

Deh Halkani 120 MW Utility Scale Solar Power Plant

Type of Report:

Client

DITAKE

Auction Evaluation Report

K-Electric Limited

Assessment of the technical and financial bids of 120 MW Utility Scale Solar Power Plant at Deh-Halkani in accordance with NEPRA Electric Power Procurement Regulations, 2022

Deh Halkani, District West, Karachi, Sindh, Pakistan.



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Executive Summary

<u>Project Background</u>

K-Electric Limited ("KE") and the Sindh Solar Energy Project/Government of Sindh ("SSEP/GOS") initiated the competitive bidding process of 120MW Solar Project in Deh Halkani, Sindh ("Project") under NEPRA's Electric Power Procurement Regulations, 2022 ("NEPPR"). Land acquisition and project related studies, have been facilitated by the Government of Sindh and has been financed by World Bank. The Project will reduce KE's generation cost and help in achieving its PAP commitment and goal to include 30% Renewable capacity by 2030. The Project is planned to be connected through KE Surjani grid through the 220kV transmission line.

Open Competitive Bidding

KE conducted the initial prequalification process for the Project in 2023. Subsequently, the Request for Proposal ("RFP") for the Project was approved by NEPRA on February 29, 2024, under open competitive bidding without benchmark tariff ("NEPRA Determination"). In compliance with NEPRA Determination, the pre-qualification was conducted again in April 2024 and subsequently, the pre-qualified participants were invited to submit their bid proposal for the Project by September 30, 2024 ("Bid Submission Deadline").

Extension in Bid Submission Deadline

The Bid Submission Deadline was initially August 15, 2024, which was subsequently extended for revalidation of technical studies due to change in land coordinates. The Government of Sindh informed KE, at the end of July, that some portions of the land had shifted to an adjacent parcel due to settlements and other issues and the revised land included steep hills and dunes, necessitating an update to the feasibility study. Accordingly, the bid submission deadline was extended and revised feasibility studies were provided to the Bidders. A notice regarding this extension was also issued on ARIBA and KE's website and the same was also duly informed to NEPRA vide letter dated August 13, 2024, having reference No. BD/SQK/NEPRA/O8/2024-1308, attached as Annexure I.

Power Evacuation Arrangement

The evacuation of power from the project for construction of the related Transmission Line from the Surjani grid station to the gantry of the Project has been approved by NEPRA under KE's Integrated Investment plan. However, KE has subsequently filed a review motion to NEPRA on the Integrated Investment plan requesting approval on the complete scope of Transmission line including the investment cost for two-line bays, which is still awaited.

Submission of Bids and Evaluation of Technical Proposals

In response to KE invitation to bid, only (01) Bidder participated in the open competitive bidding procedure and its technical bid for the Project was opened on October 01, 2024. Following a comprehensive technical evaluation, it was determined that the bidder, Kot Addu Power Company Limited ("KAPCO"), successfully met the knock-out criteria and achieved the requisite technical score as mentioned in RFP. Furthermore, the bid received was also compliant with the bidding documents in line with Regulation 23 (1)(b).

Subsequently, since only one bid was received for the Project therefore prior to opening of financial bids. KE requested the Authority, as per Section 12 (i) of the NEPPR vide letter no. BD/SQK/NEPRA/09/2024-1009 on October 09, 2024, for its guidance and approval to proceed with financial bid opening. In reply to letter of KE, NEPRA on November 20, 2024, instructed KE to adhere to the guidelines of NEPPR through its letter no. NEPRA/DG(Tech)/LAD-01/17690, attached as Annexure K

Accordingly, as per the NEPPR, KE proceeded with financial bid opening on 25th November 2024 as per the requirement stipulated in the RFP.

Evaluation of Commercial Proposals

Subsequent to the technical evaluation, financial bid of KAPCO was opened on November 25, 2024. The summary of tariff proposal submitted by the Bidder is as follows:

	Table 1: Summary of Tariff				
•	Lead Sponsor Name	Bid Tariff (PKR/kWh)			
	KAPCO	9.8319			

Prudency Check by KE

As directed under the NEPRA Determination, KE has conducted a comprehensive assessment of the successful bid, considering the prevailing macroeconomic and market conditions along with an assessment and analysis of the displacement of expensive electricity in its system.

Based on the prudency check of Bid Tariff, KE has independently prepared an estimated Tariff, number based on current market conditions and prices which works out to be in the range of Rs. 11.5587/kWh (USc. 4.004/kWh) to Rs. 11.7854/kWh (USc. 4.0829/kWh), based on Capacity Factors at P75 and P90 respectively. However, as evident from Table 1 above, KAPCO, has offered a tariff of Rs. 9.8319/kWh (USc. 3.4061/kWh) which is less than the estimated tariff worked out by KE.

Additionally, KE has analysed the displacement of expensive fuel due to offtake from the Project – further detailed in Section 6 of the Auction Evaluation Report ("AER"). Based on the analysis, the

annual savings expected for the Project in energy cost is PKR 1,665.6 million (total savings of PKR 41,640 million through the life of the Project) on account of displacement of expensive imported fuel-based generation. Moreover, the Project is also expected to realize annual forex savings of USD 13.60 million (total savings of USD 340.09 million through the life of the Project).

<u>Iustification for Single Bid</u>

The proposed Bid Tariff of KAPCO, although being the only bid meets the prudency check done by KE that is, the Bid Tariff is lower that the KE estimated tariff for the Project. Furthermore, the proposed Bid Tariff is also equivalent to the lowest proposed Bid Tariff of 150 MW Deh Metha Ghar project, where multiple bidders participated. This consistency strongly suggests that the bid is reflective of the current market conditions. Given these points, it is submitted that the bid from KAPCO is both competitive and fair, and we recommend its acceptance.

Results of Tariff Proposal

In accordance with the Technical and Financial evaluation criteria approved by NEPRA and the prudency check performed by KE, KAPCO is the Successful Bidder for the Project as approved by the Auction Evaluation Committee ("AEC") in accordance with NEPPR (Refer Annexure A for detailed Compliance Checklist).

Submission to NEPRA

KE hereby requests the Honourable NEPRA Authority to grant its approval of the Competitive Auction process and the AER so that the Bidder can be notified, and subsequent steps can be taken accordingly.



1 Overview of the Bidding Process

1.1 Introduction to Project

Bids were invited for the Project, which is a key component of KE's ongoing efforts to enhance its renewable energy portfolio. By harnessing solar power, K-Electric aims to play a significant role in the country's transition to cleaner energy sources, contributing to the broader national goals of energy diversification, reduced carbon emissions, and environmental sustainability.

This project represents a major step forward in K-Electric's commitment to sustainable energy and also helps to reduce the dependence on fossil fuels. The project's RFP was submitted under NEPPR, in accordance with the regulation pre-qualification was conducted, and the RFP was provided to the pre-qualified parties.

1.2 Pre-Qualification Process

The pre-qualification process for the Project has been conducted twice. In 2023, K-Electric conducted the first prequalification process for two solar projects: a 120 MW project at Deh Halkani and a 150 MW project at Deh Metha Ghar. A total of 20 companies participated in this process, out of which 4 were disqualified. Therefore, 16 companies remained in the process, including-2 companies qualified exclusively for Deh Halkani, 4 companies qualified exclusively for Deh Metha Ghar, and 10 qualified for both sites. The list of 12 companies that qualified for this Project was shared with NEPRA on September 6, 2023, via letter number BD/MZ/NEPRA-0121/2023-0609 is as follows:

Table 2: List of Pre-Qualified Bidders in phase 1

S. No.	Company
**	Gal Ahmed Energy Eimited
2	HUB Power Company Limited
3.	Zahir Khan & Brothers (ZKB), Kalyoninsaat Sanayi ve Ticaret A.S.
. 4	JCM Power Corporation, Burj Energy International Management Limited
5	Liberty Mills Limited
6	Engro Energy Limited
7	Lucky Cement Limited
8	Sapphire Textile Mills Limited
. 9	Orient Power Company (Private) Limited & Oursun Pakistan Limited & Sham's Power Company
10	Artistic Milliners (Pvt.) Ltd.
11:	lb VOGT Group
12	Sardar Muhammad Ashraf D. Baluch (Pvt) Limited, Xinrong Construction. Engineering (SMC-Private) Limited

As per NEPRA Determination, KE was directed to reconduct the Prequalification process, however the parties already pre-qualified were not required to undergo the pre-qualification assessment.

Consequently, KE issued the invitation for prequalification for the Project(s) on 2nd April 2024, under major publications as follows:

- 1. International newspapers: China Daily, Khaleej Times, New York Times and Financial Times
- 2. Local newspapers; Daily Dawn, Business Recorder, Express Tribune and others
- 3. Tendering websites: globaltenders.com and tendersinfo.com

During the Prequalification stage, interested applicants submitted their queries through the ARIBA portal. K-Electric's team promptly responded to these initial queries via the same portal, providing direct clarifications to the applicants. This facilitated a streamlined pre-qualification process, ensuring applicants had sufficient information to proceed without delays.

In response to KE invitation for prequalification, three new participants, namely Atlas Power Limited, KAPCO and Kohinoor Energy Limited, applied for the pre-qualification, from which two were declared as qualified while Kohinoor Energy Limited was declared disqualified as it did not meet the prequalification criteria.

The updated list of companies that qualified for the Project was communicated to NEPRA on June 12, 2024, via letter number BD/MZ/NEPRA-1066/2024-1206, as referred to in Annexure B and indicated in Table 3.

Table 3: List of Pre-Qualified Bidders in phase 2

हर देवर <i>नद्</i> राक्ष	Table 1 of the second of the s
Sr. No.	Company
1. 1.	Gul Ahmed Energy Limited
2	Atlas Power Limited & Sherazi Investments (Pvt) ltd
3	Hub Power Höldings Etd.
' 4	. Zahir Khan & Brothers (ZKB) & Kalyoninsaat Sanayi ve Ticaret A.S
5	ICM Power Corporation Burj Energy International Management Limited & Rana
7 1 1 1 1	Naseem,
6	Liberty Mills Limited
7	Engro Energy Limited
8	Lucky Cement Limited
. 9	Sapphire Textile Mills Limited
10	Orient Power Company (Private) Limited, Oursun Pakistan Limited & Shams Power
·	, Company
11	Artistic Milliners (Pvt.) Ltd.
12	, Sardar Muhammad Ashraf D. Baluch (Pvt) Limited & Xinrong Construction Engineering
‡	(SMC-Private) Limited

13 Ib VOGT Group	49 , 100	
14 Kot Addu Power Con	npany Limited	

Disqualified Applicants

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During the initial pre-qualification process in 2023, four participants were disqualified while during the subsequent pre-qualification process, only one participant was disqualified. The justification for disqualification in accordance with Regulation 23 (1)(d) have been included in Annexure H.



2 Bidding Process

As per the NEPPR, only the pre-qualified participants were provided RFP for onward submission of their bids. The RFP document was made available on the KE website. All Bidders/Applicants were required to register on SAP ARIBA software, for submission of soft copy of the bids. All correspondence, clarifications, and amendments were uploaded on the Ariba Software and/or KE website.

2.1 Overview of the Bid Clarification Process

During the bidding process for the Project, K-Electric implemented a structured bid clarification phase to address the pre-qualified bidders' inquiries and ensure full alignment with the project's technical and operational requirements.

The bid clarification process has been structured in two main stages: Pre-Bid Evaluation and Post-Bid Evaluation. Each phase has been essential in maintaining transparency, addressing bidder concerns, and ensuring clarity in project requirements.

Pre-Bid Evaluation Stage

In the Pre-Bid Evaluation phase, queries from the pre-qualified bidders were systematically reviewed and addressed. All bid-related communication, including bid acceptance, query submissions, and the issuance of corrigenda, has been conducted through the ARIBA portal to maintain a centralized, accessible record of all interactions. K-Electric's team addressed each query in writing, ensuring consistent and transparent responses. To preserve fair competition, clarified responses have been shared simultaneously with all shortlisted bidders.

On September 24, 2024, a General Clarification document, attached in Annexure C, was issued, addressing key questions and clarifying project requirements for all pre-qualified parties. Corrigenda, reflecting amendments to the RFP and EPA, were also issued and are attached as Annexure D. Revised Energy Purchase Agreement was shared with the bidders, refer Annexure F (submission letter to NEPRA). These clarifications and amendments were also uploaded to the project website, making them accessible to all bidders.

Post-Bid Evaluation Stage

This stage involves clarifications taken from participants in their bids if any ambiguity is found. It is a vital step in the process, ensuring that all parties have a clear and mutual understanding of the bid requirements and expectations. This phase has helped KE to resolve any ambiguities or misunderstandings in the bid documents submitted by the participants. However, KAPCO bid found to be complied with all respects and no post-bid clarification was sought.



3 Knock-Off and Technical Evaluation Criteria

Until the Bid submission deadline, i.e., September 30, 2024, only KAPCO submitted its bid for the Project. Consequently, KE opened the technical bid on October 01, 2024, and evaluated the Technical Proposal for its compliance with Knock off and Technical Evaluation Criteria. Details of technical bid submitted by KAPCO in accordance with Regulation 23(1)(c) are mentioned below.

This section outlines the essential compliance standards for evaluating bidders, combining rigorous technical knock-off criteria with legal prerequisites as detailed in the RFP as well as technical bid evaluation based on the scoring provided in the RFP. The technical knock-off criteria required bidders to demonstrate strict adherence to specified performance parameters, while the legal requirements were emphasized to ensure compliance with regulatory and contractual obligations, and technical scoring evaluation determined bidder's suitability for project execution.

3.1 Parameters of Knock-off Criteria

K-Electric's knock-off criterion was strategically formulated to align with global standards, maximize the project's operational efficiency, and ensure the solar facility's reliability throughout its. lifecycle. As highlighted in Table 4 below, each technical prerequisite underscored KE's commitment to high-quality, sustainable energy production.

Table 4: Technical Knock-off Criterion for Bidders				
 Compliance Requirement	Description	KAPCO Compliance		
Solar Panels	Tier 1	Met -		
Yield	Greater than 21.5%	Met		
Grid Code	Compatibility of the Complex and equipment with technical standards of Grid Code (Power factor, voltage variation, operating frequency range etc.), Distribution Code and Other applicable documents etc.	Met		

3.2 Additional Requirements

According to RFP, the Bidder must comply with several standards and regulations to ensure effective environmental and social management and meet safety requirements. These include:

IFC and World Bank EHS Guideline's (2007)

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- · Pakistan Environmental Protection Act (PEPA, 1997)
- Sindh Environmental Protection Agency Act (SEPA, 2014)
- ESMP for the 120 MW Solar Power Project in Deh Halkani
- NOC from Sindh Environmental Protection Agency (dated 22nd February 2023)

The bidder, KAPCO, provided compliance to above mentioned requirements in its bid submissions.

3.3 Legal Compliance Requirements

In addition to knock-off criteria, KE required bidders to meet several legal obligations as detailed in its RFP. These requirements were intended to establish the bidder's legal standing, financial stability, and capability to undertake the project responsibly. The following legal compliance elements were assessed:

Table 5: Financial & Legal Knock off Criterion for Bidders

Requirement 7	Compliance by KAPCO
Bid Bond	Provided
Bid Processing Fee	Provided
Performance Guarantee	Confirmed
Affidavit	Provided
Confidentiality Agreement	Provided
Covenant of Integrity	Provided
Power of Attorney	Provided
Joint Venture/Consortium Agreement	Provided

After carefully reviewing the knock-off criteria and other mandatory requirements, it was concluded that KAPCO fully met the technical and legal standards set by K-Electric (KE). Their bid was thoroughly checked for compliance with global standards, environmental responsibility, and financial commitment.

This strict adherence to the criteria assured KE of the bidder's technical skills and legal readiness. The bidder's complete compliance allowed it to move on to the next phase, making it a reliable partner aligned with KE's operational and strategic goals.

3.4 Technical Bid Evaluation

_ In technical bid evaluation, it was observed that KAPCO has demonstrated technical soundness across all specified criteria. Overall, the bid submitted by KAPCO has successfully met and exceeded the technical criteria outlined in the RFP. Their proposal reflects a deep understanding of the requirements necessary for a successful project execution. With their emphasis on high-efficiency solar panels, reliable power inverters, durable mounting structures, and comprehensive support systems, the bidder has positioned itself as a strong contender for this initiative. Detailed scoring criteria and the scores achieved by the bidder are included in Annexure G, while an overview of its technical bid is presented below in accordance with Regulation 23 (1)(f) of NEPPR.

- Solar Panels: KAPCO proposed solar panels exceeding the 21.5% efficiency requirement.
 KAPCO proposed Longi panels having 24.1% efficiency. The panels came from Tier-1 manufacturers, ensuring quality with minimal degradation rates of 0.35%. This selection aimed to guarantee long-term reliability and high energy yield.
- **Inverters**: The bid met and slightly exceeded the required 98% efficiency standard KAPCO's inverters offered 98.8% efficiency, backed by 5-year warranties.
- High Voltage Switchgear: KAPCO has proposed Xi'an XD's gas-insulated switchgear, complying with the Grid Code of Pakistan and the RFP requirements. The proposed switchgear meets high standards, featuring maintenance-free SF6 circuit breakers, ISO certifications, and adherence to IEC and ISO standards.
- Mounting Structure: KAPCO proposed the Trina Tracker Vanguard-1P, a single-axis
 tracker that has been deployed in over 5GW of projects globally. The structure, made from
 high-strength steel, ensures durability and resistance to outdoor conditions for at least 25
 years. The design complies with the RFP requirements, including high wind resistance and
 corrosion protection.
- Balance of Plant (BoP): The Balance of Plant components proposed by the bidder included high-quality systems that met industry standards. KAPCO demonstrated experience in managing large-scale installations and offered local technical support, facilitating timely maintenance and quick responses to operational issues, thus ensuring smoother, continuous operation throughout the system's lifespan.
- SCADA and Telecommunication System: KAPCO's proposed system meets RFP requirements of real-time data collection, including energy production, availability, and weather data, with secure communication channels for data transfer. The SCADA system ensures compliance with IEC 61850-7-420 standards and includes secure data transmission via firewalls and VPN, supporting visibility in the LDC control room with backup metering and protection relays.
- Civil Works: KAPCO's proposal meets the civil engineering requirements with designs for key facilities, including a control building, substation, and security fencing. It includes flood control measures, such as interception ditches and elevated substations, along with efficient drainage, cable routing, and minimal shading, ensuring long-term stability and operational efficiency.
- Corporate Social Responsibility (CSR): The bidder emphasized positive local impact through Corporate Social Responsibility (CSR) initiatives. The submitted plans included community engagement, local job creation, and environmental responsibility efforts... KAPCO aimed to involve local resources where possible, contributing to regional economic development and fostering community relations.

- Operations and Maintenance (O&M): The proposal outlined solid Operations and Maintenance (O&M) strategies to ensure high system reliability. These strategies were designed to maximize performance and longevity of the equipment, minimizing downtime and ensuring operational efficiency over the project lifecycle.
- Health, Safety, and Environment (HSE): The bidder committed to health, safety, and
 environmental measures as mentioned in the RFP, ensuring system reliability and safe
 operations throughout the project's life. The submitted plans were tailored to maintain
 safety standards and provide a secure working environment.
- Warranty & Execution: Comprehensive warranties have been provided by the bidder, covering key components to ensure long-term performance. The bidder also presented structured timelines for efficient project delivery, showcasing its capacity for timely execution.

3.5 Conclusion of Technical Evaluation Process

After detailed evaluation of the technical proposal submitted by the bidder KAPCO, it was concluded that it is compliant with the technical evaluation criteria outlined in the RFP. Detailed evaluation of KAPCO has been attached in Annexure E and its scoring is attached in Annexure G.(f)

Since, KAPCO was the only Bidder in the competitive bidding process, there was no dis-qualification of bidder under Regulation 23 (1)(e) of NEPPR.



4 Opening of Financial Bid

Pursuant to the legal opinion dated October 01, 2024 (attached as Annexure J), KE vide its letter no. BD/SQK/NEPRA/09/2024-1009 dated October 09, 2024, sought approval of the Authority for opening of the Financial Bid post completion of technical evaluation, pursuant to Regulation 12(i) of NEPPR, reproduced hereunder:

"the competitive auction will have at least two qualified bidders, where any bidder shall not have commercial interest in any of the other bidders:

Provided that in special circumstances and exigency, subject to approval of the Authority, the Independent Auction Administrator or supplier of last resort conducting the competitive auction, as the case may be, may accept the bid of a single qualified bidder, if the said bid does not exceed the benchmark tariff;"

In response, NEPRA instructed KE to follow the regulations in this regard. Consequently, KE proceeded with opening the financial bid of KAPCO on 25th November 2024.



5 Financial Evaluation

The financial evaluation for the **Project** was conducted with strict adherence to the guidelines set out in the **Request for Proposal (RFP)** issued by K-Electric (KE). The RFP outlined mandatory financial requirements, evaluation metrics, and compliance criteria, ensuring a structured, transparent, and competitive bidding process. The details of financial bid submitted by KAPCO in accordance with Regulation 23(1)(c) are mentioned below.

5.1 RFP Financial Submission Requirements

According to the RFP, bidders were required to submit detailed financial proposals that also included a single bid tariff. The RFP specified that each bid must include:

- **Proposed Tariff Structure**: Bidders needed to provide a clear and comprehensive tariff proposal (PKR/kWh), which would be the primary basis of financial evaluation.
- Applicability of Macroeconomic Factors: As per RFP instructions, all the bids were required to be made in by considering the same macroeconomic factors to facilitate a standardized comparison.

5.2 Bid Opening Process

The financial bid opening took place on 25th November 2024 at the KE Head Office in Karachi. In strict compliance with the RFP's requirements, a sealed financial proposal from **KAPCO** was presented, ensuring confidentiality until the designated time. Representatives of KE, the bidder, the independent consultant, and AEC members were also present to monitor the bid opening.

5.3 Financial Proposal Details and RFP Compliance

The financial proposals were assessed based on key metrics defined in the RFP, primarily focusing on the proposed tariffs and compliance with KE's financial guidelines for project viability. The results of the financial bid were as follows:

Table 6: Proposed Bid Tariff by KAPCO

Applicant Name	Proposed Bid Tariff (PKR/kWh)	(Čents/kWh)
КАРСО	9.8319	3,4061

KAPCO proposed a tariff of 9.8319 PKR/kWh (or 3.4061 cents/kWh), meeting the RFP's financial criterion for cost-effectiveness.

5.4 Outcome and Justification

As evident from above and in line with the RFP's financial evaluation criteria, **KAPCO** achieved the evaluated tariff of **9.8319 PKR/kWh** (3.4061 USc. /kWh). KAPCO's subraission met all mandatory technical, commercial and legal requirements, making it the frontrunner in terms of both compliance and affordability.

3



6 Prudency Assessment and Justification of Single Bid

As required by NEPRA in the RFP approval, KE has performed a prudency check on the bid based on the prevailing equipment cost, market conditions and funding costs. Moreover, analysis for displacement of expensive fuel have also been done as per IGCEP and PAP.

6.1 Prudency of Bid Tariff

KE has performed an analysis of the submitted tariff based on its assessment of the prevailing EPC cost of the Project and the prevailing market conditions. The key assumptions and results of the above analysis are as follows:

Table 7: Financial Assumptions

Table 7: Financial Assumptions			
1 Parameter	Assumptions		
Exchange Rate	288.65		
SOFR + Spread	5.37% + 4.25%		
Foreign Debt Tenor	15 Years		
KIBOR + Spread	21.28% + 2.5%		
Local Debt Tenor	15 Years		
Capacity Factor	23.15%		
Debt: Equity Ratio	75:25		
Foreign: Local Loan Ratio	. 80:20		
Return on Equity	15%		
IRR ¹	13%		
EPC Cost per MW ²	USD 0.467 Mn		

Table 8: Estimated bid Tariff

Bid Tariff up	on KE independent assessment
P75 (CF 23.60%)	Rs. 11.5587/ kWh (USc. 4.0044/ kWh)
P90 (CF 23.15%)	Rs. 11.7854/ kWh (USc. 4.0829/ kWh)
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¹ The presented IRR does not consider variation in macroeconomic factors which may further reduce the IRR.

² The GIS, Power Transformer, and related switchyard equipment are based on the radial interconnection from the project to the Surjani Grid Station, with a busbar rating of 2500A and a short circuit level of 40kA. If the interconnection scheme changes to a loop-in loop-out arrangement from the Surjani-Baldia circuit, the busbar rating will need to increase to at least 4000A, and the short circuit level will need to be at least 50kA.

6.2 Displacement Cost Analysis³

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The induction of the Project in KE fleet is expected to bring savings in both national system and KE grid due to replacement of expensive generation in National Grid and KE fleet with renewable power from the Project. Based on KE estimate, the Project will bring following cost and forex savings:

Table 9: Project Savings

Parameters Annual savings Project life savings				
Energy Cost Savings - PKR	1,665.6 Mn	41,640 Mn		
Forex Savings - USD	13.60 Mn	340.09 Mn		

The above savings are indicative only and have been computed based on certain assumptions including but not limited to the hourly demand profile, availability of supply from National Grid (assumed at 1,700 MW for the analysis), fuel prices, marginal cost of National Grid, technical constraints etc.

³ Savings due to displacement of imported fuel has been worked out using prevalent fuel cost considering horizon of 7 years, which have then been prorated over entire Project Life. The amount for energy cost savings has been computed after adjusting the cost impact of any part load operations.



7 Outcome of Competitive Bidding Process

Pursuant to NEPRA Decision of the RFP dated 29 February 2024, the bidder offering the lowest tariff is required to be awarded the Project and declared as successful bidder.

As the only bid received from KAPCO complies with the bidding documents in accordance with Regulation 23 (1)(b) of the NEPPR and is meeting the requirements set out in RFP Decision with respect to Prudency Check by KE, therefore the competitive process is deemed successful.

7.1 Evaluation by AEC

The entire competitive process was overseen by AEC in order to ensure that the evaluation process for this Project has been conducted with utmost transparency, clarity, and precision.

Based on review of technical and financial evaluations submitted by KAPCO for the Project, AEC has approved KAPCO as the Successful Bidder, subject to approval of NEPRA.

No member of AEC has any observation on the competitive process in accordance with powers conferred under Regulation 23 (1)(i) of NEPPR.

7.2 Justification for Single Bid

While KE has received single bid for the Project, it believes that the same may be accepted and KAPCO should be declared as Successful Bidder due to the following reasons:

- The submitted bid meets the Prudency Check as demonstrated in Section 6.1 of this AER.
- The Project is expected to bring in cost savings through displacement of expensive fuel as demonstrated in Section 6.2 of this AER.
- The Bid received for Deh Halkani is also equal to the lowest Bid Tariff received from in Deh Metha Ghar, where JCM also participated in the bidding process along with KAPCO.



8 Conclusion

Based on the technical and financial evaluation for the Project, along with the prudency check, the AEC confirms that KAPCO being the only qualified bidder for this project has submitted its Tariff proposal that is competitive and fair although being a single bid.

Furthermore, based on the justification provided in Section 7.2 above, AEC recommends M/s ... KAPCO as the Successful Bidder in accordance with NEPRA Decision of RFP and Regulation 23(1)(g) & 23(1)(h) of NEPPR, subject to the Honourable NEPRA Authority's decision.

We respectfully request that the Honourable NEPRA Authority approve this Auction Evaluation Report and officially declare M/s KAPCO as the Successful Bidder in accordance with the NEPPR and NEPRA Decision of RFP.



Signatories:

AN ENGLISH STANDARD PERSONAL STREET	errenante d'anni parez antiche	
Mudassir Zuberi	K-Electric Limited (KE)	mes (2)
Ayesha Akhtar	K-Electric Limited (KE)	Yor Mile
Muhammad Faizan Pasha	K-Electric Limited (KE)	10 10 10 2 1 2 M
Syed Irfan Ali Shah	K-Electric Limited (KE)	MA 06/12/2005
Jasim Hasan	K-Electric Emited (KE)	Jula.
Mehfooz Ahmed Qazi	Sindh Solar Energy Project	Shirt State of the
Khurshid AJamali	Government of Sindh	Africal: Dec 6, 2024
Arif Mateen Ansari	Independent Member	At John
Samir Ahmad	Independent Member	
		EM 1 1 1 44 791 4 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1



9 Annexures

Annexure A: Compliance with NEPPR

The Table 10 below, shows the compliance of this AER with Section 23 of the NEPPR regulations.

Carte of the real part of the	Table 10: Annex A: Overview of Compliance	e of AER with N	EPPR regulations
Regulation	្ត្រៃ Information/documents Required ្រ	Compliance	Reference 🔑 💎
23(1)(a)	Brief of the competitive auction process followed, demonstrating compliance with these regulations;	Yes	Refer Section 1 of AER: Overview of the Bidding Process
23(1)(b)	Statement regarding compliance with the bidding documents	Yes	Refer Section 7 of AER: Outcome of Competitive Bidding Process
23(1)(c)	Details of all bidders clearly identifying the qualified bidders	Yęs	Refer Section 3: Knock-Off Criteria and Technical Evaluation and Section 5: Financial Evaluation of AER.
23(1)(d)	Description of bidders declared not qualified, and the justification for each disqualification	Yes	Refer Section 1.2 of AER: Pre- Qualification Process
23(1)(e)	Identification and description of rejected bids, and the justification for each rejection	Yes	Refer Section 3.5 of AER: Conclusion of Technical Evaluation Process
23(1)(f)	Details of all valid (responsive) bids	Yes	Refer Section 3.4 of AER: Technical Bid Evaluation
.23(1)(g)	Results of the evaluation methodology for the lowest combined electric power procurement cost, subject to requirements in the RFP, and whether the auction is considered successful, or deemed null and void along with justification	Yes	Pursuant to NEPRA Decision of the RFP dated 29 February 2024, the bid with the lowest tariff (in this case KAPCO) has been considered successful, subject to approval of the Authority.
23(1)(h)	If the auction was successful, list of all the awarded bidders, including details of all the bids, and information on allocation of quantities and prices to be awarded in the power purchase agreement of each successful bidder with each supplier of last resort	Yes	Refer to Section 8 of AER: Conclusion for further details. KE invited bids for the Project as one parcel of 120 MW solar project at Deh Halkani. Consequently, KAPCO has offered the lowest bid tariff and the same is submitted as the successful bidder to NEPRA for award of contract. Refer to Section 8 of AER: Conclusion for further details.
23(1)(i)	Any observation by a member of the auction and evaluation committee	Yes	This AER is signed by all members of the AEC.



Reference no. BD/MZ/NEPRA-1066/2024-1206 June 12, 2024

Registrar,

National Electric Power Regulatory Authority ("NEPRA")

NEPRA Tower,

Attaturk Avenue (East).

G-5/1

Islamabad i

Subject:

Prequalification of New Applicants and Invitation to Bid for the (i) 120 MW solar project at Deh Halkani, District West and (ii) 150 MW solar project at Deh Metha Ghar, District Malir ("Projects")

Dear Sir,

We write this with reference to NEPRA's decision in the matter of Request for Proposal for the Projects dated 29 February 2024 having reference number NEPRA/Advisor(CTBCM)/RFP-14/3103-3107 & NEPRA/Advisor(CTBCM)/RFP-13/3109-13 ("RFP Decision") wherein the Authority directed K-Electric ("KE") to conduct the prequalification process again, excluding the bidders who have already been prequalified.

In this regard, KE is pleased to apprise the Authority that it has concluded the prequalification process of the Projects (details of new Applicants and consolidated list of prequalified parties is attached as Annexure A).

Moreover, KE would also like to apprise the Authority that upon completion of the prequalification process, KE has issued the RFP to prequalified applicants on 3rd June 2024 having a bid submission deadline of August 15th, 2024. The relevant project documents are available for download at the below proyided link:

https://www.ke.com.pk/our-business/tenders/project-procurement/#renewable_project

Sincerely

Mudassir Zuberi

Head of Business Development



Annexure A

List of New Applicants

S. No.	Applicant Name	Applied For	Status
1	Atlas Power Limited	120 MW - District West	Qualified
2	Kot Addu Power Company Limited (KAPCO)	Both Projects	Qualified
3	Kohinoor Energy Limited	Both Projects	Disqualified

Consolidated List of Prequalified Applicants

S. No.	Name of Applicant	No. of Sites Qualified
1.	Gul Ahmed Energy Limited	District West
2.	Metro Energy Group	District Malir
3.	Atlas Power Limited	Both sites
4.	HUB Power Company Limited	' Both sites
5.	Zahir Khan & Brothers (ZKB) & Kalyoninsaat Sanayi veTicaret A.S	Both sites
6.	JCM Power Corporation & Burj Energy International Management Limited ¹	Both sites
7.	Liberty Mills Limited	Both sites
8.	Engro Energy Limited	Both sites
9.	Lucky Cement Limited	Both sites
10.	Sapphire Textile Mills Limited	Both sites
11.	Sapphire Electric Company Ltd & Sapphire Fibres Limited	District Malir
12.	Orient Power Company (Private) Limited, Oursun Pakistan Limited & Shams Power Company	District West
13.	Novatex	District Malir
14.	Artistic Milliners (Pvt.) Ltd.	Both sites
15.	Sardar Muhammad Ashraf D. Baluch (Pvt) Limited Xinrong Construction Engineering (SMC-Private) Limited	Both sites
16.	Ib VOGT Group	Both sites
17.	Kot Addu Power Company Limited	Both sites

¹ Conditionally Qualified



Consolidated Clarification Document of 120MW Deh Halkani and 150MW Deh Metha Ghar Bidding Process

The responses are as shared with prospective bidders on the clarifications sought; any change in responses is issued as Amendment and Corrigendum on KE Website and on Ariba.

We have now concluded the clarification process of Deh Halkani and Deh Metha Ghar bidding process.

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S, No.	Reference / Clause	Clarifications Sought A	KE Response
1.	1.0 Invitation to Bid	Same is mentioned in section 5.2 of RFP as "The Project site"	Project site area is 600 acres
	,	spans across 727 acres of land". Please clarify project site	
		land area 600 acres or 727 acres. (Deh Mitha Ghar)	
2.	8.10	Will it be mandatory or optional for 06 months extended BID	Extension in Bid bond validity will only be requested in case the
	Bid Validity	validity in addition to 08 months BID validity.	process is delayed due to reasons beyond control of KE and in
			such a case, each applicant will be regulred to extend its bid
			validity and bid bond if it intends to continue participating in the
	•	1	bidding process.
	•		
3.	12.1.1.8	EPA Schedule for Commissioning and Performance test is not	EPA Schedules will be shared with the successful bidden
	Performance Tests	provided. Please provide EPA Schedules e.g. Schedule, 5, 7 for	
		inclusion in EPC scope.	
	·		
	12.1.1.10		
4.	12.1.1.10		Panels: considered for the Project should be fier 1 as
	Electrical Design/ PV Module		determined by BNEF, and the Original Edulpment
}		submission and is excluded in next Quarter. Please clarify.	Manufacturer (OEM) must be listed on the BNEF Tier1 list at the
	•		time of bid submission. Tier-2 or above shall be disqualified
			without any assessment; Bidder shall select the technology of
			panel considering the site/area condition. In the event that the
Ì			iselected OEM loses its
			BNEF Tier-1 status after the bides awarded or due to any other
			reason in which the bidder may not be raple to procure panels
			from the selected OEM, the bidder shall bropose an alternative
	,		OEM from the latest available BNEF Tier-1 list with the prior written consent of KE
1			The cinculting has the TEM will not wished have been assessed as
			The substitution of the OEM will not under any circumstances, impact the submitted proposed tariff."
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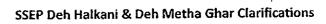
	, P	
12.1.1.10 ; Electrical Design/Power Inverters	Extended inverter warranty is offered with additional cost so confirm extended warranty required or not as tariff is to be submitted final without any condition.	
12.1.1.10 Electrical Design/Power Inverters	Is there any starting time requirement for the inverter e.g. 03 minutes.	Bidder to comply with requirements stipulated in RFP.
12.1.1.10 Electrical Design/Terminal points	Please indicate site boundary or direction on the map for the transmission line entry to the site so that 220 KV GIS position and overall layout is optimized for the PV Project.	Transmission Line is yet to be constructed for the evacuation of power from these projects. Hence, this will be discussed with the successful bidder. Bidders have to provide a draft layout as of now.
12.1.1.10 Power Transformer and Switchyard Equipment	What if it is ONAF	Refer Corrigendum # 02
Exhibit 10: Technical Information	Please explain the term Generator used herein	Please consider this as an inverter.
Exhibit 16: Bid Evaluation Criteria	Please share details for Technical Evaluation Criteria and submission of documents for the same	Technical Evaluation Criteria is explained in the RFP Exhibit 16, and Bid Proposal, should also be in this sequence, while submission of documents is explained in the RFP Section 12.
1. DEFINITIONS; INTERPRETATION	EPA Schedule not provided. Please provide EPA Schedule 2 and 5 for inclusion in EPC scope.	EPA Schedules will be shared with the successful bidder. (EPA Schedules will be shared with the successful bidder.
	12.1.1.10 Electrical Design/Power Inverters 12.1.1.10 Electrical Design/Terminal points 12.1.1.10 Power Transformer and Switchyard Equipment Exhibit 10: Technical Information Exhibit 16: Bid Evaluation Criteria 1.	confirm extended warranty required or not as tariff is to be submitted final without any condition. 12.1.1.10 Electrical Design/Power Inverters 12.1.1.10 Electrical Design/Terminal points Electrical Design/Terminal points 12.1.1.10 Please indicate site boundary or direction on the map for the transmission line entry to the site so that 220 KV GIS position and overall layout is optimized for the PV Project. 12.1.1.10 Power Transformer and Switchyard Equipment Exhibit 10: Technical Information Please explain the term Generator used herein Exhibit 16: Bid Evaluation Criteria Please share details for Technical Evaluation Criteria and submission of documents for the same 1. EPA Schedule not provided. Please provide EPA Schedule 2



SSEP Deh Halkani & Deh Metha Ghar Clarifications

	·		
12.	1. DEFINITIONS; INTERPRETATION	Please provide schedule 3 and clarify transmission lines herein.	
13.	2.2 TERM	Seems not relevant as project will be on BOOT basis i.e. to be transferred to GOS after expiry of EPA term as described in RFP (Invitation to BID)	Extensions of EPA term as provided under the EPA will be applicable and transfer of project will only be made once EPA term (including all extensions) have been completed. However, any extension beyond the contractual period will be made with the respective Owner of the Project (as this project is under BOOT arrangement).
14.	7.2, 7.3 INSTALLATION, TESTING OF METERING SYSTEM	Usually cost of backup metering and its testing cost is borne by the Seller. Hence, main metering and its testing should be in account of Purchaser	The requirement has been included in accordance with Grid
15.	7.3 TESTING OF METERING SYSTEM	It should be the Purchaser to bear additional tests cost for main metering if it proves to be inaccurate by more than one-fifth of one percent (0.2%)	Bidder to comply with requirements stipulated in RFP.
16.	7.7 PROTECTIVE DEVICES AND TELECOMMUNICATIONS CIRCUIT	Provide EPA Schedule 3.	EPA Schedules will be shared with the successful bidder.
	<u> </u>		Commence of the control of the state of the

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17.	8.1	30 days provision for the delay in account of Purchaser is	Refer Updated EPA circulated by KE, the said provision is part of
•	TESTING PROGRAMME	unusual and should be eliminated.	standard terms of all EPAs.
		· ·	
		a la la EDA de la la la la la la la NEDDA cont	
18.	General	1. In the EPA, where the nonpayment is due to NEPRA not permitting the same to the Purchaser should result in	inhe said proposals are not acceptable to KE. Applicant is
		extension of the relevant agreement year and EPA term	requested to provide its acceptance to the amended EPA as
		accordingly.	redurred under Exhibit 8 of the RFR
19.	Definitions	2. Once EPA is approved by NEPRA then the Carrying Cost	
		should not be subject to change by NEPRA.	
		3. The clause (b) of Change in Law is applicable from date of Agreement instead of date of bid submission	
		4. The earliest time period for the COD should at least be	
		90 days and not 15 days prior to RCOD.	Refer Amended EPA circulated by XE
		5. The delayed Payment rate needs to incorporate the	
		spread of 3% in the event of purchaser EOD in section	Other recommendations as highlighted are not acceptable to KE
		16.	and the Applicant is requested to provide its acceptance to the
			amended EPA as required under Exhibit 8 of the RFP
		please explain rationale for hiring third party service provided for Hybrid Forecast model, together with	
		qualifying criteria for the same.	
		7. Ordinary Share Capital now includes Purchaser also, the	
		reference to the Purchaser should be deleted.	
		8. The SOFR should be based on agreement with the	隐藏的是对外,但是是一种的一种的一种的一种的一种的一种的一种的一种的一种的一种的一种的一种的一种的一
		Lenders.	The state of the s

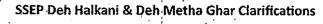
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	<u> </u>		
	. •	9. Agreement Year gets extended on account of OFME	
		event declared by Seller during such Agreement Year,	- Na Principal Control of the Contro
		where Seller was unable to generate net delivered	
		energy due to such OFME. However, If net delivered	,我们就是我们的,我们就是一个一个一个一个一个一个一个一个一个一个一个一个一个一个一个一个一个一个一个
ŀ		energy is partially affected, then the extension should be	
		prorated. Current definition does not make that	
		distinction.	
20.	2.2- Term	1. Clause 2.2(e) allows extension of term in the event	
		NEPRA does not permit PE Compensation as pass	Refer Amended EPA circulated by KE
1		through. The disallowance by NEPRA of any pass	Interest America and Charles of Review of the Control of the Contr
		through item(s) should result in term extension.	
j . 21.	2.9 (b) Specification of Contract	The shortfall in contract capacity attracts LD's under this	
	capacity	section of up to less than or equal to 5% of the Contract	
		Capacity. This concept has been changed from reduction in	
		installed capacity to variation installed capacity and further	
		LD's are applicable on first 5% reduction capacity instead of	The said proposals are not acceptable to KE Applicant is
		reduction from 5% to 10%. Furthermore, a condition has	requested to provide its acceptance to the amended EPA as
			required under Exhibit 8 of the REP
		variation.	
		Furthermore, the rate of LD's has also increased from 350 K	
		/MW to 400 K /MW, specially when the exchange rate has	
33	5.2 (1)	significantly changed.	
22.	5.3 (b)	The revision of forecast of net delivered energy should	
		not be restricted orice only. It should be between 5 and	Refer Amended EPA circulated by KE
	1 1 : :	2 hours prior to the relevant hour without restriction of	
12	C 4 (a)	one revision only.	aThe said proposals are hot acceptable to KE Applicant is
23.	5.4 (c)	The acceptance of the Net, Delivered Energy due to	requested to provide its acceptance to the amended EPA as
	[thange in the availability of Arrays should not be at	Prequired under Exhibit 8 of the RFP
24	CE	purchaser sole discretion.	
.24.	6.5	Clause 6.5 (iv), reference of the same in proviso and in	
ļ.,,,		(b) should be deleted as any event beyond	
		# 1 - 1 West - 4 (c. 1. 10) Mill (c. 10) Mill (c. 15) (c. 15) (c. 15)	NT SHIP BEETH



	4	
		Purchaser's control that affect its performance is
	1	covered under the Force Majeure section.
25.	6.5 (c)	The spread on treated loan representing on principal of
		purchaser carries interest rate K+3%. Given that this
		payment is owing to Purchaser default therefore there
		should not be nay delayed payment on such loan.
		Furthermore the spread should not exceed 2% i.e. same
		spread allowed to seller.
26.	8.1	1. (b) (1) The time period for to defer the
		commissioning test by Purchaser should not
		exceed 7 days from existing 30 days in draft EPA.
		2. (b) - (5)- Given that this payment is owing to
		Purchaser default therefore there should not be
		any delayed payment on such loan. The loan
		amount is to be adjusted at the rate of 20% of
		the Energy prices from the monthly energy
		payments, this %age needs to be renegotiated
		later.
27.	9.3 (b)	The delay LD's are USD. 4 per KW of contract capacity
İ	i	this should not be more than 2.5 KW of the Contact
} {	·	capacity given that the exchange rate has considerably
		increased.
28.	9.4 (h)	The Disallowance under the determined by the NEPRA
		should result in extension of term of EPA.
29.	9.5(d)	The USD obligation cannot carry interest at KIBOR
		especially when the purchaser is protected for any
		exchange rate movement. This has to be based on SOFR.
30.	9.8	1. The Escrow Arrangement being in place is subject to
		all Consent being timely obtained. All Consents,
		especially Purchaser Consents should not be an Please refer to detailed clarification document on Escre-
		exception for Escrow Arrangement. [Arrangement.]
	·	2. Escrow Arrangement should secure all payments
		under the EPA and not just the Energy Payments.





		3. Please confirm that the rights of the project lenders
		would be Pari passu with those of KE's existing
		lenders having rights over collections/escrow
		arrangement.
31.	13.1 (k)	The EPA amendment aspect is covered under clause 19.2
		and should be deleted from here.
32.	14.4 (a) (i)	In the event of NEPRA not permitting an item to be pass
		through, then it should result in extension of term.
33.	15.6 (a) (ii)	The monitory cap in this clause should be USD. 1 million
		instead of USD. 750 K
34.	15.6 (iii) (a)	1. The PE Compensation should be based on the average
		daily energy adjusted for ambient site conditions.
ļ		Furthermore, there should not be any % age reduction
		from such payment.
		2. If NEPRA rejects such payment, there should be Term
		extension. Quer recommendations as highlighted are not acceptable to KE
35.	15.6	In the event of termination under 15.9, all amounts and the Applicant is requested to provide its acceptance to the
		payable under 15.6(b) should be paid to Seller no later famended EPA as required under Exhibit storthe BEP
		than the day compensation amounts determined in
*		accordance with Section 15.9.
36.	15.6 (i)	The PE Compensation should be based on the average
		daily energy adjusted for ambient site conditions.
•		Furthermore, there should not be any % age reduction
,		from such payment.
37.	15.6 (k)	Reference to CLFME needs to be excluded.
38.	15.6 (k)	1. The right for suspension and termination under this
·		section should be with the Seller only. The Party not
		affected by force majeure should not have the right of
		suspension or termination.
		2. Non-payment after 180 days on account of
		PPFME/CLFME, should be deleted.
<u> </u>		

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39.	15.6 (A)	1 1	The right for suspension under this section should be with the Seller only. The Party not affected by force	:PN 2014 - A A P - A A A A C C - A A A A A A C C C C C C
		į	· · · · · · · · · · · · · · · · · · ·	一把表表的解释的一点"是不不一个一致好有效的一个数据像的事故,还没有一定的数据的一种人的实验的一个故事,不知一个实际,也不是一个
		1	majeure should not have the right of suspension or	
			termination.	
		2	t. It should be clarified that any extension on account of	一种能够起来,我们也没有一点,我们也没有一个人,不是一个人,不是我们的人,我们就是我们的人,我们就是我们的人,我们就是我们的人,不是我们的人,我们的人们的人,我
1			FME Suspension Period shall be in addition to extension	
			for PPFME or CLFME under 2.2(b).	
		13	It should be clarified that prior obligations to suspension	
		<u> </u>	to remain intact.	
40.	16.1 (a) (i) (ii) (iii) Seller EOD	, ,	i) The period of should be 90 Days.	
ļ		, ,	ii) The period should be 365 Days.	
		<u> </u>	iii) The period should be 45 Days.	
3			1	
41.	16.1 (m)	1	he contract capacity reduction cap should be 10% instead	
		. 0	of 5%.	
42.	16.3		. In case of Seller EOD' under 16.1(i) [Gen license	
			cancellation], cure period should be 365 days and not 5	
			Business Days.	
		2	. In case of EOD under 16.1(e) and 16.2(c) [Dissolution or	
<u> </u>			winding up], the cure period should be 365 days and not	
			90 days.	THE CONTRACTOR OF THE PARTY OF
}		13	I. In case of EOD under 16.1(f) [Rep or Warranty], the cure	
	,	ĺ	period should be 365 days and not 90 days.	
43.	16.3A	1	. Scope of seiler other defaults has been enhanced.	
	Consequences of Seller EOD	2	. In the event, of seller other default is not cured within	
	ь		365 days, the purchaser may elect to suspend the	
	·	į	Agreement for total of 5 years. During suspension all	
	'	[.	obligations of parties remain suspended. Beyond 5	
		}	years, the termination of EPA kicks in. This needs to be	
		İ	deleted.	
		3	3. If purchaser elects not to suspend EPA, then it should	A THE RESIDENCE OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERT
			pay full tariff instead of certain %age tariff for delivered	"我们是我们的,我们就是我们的,我们就是我们的,我们就是我们的我们的,我们就没有一个人的。""我们的,我们就是我们的,我们就是我们的,我们就是我们的,我们就是我
 :	ľ	- 1	kWh.	用的一种,这种人们的一种,这种人们的一种人们的一种人们的一种人们的一种人们的一种人们的一种人们的一种人们的一
L	· · · · · · · · · · · · · · · · · · ·			Address Address Address Address Address Address Address Address Address Address Address Address Address Address Address Address Address Address Address Address Address Address Address Address Address Address Address Address Address Address Address Address Address Address Address Address Address Address Address Address Address Address Address Address Address Address Address Address Address Address Address Address Address Address Address Address Address Address Address Address Address Address Address Address Address Address Address Address Address Address Address Address Address Address Address Address Address Address Address Address Address Address Address Address Address Address Address Address Address Address Address Address Address Address Address Address Address Address Address Address Address Address Address Address Address Address Address Address Address Address Address Address Address Address Address Address Address Address Address Address Address Address Address Address Address Address Address Address Address Address Address Address Address Address Address Address Address Address Address Address Address Address Address Address Address Address Address Address Address Address Address Address Address Address Address Address Address Address Address Address Address Address Address Address Address Address Address Address Address Address Address Address Address Address Address Address Address Address Address Address Address Address Address Address Address Address Address Address Address Address Address Address Address Address Address Address Address Address Address Address Address Address Address Address Address Address Address Address Address Address Address Address Address Address Address Address Address Address Address Address Address Address Address Address Address Address Address Address Address Address Address Address Address Address Address Address Address Address Address Address Address Address Address Address Address Address Address Address Address Address Address Address Address Address Address Addres





4. Seller other default should include only the failure of Seller to deliver energy over 12 months period being less than 50% of contract capacity. 5. The suspension right is available either after lapse of time under 16.3 or lapse of time under 16.3A(a) and this makes the period of 365 days redundant.	
than 50% of contract capacity. 5. The suspension right is available either after lapse of time under 16.3 or lapse of time under 16.3A(a) and this	
5. The suspension right is available either after lapse of time under 16.3 or lapse of time under 16.3A(a) and this	
time under 16.3 or lapse of time under 16.3A(a) and this	
makes the period of 365 days redundant.	ا بو با با ا
上,一直就是一个一个一个一个一个一个一个一个一个一个一个一个一个一个一个一个一个一个一个	
6. The reference to Seller Event of Default in 16.3A(d)	
should instead be Seller Other Default.	Marie Marie Comment
7. The payment under 16.3(A)(e) should also cover	
payment for NPMV and DP. The payment for net	
delivered energy should be without any % reduction.	5.45.
44. 16.3B 1. Purchaser major default should include default under	
Consequences of Purchaser EOD 16.2(b).	
2. If purchaser EOD continues for more than 3 years during	
the term, then termination right kicks in, for either party, with mutual, consent. In case of Purchaser EOD,	
Purchaser should not have any termination right.	
3. The term should get extended equivalent to purchaser	
major default and/or seller suspension period.	
4. During Seller Suspension Period, obligation of the	
Purchaser to take delivery of net delivered energy and	
pay for same cannot be suspended.	
5. In 16.3B(a), references should, instead of Energy	
Payment be to Energy Price and instead of Average Daily	
Energy, should be forecasted energy at ambient	
conditions.	
45. 18.3 (b) The words "Karachi Pakistan" appearing for the second time Please note that Karachi, Pakistan is mentione	ed twice in clause
needs to be deleted.	
(seat and venue of arbitration to be Karachi) Pa	
United Kingdom: Additionally that is a second of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of th	
Party requires arbitration in London for a Dis	
the specified amount, they must cover all inc	





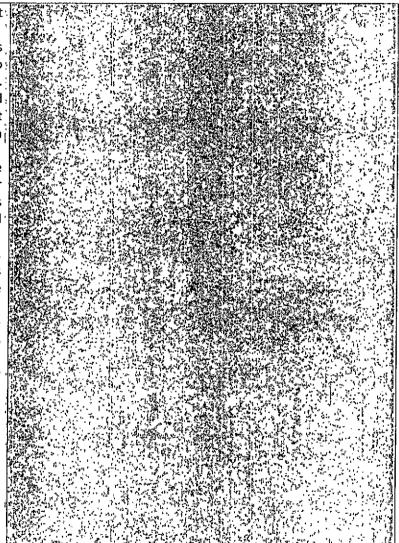
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			costs for the other Party. Therefore, we understand there is no heed to delete Karachi, Pakistan in this clause
46. 47.	General	GIS data would allow us to conduct a more thorough assessment of the project's viability and optimize our bid proposal. This, in turn, would benefit both K Electric by potentially attracting a more competitive bid and us by ensuring a well-informed proposal.	The Solar GIS data for SSER Project has been shared with all participants. NERRA reserves the right to reject a successful bid if found imprudent. Pass through items have already been approved by NEPRA and
48.	General	Draft of escrow agreement needs to be provided to the	Pare outlined in the RFP document. Refer to clarifications specific to the Arrangement that has
		bidders for review especially by the lenders.	been shared on ARIBA on Stff Aug. 24
49.	General	There are numerous instances where existing projects are unable to remit dividends to foreign shareholders or to get forex for meeting operational needs. How will the situation be different for these projects and is KE prepared to bear the cost, for similar delays?.	KE is not participating in the Projects as an Equity partner and will only act as Power Purchaser.
50.	Section 7 of RFP Land	 a) KE has so far been engaged with GoS regarding Land Lease. Therefore KE's continued involvement would be required until execution of Lease Agreement between SSEP and Bidder. a) Please share copy of the Statement of Conditions 2015 issued on 11 June 2015, pursuant to which SRECL has procured the land from GoS. 	The Land Lease Agreement Which has been shared is the standard draft of GoS. Further with respect to Land acquisition issues please refer to KE Ariba correspondence for revised Land coordinates.

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- b) The delayed payment rate as per clause 3.5 should not be more than what is provided in the draft EPA.
- c) As per clause 4.2 the Site Lease Agreement becomes void ab initio and of no legal effect, if bidder fails to achieve the project milestones as per Lol issued by KE. The automatic termination of lease should be linked with EPA termination prior to COD and not project milestones. For project milestones, there can be certain delays because of third parties (NEPRA or lenders).
- d) Clause 4.4 refers to termination of lease in accordance with clause 4.1. However, there is no termination under clause 4.1. Furthermore the Site Lease Agreement needs to specifically state that the same is non-terminable until the expiry of EPA.
- e) In the event of dispute under Site Lease Agreement, instead of Senior Member Board of Revenue, GoS or his nominee, the final arbitral_authority should be independent third party.
- f) It is the responsibility of SSEP and KE to ensure the possession of the full 612 acres and uninterrupted access to the land. We have observed few issues at sites which are provided below and the pictures of the below mentioned issues are also pasted at the end of this document.
- 1. Local Houses are constructed within the demarked land.
- 2. Plots Demarcations with boundary are within the allocated land.
- 3: Two Mosques constructed within the allocated land.
- 4. Graveyards and graves at different locations are within the allocated land.
- Bounded plot and building on the property line near the highway.



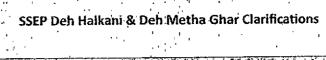




		 g) Roads running through the property going to houses outside the property line. 1. APL Pipeline Marker and Pipe line route (Confirmation Required) 2. Precast Boundary wall freshly constructed. 	
51.	Section 8.3 & 9.2 of RFP Communications and Bid Submission Requirements	 (a) While the Bidders will be submitting both the Technical and Tariff Proposal on ARIBA also, how the confidentiality of the financial part of bid will be ensured on ARIBA? (b) What will be the procedure of opening of Financial Bids? (c) There is no requirement of uploading password protected file in the folder. 	a) ARIBA is a global procurement software which ensures that the financial bid of applicant remains confidential until the technical proposal is evaluated; and technically qualified bidders are announced. (b) Explained in RFP, section 8 of the document (c) Considering the confidentiality of Applicant submission as mentioned in Point (a) above there is not need for password protected file
52.	Section 8.1 of RFP Project milestones-	If there is a delay in the project milestones that are beyond the reasonable control of bidder, will the dates mentioned in the milestones extend accordingly?	If there are any such delays it will be evaluated by kE at such point of time:
53.	Section 16.1.2 footnote Pass through items	In the event of payment of interest to foreign lenders is liable to withholding tax deduction Then Please confirm this would be treated as pass through as the same cannot be accounted for in bid tariff as SOFR is not known today.? Also confirm that any change in withholding rate would also be a passthrough?	NEPRA reserves, the right to reject a successful bid if found imprudent. Plass-through items have already been approved by NEPRA and are outlined in the REP document.
54.	Section 16.1.2 footnote Pass through items	The dividend withholding tax is not a pass through. However, if rate of withholding tax on dividend is increased from the current rate, then it should be treated as passthrough. Please confirm.	Pass-through Items have already been approved by NEPRA and are outlined in the RFP document.
55.	EPA- LDs for delay in COD	We understand that EPA contain LDs for delay in COD. Please confirm that such delay shall be excused if caused by third parties and is beyond the reasonable control of bidder.	The LDs will be applicable in accordance with the updated EPA, shared by KE.



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56.	Minimum Capacity factor required is 21.5%	If Bidder achieves higher ACTUAL capacity factor during the Term of the EPA, the same rate will continue to apply on the excess generation, without any sharing with KE, since this is not a "cost plus tariff"? Please confirm!	rne understanding is correct.
57.	Clause 13.3 (a) and (b) Pass through items	As per Clause 13.3 (a) and (b) of RFP, "Duties and/or taxes" and "duties, cess or taxes" not being of refundable nature and imposed on bidder are pass through. In this regard following clarification is required:	Pass-through items Have alteady been agoroyed by NEPRA and greeoutlined in the REP document
· · · · · · · · · · · · · · · · · · ·		 The term "duties" not defined in either RFP or draft EPA. The term taxes is defined in EPA but the term used in RFP is not referring to it since it is not capitalized. In light of this, please clarify, which of the following items would not be a pass through; Income tax at import stage? Sales tax at import stage? Custom duties (including additional custom duty 	
:		and/or regulatory duty) at import stage? d. Import surcharge at import stage? e. Sindh infrastructure cess at import stage? f. Port and clearing agent charges at import stage? g. Inland transportation?	
58.	12.1.1.4 Technical Life time Bidder shall ensure adequate redundancy to avoid single points of failure in the complex design.	RFP is not clear on this requirement. Ensuring redundancy on major equipment will increase cost significantly and the tariff.	Redundancies should be maintained as pet the Grid Code 2023.





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59.	12.1.1.4 (x) HSE The Bidder shall comply with Environment and Social Management Plan (ESMP) and World Bank EHS requirements necessary for implementation of renewable energy projects	If the world Bank conditions are adopted by Pakistan as binding in this instance, then such compliance would automatically fall within the provision of the overall compliance of Pakistani Laws. However, if such provision has not been adopted, please provide the exact nature and text of these conditions to be followed.	·根据的数据。 "我们们在一种",这个"特别"的对象,我们也能一点的。 "我看着我们就是这样的我们,这个我们也没有的,我们就是一种奇怪的话,"这一个一个一个一种
60.	12.1.1.6 (d) Services The Bidder shall prepare and submit to the Purchaser, Complex design, engineering and drawing packages for construction permitting, installation and "as-built" documentation.	The services section is not included in WBB and is specific in this RFP. Why is there a need to submit the complex design drawings to KE, when this is a bid project and the bidders are taking the total responsibility. Approvals of drawings and design will add time, and possibly delay, to the construction period.	Basic design of the Complex needs to be submitted at the time of Bid Submission Detailed design and drawings will be discussed at the time of Construction
61.	12.1.1.9	It states "Reactive Power Compensation". SVGs or SVCs are	BAS mentioned in the EPA Section 1.1. Reactive Power", Reactive
• .	Equipment Reactive Power Compensation	required or can we satisfy the requirements from inverter.	Power: Compensation must adhere to the Grid Gode 2023. This will particularly include clause CC6.3/2 of the Grid code, which stipulates the following: (A.SWE shall manage at the Connection Point the reactive power control to maintain the power factor within the range of 0.90 lagging to 0.95 leading, over the full range of operation, as per dispatch instructions and/or Voitage adjustments requirements within the above range of power factor.
62.	12.1.1.10 (b) 12.1.1.10 (b-i-i)	Please clarify the requirement of listing with specified insurers.	Refer Corrigendum # 02
	Electrical Design - PV modules		· 公司的 1994 · 1995 · 1995 · 1995 · 1995 · 1995 · 1995 · 1995 · 1995 · 1995 · 1995 · 1995 · 1995 · 1995 · 1995 · 1995 · 1995 · 1995 · 1995 · 1995 · 1995 · 1995 · 1995 · 1995 · 1995 · 1995 · 1995 · 1995 · 1995 · 1995 · 1995 · 1995 · 1995 · 1995 · 1995 · 1995 · 1995 · 1995 · 1995 · 1995 · 1995 · 1995 · 1995 · 1995 · 1995 · 1995 · 1995 · 1995 · 1995 · 1995 · 1995 · 1995 · 1995 · 1995 · 1995 · 1995 · 1995 · 1995 · 1995 · 1995 · 1995 · 1995 · 1995 · 1995 · 1995 · 1995 · 1995 · 1995 · 1995 · 1995 · 1995 · 1995 · 1995 · 1995 · 1995 · 1995 · 1995 · 1995 · 1995 · 1995 · 1995 · 1995 · 1995 · 1995 · 1995 · 1995 · 1995 · 1995 · 1995 · 1995 · 1995 · 1995 · 1995 · 1995 · 1995 · 1995 · 1995 · 1995 · 1995 · 1995 · 1995 · 1995 · 1995 · 1995 · 1995 · 1995 · 1995 · 1995 · 1995 · 1995 · 1995 · 1995 · 1995 · 1995 · 1995 · 1995 · 1995 · 1995 · 1995 · 1995 · 1995 · 1995 · 1995 · 1995 · 1995 · 1995 · 1995 · 1995 · 1995 · 1995 · 1995 · 1995 · 1995 · 1995 · 1995 · 1995 · 1995 · 1995 · 1995 · 1995 · 1995 · 1995 · 1995 · 1995 · 1995 · 1995 · 1995 · 1995 · 1995 · 1995 · 1995 · 1995 · 1995 · 1995 · 1995 · 1995 · 1995 · 1995 · 1995 · 1995 · 1995 · 1995 · 1995 · 1995 · 1995 · 1995 · 1995 · 1995 · 1995 · 1995 · 1995 · 1995 · 1995 · 1995 · 1995 · 1995 · 1995 · 1995 · 1995 · 1995 · 1995 · 1995 · 1995 · 1995 · 1995 · 1995 · 1995 · 1995 · 1995 · 1995 · 1995 · 1995 · 1995 · 1995 · 1995 · 1995 · 1995 · 1995 · 1995 · 1995 · 1995 · 1995 · 1995 · 1995 · 1995 · 1995 · 1995 · 1995 · 1995 · 1995 · 1995 · 1995 · 1995 · 1995 · 1995 · 1995 · 1995 · 1995 · 1995 · 1995 · 1995 · 1995 · 1995 · 1995 · 1995 · 1995 · 1995 · 1995 · 1995 · 1995 · 1995 · 1995 · 1995 · 1995 · 1995 · 1995 · 1995 · 1995 · 1995 · 1995 · 1995 · 1995 · 1995 · 1995 · 1995 · 1995 · 1995 · 1995 · 1995 · 1995 · 1995 · 1995 · 1995 · 1995 · 1995 · 1995 · 1995 · 1995 · 1995 · 1995 · 1995 · 1995 · 1995 · 1995 · 1995 · 1995 · 1995 · 1995 · 1995 · 1995 · 1995 · 1995 · 1995 · 1995 · 1995 · 1995 · 1995 · 1995 · 1995 · 1995 · 1995 · 1995 · 1995 · 1995 · 1995 · 1995 · 1995 · 1995 · 1995 · 1995 · 1995 · 19



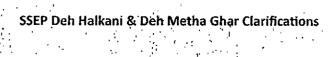


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		Panels considered for the Project		
	٠	shall be produced by Tier 1		
-		manufacturer as determined by		
	- ',	BNEF, which shall be certified	;	
	_	and listed with third party		
		insurance company providing		
		worldwide coverage such as		
		Solar IF, Power Guard etc. or		
L		equivalent.		
	63.	12.1.1.10 (b-ii-a)	Usually, inverter implements this scheme using electronic	Bidder can select any mechanism to meet the criteria mentioned
- 1	1	12.1.1.10 (b-ii-g)	cards etc. Inverter does not use specific under/over voltage	is product can select any mechanism to meet the criteria mentioned
			relays to achieve this function.	in the referred clause of RFP
		Electrical Design – Inverter	· ·	
		Grid voltage shall also be		
		continuously monitored and in	·	
	•	the event of voltage going below		
		a pre-set value and above a pre-		
		set value, the solar system shall	, ,	
١		be disconnected from the grid		
ľ		within the set time. Both over		
		voltage and under voltage relays		
		shall have adjustable voltage		
Į.		(50% to 130%) and time settings (0 to 5 seconds).		
ſ	64.	12.1.1.10 (b-ii-a)	Television and the second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second seco	
	U-7.	12.1.1.10 (b-ii-g)	This requirement is part of grid code as well and is higher	Generally, the Grid Code has to be followed but here, KE has
		12.1.1.10 (b-n-g)	than international standard's requirement.	specified a more stringent criteria based on its experience
		Grid frequency control range +/-		Further, the inverters available in the market are capable of
		3 Hz.		handling these ranges
_	65.	12.1.1.10 (b-ii-a)	This is not requirement of IEEE-519. Even if we consider K.E.	
	.′	12.1:1.10 (b-ii-g)	response from WBB that this is due to POC's requirement:	Bidder can consider any THD below 2.5%
1		T (0)	This number should not be here: Because for 220kV the THD	
		THD 2.5% or lesser.	requirement is 105%; Then why is REP specifying 255%?	
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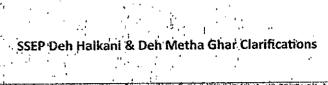


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66.	12.1.1.10 (b-ii-a)	This requirement is high. Usually OEM has tolerance	Generally: the Grid Code has to be followed but here. KE has
	12.1.1.10 (b-ii-g)	requirement. It should be -10% - +10% as per Grid code	rspecified a more stringent criteria based on its experience.
	Grid Voltage tolerance -20% and + 15%.		
67.	12.1.1.10 (b-v-d)	This requirement is ambitious. For internal substation it is	The bidder is solely responsible for installing communication
	12.1.1.10 (b-v-n)	fine. But if we have to do scope out of boundary then it may	lines for equipment located in the viginity of the complex
	220kV Substation Communication lines as required by the system operator for	cost.	
	hetwork control and protection.	The warranty requirement of GIS has been raised to 5 years.	
68.	12.1.1.10 (b-v-d)	Which was standard warranty in WBB. This may cause	Refer Corrigendum # 02
	12.1.1.10 (b-v-n)	extended warranty option to be triggered with GIS OEM	
	The GIS switchgear shall have a	extended warranty option to be draggered with old of	
	product warranty covering		
•	defects in materials and		
	workmanship of at least five (5)		
	years counting from the		
	Commercial Operation Date.		
69.	12.1.1.10 (b-vi-a)	Why is dual Low voltage required?	Befer Corrigendum # 02
	Power Transformer &		
,	Switchyard	* .	
	The step-up transformer shall be		
	oil immersed, ONAN, dual low-	. •	
	voltage and core type.	The state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the s	
70.	1.12.1.1.10 (b-x-d)	This will increase cost. Copper is extremely expensive.	Refer Corrigendum # 02
	12.1.1.10 (b-x-g)	Aluminium should be an option.	
	12.1.1.10 (b-x-k) 12.1.1.10 (b-x-z)		
	12.1.1.10 (D-X-Z)		The state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the s
			terrepresentation of the transfer of the fact that the fact of the fact of the fact of the fact of the fact of the fact of the fact of the fact of the fact of the fact of the fact of the fact of the fact of the fact of the fact of the fact of the fact of the fact of the fact of the fact of the fact of the fact of the fact of the fact of the fact of the fact of the fact of the fact of the fact of the fact of the fact of the fact of the fact of the fact of the fact of the fact of the fact of the fact of the fact of the fact of the fact of the fact of the fact of the fact of the fact of the fact of the fact of the fact of the fact of the fact of the fact of the fact of the fact of the fact of the fact of the fact of the fact of the fact of the fact of the fact of the fact of the fact of the fact of the fact of the fact of the fact of the fact of the fact of the fact of the fact of the fact of the fact of the fact of the fact of the fact of the fact of the fact of the fact of the fact of the fact of the fact of the fact of the fact of the fact of the fact of the fact of the fact of the fact of the fact of the fact of the fact of the fact of the fact of the fact of the fact of the fact of the fact of the fact of the fact of the fact of the fact of the fact of the fact of the fact of the fact of the fact of the fact of the fact of the fact of the fact of the fact of the fact of the fact of the fact of the fact of the fact of the fact of the fact of the fact of the fact of the fact of the fact of the fact of the fact of the fact of the fact of the fact of the fact of the fact of the fact of the fact of the fact of the fact of the fact of the fact of the fact of the fact of the fact of the fact of the fact of the fact of the fact of the fact of the fact of the fact of the fact of the fact of the fact of the fact of the fact of the fact of the fact of the fact of the fact of the fact of the fact of the fact of the fact of the fact of the fact of the fact of the fact of the fact of the fact of the fact of the fact of the





It should be up to bidder and EPC to determine the network topology.	Fhis is not the knock-officriteria and therproposed scheme will be evaluated as per the scorecard.
This requirement is vague. It should be at watchtowers or inverter stations where power supply is available.	Bidder can select any mechanism to meet the criteriamentioned air the referred clause of REP.
The requirements are specific in RFP and we will have to check with vendors about this.	Bidder:to comply with requirements stipulated in RFP.
	It should be up to bidder and EPC to determine the network topology. This requirement is vague. It should be at watchtowers or inverter stations where power supply is available. The requirements are specific in RFP and we will have to





	with a minimum of two (2) years of successful operation each and with a respective capacity of at least 20 MW.		
74.	12.1.1.13 (a) 12.1.1.13 12.1.1.13 (d) 12.1.1.13 (g) Mounting structure and tracker structure shall be made of Aluminium or Hot Dip Galvanized Steel, able to withstand at least 25 years of outdoor exposure without special signs of corrosion or fatigue at site conditions.	General	Bidder to comply with requirements stipulated in RFP.
75.	12.1.1.13 (a) 12.1.1.13 12.1.1.13 (d) 12.1.1.13 (g) Dynamic wind analysis shall be performed considering torsional galloping ad aeroelastic instability. Wind tunnel test report shall be submitted by the Contractor for approval. Consent required from Bidder for submission of this report. 5.2 Salient features of the Project	We will have to confirm with vendors whether they can provide this analysis. It is mentioned that site spans over [612/600] acres of Land.	Bidder to comply with requirements stipulated in RFP The land will be allotted to successful bidder on 30-year lease as
/6.	Site	What if project is set up in lesser area, will remaining land go	per the GoS policy.

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,			back to GoS? If not, will bidder be required to fence all the area or only PV area?	
	77.	Section 8.10 The Bidders shall provide the validity period of their bids for eight (08) months from Bid submission Deadline	Period of 08 months from 15th August 2024 is unrealistic due to variation of EPC cost as 80% is offshore component.	The said proposal is not acceptable to KE. Applicant is requested to gravide its acceptance to the amended EPA as required under Example 8 of the RFP
	78.	Section 12.1.1.7 Grid connection	The Bidder understands that it will not be requiring to conduct again with real time scenario at time of construction.	The interconnection study will be regular once all the equipment is finalized to confirm/endorse the previous results
-	79. ·	Section 12.1.1.9 The equipment/Plant will include the following	150MWp with agreed loss ratio, or higher if loss ratio is higher.	The Capacity of the plant should be consistent with the RFP conditions, whereas the plant design is bidden's responsibility.
			What is loss ratio and can bidder exceed 120 MWp/ 150MWp if loss ratio is higher as mentioned?	
	80. 	Section 12.1.10 (b) (i) Electrical Design	performance warranty of minimum 25 years counting from the Commercial Operation Date: However, some manufacturers guarantee the performance from date of manufacturing to	,我们是最多的数据的表现,我是自己的人们的人们,我们是我们的人们的人们的人们的人们的人们的人们的人们的人们的人们的人们的人,他们的人们的人们的人们的人们的人们的
	-		modules? Please clarify if module manufacturer doesn't warranty from COD.	
	81.	Section 12.1.10 (b) (ii) f. Power inverters Warranty	It is stated for inverters that "Provision of product warranty covering defects in materials and workmanship of at least ten (10) years counting from the Commercial Operation Date, and option with extendable warranty from supplier". Whereas standard inverter warranty is 5 years.	Bidders can consider lessers warranty, higher warranty equipment will be graded higher in the technical scoring criteria.
		·	There will be additional cost for extended warranty so this condition should be eliminated.	



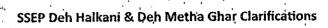


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	Section 12.1.10 (b) (ii) g. Power	One of condition mentioned for THD for inverter is as	Bidders can consider that; it will be graded accordingly.
	inverters THD	"Typical technical features of the suggested inverters must	
		mention as per following sequence: THD 2.5% or lesser.	
		It is to be noted that as per latest specs of inverters 3% THD	
		is offered and same should be allowed.	
00	Section 12.1.1.10 (X) d.	It is mentioned that Medium Voltage Cables will be Cross	Yes, Bidders are allowed to use Al cable.
82.	Section 12.1.1.10 (x) d.	Linked Polyethylene (XLPE) insulated with Copper	
		Conductors suitable for laying in ground for interconnection	
ag.		between PV array and MV switchgear room at the Sub-	
		station.	
1	411		
	-	There is latest example where Aluminum Cable is used as	
		Copper is expensive. Is the bidder allowed to use Al instead	
		of Cu for MV cables?	2000年1月1日 1日
83.	Section 12.1.1.10 (X).	33kV medium voltages are considered in RFP document,	Plant design is the responsibility of the bidder, and they're free
1	, ,	however in Grid Interconnection Study the MV voltages are	to choose the MV voltage level
		22kV, KE is requested to confirm the MV voltage levels in	
		order to further proceed with further bid design works.	
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84.	Section 12.1.1.13 j.	It is mentioned that Each tracker must be specifically	OK noted
ĺ		constructed.	
	•		
	·	It is to be noted that tracker manufacturer gives standard	
1		design and provision of water accumulation or moisture is	
		included in design	
	Section 12.1.1.13 m.	It is mentioned that Tracker range should be at least 120	Ok, it on Bidders discretion
1	Section 12.1.1.15 iii.	degrees.	
		ucgices.	
		The Teacher yourse veries from tracker to tracker The reason	
		The Tracker range varies from tracker to tracker. The range	,我们就在一个大大,一定在一个大大,一个大大大大大大大大大大大大大大大大大大大大大大大大大大大大大大大大
	,	mentioned is considered maximum. There is not much	(1、1)即1500年(4)20日),1910年(1910年)(1910年),1910年,1910年,1910年,1910年,1910年,1910年,1910年,1910年,1910年,1910年,1910年,1910年
		difference in energy for range of -45 - +45 & -60 - +60 but	Later to the second of the second of the second of the second of the second of the second of the second of the





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			range of motion of 90 & 120 degrees create impact on	,上海湖、南部、山村、山、河南、南、海、山、山、河南、西部河南、南南、西部湖南、西南、南、西、西、西、西、西、西、西、西、西、西、西、西、西、西、西、西、
			carbon pads or bearings life. It should be discretion of Bidder.	
	:			
	i	Section 12.1.1.13 o.	It is mentioned that time to stow at 0° from full tilt shall be	Noted
			less that 5 minutes.	
		٠.	The stow angle is mentioned as 0 degree that is not correct.	
			Every tracker has its own angle as per Site specifications	
	•		(usually 0 to 30).	
		Section 12.1.1.13 aa.	It is mentioned that the tracker shall present a minimum	Bidders are free to consider the same
İ		~	steep-slope tolerance to 15% grade on NS axis.	
			15% grading seems high. The range of 5-7 % slope is generally	
į		:	offered by the tracker manufacturers.	
	-	Section 12.1.1.13 r.	It is mentioned that the minimum distance between the	Bigders to comply the condition of REP
			lower level of PV module and the ground shall be 0.6m from	
			the ground.	
			This condition is stringent as tracker manufactures has its	
	,	,	This condition is stringent as tracker manufacturer has its own design and even for absolute flat surfaces, meeting this	未要到2000000000000000000000000000000000000
			condition is challenging so this should be discretion of	
			Bidder.	
	85.	9.3 EPA provides that in case of	We request to revise the rate to USD 2.5 per KW per month	The said proposal is not acceptable to KE. Applicant is requested
ľ		delay beyond RCOD, LDs will be	as is provided in other NTDC/CPPA Agreements	to provide its acceptance to the amerided EPA as required under
		charged at USD 4 /KW per		Exhibit 8 of the RFP
<u> </u>		month.	-	





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86.	Definitions	Current financing agreements for IPPs in Pakistan define	Kindly refer to Amerided EPA
ŀ		SOFR as "the secured overnight financing rate administered	
E	SOFR is defined as "The Secured	by the Federal Reserve Bank of New York (or any other	
1	Overnight Financing Rate, or	person which takes over the administration of that rate)	
	SOFR is a backward-looking	published by the Federal Reserve Bank of New York (or any	
	compounded rate based on the	other person which takes over the publication of that rate);"	
·	volume weighted median of		
	overnight daily treasury repo	It is requested that the same definition be adopted in this	
	transactions i.e., the cost of	EPA as well.	
	borrowing cash overnight		
	collateralized by U.S. Treasury	'	
1/	securities."		
87.	Clause 9.8 (a)	The wording of this clause suggests that the mechanism is	Please refer to detailed clarification document on Escrow
	The Purchaser shall secure the	not finalized for now and will be done at a later stage. During	Arrangement
	payments due to the Seller under	the roundtable for investors, it was informed that payment	
	this Agreement through KE's	security shall be through an escrow arrangement. Please	
 	consumer collections by way of a	confirm the nature / structure of payment security	
	waterfall arrangement, Escrow	mechanism and provide details of the MCAs to be allocated	
	or any other method ("Payment	for this project.	
	Security").		
88.	Definitions	Both Change in Law and Change in Tax provisions are	Kindly refer to Amended EPA
	www.iiiingsrpw	applicable from the Agreement (EPA) date whereas they	The hand will be a reserved in the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of
		should be linked to the Bid Submission Date	
89.	16.1 (a) (ii) Non-achievement of	Earlier KE precedents have this at 365 days which should be	The said proposal is not acceptable to KE. Applicant is requested
	COD after 180 days of RCOD is an	considered for this EPA as well.	to provide its acceptance to the amended EPA as required under
	EOD		Exhibit 8 of the RFP
90.	8.10 Bid Validity	Securing a bid validity from different OEMs for a period of 8	The bid validity period of 08 months is in accordance with the
}	1	months would be difficult and may not be acceptable to	bidding timeline and approval of Auction Evaluation Report from
		OEMs. We request KE to re-consider reducing the bid validity	
		to less than 6 months.	
		,	
L	<u> </u>		1984 1977 1977 1977 1977 1977 1977 1977 1977 1977 1977 1977 1977 1977 1977 1977 1977 1977 1977 1977 1977 1977 1977 1977 1977 1977 1977 1977 1977 1977 1977 1977 1977 1977 1977 1977 1977 1977 1977 1977 1977 1977 1977 1977 1977 1977 1977 1977 1977 1977 1977 1977 1977 1977 1977 1977 1977 1977 1977 1977 1977 1977 1977 1977 1977 1977 1977 1977 1977 1977 1977 1977 1977 1977 1977 1977 1977 1977 1977 1977 1977 1977 1977 1977 1977 1977 1977 1977 1977 1977 1977 1977 1977 1977 1977 1977 1977 1977 1977 1977 1977 1977 1977 1977 1977 1977 1977 1977 1977 1977 1977 1977 1977 1977 1977 1977 1977 1977 1977 1977 1977 1977 1977 1977 1977 1977 1977 1977 1977 1977 1977 1977 1977 1977 1977 1977 1977 1977 1977 1977 1977 1977 1977 1977 1977 1977 1977 1977 1977 1977 1977 1977 1977 1977 1977 1977 1977 1977 1977 1977 1977 1977 1977 1977 1977 1977 1977 1977 1977 1977 1977 1977 1977 1977 1977 1977 1977 1977 1977 1977 1977 1977 1977 1977 1977 1977 1977 1977 1977 1977 1977 1977 1977 1977 1977 1977 1977 1977 1977 1977 1977 1977 1977 1977 1977 1977 1977 1977 1977 1977 1977 1977 1977 1977 1977 1977 1977 1977 1977 1977 1977 1977 1977 1977 1977 1977 1977 1977 1977 1977 1977 1977 1977 1977 1977 1977 1977 1977 1977 1977 1977 1977 1977 1977 1977 1977 1977 1977 1977 1977 1977 1977 1977 1977 1977 1977 1977 1977 1977 1977 1977 1977 1977 1977 1977 1977 1977 1977 1977 1977 1977 1977 1977 1977 1977 1977 1977 1977 1977 1977 1977 1977 1977 1977 1977 1977 1977 1977 1977 1977 1977 1977

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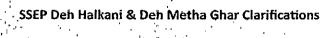


91.	12.1.1.7 Preliminary Studies	Grid interconnection study is part of Technical Information Package shared by KE with bidders. For the sake of clarity,	
		please confirm whether there are any additional details yet to be provided by KE.	
92.	12.1.1.8 Construction	KE to confirm whether the provision of external drain is within Bidder's scope or it will be catered by GoS/KE itself.	Bidders to ensure construction of drainage system till the main existing drainage system
93.	12.1.1.9 Equipment	bound to consider MVAR and type of reactive power compensation recommended in the grid interconnectivity study provided with RFP, rather, the Company/Developer has the right to decide on the MVAR and type of reactive.	PAS mentioned in the EPA Section 1.1. Sheartive Power Reactive Power Compensation must adhere to the Grid Code 2023. This will particularly include clause CC6.3.2 of the Grid code which stipplates the following. ASVE shall manage at the Connection Point the reactive power control to maintain the power factor with fright cange of 0.90 lagging to 0.95 leading over the full range of operation, as per dispatch instructions and or Voltage adjustments requirements within the above range of power factor.
94.	12.1.1.9 Equipment	Is it permissible to construct the cable trench using block masonry instead of reinforced concrete (RCC)?	
95.	12.1.1.10 Design Requirements a) Civil Design Criteria (ii) Main Design Criteria	We understand that the architectural layout of KE substation is based on the requirements of NTDC/NEPRA. Please confirm.	上級化物(C)





	96.	12.1.1.10 Design Requirements	Approved vendor lists is missing. Kindly specify if we are to utilize only KE approved vendors for HV systems for interconnection with the grid. If yes then KE is requested to provide approved vendor list for major equipment like	
			220kV- substation, HV Switchgear, SCADA, telecom and teleportation systems, Metering and Backup Metering Systems etc.	
	97.	12.1.1.10 Design Requirements b) Electrical Design	few of the top tier may not make it to the list every	"Panels considered for the Project should be Tier-1 as determined by BNEF, and the Original Edulpment
		(i) PV Module	time. As such there should be a specific criterion to the BNEF Tier-1 list or OEMs	Manufacturer (OEM) must be listed on the BNEF Tier I list at the time of bid submission. Tier 2 or labove shall, he disqualified without any assessment Bidder shall select the technology of panel considering the site/area condition. In the event that the selected OEM loses its. BNEF Tier 1 status after the bidder may and be able to procure panels.
				from the selected OEM; the bidgershall propose an alternative. OEM from the latest vavallable BNEF Ter 1 list with the prior written consent of KE. The substitution of the OEM will not under any circumstances, impact the submitted proposed tariff.





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98.	12.1.1.10 Design Requirements		The Grid Code specifies a range in which network operator may
	b) Electrical Design	" A SWE shall manage at the Connection Point the reactive	
	(ii) Power Inverters	power control to maintain the power factor within the range	Connection Point
		of 0.90 lagging to 0.95 leading, over the full range of	
		operation, as per dispatch instructions and/or Voltage	The requirement mentioned in the RFP is the specification
· .	7		related to the inverter which is within the range of the power
^		factor."	ractor mentioned in the grid code
		The requirement in the RFPs is not aligned with	
		abovementioned requirement of Grid Code 2023. KE is	
. 🛔		requested to revisit this requirement.	
		•	
5.4%		•	
99.	12.1.1.10 Design Requirements	As now CC C 2 E of the Cold Code 2022 PA CIAI as well as wheel	The referred clause of the REB si elated to inverter only whereas
55.			
			the mentioned clause of Grid Gode refers to the voltage to be
	(ii) Power Inverters	as:	infaintained at Connection Point
		(a) Voltage offset: ± 5 % under normal operating conditions	
		and ± '10% during contingency conditions. "	
	• •	The requirement in the RFPs is not aligned with	
		abovementioned requirement of Grid Code 2023. KE is	
]		requested to revisit this requirement.	
	·		
400	10111000		
100.	12.1.1.10 Design Requirements	KE is requested to share the protection schemes for the	Protection Scheme will be finalized at the later stage, however
	b) Electrical Design	Complex and interconnection facilities.	bidders to consider the protection relays hitheir proposals
!	(iv) SCADA, Tele-Communication		
[& Protection Schemes		
ji			
	.		
<u> </u>	1	ė	国际公司。等的自己的特殊企图是是不是自己的特殊的自己。

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101.	12.1.1.10 Design Requirements b) Electrical Design	engineering & equipment design, will be as per IEC standards and NEPRA/NTDC Grid code specifications. Please confirm.	
102.	12.1.1.10 Design Requirements b) Electrical Design	We understand that no Online Partial Discharge Monitoring System is required with GIS. Please confirm.	Please tefer to RFP section 12 1/1 10 regarding the Design Requirements
103.	12.1.1.10 Design Requirements b) Electrical Design (v) 220kV Substation	KE is requested to share complete scope of works for the 220kV protection systems, so that appropriate equipment is selected and offered.	Protection Scheme will be finalized at the later stage, however bidders to consider appropriate transmission line protection system in their proposal
104.	12.1.1.10 Design Requirements b) Electrical Design (v) 220kV Substation	KE is requested to elaborate on the specific requirement "type approved by system operator"	It is the responsibility of the design consultant to provide the OEM/EPC with relevant desails, such as GIS specifications, according to the standards outlined in Sections 12.1.1:11 Clause (E) of the REP
			The provided Grid Interconnection Study shall also be referred while designing
105.	12.1.1.10 Design Requirements b) Electrical Design	Please share coordinates of 220kV GIS.	The coordinates are not fixed however, bidders to consider the GIS location facing the main road
.106.	12.1.1.10 Design Requirements b) Electrical Design	We understand that specifications of Power Transformer will be shared with KE, only for information, not for review and approval. Please confirm.	Please refer to RFP section 12:1.1.10 regarding the Design Requirements.

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107.	12.1.1.10 Design Requirements:	We understand that no Sergi and deluge systems are	Flease refer to RFP section 1237 10 regarding the Design
	b) Electrical Design	required for power transformer.	Requirements.
4		Please confirm.	
		'	MARKET STATES OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY
108.	12.1.1.10 Design Requirements	Main Metering System is generally installed by the Power	As per the requirement of Grid Gode: Section MC 3
	b) Electrical Design	Purchaser, whereas, the Backup meter is installed by the	METERING SYSTEM" Seller (SPV) will be responsible for
-	vii) Metering System and Back-	Company. KE is requested to review and reconsider this	
	up Mètering System	requirement.	System at its expense After Mesting and commissioning,
		*	ownership will be
	• '		transferred to KE(Purchaser) and KE will be responsible for
			maintenance of Meter and Backing 1995
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	 		Meter while Seller will be responsible for Allied Metering
		· · ·	Eguitment and Allied Back up Metering Equipment Refer EPA
İ	1		Section 7.2, and RFP Section
400	101110		
109.	12.1.1.10 Design Requirements	We understand that only Metering Equipment (main &	Your understanding is correct: 17 1
	b) Electrical Design	backup) will be reviewed and approved by KE. Please	
ŀ		confirm.	
110.	12.1.1.10 Design Requirements	The modium with the second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second sec	
1 110.	12.1.1.10 Design Requirements	the medium voltages are considered as 33kV in RFP	Bidders are free to choose the MV voltage sever of the plant.
.		document, however in Grid Interconnection Study the MV	
ľ	į.	voltages are 22kV.	
	<u> </u>	In this regard, KE is requested to confirm the MV voltage	
1.	Ί΄ . Ι	levels in order to proceed with further bid design works.	
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111.	12.1.1.13	Installing Single Axis Tracking system doesn't seem a viable	Yes, it is mandatory requirement
		option considering humid conditions at project site.	
		Is it a mandatory requirement?	
ļ: .	<u> </u>	•	
<u> </u>	,		
112.	12.1.1.18	Please share details of Hybrid Forecast Model.	Please refer RFB and EPA regarding details of Hybrid Forecast
	Weather Station	· }	Model
<u> </u>	ļ,	† · ·	



113.	Exhibit 15	EPA Schedules are not provided as part of the RFP. Please share these schedules as they are an integral part of the EPA share required for a thorough commercial & financial review.	
114.	15.6 . COMPENSATION FOR PPFME OR CLFME	KE is requested to consider limiting compensation in case of any FME for six months instead of limiting it to six month in an year, in case there is more than one FME in an year.	ne said proposal is not acceptable to KE. Applicant is requested provide its acceptance to the amended EPA as required under hibit 8 of the REP
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115.	9.8 ESCROW ARRANGEMENT		一个一个一个一个一个一个一个一个一个一个一个一个一个一个一个一个一个一个一个
		ranking charge or first charge on the Escrow Account.	
		Moreover, their shall be some limit on charge creation by KE	
		over its assets including Escrow account and the same shall	
		be dependent upon the project revenue size with a coverage	
		margin.	
:	· ·		
`}			
116.	16.2 PURCHASER EVENTS OF	It is requested to increase total Major Default period of	The said proposal is not acceptable toke. Applicants requested
	DEFAULT	Purchaser from 3 years to 7 years. Moreover, in case of	to provide its acceptance to the amended EPA as required under
		termination, non-discriminatory wheeling charges should be	Exhibit 8 of the RFP
	1, 1	reasonable and determined upfront.	
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117.	2.2 TERM		Extensions of EPA termy as provided under the EPA will be
1		based on BOOT or BOO as the clause 2.2 of the EPA provides	applicable and transfer of project will only be made once EPA
	•	the extension in the Term as well as right to sell to other	Freeing (including all-extensions) nave been completed
		customers. Please clarify.	
	'		
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110			
118.	Article IV	In case of termination of EPA, Sub lease agreement will also	The said proposal is not acceptable to KE. Applicant is requested
		become void. The Company shall be protected to operate	to provide its acceptance to the amended EPA as required under
		the plant for its useful life if EPA is terminated due under EoD	Exhibit 8 of the RFP
		or FME.	
L	<u></u>		The state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the s

	40	Comment	KE is requested to provide tender stage Single Line Diagram	Please refer to RFP section 12.1.1.10 (III) (b) regarding the Design
1	19.	General	(SLD) for the project.	Regulrements
	İ		(SED) for the project.	
				The interconnection point will be droppers from the terminal
ļ	ŀ			fower connected to the gantry of 220kV transmission lines. The
	Ì		·	linterconnection point shall be the HV line bushings installed at
			·	ithe gantry of the Complex The interconnection point small
-	ļ			represent the
				boundary of responsibility between the project facility and
	Ì			system operator.
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] 1	.20.	3.2 - Definitions – Bid Bond	The bid bond validity period of 8 months is quite aggressive	months to a months Further require on is not possible
			and may not be acceptable to the lending bodies/banks.	,我想到了我的看出的。""黑点我们可以看到这种,我们就是有一个数据,我就是我的知识是我们就是我们的我们就是这种的最后的。""我们的,这个人的,我们也是一个人的,
			Request to re-consider reducing the bid bond validity to less	
			than 6 months.	
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 	21.	1-invitation to Bid	The Project site spans across 727 acres of land as mentioned	Kindly note that the land is approximately 600 acres
-	LZ1.	1-Hivitation to bid	in RFP (section 5.2 Salient Features of the Project Site)	- 1 300 2 5 4 4 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
1			K.E to clarify if the land is approximately 600 acres or 727	
į		·	acres as there is a discrepancy in the RFP. (Deh Mitha Ghar)	
ļ	į		dates de trote le d'about oparie, in trib	
i i				And the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second o
	122.	8.10 Bid Validity	Securing a bid validity from the OEMs for a period of 8	Bid validity period has already been reduced from 12 months to
		·	months is aggressive and may not be acceptable to OEMs.	8 months. Further reduction is not possible.
į			Request for reconsideration below 06 months	
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123.	12.1.1.7 Preliminary Studies	Grid interconnection study has already been shared by KE	- 「「下半年"2016年 ディスト 「「「「「「「」」」、 「「「」」、 「「」」、 「「」」、 「「」」、 「「」」、 「「」」、 「「」」、 「「」」、 「「」」、 「「」」、 「「」」、 「」、 「
	•	with bidders, for the sake of clarity please confirm if any	regarding bid preparation
		additional details are yet to be provided by KE.	
124.	12.1.1.8 Construction	KE to confirm that the land provided is free of any	GoS is responsible for providing land for this project that will be
	a) Site Preparation	encroachment, encumbrance and settlement etc.	free from encroachment
		, ·	
425	10110		
125.	12.1.1.8 Construction	We understand that the performance test shall include	,我是我就是有人的最后的,我们就是一个一个人的话,我们就是我们的人,我们就一个人的一个人的,我们就是我们的的人,我们就是我们的人的,我们就是这样的人,我们就是这
1	e) Performance Tests	testing at complex level, please confirm	level as well as complex level as stinulated in EPA
. 126	12.1:1.10 Design Requirements	According to the clause CC 6.3.2 of the Grid Code, which	The Grid Code specifies a range in which network operator may
1	b) Electrical Design.		surstruct the generator to maintain the power factor at the
	·(ii) Power Inverters	" A SWE shall manage at the Connection Point the reactive	Connection Point
		power control to maintain the power factor within the range	The requirement mentioned in the REP is the specification
		of 0.90 lagging to 0.95 leading, over the full range of	related to the inverter which is within the range of the power
		operation, as per dispatch instructions and/or Voltage	factor mention in the grid code
		adjustments requirements within the above range of power	
1		factor."	
		The requirement in the RFPs is not inline with the	
		requirement mention in the grid code, in order to avoid	
		ambiguity KE is requested to revisit this requirement.	





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127.	12.1.1.10 Design Requirements	According to the clause CC 6.3.5 of the Grid Code, which	The referred clause of the RFP is related to inverter only whereas
	b) Electrical Design		the mentioned clause of Grid Code refers to the voltage to be
	(ii) Power Inverters	Connection Point. The following parameter is set as:	maintained at Connection Point
	(11)	(a) Voltage offset: $\pm 5\%$ under normal operating conditions	
		and ± 10% during contingency conditions. "	
		The requirement in the RFPs is not inline with the	
		requirement mention in the grid code, in order to avoid	
		ambiguity KE is requested to revisit this requirement.	
		attibilities in the desired to the second second	
128.	12.1.1.10 Design Requirements	K.E is requested to elaborate on the specific requirement	It is the responsibility of the design consultant to provide the
	b) Electrical Design	"type approved by system operator"	OEM/EPC_with relevant details such as GIS specifications,
	(v) 220kV Substation		according to the standards outlined in Sections 12.1.1.11 Clause
İ		• •	(c) of the RFP. The provided Grid Interconnection Study shall also
•			be referred while designing
		<u> </u>	



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SSEP Deh Halkani & Deh Metha Ghar Clarifications

129.	12.1.1.10 Design Requirements b) Electrical Design (i) PV Module	BNEF Tier-1 is a varying assessment every year whereas few of the top tier may not make it to the list every time. As such there should be a specific criterion to the BNEF Tier-1 list or OEMs.	Panels considered for the Project should be Tier-1 as determined By BNEF, and the Original Equipment Manufacturer (OEM) must be listed on the BNEF-Pier-1 list at the time of bid submission lier-2 or above shall be disqualified without any assessment. Bidder, shall select the technology of panel considering the site/area condition in the event that the selected OEM loses its BNEF Tier-1 status after the bid is awarded, the bidder, SHALL propose an alternative OEM from the latest available BNEF Tier-1. Jist with the prior written consent of KE. The substitution of the OEM will not, under any circumstances, impact the submitted proposed tariff.
130.	General 	The topographic map for Deh Halkani does not include contours for west side of the land (Only eastern section shared). KE is requested to kindly provide the missing information.	The required information has been requested from GoS; and which their consultants:
131.	General	Reactive power assumptions are to be considered as per the provided grid study shared by KE, that recommends installing an SVC of 50MVAR at MV Bus bar. KE is requested to confirm that this would not be in the scope of the Developer.	As mentioned in the EPA Section of J. SVG (Static VAR) Generator) and Reactive Power Compensation must adhere to the Grid Code 2023. This will particularly include clause CC6.3.2 of the Grid code, which stipulates the following. A SWE shall manage at the Connection Point the reactive power control to maintain the power factor within the range of 0.90 lagging to 0.95 leading, over the full range of operation, as per dispatch linstructions and/or Voltage adjustments requirements within the above range of power factor." The interconnection scheme will be 220 kV loop-in/loop-out
132.	General	KE is requested to provide tender stage Single Line Diagram (SLD) for the project.	The interconnection scheme will be 220 kV loop-in/ loop-out
			Page 34

THE PROPERTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF TH

5. 2.



Land Queries

1. Deh Halkani Consists of 4 pieces of land – Portion D consists of a narrow This is no longer part of	the sub-project houndaries, where the
	revised to exclude these items and
	m the project on the surroundings.
	the sub-project boundaries, where the
	revised to exclude these items and
1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	m the project on the surroundings
	party is not factual. All land for Den.
$1 \qquad \qquad 1 = -11 \cdot 1 \cdot 1 \cdot 1 \cdot 1 \cdot 1 \cdot 1 \cdot 1 \cdot 1 \cdot 1$	d_Murad_is state; land Land Lease
	rprovided
	liacent to each other, and the land is
	bypass and a hill only, hence there will
	mpact as in solar power blant the blocks.
	over the large area which need to be
Tinterconnected.	
	oundaries as the boundaries are revised
	peen shared . Action is
one has to cover it or provide a safeguard to protect it in its	
original form.	
	r the project site have been revised
	has been removed. The revised land
	oject is state own land except only 18
	which is private land, and this land will
	xeluded from the project. Under IFC
1 + 1 + 1 + 1 + 1 + 1 + 1 + 1 + 1 + 1 +	the private landowners will be ensured.
	project site have been revised, where
	o-economic impacts on the people have
	in the separately prepared Resettlement.

TO THE REPORT OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF T



:		economic impacts, and the solar plant is not qualified for the national policy or IFC guidelines.	plan which will compensate these people in line with WB guidelines and resettle them before any project development.
8.	Deh Metha Ghar	There is a water source in block C, whether it is a protected water source? It needs to be verified. It is problematic under IFC guidelines.	The Hub Dam Canal passes from nearby where this is not a
9.	Deh Metha Ghar	designated for the solar power plant. The presence of these residents poses a significant challenge for land acquisition and project development under IFC guidelines (reference recent solar plants constructed by M/s Static).	The boundaries for the project site have been revised to avoid resettlement, where the sociol economic impacts on the people. have been taken into account in the separately prepared Resettlement plan which will compensate these people in line with. WB guidelines and resettle them before any project development. There is no land acquising project land is state.
10.	Deh Metha Ghar	Adjacent to the Hub Dam drain channel, which is a threat to the design and maintenance of the power plant due to the humid environment.	owned land Since the boundaries for the project site have been revised in which the Hub canal is bit away in comparison to the old one. So, issues due to humidity will be minimal overall phytronment of Karachi is humid, and Hub Canal proximity will not add any significant amount of humidity which will not cause any change up, design:



CORRIGENDUM No. 1: EXTENSION IN DEADLINE FOR CLARIFICATION REQUESTS 120 MW SSEP Solar Project at Deh Halkani and 150 MW SSEP Solar Project at Deh Metha Ghar ("Projects")

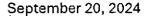
KE had invited bids/proposals from the investors for the development of the subject Projects on June 03, 2024.

This corrigendum is to notify that the deadline for submission of clarifications on the RFF Documents has been extended as follows:

S. No.	Project Name	Clarification Submission Deadline (Original) ¹	Clarification Submission Deadline (Revised)
1	120 MW SSEP Solar Project at Deh Halkani	04-July-2024_	20-July-2024
2	150 MW SSEP Solar Project at Deh Metha Ghar	04-July-2024	20-July-2024

¹Clarification date as per RFP Section 6.3 of 120 MW SSEP Solar Project at Deh Halkani and 150 MW SSEP Solar Project at Deh Metha Ghar

KE will timely be responding to clarifications received prior to the deadline and KE will not have any obligation to respond to clarifications received after the clarification deadline.





CORRIGENDUM No. 2: AMENDMENT IN SECTION 21.3. 120 MW SSEP Solar Project at Deh Halkani and 150 MW SSEP Solar Project at Deh Metha Ghar ("Projects")

KE had invited bids/proposals from the investors for the development of the subject Projects through advertisement made on June 03, 2024.

This corrigendum is issued to notify an amendment in Section 12.1.1.10 of the subject Projects RFP document.

1. The earlier mentioned Section 12:1.1.10 clause b) (i) stated that:

"Panels considered for the Project shall be produced by Tier 1 manufacturer as determined by BNEF, which shall be certified and listed with third party insurance company providing worldwide coverage such as Solar!F, PowerGuard etc. or equivalent. The module manufacturer shall have fully automated production cycle, and reduced sources of variation in production. However, the solar panel shall meet the requirement set in IEC 61215:2016, IEC 61730-1:2004 or latest and IEC 61730- 2:2004 or latest, IEC 61701(latest), / international standards. The additional specifications for the PV module are also given below."

has now been revised to

"Panels considered for the Project shall be produced by Tier 1 manufacturer as determined by BNEF. The module manufacturer shall have fully automated production cycle, and reduced sources of variation in production. However, the solar panel shall meet the requirement set in IEC 61215:2016, IEC 61730-1:2004 or latest and IEC 61730-2:2004 or latest, IEC 61701(latest), / international standards. The additional specifications for the PV module are also given below."

2. The earlier mentioned Section 12.1.1.10 clause b) (ii) f) stated that:

"Provision of product warranty covering defects in materials and workmanship of at least ten (10) years counting from the Commercial Operation Date, and option with extendable warranty from supplier.",

has now been revised to

"Provision of product warranty covering defects in materials and workmanship of at least five (5) years counting from the Commercial Operation Date, and option with extendable warranty from supplier."

3. The earlier mentioned Section 12.1.1.10 clause b) (v) n) stated that:

"The GIS switchgear shall have a product warranty covering defects in materials and workmanship of at least five (5) years counting from the Commercial Operation Date.",

has now been revised to

"The GIS switchgear shall have a product warranty covering defects in materials and workmanship of at least two (2) years counting from the Commercial Operation Date."



4. The earlier mentioned Section 12.1.1.10 clause b) (vi) a) stated that:

"The Complex design will include the step-up transformer considering (N-1) contingency. Step-up Transformer shall comprise of adequate electrical and mechanical protections to ensure safety and reliability. The step-up transformer shall be oil immersed, ONAN, dual-low-voltage and core type. Transformer is insulation Class A. Transformer routing tests are carried out as per IEC standard or equivalent. The type test reports shall be provided. Over and under voltage limits shall be controlled by ON load tap changer at each tap position shall be governed by relevant IEC standard applicable to oil filled transformers."

has now been revised to

"The Complex design will include the step-up transformer considering (N-1) contingency. Step-up Transformer shall comprise of adequate electrical and mechanical protections to ensure safety and reliability. Transformer is Insulation Class A. Transformer routine tests are carried out as per IEC standard or equivalent. The type test reports shall be provided. Over and under voltage limits shall be controlled by ON load tap changer at each tap position shall be governed by relevant IEC standard applicable to oil filled transformers."

5. The earlier mentioned Section 12.1.1.10 clause b) (x) d) stated that:

"Medium Voltage Cables will be Cross Linked Polyethylene (XLPE) insulated with Copper Conductors suitable for laying in ground for interconnection between PV array and MV switchgear room at the Sub-station.",

has now been revised to

"Medium Voltage Cables will be Cross Linked Polyethylene (XLPE) suitable for läying in ground for interconnection between PV array and MV switchgear room at the Substation."

8.2 | The Experts in Renewable Energy



Annexure E: Bid Details for KAPCO

The bid evaluation for KAPCO is detailed below, covering all relevant sections including solar panels, power inverters, switchgear, mounting structures, SCADA systems, civil works, operation and maintenance (O&M), corporate social responsibility (CSR), and warranties. Each section includes specific criteria and KAPCO's performance against those criteria based on the Technical Scorecard.

Table 11: Annex	c E: Bid D	etails for	KAPCO
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Sr No.;;	Description	KAPCO
Tally and the letter	PER SE SE SE SE SE SE SE SE SE SE SE SE SE	Proposed Longi Solar as the preferred manufacturer and
-	-Efficiency	Trina Solar as a contingency, both having efficiency greater
	· .	than 21.5%.
		Both brands proposed for the project have annual
	Degradation Rate	degradation of less than 0.4%.
	Lifetime	Both brands offer a 30-year linear power output warranty.
	·	KAPCO has provided an affirmation letter from LONGi Solar confirming full compliance with the latest IEC standards
		specified in the RFP for PV modules, including IEC 61215 for design qualification, IEC 61730 for safety, and IEC 61853 for
	· . -	performance testing, with additional details supported by
,		PAN file reports. Certifications for salt mist resistance (IEC
	Compliance with RFP	61701), ammonia corrosion (IEC 62716), and system voltage
	Compliance with Kir	durability (IEC 62804). have also been provided.
		Furthermore, LONGi Solar has ensured adherence to ISO
	<u></u>	9001 for quality management. Additionally, KAPCO has
		provided a certificate from Manufacturer (Longi Solar) to
	• 1 •	assure that the design life of the product is twenty-five (25)
1	•	years from the date of commissioning.
	Manufacturer's Reputation	Both brands are Tier-1 manufacturers according to BNEF.
6.53 E.S	2 /	
3, Z7	Power Inverters:	KAPCO proposed Sungrow as main manufacturer and
	Efficiency	Sineng as second option, both having efficiency >98% as
	Efficiency	per set criterion in RFP.
		Sungrow meets the RFP criterion, having been in the
1		manufacturing business for over 10 years with inverters
	Track record	widely used in commercial and utility-scale projects of SMW
		and above, and a proven record of operational reliability.
		Sungrow provides local support in Karachi, Pakistan,
After	After Sale Service	through authorized service centres and local partners.
		The proposed inverter meets the majority of the RFP
		requirements. However, it's important to highlight that the
	Compliance with RFP	Total Harmonic Distortion (THD) is specified as less than 3%
	, ,	in provided datasheet, while the RFP requires it to be less
<u></u>	<u> </u>	

<u> </u>	· ·	than or equal to 2.5%. However, it is to be noted that KAPCO
		has proposed central inverter and for central inverters THD
	, ·	offered in datasheets is always less than 3% so considering
	·	the type "Central" 3% is okay, and inverter is the best choice
	•	for the project. Moreover, KAPCO has provided a certificate
		from Manufacturer (Sungrow) to assure that the design life
		of the product is twenty-five (25) years from the date of
		commissioning.
- 3¢	220 MV Suite head of Mary Mary	Commissioning.
S = 15 - 2	220 KV Switchgear	的。1、1、11年代,11年代,11年代,11年代,11年代,11年代,11年代,1
ų.	Compliance with RFP, grid code	KAPCO Proposed XI'AN XD China (preferred) and
į	and applicable policies by	Shandong Taikai as second option as gas insulated
1	Power Purchaser .	switchgears.
	Compliance with the Grid Code	KAPCO proposed switchgear, manufactured by Xian XD,
	and RFP requirements	complies with the Grid Code of Pakistan and RFP
	Compliance with IEC 62271	specifications. It meets the required switchgear standards,
	standards	featuring maintenance-free SF6 circuit breakers and an
-	Provision of type test reports	indoor, metal-enclosed design. Xian XD is ISO 9001 certified
	Trovision or type test reports	for quality management, and also holds ISO 14001 and
	· ·	OHSAS 18001 certifications for environmental and safety
	220kV switchyard will utilize Gas	compliance. The switchgear adheres to the latest editions of
	Insulated Switchgear in a double	IEC 60298, ISO 60694, IEC 62271, and IEC 60265 standards.
	bus-bar single breaker scheme	Additionally, KAPCO's proposal includes type test and
	bus-bar single breaker scriente	
-		performance certificates, and the SLD shows a double bus-
		bar single breaker scheme for the 220kV switchyard.
	· -	XD China has a strong track record in supplying high-voltage
	Tunale manual O ft.	switchgear for major projects in Pakistan, including the
•	Track record & quality of main	Chashma Nuclear Power Plant and various coal-fired plants.
. •	equipment	The manufacturer's experience with GIS solutions at 145kV,
		220kV, and 550kV showcases its commitment to industry
•		standards and local regulations.
		The XD's historical performance indicates successful
	·Historical performance in local	operations in diverse environmental conditions,
	environment	showcasing their ability to meet the unique challenges of
-		the local market. Shandong Taikai, on the other hand, has
		done successful projects in China but not in Pakistan.
4.	Mounting Structure	
	to a big Objection in 17 feet 1947 at	VADCO has repeated Similar
·	Trackers	KAPCO has proposed Single axis Trina Tracker (Vanguard -
		1P) as preferred option and Sunchaser as second option.
	Track record	Trina Tracker has deployed over 5GW worldwide in more
		than 400 projects.
		The Trina Tracker Vanguard -1P features mounting and
	·	tracker structures constructed from high-yield strength
		steel, ensuring durability and resistance to outdoor.
	Material of structure	conditions. Designed to withstand exposure for at least 25
		years, the structure demonstrates exceptional resilience
	· . · .	against corrosion and fatigue under various site conditions
	·	as per criterion set in RFP.

	•	•
	Protection coating	Compliant with 100 microns. Additionally, KAPCO has
		provided a letter of compliance to ensure the same.
ļ. .		The structure proposed by KAPCO complies with ICC ES
		AC428 and UL 2703 certifications, ensuring its adherence to
		industry standards. Engineered to withstand wind speeds of
1	Compliance with RFP	at least 130 km/h, it is designed for a minimum operational
		lifespan of 25 years. Additionally, all components, including
		fasteners, are constructed from stainless steel, enhancing
		durability and resistance to corrosion.
1125	SCADA and Telecommunication	System
Believe Ch		For SCADA system, KAPCO proposed Jiangsu Himark
		Technology Co., Ltd. (as preferred manufacturer) and
		Siemens China as second option. Jiangsu Himark
	Manufacturer track record	Technology Co., Ltd meets the RFP requirement of having at
Ì	Mandiacturer track record	least three years of experience in SCADA and
-	** 	telecommunication systems for commercial/utility scale
		projects (5 MW and above).
-		The system will provide a 24-hour log with average data
		1
ļ		values every 10 minutes, customizable via a controller. Key
	Monitoring parameters and	logs include energy production, availability, weather data,
\ -	integration	and real-time plant overview. Two communication channels
`}		will link to the load dispatch centre for SCADA data transfer,
1_		adhering to IEC 61850-7-420 standards.
1	- ·	A 24-hour log system will configure data presentation, while
		the SCADA system enables real-time generation monitoring
	Data backup and storage	in the control room. Secure data transmission will be
	- Data Backap and Package	ensured through firewalls and VPN for remote access. Voice
-		communication systems will be installed at both the plant
		and the operator's control room.
1		KAPCO has ensured via compliance letter, that protection
-		schemes, interconnection facilities, and all telecom links
*		comply with the System Operator's technical specifications,
	Compliance with RFP	The system will support visibility in the KE's LDC (Load
		Dispatch Centre) control room as per the specs provided by
		KE, Backup metering, protection relays, bus-bar protection,
1		and step-up transformer protection will meet design and
		technical requirements.
640	Civil Works and Infrastructure.	
# 15 CO 15 CO 15 CO 15 CO 15 CO 15 CO 15 CO 15 CO 15 CO 15 CO 15 CO 15 CO 15 CO 15 CO 15 CO 15 CO 15 CO 15 CO 15 CO 15 CO 15 CO 15 CO 15 CO 15 CO 15 CO 15 CO 15 CO 15 CO 15 CO 15 CO 15 CO 15 CO 15 CO 15 CO 15 CO 15 CO 15 CO 15 CO 15 CO 15 CO 15 CO 15 CO 15 CO 15 CO 15 CO 15 CO 15 CO 15 CO 15 CO 15 CO 15 CO 15 CO 15 CO 15 CO 15 CO 15 CO 15 CO 15 CO 15 CO 15 CO 15 CO 15 CO 15 CO 15 CO 15 CO 15 CO 15 CO 15 CO 15 CO 15 CO 15 CO 15 CO 15 CO 15 CO 15 CO 15 CO 15 CO 15 CO 15 CO 15 CO 15 CO 15 CO 15 CO 15 CO 15 CO 15 CO 15 CO 15 CO 15 CO 15 CO 15 CO 15 CO 15 CO 15 CO 15 CO 15 CO 15 CO 15 CO 15 CO 15 CO 15 CO 15 CO 15 CO 15 CO 15 CO 15 CO 15 CO 15 CO 15 CO 15 CO 15 CO 15 CO 15 CO 15 CO 15 CO 15 CO 15 CO 15 CO 15 CO 15 CO 15 CO 15 CO 15 CO 15 CO 15 CO 15 CO 15 CO 15 CO 15 CO 15 CO 15 CO 15 CO 15 CO 15 CO 15 CO 15 CO 15 CO 15 CO 15 CO 15 CO 15 CO 15 CO 15 CO 15 CO 15 CO 15 CO 15 CO 15 CO 15 CO 15 CO 15 CO 15 CO 15 CO 15 CO 15 CO 15 CO 15 CO 15 CO 15 CO 15 CO 15 CO 15 CO 15 CO 15 CO 15 CO 15 CO 15 CO 15 CO 15 CO 15 CO 15 CO 15 CO 15 CO 15 CO 15 CO 15 CO 15 CO 15 CO 15 CO 15 CO 15 CO 15 CO 15 CO 15 CO 15 CO 15 CO 15 CO 15 CO 15 CO 15 CO 15 CO 15 CO 15 CO 15 CO 15 CO 15 CO 15 CO 15 CO 15 CO 15 CO 15 CO 15 CO 15 CO 15 CO 15 CO 15 CO 15 CO 15 CO 15 CO 15 CO 15 CO 15 CO 15 CO 15 CO 15 CO 15 CO 15 CO 15 CO 15 CO 15 CO 15 CO 15 CO 15 CO 15 CO 15 CO 15 CO 15 CO 15 CO 15 CO 15 CO 15 CO 15 CO 15 CO 15 CO 15 CO 15 CO 15 CO 15 CO 15 CO 15 CO 15 CO 15 CO 15 CO 15 CO 15 CO 15 CO 15 CO 15 CO 15 CO 15 CO 15 CO 15 CO 15 CO 15 CO 15 CO 15 CO 15 CO 15 CO 15 CO 15 CO 15 CO 15 CO 15 CO 15 CO 15 CO 15 CO 15 CO 15 CO 15 CO 15 CO 15 CO 15 CO 15 CO 15 CO 15 CO 15 CO 15 CO 15 CO 15 CO 15 CO 15 CO 15 CO 15 CO 15 CO 15 CO 15 CO 15 CO 15 CO 15 CO 15 CO 15 CO 15 CO 15 CO 15 CO 15 CO 15 CO 15 CO 15 CO 15 CO 15 CO 15 CO 15 CO 15 CO 15 CO 15 CO 15 CO 15 CO 15 CO 15 CO 15 CO 15 CO 15 CO 15 CO 15 CO 15 CO 15 CO 15 CO 15 CO 15 CO 15 CO 15 CO 15 CO 15 CO 15 CO 15 CO 15 CO 15 CO 15 CO 15 CO 15 CO 15 CO 15 CO 15 CO 15 CO 15 CO 15 CO 15 CO 15 CO 15 CO 15 CO 15 C	The first that services appear to the last the model of the services and the last	KAPCO's proposal comprehensively addresses the
		requirements outlined in the technical specifications for the
		civil works of the project. The layout includes a control
		building, 220kV GIS substation, security fencing, and
	Buildings and ancillary	support facilities. The control building will house SCADA,
	facilities	metering, telecom, and protection systems. Temporary
		facilities will be set up during construction, with provisions
		for water, sewage, and electricity. Civil works cover site
		preparation, foundations, drainage, and building
	l l	

	construction, including structural, plumbing, HVAC, and fire safety systems.
Flood mitigation measures	KAPCO's flood control plan focuses on protecting critical infrastructure like pipelines, substations, and transmission lines. Key measures include interception ditches, elevated substations, and stable foundations for transmission towers to prevent erosion and water damage, ensuring continuous operation of essential facilities.
Plant accessibility - internal & external roads; fencing	KAPCO's proposal addresses several aspects of civil works, including the construction of temporary and permanent access roads with appropriate drainage arrangements and fencing. Moreover, KAPCO has provided compliance letter to ensure proper cable routing, cable terminations, and underground fibre optic installation, all while considering the site's topography to ensure minimal shading impact on the plant's operations.
Balance of Plantes នៃក្រុម្បី និ	
Track record of key equipment	All the proposed manufacturers have extensive experience,
,	with each completing over 10 projects exceeding 10 MW in
• •	the last five years, confirming their capability to meet the
•	Bidder's requirements effectively.
	KAPCO has proposed Shandong Taikai as preferred
	manufacturer for MV switchgears and ABB China as contingency manufacturer.
MV Switchgears, Transformers & Cables:	For MV Transformers, KAPCO has proposed two 220kV-100 MVA transformers from Sanbian Sci-tech Co., Ltd as preferred manufacturer and Xian XD China as contingency manufacturer.
The Ridder must have a history	For Cables KARCO has asset a series
of providing MV Switchgears, Transformers & MV Cables Switchgear and equipment that	For Cables , KAPCO has proposed ZTT as preferred manufacturer and Zhejiang Wanma , Henan Tongda and Far East Cables as contingency manufacturers.
meet industry standards and	For Static Var Compensation equipment, KAPCO has
local regulations.	proposed Shandong Taikai as preferred manufacturer and
	Liaoning Rongxin Xingye Intelligent Electronic as Contingency manufacturer.
·	For Weather Station, KAPCO has proposed KIPP & ZONEN Beijing Wuzuhouyu New Technology Ltd as preferred manufacturer and Beijing Wuzuhouyu New Technology Co., Ltd as the contingency manufacturer.
Local Presence:	Presence in Pakistan: ABB China, Shandong Taikai, ZTT and Xian XD No Local Presence: Sanbian Sci-Tech Co., Ltd, Henan Tongda, Far East Cables.
	Plant accessibility - internal & external roads; fencing Balance of Plant Track record of key equipment No. of projects with in last 05 years having size > 10 MW: 10 projects MV Switchgears, Transformers & Cables: The Bidder must have a history of providing MV Switchgears, Transformers & MV Cables Switchgear and equipment that meet industry standards and local regulations.

Overall layout of plant	KAPCO's plant layout features a 120.0069MWp solar plant with monocrystalline bifacial modules and flat single-axis tracking brackets (1p×78, 1p×52, and 1p×26 models). The brackets are spaced 5.8 meters apart east-west, 1 meter north-south, and elevated 1.8 meters. The design integrates with surrounding infrastructure, including substations, pipelines, and transmission lines, optimizing capacity while addressing site constraints.
Cable selection and sizing	ZTT cables, including the H1Z2Z2-K and PV1-F series, feature XLPE insulation for both outdoor and underground use, with copper conductors. Rated for up to 1 kV AC and 1.8 kV DC, they meet RFP requirements for interconnecting the PV array and MV switchgear. Certified to various IEC standards, they offer UV and weather resistance, ensuring compliance with international safety and quality norms. Designed for voltage ranges of 0.9 to 1.1 p.u. and power factors from 0.85 leading to 0.95 lagging, these cables meet substation bus specifications as mentioned in RFP.
Auxiliary facilities and back up	KAPCO's SLD shows a 33kV/400V, 400 kVA transformer connected to the main 33kV bus bar, supplying the Main Distribution Board at 400V with circuit breakers. The three-phase, delta-star transformer has a 5% impedance. KAPCO has also provided a compliance letter for auxiliary facilities and backup, ensuring RFP requirements are met.
Security, surveillance and fire fighting	KAPCO's compliance letter confirms adherence to NFPA fire safety guidelines with detection and alarm systems in the MV substation. The plant will include adequate lighting for visibility and surveillance systems with cameras and access control to enhance security and restrict access to critical areas.
Earthing, grounding, lightning protection	KAPCO's compliance letter confirms adherence to IEC standards for earthing and grounding at the 220kV substation, ensuring safety during faults. Galvanized iron strips will provide lightning protection, while "danger mark" indicators will be used for personnel safety.
Compliance with RFP	KAPCO's compliance letter verifies that the entire system meets RFP requirements, adhering to IEC standards for switchgear, transformers, cables, and equipment. Key components, including switchgear and transformers, are backed by a 2-year warranty. Grounding, lightning protection, fire safety, backup systems, and surveillance protocols also align with IEC and NFPA standards as mentioned in RFP.

	Key staff (organization; qualification/experience and facilities)	KAPCO's submission includes staffing levels and organizational structure based on plant design, ensuring personnel qualifications meet utility practices. Adequate facilities support operations and qualified staff oversee maintenance activities, with CVs attached.	
	Emergency spares, list and necessary stock	KAPCO has provided a list of spare parts, including a stock of emergency spares as per RFP requirements, along with the quantity percentages indicating how many spare parts will be available.	
9	HSE		Ž
	Compliance with RFP	KAPCO has provided HSE management plan confirming compliance with all the requirements mentioned in RFP.	
10,	Warranty 135 V		2
·	PV Modules	The second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second secon	a
	Material, Manufacturing, and		
	Workmanship Warranty: 10	·	
	years.		
_	Performance Warranty:	10 years	
	Minimum 90% of the rated power		
	output at the end of 10 years.		
	Minimum 80% of the rated power	-	
	output at the end of 25 years.		
	Inverters		
	Product Warranty: A minimum of 5 years for defects in materials		
	and workmanship, with an option	5 years and extendable	
	for an extendable warranty		·
· -	Mounting structures (single	-	┪
· .	axis)		
	The module mounting structures		1
•	will be warranted for 10 years.	·. ·	
	This warranty covers defects in	10 years	١.
	material, workmanship, and any	10 years	
	damage caused by environmental		
	factors such as wind or rain.	the transfer of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract o	
	Warranty period of 5 years for		
	other, elements of the structure (drive system, bearing set, control	05 years	
	system, bolts and nuts, washers,	us years	Ì
	clamps, bonding straps, etc.).		
	Switchgears		1
	Product warranty covering		1
- •	defects in materials and		
	workmanship of at least two (2)	220 kV Switchgear: 2 years	
	years counting from the	220 NV SWILLINGERI. 2 years	
	Commercial Operation Date for		
	220kV SWGR		

		Table 1 E
	Product warranty covering.	
	defects in materials and	
	workmanship of at least two (2)	
	years counting from the	MV Switchgear: 2 years
-	Commercial Operation Date for	
	MV SWGR	
	Transformers	
	The transformers will carry a	· · · · · · · · · · · · · · · · · · ·
	product warranty covering	
	defects in materials and	
	workmanship for a minimum of	'
	two (2) years from the	2 years
	Commercial Operation Date,	
	ensuring their reliability and	•
*	effectiveness throughout this	۳
	period.	
	Cables	2
	The Bidder warrants that all AC	
		~
	cables and associated primary and secondary equipment	
	i ' '	,
	provided for the solar farm	,
-	substation, including but not	•
	limited to switchgear,	-
	terminations, protection devices,	
	current transformers (CTs),	2
	voltage transformers (VTs),	2 years
	earthing systems, surge	
	arrestors, lightning protection,	
	and metering equipment, shall be	٠.
-	free from defects in materials and	
	workmanship. This warranty shall	
	apply for a period of at least two	
	(2) years from the Commercial	
	Operation Date (COD).	KINGO I
		KAPCO has ensured in its proposal that all the other
	Terms of warranty and	equipment provided for the solar farm project shall be as
	warranty period	per the RFP and free from defects in materials and
		workmanship.
	Extended warranty option	Extendable Warranty of Inverter provided
	Extended variancy operen	
	Compliance with RFP	Compliance, Letter attached
11	Plant performance: guarantee	values
	Plant performance; guarantee	88.12% as per PVSyst Report
	values	Social value of the systemetric
12	Execution and timeline	
4	· 一种 一种 · · · · · · · · · · · · · · · ·	the second section of the second section of the second section of the second section of the second section of the second section of the second section of the second section of the second section of the second section of the second section of the second section of the second section of the second section of the second section of the second section of the second section of the second section of the second section of the second section of the second section of the second section of the second section of the second section of the second section of the second section of the second section of the second section of the second section of the second section of the second section of the second section of the second section of the second section of the second section of the second section of the second section of the second section of the second section of the second section of the second section of the second section of the second section of the second section of the second section of the second section of the second section of the second section of the second section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the sect

# . # . t	Detailed Structure and Logical Timeline Sustainability and feasibility of proposed tasks	KAPCO has provided a detailed timeline that starts with contract effectiveness and design in July 2025, followed by procurement, civil works, and construction mobilization in August and September. Key activities include site preparation, foundation work, and bracket installation. From December 2025 to early 2026, component installation, cable laying, and transformer setup occur. Milestones include substation transformer installation, first grid connection, and COD in May 2026, with final testing, debugging, and grid connection at the project's conclusion. The tasks mentioned in KAPCO timelines are carefully structured and seem sustainable and feasible.
Ţ3.	Corporate Social Responsibility	/Ability to contribute towards local economy
j	Percentage of Local Workforce	Committed for 75% Local Employment
	*^. *	KAPCO's CSR initiatives focus on education and skill development in local communities. The construction of a multipurpose/examination hall at Govt. Girls High School in
	Training and Skill Development	Mochiwala supports both school functions and examination
1	Programs	activities, benefiting students in Kot Addu. Additionally, KAPCO partners with Akhuwat Islamic Microfinance under
	•	the "Power with Prosperity" initiative to offer interest-free
		microfinance loans, fostering skill development and
		entrepreneurship. An additional list of similar activities has
		also been provided by KAPCO.
-	·	KAPCO's proposal outlines a community engagement strategy that includes a plan for outreach initiatives. KAPCO
		has actively engaged in community outreach, providing
	\$ *	direct support in times of need. Their flood relief activities
-	_	in Kot Addu, with a Rs. 30 million donation and collaboration
	Community Outreach and	with the Pak Army and Australian Air Force, highlight their
	Engagement Initiatives	role in disaster management. Moreover, free medical and
		eye camps, with a cumulative project cost of Rs. 31.7 million. have directly impacted over 60,000 patients and performed
	·	571 eye surgeries, further demonstrating KAPCO's
		commitment to the health and welfare of local
		communities.
"		KAPCO's philanthropic efforts focus on long-term
	" •	community development. Key projects include the rehabilitation of the ICU ward at Tehsil Head Quarter
,	, ·	Hospital in Kot Addu and the construction of a fire and
		rescue station, which has responded to 315 incidents,
• •	Philanthropic Initiatives	saving lives and property. They also funded the renovation
	*** <u>*</u>	of Govt. Boys High School No. 1, enhancing the learning
		environment for around 1000 students. Additionally,
251 2		KAPCO has provided a list of further initiatives demonstrating their commitment to improving health.
		safety, and education in the region.

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Environmental Sustainability Initiatives

KAPCO's CSR strategy also incorporates environmental sustainability. Their focus on renewable energy projects, such as the development of solar power plants, aims to reduce environmental footprints while simultaneously providing reliable energy to the community.



Annexure F: Draft Energy Purchase Agreement



Reference No. BD/MZ/NEPRA-1072/2024-0924 September 24, 2024

The Registrar,

National Electric Power Regulatory Authority ("NEPRA"/ "Authority")

NEPRA Tower,

Attaturk Avenue (East),

G-5/1,

Islamabad

Subject:

Competitive Auction for 150 MW Solar Project at Deh Mehta Ghar and 120MW

Solar Project at Deh Halkani (the "Projects")

Dear Sir,

We write this letter in continuation to our letter having reference no. Ref No. BD/SQK/NEPRA/08/2024-1308 dated Aug 13, 2024 of the Projects.

In this regard, we would like to apprise NEPRA that based on comments received from the bidders, KE has revised the draft Energy Purchase Agreement ("EPA"). Accordingly, the final draft of EPA of the Projects is enclosed in Annexure A and Annexure B for your consideration.

·Sincerely,

Mudasel Zuber

Head of Business Development

Enclosed:

Annexure A - Energy, Purchase Agreement (150 MW Solar Project at Deh Metha Ghar)

Annexure B - Energy Purchase Agreement (120 MW Solar Project at Deh Halkani)

K-Electric Limited

39-B KE House Sunset Boulevard, DHA- Phase 2, Karachi, Pakistan



Annexure G: Technical Scoring Sheet

	Table 12: Annex G: Technical Scoring She	et	`-	-	
SI NO TE	Technical Evaluation Criteria	Sco	ore .	Score Bidder KAP	of CO
1	Components/equipment and technical solution	9	0		
	Solectanels so a way as a second				
	Efficiency			Acceptance of the	200 34002
	Annual degradation / guarantee		-		
	Lifetime			İ	
	Compliance with RFP		· ·	~ -	
	Track record]	-		
	novelingerees very system of the			i / vg	
	Efficiency				
	Track record				
	After sales service		, . - _[2]	-	
	Compliance with RFP				
	Mountine Studences PAS Cover Cover	rew.			
	P				
•	Trackers – single axis tracking system				
	Trackers – single axis tracking system Track record				
	Track record -				
	Track record Material of structure				
	Track record Material of structure Protection coating				
	Track record Material of structure Protection coating Compliance with RFP				
	Track record Material of structure Protection coating Compliance with RFP				
	Track record Material of structure Protection coating Compliance with RFP Balanceto Plant Track record of key equipment				
	Track record Material of structure Protection coating Compliance with RFP Balance of Plan Track record of key equipment Cable selection and sizing				
	Track record Material of structure Protection coating Compliance with RFP Balance of Plan Track record of key equipment Cable selection and sizing Auxiliary facilities and back up				
	Track record Material of structure Protection coating Compliance with RFP Balance of Reperiment Track record of key equipment Cable selection and sizing Auxiliary facilities and back up Security, surveillance and fire fighting				
	Track record Material of structure Protection coating Compliance with RFP Balaicety Plan Track record of key equipment Cable selection and sizing Auxiliary facilities and back up Security, surveillance and fire fighting Earthing, grounding, lightning protection				

Manufacturer track record		
Monitoring parameters and integration	-	
Data backup and storage		
Compliance with RFP		
e/dipanciation dispersion		
Key staff (organization; qualification/experience		
and facilities)		-
Emergency spares, list and necessary stock		
Pality Syntehore at the second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second		
Compliance with RFP, grid code and applicable policies by Power Purchaser		
Track record & quality of main equipment		
Historical performance in local environment		
oaton vojage no nije sajne dies 42 gez (12		
Buildings and ancillary facilities		-
Flood mitigation measures	 · · -	
Plant accessibility - internal & external roads		•
fencing		
Compliance with RFP and all necessary regulatory	-	
standards		
Penroekomunikasuaranteevalmesentessa		
Performance Ratio		
Velocity and the second second		
PV Modules		
Inverters	1.	
Mounting structures (single axis)		
Switchgears	<u>.</u>	
Transformers		
Cables -		
Terms of warranty and warranty period	1	a.
Extended warranty option	-	
Compliance with RFP		
axe-grion regimelling and the second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second		
Detailed, structured and logic time schedule		

	Suitability and feasibility of proposed tasks			
	kontributer (ova razlaret eronomya * 450 k. z. *			
 _ ' .	TOTAL	10	0	88

en i jaro grava per ja salajemoj. Salajemoj programa programa programa programa programa programa programa programa programa programa programa p Programa programa programa programa programa programa programa programa programa programa programa programa programa programa programa programa programa programa programa programa programa programa programa programa programa programa programa programa programa programa programa programa programa programa programa programa programa programa programa programa programa programa programa programa programa programa programa programa programa programa programa programa programa programa programa programa programa programa programa programa programa programa programa programa programa programa programa programa programa programa programa programa programa programa programa programa programa programa programa programa programa programa programa programa programa programa programa programa programa programa programa programa programa programa programa programa programa programa programa programa programa programa programa programa programa programa programa programa programa programa programa programa programa programa programa programa programa programa programa programa programa programa programa programa programa programa programa programa programa programa programa programa programa programa programa programa programa programa programa programa programa programa programa programa programa programa programa programa programa programa programa programa programa programa programa programa programa programa programa programa programa programa programa programa programa programa programa programa programa programa programa programa programa programa programa programa programa programa programa programa programa programa programa programa programa programa programa programa programa programa programa programa programa programa programa programa programa programa programa programa programa programa programa programa programa programa programa programa programa programa programa pr



Annexure H: Reasons for Disqualification in the Prequalification Round

	Table 13: Annex H: Reasons for Disqualification in Prequalification Round						
はないない みずない	S. No.	Name of Participants	Evaluation Year	Reason for Disqualification			
	1	Trans Tech Solutions	2023	The Applicant failed to provide supporting documents for project development and ownership of commissioned projects. While the other two projects are in the development stage.			
	.2	Reon Energy	2023 ·	The Applicant's sister company has the requisite experience of development, shareholding and O&M. However, the applicant did not provide the letter of support and undertaking from the Parent Company to qualify both technically and financially, as required under the RFQ, despite several reminders and extension.			
	3,	Total Network - Solutions	2023 .	The Applicant did not submit a complete application. The documents were insufficient to assess the Applicant's qualification against the technical and financial criteria.			
	4	Hecate Global Renewable Energy	2023	The Applicant did not meet the financial criteria of the RFQ except for annual turnover for one site only.			
	5	Kohinoor Energy Limited	2024	Despite continuous attempts at receiving the documentation from Kohinoor the documents provided for both technical and financial qualification were insufficient. Technical Remarks: Kohinoor does not have any power plant commissioning experience in the last 10 years. Furthermore, technical experience of its consortium partner "Ningo Green Light Energy Group Co. Ltd" is not verified since the supporting documents are not provided. Financial Remarks: Minimum liquidity requirement for one project is USD 25Mn while total liquidity of the applicant as a consortium is USD 7.3Mn.			



Annexure I: Notification for Extension in Bid Submission Deadline



Reference No. BD/SQK/NEPRA/08/2024-1308

Aug 13, 2024

The Registrar,
National Electric Power Regulatory Authority ("NEPRA"/ "Authority")
NEPRA Tower,
Attaturk Avenue (East),
G-5/1,
Islamabad

Subject:

Competitive Auction for 150 MW Solar Project at Deh Metha Ghar and 120 MW

Solar Project at Deh Halkani (the "Projects")

Dear Sir,

We write this in continuation of our letter having reference number BD/MZ/NEPRA-1065/2024-0905 dated 12th June 2024 wherein K-Electric ("KE") apprised the Honourable NEPRA Authority of issuance of Request for Proposal (RFP)s of the Projects with the prospective bidders.

In this context, we would like to apprise the Honourable NEPRA Authority that due to the resettlement issues on the allocated land, Government of Sindh ("GoS") has revised the site coordinates for the Projects. Resultantly, the technical assessments that are related to land, including but not limited to soil testing, topographic study, contour map, flood risk assessment, tentative layout of the plant and yield assessment have to be updated in the feasibility study.

Similarly, the prospective bidders have also highlighted the same concerns and have requested KE for the extension in Bid submission deadline (Enclosed as Annexure 1) since the revision in site coordinates will have the technical and commercial implications on the bid and will require detailed evaluation.

In view of the above, we are extending the bid submission deadline for the Projects (as provided below) and would like to intimate the same to the Authority for its kind consideration:

S. No.	Project Name	Bid Submission Deadline (Original)	Bid Submission Deadline (Revised)
1	150 MW SSEP Solar Projects at Deh Metha Ghar	15-Aug-2024	30-Sept-2024
2	120 MW SSEP Solar Projects at Deh Halkani	15-Aug-2024	30-Sept-2024

We look forward to your usual support and cooperation in the matter.

Sincerely.

Shahab Qader Khan Chief Strategy Officer

Enclosed:

Annexure 1 – Requests from Applicants for extension

K-Electric Limited

39-B KE House Sunset Boulevard, DHA- Phase 2, Karachi, Pakistan



406-407, 4th Floor, the Plaza at Do Talwar Block 9, Clifton, Karachi-75600, Pakistan Tel: +9221-35838871-6 (six lines) Fax: +9221-35838879 Email: kandt@kandtlav.com Wabsite: waw kandtlav.com

MEMORANDUM K-ELECTRIC LIMITED (THE "COMPANY")

We write with reference to the competitive bidding being carried out by the Company for the 120 MW solar power project to be located at Deh Halkani, Sindh (the "Project"). In this context, we had been informed that the Company have only received one bid for the Project. We wish to draw the attention to Regulation 12(1)(i) of the National Electric Power Regulatory Authority (Electric Power Procurement) Regulations, 2022 (the "Regulations") provides:

"the competitive auction will have at least two qualified bidders, where any bidder shall not have commercial interest in any of the other bidders:

Provided that in special circumstances and exigency, subject to approval of the Authority, the Independent Auction Administrator or supplier of last resort conducting the competitive auction, as the case may be, may accept the bid of a single qualified bidder if the said bid does not exceed the benchmark tariff"

In view of the foregoing, Regulation 12(1)(i) of the Regulations requires that in order to carry out a competitive auction, there must be a minimum of two qualified bidders, however, the proviso to the said regulation entitles the National Electric Power Regulatory Authority ("NEPRA") to allow the acceptance of a bid of a single qualified bidder if such bid does not exceed the benchmark tariff. Accordingly, we would recommend approaching NEPRA for their approval in order for the Company to process the bid received for the Project. As there is no benchmark tariff, it would be even more prudent for the Company to seek NEPRA's approval before accepting any such single bid.

Kabsaji Halibuddin Kabraji & Talibuddin

1 October 2024



Annexure K: Reply of the Authority for Financial Bid Opening



WINTED STUD

SAMIONAL BERETHE POWER RESIDENCE OF ALTHOUSES

NH PRAULOWET Waterik Avenue (Past) G-5/1. Islamabad Dhone 2013200 Fax: 2500026

NOTIFICATOR TO CHILD THE FT OFF OF

Nevember 20, 2024

ClifefExecurive Officer
K-Electric Limited (KEE)
House No. 19-13 Amiset Boulevard.
Plasse If Defense Housing Amboria.
Kalachi

Subjects: COMPLEY IND AUCTION FOR LOMINDEH HALKANI SOLAR PROJECT

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(Masson Khai) Director