	Deliverables	Payment Percentage of Contract Amount
1	Inception report	5%
2	Report for Lahore High Court and its Benches.	5%
3	Report for each Division containing separate reports for each court and district and session courts per city of the same district.	8%
4	Report for each Division containing separate reports for each court and district and session courts per city of the same district.	8%
5	Report for each Division containing separate reports for each court and district and session courts per city of the same district.	8%
6	Report for each Division containing separate reports for each court and district and session courts per city of the same district.	8%
7	Report for each Division containing separate reports for each court and district and session courts per city of the same district.	8%
8	Report for each Division containing separate reports for each court and district and session courts per city of the same district.	8%
9	Report for each Division containing separate reports for each court and district and session courts per city of the same district.	8%
10	Report for each Division containing separate reports for each court and	8%

			district and session courts per city of the same district.													
		11	Report for each Division containing separate reports for each court and district and session courts per city of the same district.	8%												
		12	Final Report including summary of reports and recommendations.	8%												
		13	Submission of procurement documents, specifications.	10%												
4.	Justification	<p>Feasibility Study for solarization by an independent professional organization is required to provide the vital information base for overall energy conservation program covering essentially energy utilization analysis and evaluation of energy conservation measures. As per the estimated assessment, the annual energy consumption of high court, its benches, District and Sessions courts is 17 Million and annual bill of PKR 642.5 Million. Letter from High court, Lahore, was sent to all District & Session Judges in Punjab in which it was informed that the Hon'ble Authority has directed to work out the feasibility/estimate of solar energy provision in the existing courts complexes (Letters attached as Annexure 03). As per the decision in the letter, data from district and session courts were received which shall be shared with the consultant. In order to estimate the solar potential, a feasibility study is required to mitigate the high energy consumption. The feasibility study will be completed by 30th June, 2023.</p>														
5.	Item wise year wise capital cost estimate	<p>Capital cost of Feasibility study is PKR 10 Million, the breakup of which is given below;</p> <p>Table 4: Cost Break Down</p> <table border="1"> <thead> <tr> <th>S #</th> <th>Description</th> <th>Cost</th> </tr> </thead> <tbody> <tr> <td>A</td> <td>Manpower cost (for 10 months)</td> <td>7,700,000</td> </tr> <tr> <td>B</td> <td>Transportation and Logistics</td> <td>1,000,000</td> </tr> <tr> <td>C</td> <td>Overheads (Utilities, Stationary, etc.) 1.5% of total cost</td> <td>500,000</td> </tr> </tbody> </table>			S #	Description	Cost	A	Manpower cost (for 10 months)	7,700,000	B	Transportation and Logistics	1,000,000	C	Overheads (Utilities, Stationary, etc.) 1.5% of total cost	500,000
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		<table border="1"> <tr> <td>D</td> <td>Office Establishment & other support staff etc. @ 1%</td> <td>800,000</td> </tr> <tr> <td colspan="2" style="text-align: center;">Grand Total</td> <td>10,000,000</td> </tr> </table>	D	Office Establishment & other support staff etc. @ 1%	800,000	Grand Total		10,000,000
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		<p>Detail of cost of project is given in Annexure-04 and Team organogram is given in Annexure- 05.</p>						
6.	<p>Management structure and manpower requirements including specialized skills during execution and operational phase</p>	<p><u>Project Manager</u></p> <p>Program Manager, PEECA, Energy Department will be the Project Manager and will supervise the work of the feasibility study by the consultants. He will monitor and report the activities of Consultant to Managing Director, PEECA/Secretary, Energy Department.</p> <p><u>Focal Person</u></p> <p>Program Manager, PEECA, Energy Department will be the focal person to conduct progress.</p> <p><u>Core Consultant Team</u></p> <p>The Consultant Team will constitute the staff as already described above.</p> <p><u>Consultant Selection Committee</u></p> <p>Consultant Selection Committee shall be notified by the Energy Department .</p>						
7.	<p>Indicate when the cost estimates were prepared and basis of these estimates</p>	<p>The cost estimates have been prepared original in June 2022.</p>						
8.	<p>Source of financing of the capital cost</p>	<p>The provision of the Project already approved under ADP General Serial No. 3530 The provision of this project in ADP is PKR 10.00 Million, in FY 2022-2023.</p> <p>Table 5: Year Wise Allocations</p> <table border="1"> <thead> <tr> <th>Years</th> <th>2022-23</th> </tr> </thead> <tbody> <tr> <td>Allocations (PKR Million)</td> <td>10</td> </tr> </tbody> </table>	Years	2022-23	Allocations (PKR Million)	10		
Years	2022-23							
Allocations (PKR Million)	10							
9.	<p>Implementation Schedule</p>	<p>The implementation schedule is given in Annexure-06.</p>						

10	<p>Expected outcomes of the survey and feasibility studies and details of the projects likely to be submitted after the surveys</p>	<ul style="list-style-type: none"> • The survey will help reduce burden on national grid by shifting to decentralized solar PV system. • The Consultant firm will suggest the solarization and give information on the required generation capacity. • Load bearing capacities of the public buildings will be determined. Identification of best suited rooftop space in case of roof mounted structure. • Existing cable condition will be determine with recommendations for replacement where necessary. • PC-I of the whole project will be framed based upon the detailed cost estimates mentioned in the Final Feasibility study Report.
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11. CERTIFICATE

1. Certified that the consultancy proposal “**Feasibility Study for Solarization of Courts and District Session Courts of Punjab**” has been prepared on the basis of instructions provided by the Planning Commission for preparation of PC-II for the infrastructure sector projects.
2. Certified that all the financial details of the scheme i.e. the estimates and quantities have been checked, have been scrutinized and found correct.

Prepared By: _____

(Assistant Manager Program, PEECA)

Checked by: _____

(Managing Director, PEECA)

Approved By: _____

(Secretary Energy, Government of the Punjab)

Annexure-01

High Court and its Benches

S.No	City	Court Name
1	Lahore	High Court
2	Rawalpindi	High Court Bench
3	Multan	High Court Bench
4	Bahawalpur	High Court Bench

District and Session Courts

S#	Division	S#	District	Address (City)
1	Rawalpindi	1	Rawalpindi	Judicial Complex, District Courts, Rawalpindi
		2	Chakwal	District & Sessions Courts, Chakwal
		3	Attock	Office of the District & Sessions Judge, Attock
		4	Jhelum	Office of the District & Sessions Judge Jhelum Civil Line Road Jhelum
2	Sargodha	5	Bhakkar	Office of District & Sessions Judge, Bhakkar
		6	Sargodha	Office of District & Session Judge, Sargodha
		7	Khushab	District & Sessions Courts, Khushab
		8	Mianwali	District & Sessions Court Mianwali, Near Jahaz Chok, Talagang Road Mianwali
3	Gujranwala	9	Gujranwala	District & Sessions Courts, Gujranwala
		10	Gujrat	District & Sessions Courts, Gujrat
		11	Hafizabad	District & Sessions Courts, Hafizabad
		12	Mandi Bahauddin	District & Sessions Courts, Mandi Bahauddin
		13	Narowal	District & Sessions Courts, Narowal
		14	Sialkot	District & Sessions Courts, Sialkot
4	Lahore	15	Kasur	District & Sessions Courts, Kasur

		16	Lahore	District & Sessions Courts, Lahore
		17	Nanakana Sahib	District & Sessions Courts, Nankana
		18	Sheikhupura	Office of the District & Sessions Court, Sheikhupura
5	Faisalabad	19	Faisalabad	District & Sessions Courts, Faisalabad
		20	Chiniot	District & Sessions Courts, Chiniot
		21	Jhang	District & Sessions Courts, Jhang:
		22	T.T.Singh	Office of the District & Sessions Judge, Toba Tek Singh
6	Sahiwal	23	Sahiwal	District & Sessions Courts, Sahiwal
		24	Okara	Office of the District & Sessions Judge, Okara
		25	Pakpattan	District & Session Court Pakpattan
7	Bahawalpur	26	Bahawalpur	Office of District & Sessions Judge, Bahawalpur
		27	Bahawalngar	Office of the District & Sessions Judge Bahawalnagar
		28	R.Y.Khan	District & Sessions Courts, Rahim Yar Khan
8	Multan	29	Multan	Office of District & Sessions Judge, Multan
		30	Khanewal	District & Sessions Courts, khanewal
		31	Lodhran	Office of the District & Sessions Judge, New Judicial Complex, Chak No. 100/M, Lodhran
		32	Vehari	Office of the District & Sessions Judge, Vehari.
9	DG Khan	33	D.G.Khan	Sessions Court Complex, Dera Ghazi Khan
		34	Layyah	District & Sessions Courts, layyah
		35	Muzaffarh	District & Sessions Courts, Muzaffargarh
		36	Rajanpur	District & Sessions Courts, rajanpur

**All courts under the District and Session courts (family, civil courts..etc.), judicial complexes but not limited to, situated in different locations of the above mentioned cities shall be included in the study.*

Terms of Reference (TORs) of Feasibility study Consultant:

1. Duties & responsibilities

The duties and responsibilities of Consultant shall include but not limited to the following:-

- PEECA expects the Consultant to include all the necessary matters of information the report it submits. Analyze and comment on patterns and trends in seasonal energy consumption
- Analyze and comment on patterns and trends in seasonal energy consumption.
- Analyze energy consumption and costs: Collect, organize, and analyze past energy bills.
- Review energy meters and list with reference to site energy end use. Review tariff structure and provide breakdown between peak and off peak. Identify appropriate opportunities in peak/load shifting.
- Compare energy performance: Determine the energy use and resources that can help compare them internally from one period to another, from one facility to a similar one, or from one system to another.
- Profile energy use patterns: Determine the time and relationships of energy use such as the electricity demand profile.
- Inventories energy use: Prepare a list of all energy-consuming loads/efficiencies in the audit area and measure their consumption and demand.
- Identify Energy Management Opportunities that include operational and technological measures to reduce energy usage.
- Measure the potential energy and cost savings, along with any other benefits.
- Surveys, measurements, photographs and other data collection methods shall be performed in a way that it minimizes disruption to the institution occupants.
- Determine solar potential of each building.
- GIS Imaging to have exhibit solar irradiance and proposed azimuthal angle.
- Conduct building survey and determine if the rooftop can withstand PV panels load for roof mounted structure.
- Recommend least costly and more efficient structure for installation of solar PV system on each court and district and session courts rooftops.

- Solar PV Potential, its expected capital investment and expected saving potential per annum of the institution is considered a vital part of the study. On the basis of this information, Solarization of rooftops of the listed courts will be done as an alternate source of energy source. On-Grid Solar PV Design using Helioscope, PVSyst or a similar software is to be used for detailed analysis including shading factor of the obstacles on rooftop. Since it is a clean energy source, the reduction in Green House Gases (GHG) shall also be a part of the survey report.
- Estimation of solarization for each court.
- Recommend the buildings/courts to be feasible for solarization.
- Economic, social, financial and environmental impact and analysis.
- Preparation of procurement documents division/city wise, including but not limited to preparation & finalization of bidding documents and technical specifications.
- Preparing pre-qualification , Request for Proposals (RFP), contracts etc.;

Methodology

1. The Consultancy Firm shall develop a detailed work program for carrying out the work immediately after mobilizing. It shall then prepare an inventory of relevant assets owned/operated by the courts, including buildings, streetlights, and gen-set details. In doing so, it can be guided by information already available within the courts but this information will need to be verified. The Consultants shall also collect relevant information on energy expenditure (bills etc.) for each asset for at least the last 12 months.
2. Collection of additional information on location (where applicable), performance, and energy consumption and expenditure incurred, as specified in the following sub-section of this TOR shall commence next. The outputs should be provided in a format with detailed information records for each asset, and an overall inventory and analytical report discussing key performance indicators.
3. The Consultants shall then identify energy saving opportunities, and provide saving potential (in electrical units and monetary terms) for each opportunity, estimated investment costs and returns on investments, engineering plans, and Bill of Quantities, as needed.
4. Recommended information fields for each category of assets. The consultants may suggest additional information fields, or revision of any data field suggested below, with the submission of the detailed work program.

Court Buildings

- a) Develop inventories of all building owned/operated by the courts, and record details given below, whichever may apply:
 - Unique Identification number
 - Ownership of the building (court-owned, any other)
 - Operator of building (court, commercial tenants, etc.)
 - Type of building (residence, office, commercial)
 - Age of the building
 - Condition of the building, Functional (satisfactory, unsatisfactory), Non-functional (repairable/non-repairable); Need for repairs, etc.
 - Total floor area
 - Total number of floors
 - Type and number of heating unit(s), Central heating; individual heating units - stoves/gas heaters, electric heaters, etc.
 - Type and number of cooling unit(s), fans, desert/air coolers; air conditioning systems (centralized AC), air conditioning systems, split etc.
 - Type and number of water heating units (including energy source).
 - Type and number of lighting unit(s), input with power rating, conventional light bulbs, tube lamp, energy saver bulbs, compact fluorescent lamps (CFLs), LED bulbs, etc.
 - Energy consumption during previous year (segregated by function heating, cooling, water heating, lighting, etc.)
 - Expenditure on energy over previous year.
 - Existing cables condition.
- b) Based on energy consumption and associated costs to courts and district and session courts buildings, provide recommendations for:
 - Installation of solar PV system, along with capacity requirement and financial and electricity savings.
 - Building condition.
 - Existing cable and other infrastructural related conditions.

LAHORE HIGH COURT, LAHORENo. 16767 -Bldgs/ B.A.VI

From **The Registrar,
Lahore High Court,
Lahore.**

To **All the District & Sessions Judges,
In the Punjab.**

Dated Lahore, the 03-10-2020

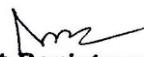
Subject: **INSTRUCTIONS REGARDING PROVISION OF SOLAR ENERGY
SYSTEM.**

Dear Sir,

I am directed to refer to the subject cited above and to inform that the Hon'ble Authority has directed to work out the feasibility / estimate of solar energy provision in the existing courts complexes through the Executive Engineer concerned and the Energy Department, Government of Punjab, or Consultant.

2. I am, further, directed by the Hon'ble Authority to ask you that in future all new schemes would be prepared by including the provision of solar energy system, if feasible, duly recommended by the Energy Department or Consultant.

Yours faithfully,


Assistant Registrar (Buildings)

No. & Date Even.

A copy is forwarded to the:-

- i. **Chief Engineer (Central Zone), Punjab Buildings Department, Lahore;**
- ii. **Chief Engineer (North Zone), Punjab Buildings Department, Lahore;**
- iii. **Chief Engineer (South Zone), Punjab Buildings Department, Lahore.**

They are requested to circulate the abovementioned instructions to all the Superintending Engineers as well as Executive Engineers working under their control for compliance.



Learn. Be put up on
6/11/2020

District & Sessions Judge,
Multan.


Assistant Registrar (Buildings)

Be
learned Senior Civil
Judge (Civil Division) Multan
11/11/2020

IMMEDIATE



No.SO(Consv.)ED/1-8/2021 ¹³¹²
GOVERNMENT OF THE PUNJAB
ENERGY DEPARTMENT
8th Floor, EFU House, Jail Road, Lahore
Phone No.99268010, 99268017 & 99268019 Fax No.35790721

Dated: 11th October, 2021

To

The Registrar,
Lahore High Court,
Lahore.

SUBJECT: FAST TRACK IMPLEMENTATION OF ANNUAL DEVELOPMENT PROGRAM (ADP) 2021-22- INSTRUCTIONS REGARDING PROVISION OF SOLAR ENERGY SYSTEM

I am directed to refer to the subject cited above and to apprise that in order to scrutinize the implementation status regarding the audit / survey of the offices / courts of District & Session Judges (D&SJs) all over the Punjab (36 districts) through Consultant who is to define scope of the work and its estimated cost, a meeting was convened under the chairpersonship of Additional Secretary (Development), Energy Department, in her office chamber on 06.10.2021, wherein from Lahore High Court, Deputy Registrar, Mr. Hammad Ahmad, attended the meeting. Minutes of the meeting are enclosed herewith.

2. As per the decisions of the meeting, it is requested
 - i. that a Focal Person from Lahore High Court, Lahore may be nominated for coordination with district level formations and
 - ii. to share the data regarding the number of sites / buildings in each district proposed for solarization alongwith their locations, electricity bills, transformer and generator details which shall be incorporated in the ToRs for inviting bids from the Consultants. NOC (No Objection Certificate) from the concerned Buildings Department regarding the roof stability of the buildings proposed solarization is also required.
3. I am further directed to request that nomination of Focal Person and provision of above data may very kindly be furnished to this department at an early date in order to execute the exercise of survey / audit of offices of D&SJs in befitting manner.

ARISW
SECTION OFFICER (CONSV.)

C.C.

A copy is forwarded for information / necessary action to :-

1. Mr. Adnan Mudassar, MD, PEECA, Energy Department.
2. Mr. Arif Mansoor Qaisrani, Chief Engineer (Power), Energy Department
3. Mr. Muhammad Yasin, Director Technical Power, Energy Department..
4. Mr. Hammad Ahmad, Deputy Registrar, Lahore High Court, Lahore.
5. Mr. Abdur Rahman, Project Manager, PEECA.
6. PS to Secretary Energy, Energy Department.
7. PA to Addl. Secretary (Dev), Energy Department.
8. PA to Deputy Secretary (Dev), Energy Department.

PROGRAM SECTION

Dairy No: 1085
Date: 11-10-2021

MANAGING DIRECTOR (PEECA)

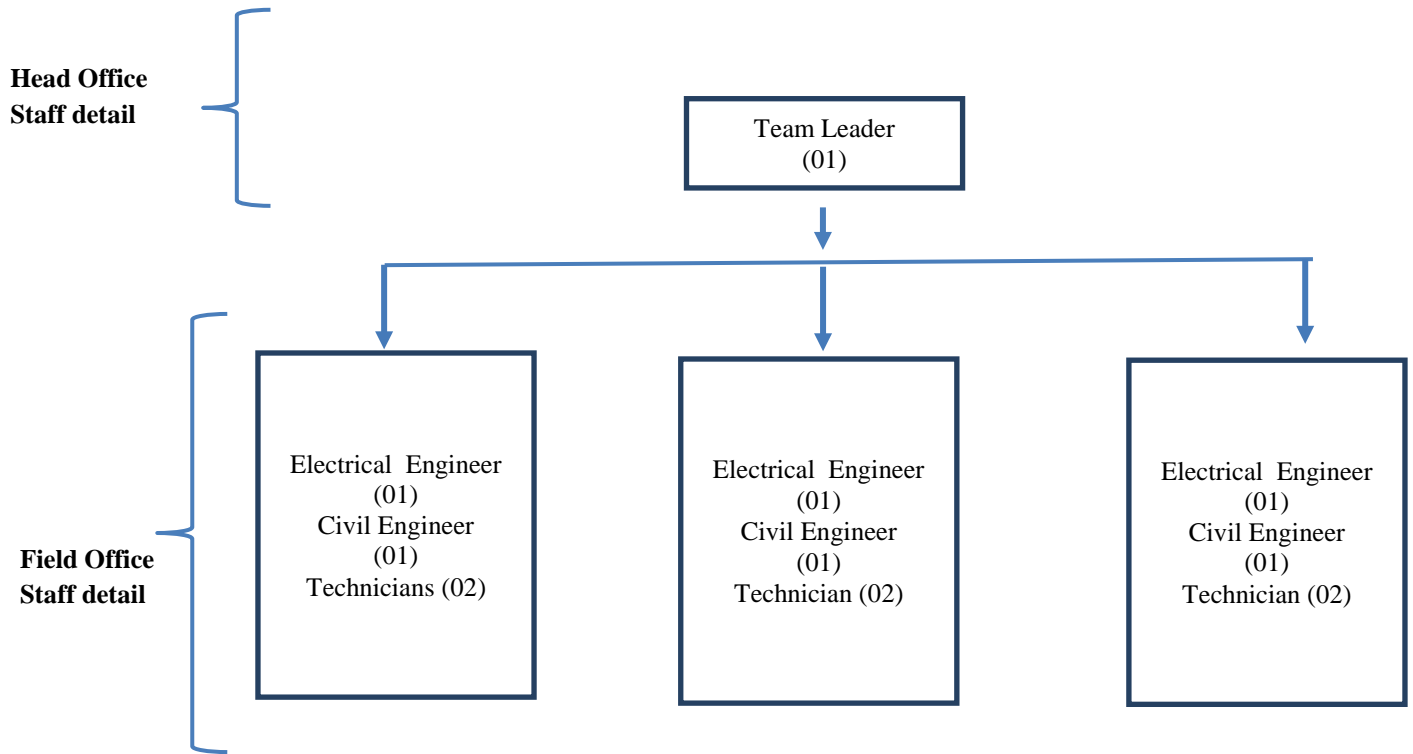
Dairy No: 0019
Date: 11-10-2021

11/10/2021
AM (P)

Annexure-04**Cost estimates for Feasibility Study for Solarization of Courts and District Session Courts at Punjab**

A	Manpower cost					
	Designation	No of slots	Man months each	Total man months	Cost per month	Total cost Rs.
1	Team Leader	1	10	10	110,000	1,100,000
2	Electrical Engineer	3	10	30	70,000	2,100,000
3	Civil Engineer	3	10	30	70,000	2,100,000
4	Technicians	6	10	60	40,000	2,400,000
					Total	7,700,000
B	Transportation & Logistics					1,000,000
					Total	8,700,000
C	Overheads (Utilities, Stationary, etc.)					500,000
D	Office Establishment & other support staff etc.					800,000
					Total	10,000,000

TEAM ORGANOGRAM FOR FEASIBILITY STUDY FOR SOLARIZATION OF COURTS AND DISTRICT SESSION COURTS OF PUNJAB



Supported By:

- Logistics
- Utilities
- Computer Operator
- Stationary
- Internet Access
- Android Mobile Devices(*To run Android Application*)

IMPLEMENTATION SCHEDULE														
S. No	Feasibility Study for Solarization of Courts and District Session Courts at Punjab													
Activities	FY (2022-23)													
	June	July	Aug	Sept	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	
1	PC-II Preparation													
2	PC-II Approval													
3	Pre-Qualification of Firms													
4	Preparation and Issuance of RFP													
5	Submission of Proposals by Consultants													
7	Evaluation of Proposals													
8	Award of Contract													
9	Implementation													