Request for Proposal

RFP FOR HIRING OF CONSULTANTS FOR STUDY AND ASSESMENT OF TRANSMISSION & DISTRIBUTION (T&D) TECHNICAL LOSSES OF HESCO NETWORKS FOR THE YEAR 2025-2026 (Consultancy Services)

International

Single Stage-Two Envelope

CORRIGENDUM # 3	CORR-P73624-003
Initiation Date	October 10, 2026

October 10, 2026

HESCO (Hyderabad Electric Supply Company (HESCO)),Manager
Room No.220, WAPDA Offices Complex, HESCO HQs, Hussainabad, Latifabad, Hyderabad (District), Hyderabad (Division), Sindh (Province).
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PROCUREMENT NOTICE

PROCUREMENT OF CONSULTANCY SERVICES

1. The **HESCO (Hyderabad Electric Supply Company (HESCO))** has reserved Funds for the procurement planned for FY **2026-27**. The **HESCO (Hyderabad Electric Supply Company (HESCO))** intends to apply part of the proceeds of this Fund to cover eligible payments under the contract for the consultancy services of "**RFP FOR HIRING OF CONSULTANTS FOR STUDY AND ASSESMENT OF TRANSMISSION & DISTRIBUTION (T&D) TECHNICAL LOSSES OF HESCO NETWORKS FOR THE YEAR 2025-2026**" with the reference of "**P73624**"

2. The **HESCO (Hyderabad Electric Supply Company (HESCO))** invites RFP through **EPADS v2.0** from eligible Bidders registered on **EPADS v2.0** for provision of Consultancy Services.

3. **Single Stage-Two Envelope** Procedure of Principal Method of Procurement (i.e. Open Competitive Bidding) will be used by adopting **Quality and Cost Based Selection (QCBS)**Technique for the subject procurement, in line with the Public Procurement Rules, 2004 and any Regulations, and Instructions issued by the Authority (from time to time).

4. All proposals must be accompanied by a Bid Security described in Bid Security Section in Bidding Document in the form of **Pay Order, Banker's Cheque, Call at Deposit, Bank Guarantee, Demand Draft** or Bid Securing Declaration on the prescribed format described.

5. E-Bidding documents, containing detailed terms & conditions, specifications and requirements etc. are available on **e-Pak Acquisition and Disposal System (EPADS)** at **https://epads.gov.pk/opportunities/federal/procurements/73624**.

6. The RFP, prepared in accordance with the instructions in the e-Bidding documents, must be submitted through **EPADS v2.0** on or before **Thursday, October 15, 2026 11:00 AM**. Proposals will be opened on the same day at **Thursday, October 15, 2026 11:30 AM**. Manual submission of RFPs shall

not be entertained. Those consultants/Firm who have not yet registered on the new version of **EPADS v2.0,** may register themselves on https://vendors.epads.gov.pk/. A tutorial to explain the registration process is available at https://www.youtube.com/watch?v=MNW6T38v7tc

In terms of Rules 48 of Public Procurement Rules, 2004 Grievance Redressal Committee (GRC) is notified for the subject procurement and notification copy is available on the procuring agency's website and also available on **EPADS v2.0** as well as Authority's website at (www.ppra.org.pk).

HESCO (Hyderabad Electric Supply Company (HESCO)), Manager
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Instructions to Bidders

A. General Provisions

1. **Introduction**

1.1. The Procuring Agency named in the Data Sheet intends to select a consultant, in accordance with the method of selection specified in the Data Sheet. The eligible Consultants are invited to submit a proposal, as specified in the Data Sheet, for consulting services required for the assignment named in the Data Sheet.

1.2. The Consultants should familiarize themselves with the local conditions and take them into account in preparing their Proposals, including attending a pre-proposal conference if one is specified in the Data Sheet. Attending any such pre-proposal conference is optional and is at the Consultants' expense.

1.3. The Procuring Agency will timely provide, at no cost to the Consultants, the inputs, relevant project data, and reports required for the preparation of the Consultant's Proposal as specified in the Data Sheet.

2. **Corrupt and Fraudulent Practices**

2.1. The procuring agencies and the consultant are required to compliance Procurement Regulatory Framework in regard to corrupt and fraudulent practices as defined under Rule 2(1)(f) of the Public Procurement Rules.

B. Preparation of Proposals

3. **General Considerations**

3.1. In preparing the Proposal, the Consultant is expected to examine the RFP in detail. Material deficiencies in providing the information requested in the RFP may result in rejection of the Proposal.

4. **Language**

5. The Proposal, as well as all correspondence and documents relating to the Proposal exchanged between the Consultant and the Procuring Agency, shall

be written in the language(s) specified in the Data Sheet.

Documents Comprising the Proposal

5.1. The Proposal shall comprise the documents and forms listed in the Data Sheet.

6. **Only One Proposal**

6.1. The Consultant (including the individual members of any Joint Venture) shall submit only one Proposal, either in its own name or as part of a Joint Venture in another Proposal. If a Consultant, including any Joint Venture member, submits or participates in more than one proposal, all such proposals shall be disqualified and rejected. This does not, however, preclude a Sub-consultant, or the Consultant's staff from participating as Key Experts and Non-Key Experts in more than one Proposal when circumstances justify and if stated in the **Data Sheet** and subject to regulatory instructions, if any.

7. **Proposal Validity**

7.1. Proposals shall remain valid for the period specified in the Data Sheet after the Proposal submission deadline prescribed by the Procuring Agency (PA). To ensure the validity of proposal, it shall contain bid security or bid Securing declaration as a complementary bid securing instrument having the validity twenty-eight days more than the bid validity period.

7.2. During this period, the Consultant shall maintain its original Proposal without any change, including the availability of the Key Experts, the proposed rates and the total price.

7.3. If it is established that any Key Expert nominated in the Consultant's Proposal was not available at the time of Proposal submission or was included in the Proposal without his/her confirmation, such Proposal shall be disqualified and rejected for further evaluation, and may be subject to blacklisting and debarment in accordance with Clause 5 of this ITC.

7.4. **Extension of Validity Period**

7.4.1. If considered necessary, an extension in the bid validity can be made in accordance with the provision of public procurement rules, 2004 or any instructions issued in this regard.

8. **Bid security/Bid Securing Declaration**

8.1. The consultant shall submit bid security in the form and amount specified by the procuring agency before the submission deadline. Provided that in case where the procuring agency does not require the bid security, the bidder shall submit bid securing declaration on the format prescribed by the Authority in Standard Procurement Documents.

8.2. Any Proposal not accompanied by a Bid Security or Bid Securing Declaration shall be rejected by the Procuring Agency as non-responsive.

8.3. The Bid Securing Declaration of a joint venture must be in the name of the joint venture submitting the Proposal indicating all the members are jointly and severely responsible.

8.4. The successful Consultant's Bid Securing Declaration will be discharged upon the signing the contract with the Successful Consultant, and furnishing the performance security

9. C**larification and Amendment of RFP**

9.1. The Consultant may request a clarification of any part of the RFP during the period indicated in the Data Sheet before three days prior to the Proposals' submission deadline through **EPADS v2.0** only. The Procuring Agency will respond to the same through **EPADS v2.0**. Should the Procuring Agency deem it necessary to amend the RFP as a result of a clarification or at its own initiative, it shall do so following the procedure described below:

9.1.1. At any time before the proposal submission deadline, the Procuring Agency may amend the RFP by issuing an amendment through **EPADS v2.0**.

9.1.2. If the amendment is substantial, the Procuring Agency may extend the proposal submission deadline to give the Consultants reasonable time to take an amendment into account in their Proposals.

9.2. The Consultant who has already submitted the proposal prior to any amendments in the RFP, may submit a modified Proposal based on the respective amendment in the RFP at any time prior to the proposal submission deadline. No modifications to the Technical or Financial Proposal shall be accepted after the deadline.

10. **Preparation of Proposals – Specific Considerations**

10.1. While preparing the Proposal, the Consultant must give particular attention to the following:

10.1.1. The Procuring Agency may indicate in the Data Sheet the estimated Key Experts' time input (expressed in person-month) or the Procuring Agency's estimated total cost of the assignment, but not both. This estimate is indicative and the Proposal shall be based on the Consultant's own estimates for the same.

10.1.2. If stated in the Data Sheet, the Consultant shall include in its Proposal at least the same time input (in the same unit as indicated in the Data Sheet) of Key Experts, failing which the Financial Proposal will be adjusted for the purpose of comparison of proposals and decision for award in accordance with the procedure in the Data Sheet.

10.1.3. For assignments under the Fixed-Budget selection method, the estimated Key Experts' time input is not disclosed. Total available budget, with an indication whether it is inclusive or exclusive of taxes, is given in the Data Sheet, and the Financial Proposal shall not exceed this budget.

10.1.4. The proposal may be subject to price adjustment in accordance with Data sheet and formula specified.

11. **Financial Proposal**

11.1. The Financial Proposal shall be prepared using the Standard Forms provided in the RFP. It shall list all costs associated with the assignment, including (a) remuneration for Key Experts and Non-Key Experts, (b) reimbursable expenses indicated in the Data Sheet.

12. **Taxes**

12.1. The proposal submitted shall be inclusive of all the taxes unless otherwise stated in the Data Sheet. The Consultant and its Sub-consultants and Experts are responsible for meeting all tax liabilities arising out of the Contract unless stated otherwise in the Data Sheet. Information on taxes in the Procuring Agency's country is provided in the Data Sheet.

13. **Currency of Proposal**

13.1. The Consultant may express the price for its Services in the currency or currencies as stated in the Data Sheet. If indicated in the Data Sheet, the portion of the price representing local cost shall be stated in the national currency. Payment shall also be made in the currency specified in the data sheet or condition of the contract.

C. Submission, Opening and Evaluation

14. **Submission/withdrawal of Proposals**

14.1. The Consultant shall submit proposal through **EPADS v2.0** before the submission deadline.

14.2. A Proposal submitted by a Joint Venture shall be submitted through **EPADS v2.0** from the account of Lead Member. Reference to the EPADS account of all the JV Member shall be provided along with the proposal. Incase any of Member is not registered on the **EPADS v2.0**, may be registered on the **EPADS v2.0** or all his credential shall be provided along with the proposal for the evaluation of the procuring agency. JV agreement signed by all the members shall also be provided along with the proposal.

14.3. A Consultant may withdraw its Proposal after it has been submitted before the submission deadline.

15. **Opening of Proposal**

15.1. The Procuring Agency will open all Proposal though **EPADS v2.0**.

15.2. Financial Proposal, will remain unopened till the prescribed financial Proposal opening date.

16. **Evaluation of Technical Proposals**

16.1. The Procuring Agency's evaluation committee shall evaluate the Technical Proposals on the basis of their responsiveness to the Terms of Reference and the RFP, applying the evaluation criteria, sub-criteria, and point system specified in the Data Sheet. Each responsive Proposal will be given a technical score. A Proposal shall be rejected at this stage if it does not respond to important aspects of the RFP or if it fails to achieve the minimum technical score indicated in the Data Sheet.

17. **Opening of Financial Proposals**

17.1. After the technical evaluation is completed, the Procuring Agency shall issue the Technical Evaluation Report containing all the information regarding responsiveness or non-responsiveness of the consultant along with the technical scores (if any). The Procuring shall notify those Consultants that have achieved the minimum overall technical score and inform them of the date andtime for the opening of the Financial Proposals.

17.2. The Financial Proposals shall be opened and evaluated through **EPADS v2.0.**

18. **Correction of Errors**

18.1. Activities and items described in the Technical Proposal but not priced in the Financial Proposal, shall be assumed to be included in the prices of other activities or items, and no corrections are made to the Financial Proposal.

18.2. The Procuring Agency’s evaluation committee will

(a) correct any computational or arithmetical errors, and

(b) adjust the prices if they fail to reflect all inputs included for the respective activities or items in the Technical Proposal. In case of discrepancy between (i) a partial amount (sub-total) and the total amount, or (ii) between the amount derived by multiplication of unit price with quantity and the total price, or (iii) between words and figures, the former will prevail. In case of discrepancy between the Technical and Financial Proposals in indicating quantities of input, the Technical Proposal prevails and the Procuring Agency’s evaluation committee shall correct the quantification indicated in the Financial Proposal so as to make it consistent with that indicated in the Technical Proposal, apply the relevant unit price included in the Financial Proposal to the corrected quantity, and correct the total Proposal cost.

19. **Conversion to Single Currency**

19.1. For the evaluation purposes, prices shall be converted to a single currency using the selling rates of exchange, source and date indicated in the Data Sheet.

20. **Selection Technique**

20.1. **Quality and Cost Based Selection**

In the case of QCBS, the total score is calculated by weighting the technical and financial scores and adding them as per the formula and instructions in the Data Sheet. The Consultant achieving the highest combined technical and financial score will be invited for negotiations.

20.2. **Fixed-Budget Selection (FBS)**

20.2.1. In the case of FBS, those Proposals that exceed the budget indicated in the Data Sheet shall be rejected.

20.2.2. The Procuring Agency will select the Consultant that submitted the highest-ranked Technical Proposal that does not exceed the budget indicated in the RFP, and invite such Consultant to negotiate the Contract.

20.3. **Least-Cost Selection.**

In the case of Least-Cost Selection (LCS), the Procuring Agency will select the Consultant with the lowest evaluated total price among those consultants that achieved the minimum technical score, and invite such Consultant for discussion on technical issues, without changing the cost and scope of services.

D. Negotiations and Award

21. **Negotiations**

21.1. The negotiations will be held at the date and address indicated in the Data Sheet with the Consultant's representative(s) who must have written power of attorney to negotiate and sign a Contract on behalf of the Consultant.

21.2. The negotiations include discussions of the Terms of Reference (TORs), the proposed methodology, the Procuring Agency's inputs, the special conditions of the Contract, and finalizing the "Description of Services" part of the Contract. These discussions shall not alter the original scope of services under the TORs or the terms of the contract, lest the quality of the final product, its price, or the relevance of the initial evaluation be affected.

22. **Availability of Key Experts**

22.1. The invited Consultant shall confirm the availability of all Key Experts included in the Proposal as a pre-requisite to the negotiations, or, if applicable, a replacement in accordance with Clauses of ITC. Failure to confirm the Key Experts' availability may result in the rejection of the Consultant's Proposal and the Procuring Agency proceeding to negotiate the Contract with the next-ranked Consultant.

22.2. Notwithstanding the above, the substitution of Key Experts at the negotiations may be considered if due solely to circumstances outside the reasonable control of and not foreseeable by the Consultant, including but not limited to death or medical incapacity. In such case, the Consultant shall offer a substitute Key Expert within the period of time specified in the letter

of invitation to negotiate the Contract, who shall have equivalent or better qualifications and experience than the original candidate.

23. **Award of Contract**

23.1. The Procuring Agency will award the Contract to the Consultant whose Proposal has been determined to be substantially responsive to the RFP Documents and who has been declared as Successful Consultant, provided that the same is not in conflict with any other law or policy of the Federal Government

24. **Grievance Redressal Mechanism**

24.1. Grievance shall be redressed in accordance with procedure and mechanism defined under Rule 48 of the Public Procurement Rules, 2004 and Redressal of Grievance regulations.

25. **Mechanism of Blacklisting**

25.1. The Blacklisting shall be carried out in accordance with provision of Rule 19 of the Public Procurement Rules, 2004 and for Procedure of Filing and Disposal of Review Petition under Rule 19 (3), 2021, to be read with the Regulations on "Mechanism for Blacklisting and Debarment of Bidders or Contractors Regulations, 2024".

26. **Environmental objectives**

26.1. As per Rule 4 of Public Procurement Rules, 2004, The procuring agency may seek to procure services with a reduced environmental impact throughout their life cycle when compared to services with the same primary function that may otherwise be procured

Bid Data Sheet

Proposal Data Sheet (BDS)

The following specific data for the procurement of Consultancy Services to be procured shall complement, supplement, or amend the provisions in the Instructions to Bidders (ITB). Whenever there is a conflict, the provisions herein shall prevail over those in ITB.

BDS Clause Number
ITB Number

Amendments of, and Supplements to, Clauses in the Instruction to Bidders

A. General

1

1.1

Name of Procuring Agency: **HESCO (Hyderabad Electric Supply Company (HESCO))**

The subject of procurement is: **RFP FOR HIRING OF CONSULTANTS FOR STUDY AND ASSESMENT OF TRANSMISSION & DISTRIBUTION (T&D) TECHNICAL LOSSES OF HESCO NETWORKS FOR THE YEAR 2025-2026**

Financial year for the operations of the Procuring Agency: **2026-27**

Name and identification number of the Contract: **P73624**

BDS Clause Number 2
ITB Number 1.2 & 9.1

The Bidders may seek clarifications through **EPADS v2.0**: Clarification Date: Monday, October 12, 2026

B. Preparation of Proposals

BDS Clause Number 3
ITB Number 4.1

The language of the proposals is: **English**

BDS Clause Number 4
ITB Number 6.1

Participation of Sub-consultants, Key Experts and Non-Key Experts in more than one Proposal is permissible? **No**

BDS Clause Number 6
ITB Number 7.1

Proposals shall be valid until **120 Days**

BDS Clause Number 7
ITB Number 9.1

List of documents required along with the bid:

1. Bid Security as per specification mentioned in data sheet.

2. For Software Dongle Valid License Certificate / Undertaking of arrangement (before commencement of project is required with respect to the Dongle of PSS/E, Synergee Electric & ARC GIS (latest version)

3. Valid Active Taxpayer Certificate (for Local Firms) only

4. Valid Active PEC Certificate (2026-27). (For Local Firms Only)

5. Certificate/undertaking confirming that the bidder is not blacklisted by any government /semi-government organization.

6. Certificate confirming that the bidder has no ongoing litigation that may affect the performance of the contract.

7. Certificate that the services offered are in accordance with the tender specifications including all amendments to date.

8. Copy of JV/Consortium agreement

9. Power of attorney of authorized representative

10. CVs as per format attached in accordance with the requirement of RFP

BDS Clause Number 8
ITB Number 10.2

The Consultant’s Proposal must include the minimum Key Experts’ time-input of _____person-months.

For the evaluation and comparison of Proposals only: if a Proposal includes less than the required minimum time-input, the missing time-input (expressed in

person-month) is calculated as follows:

The missing time-input is multiplied by the highest remuneration rate for a Key Expert in the Consultant's Proposal and added to the total remuneration amount. Proposals that quoted higher than the required minimum of time-input will not be adjusted.]

BDS Clause Number 9
ITB Number 105

The price shall be **Fixed**.

Price schedule will be provided according to the format defined and acquired. see section price schedule.

BDS Clause Number 10
ITB Number 11.1

The qualification criteria to establish the supply / production capability of the bidder.

see Eligibility Criteria

BDS Clause Number 11
ITB Number 7.6
Services and Their related documents:
See section Required Services and ToR

C. Submission, Opening and Evaluation

BDS Clause Number 12
ITB Number 8.1 & 8.2

The amount of Bid Security shall be as defined in Bid Security Section for items and lots given in **BDS 6**
The Bid Security shall be in the form of: **Pay Order, Banker's Cheque, Call at Deposit, Bank Guarantee, Demand Draft**

BDS Clause Number 13
ITB Number 13.1

Currency of the Bids shall be : **PKR**

BDS Clause Number 14
ITB Number 14.1

Proposal shall be submitted online on EPADS v2.0 whereas hard copy of the bid security should be submitted to the following;

Room No.220, WAPDA Offices Complex, HESCO HQs, Hussainabad, Latifabad, Hyderabad (District), Hyderabad (Division), Sindh (Province).

Bids that are not submitted on EPADS v2.0 shall be disqualified.

The deadline for Bids submission is: **Thursday, October 15, 2026 11:00 AM**

BDS Clause Number 15
ITB Number 15.1

The Bids opening shall take place on **EPADS v2.0**.

Day *:* ***Thursday***

Date: ***Thursday, October 15, 2026***

Time *:* ***11:30 AM***

BDS Clause Number 16
ITB Number 20

Selection technique adopted will be: **Quality and Cost Based Selection (QCBS)**
see Evaluation Criteria

F. Negotiation and Award

BDS Clause Number 18
ITB Number 21.5

The Performance guarantee shall: **10.00%**.

The Performance Guarantee shall be acceptable in the form of: **Bank Guarantee**

G. Review of Procurement Decisions

BDS Clause Number 19
ITB Number 24.1

Grievence against this procurement shall be submitted online on **EPADS v2.0**.

Eligibility Criteria

Bidder's Type	Required Registration
Individual / Individual Consultant Sole Proprietorship Partnership Firm Company (Private Limited) Company (Public Limited) Company (Limited by Guarantee) State Owned Enterprise (Private Limited) State Owned Enterprise (Public Limited)	None

Eligibility Criteria	Document
The assignment is open to consultants/firms registered with the relevant regulatory, tax (FBR/SRB), and professional authorities of Pakistan (for national firms), or reputable international firms/consortiums with demonstrated experience in T&D loss evaluation and GIS-based distribution studies for power utilities with prescribed minimum qualification from all the countries except INDIA and ISRAEL.	Yes

Evaluation Criteria

Quality and Cost Based Selection (QCBS)

Weightage

Technical Evaluation %	Financial Evaluation %
70	30

Technical Marks	100
Passing Marks	**70**
Technical Evaluation Criteria	
Consultant /Firm's Strength (Age of firm will be determined from firm registration date with respective registration authority or with FBR). Evidence must be attached (Quantitative)(Doc Required) Existence of Company over 10 years **(10)** Existence of Company from 05 to 10 years **(5)**	10

Firm's experience in terms of same or similar nature of work at local and international Level (Quantitative)(Doc Required) Firm's experience in terms of same or similar nature of work at local and international Level **(30)** The Firm shall demonstrate experience of successfully executing projects of the same or similar nature during the last ten (10) years, supported by the Contract Agreement and satisfactory Completion/Performance Certificate issued by the respective Client/Employer. Four (04) marks shall be awarded for each qualifying project having a minimum contract value of PKR 50 million (USD 0.2 million), with a maximum of five (05) projects considered for evaluation **(20)** Two (02) additional marks shall be awarded for each of the above qualifying projects successfully executed (outside Pakistan) International Experience **(10)**	30
Team Lead Education (Quantitative) (Doc Required) Team Lead should be Engineer in Electrical/Electronics and possess Master Degree as well. (Quantitative)(Doc Required) Team Lead Education Team Lead should be Engineer in Electrical/Electronics and possess Master Degree as well. **(6)**	6
Team Lead Experience (Quantitative)(Doc Required) Number of years of Experience over or equal 10 years (with minimum 5-years relevant experience) **(10)** If overall experience between 5 to 9 years with minimum 3 or above years relevant experience **(5)**	10
Qualification of Each Technical Member (Quantitative)(Doc Required) For 16 Years education in relevant field (Maximum 6 members, 02 marks will be awarded to each member) **(12)**	12

Experience of Each Technical Member (Quantitative)(Doc Required) For overall 06 years including 03 Years experience in relevant field (Maximum 6 members, 02 marks will be awarded to each member) **(12)**	12
Financial Capabilities	
Net-worth of the firm for last three years must be positive and audited by any chartered accounts firm or other authorized agency to be attached (Quantitative)(Doc Required) Annual Turnover above 250 million **(10)** Annual Turnover above 150 Million **(8)** Annual Turnover above 100 Million. **(5)**	10
Proposed work plan and methodology	
Adequacy of proposed work plan and methodology in response to TOR (Quantitative)(Doc Required)	10

Required Services

Positions Without Lots :

Position	Delivery Schedule	Quantity	Bid Security
HIRING OF CONSULTANTS FOR STUDY AND ASSESMENT OF TRANSMISSION & DISTRIBUTION (T&D) TECHNICAL LOSSES OF HESCO NETWORKS FOR THE YEAR 2025-2026	**Address:** Room No.220, WAPDA Offices Complex, HESCO HQs, Hussainabad, Latifabad, Hyderabad (District), Hyderabad (Division), Sindh (Province). **Schedule:** 540 Days **Quantity:** 1/job **Quantity:** 1 job	1/job	3500000 PKR

Related Services :

No

PUBLIC PROCUREMENT REGULATORY AUTHORITY (PPRA) EPADS

TORS (Terms of References)

Positions Without Lots :

Position: HIRING OF CONSULTANTS FOR STUDY AND ASSESMENT OF TRANSMISSION & DISTRIBUTION (T&D) TECHNICAL LOSSES OF HESCO NETWORKS FOR THE YEAR 2025-2026

TORs (Terms of Reference):

The key objectives of the assignment are to:

1. Determine technical losses at 132 kV, 66 kV, 11 kV, and 400/230 V levels using simulation-based load flow studies and validated field data.

2. Segregate technical and non-technical losses for accurate accountability.

3. Assess the impact of Distributed Energy Resources (DERs)/Solar PV Net Metering on loss estimation and energy accounting.

4. Develop validated network models, assumptions and benchmarks including benchmarking against peer and regional utilities as well as relevant international standards and best practices

5. Recommend least-cost, technically feasible loss reduction measures, with quantified impacts over the investment horizon.

6. Provide analytical outputs and documentation suitable for regulatory review and approval by NEPRA.

7. **Scope of Work** (General Requirements) **i.** The Firm shall employ internationally recognized engineering standards, validated methodologies, and industry-standard software tools (eg, PSS®E, Power-Factory, Synergi Electric, or equivalent) **ii.**All assumptions, data sources, adjustments, and limitations shall be clearly documented. **iii.**The Firm shall coordinate closely with HESCO and relevant system entities, the ISMO, the NGC and other concerned organizations, for data validation and reconciliation. **iv.**The study shall be completed and submitted in accordance with timelines prescribed, including presentation and defense before the NEPRA.

8.

Consolidated Distribution Loss Assessment Losses shall be computed and reported at Company, Circle, Division, Sub-Division, and Feeder levels.

9. Components: **i.** HT line losses. **ii.** DT losses (category and capacity-wise). **iii.** LT line and service cable losses. **iv.** Impact of DER/Net Metering on losses. **v.** Total Technical Distribution Losses (HT Line + Distribution Transformer + LT Line+ Service Cable)

10. **Investment Plan Review and Loss Reduction Strategy** : Review and validate HESCO investment plans for technical soundness and the anticipated five-year loss reduction trajectory, and to establish a validated baseline for future system

11. **Deliverables: The Firm shall submit: i.** Validated transmission and distribution simulation models. **ii.**detailed technical reports with **A**.Methodology **B**.Assumptions **C.**Resultsd **D.**Benchmarking **E**.Variance analysis **F**.Any other essential aspects **iii.**Loss-reduction recommendations with cost-benefit analysis. **iv.** Regulatory-ready documentation and presentations. **v.** Support for presentation, clarification, and defense before NEPRA and any consequential revisions thereof until approval. **Note: The detailed ToRs comprising part A & B is attached as Annexure-1**

Price Schedule

For Individual Positions

#	Position Title	Quantity	Unit Price (PKR)	Total Price (PKR)	Delivery Location	Delivery Period / Year	Country of Origin
1							
2							

For Lots

#	Lot Title	Total Lot Price (PKR)	Country of Origin
1	[Lot 1 Title]		

PUBLIC PROCUREMENT REGULATORY AUTHORITY
(PPRA)
EPADS

General Conditions of Contract

A. General Provisions

1. **Definitions**

Unless the context otherwise requires, the following terms whenever used in this Contract have the following meanings:

1.1. "**Affiliate(s)**" means an individual or an entity that directly or indirectly controls, is controlled by, or is under common control with the Consultant.

1.2. "**Applicable Law**" means the laws and any other instruments having the force of law in Pakistan or as may be specified in the Special Conditions of Contract (SCC), as they may be issued and in force from time to time.

1.3. "**Consultant**" means an individual consultant or a consulting firm as the case may be;

1.4. "**Contractor's Personnel**" means personnel whom the Contractor utilizes in the execution of its contract, including the staff, labor and other employees of the Contractor and each subcontractor; and any other personnel assisting the Contractor in the execution of the contract to be supervised by the Consultant (if applicable).

1.5. "**Day**" means calendar day unless indicated otherwise.

1.6. "**Effective Date**" means the date on which this Contract comes into force and effect pursuant to Clause GCC 11.

1.7. "**Experts**" means, collectively, Key Experts, Non-Key Experts, or any other personnel of the Consultant, Sub-consultant or JV member(s) assigned by the Consultant to perform the Services or any part thereof under the Contract.

1.8. "**Foreign Currency**" means any currency other than the Pakistani Rupees.

1.9. "**GCC**" means these General Conditions of Contract.

1.10. "**Government**" means the Government of Pakistan.

1.11. "**Joint Venture (JV)**" means an association with or without a legal personality distinct from that of its members, of more than one entity where one member has the authority to conduct all businesses for and on behalf of any and all the members of the JV, and where the members of the JV are jointly and severally liable to the Procuring Agency for the performance of the Contract.

1.12. "**Key Expert(s)**" means an individual professional whose skills, qualifications, knowledge and experience are critical to the performance of the Services under the Contract and whose Curricula Vitae (CV) was taken into account in the technical evaluation of the Consultant's proposal.

1.13. "**Local Currency**" means the currency of Pakistan

1.14. "**Non-Key Expert(s)**" means an individual professional provided by the Consultant or its Sub-consultant to perform the Services or any part thereof under the Contract.

1.15. "**Party**" means the Procuring Agency or the Consultant, as the case may be, and "Parties" means both of them.

1.16. Procuring Agency's Personnel" refers to the staff, labor and other employees (if any) of the Procuring Agency engaged in fulfilling the Procuring Agency's obligations under the Contract; and any other personnel identified as Procuring Agency's Personnel, by a notice from the Procuring Agency to the Consultant

1.17. "**Proposal**" means the Technical Proposal and/or the Financial Proposal of the Consultant.

1.18. "**RFP**" means the Request for Proposals to be prepared by the Procuring Agency for the selection of consultants, based on the SRFP.

1.19. "**SCC**" means the Special Conditions of Contract by which the GCC may be amended or supplemented but not over-written.

1.20. "**Site**" (if applicable) means the land and other places where Works are to be executed or facilities to be installed, and such other land or places as may be specified in the Contractor's Contract as forming part of the Site.

1.21. "**SRFP**" means the Standard Request for Proposals, which must be used by the Procuring Agency as the basis for the preparation of the RFP.

1.22. "**Sub-consultants**" means an entity to whom/which the Consultant subcontracts any part of the Services while remaining solely liable for the execution of the Contract.

1.23. "**Third Party**" means any person or entity other than the Government, the Procuring Agency, the Consultant or a Sub-consultant.

1.24. "**TORs**" means the Terms of Reference that explain the objectives, scope of work, activities, and tasks to be performed, respective responsibilities of the Procuring Agency and the Consultant, and expected results and deliverables of the assignment.

2. Relationship between the Parties

2.1. Nothing contained herein shall be construed as establishing a relationship of master and servant or of principal and agent as between the Procuring Agency and the Consultant. The Consultant, subject to this Contract, has complete charge of the Experts and Sub-consultants, if any, performing the Services and shall be fully responsible for the Services performed by them or on their behalf hereunder.

3. Law Governing Contract

3.1. The contract shall be governed and interpreted in accordance with the laws of Pakistan, unless otherwise specified in SCC.

4. Language

4.1. The Contract as well as all correspondence and documents relating to the Contract exchanged between the Consultant and the Procuring Agency, shall be written in the English language unless otherwise stated in the SCC. Supporting documents and printed literature that are part of the Contract may be in another language provided these are accompanied by an accurate translation of the relevant passages in English, in which case, for purposes of interpretation of the Contract, this translation shall govern.

5. Headings

5.1. The headings shall not limit, alter or affect the meaning of this Contract.

6. **Communications**

6.1. Any communication required or permitted to be given or made pursuant to this Contract shall be in writing in the language specified in Clause GCC 4. Any such notice, request or consent shall be deemed to have been given or made when delivered in person to an authorized representative of the Party to whom the communication is addressed, or when sent to such Party at the address specified in the SCC.

6.2. A Party may change its address for notice hereunder by giving the other Party any communication of such change to the address specified in the SCC.

7. Location

7.1. The Services shall be performed at such locations as are specified in Appendix A hereto and, where the location of a particular task is not so specified, at such locations, whether in the Government's country or elsewhere, as the Procuring Agency may approve.

8. **Authority of Member in Charge**

8.1. In case the Consultant is a Joint Venture, the members hereby authorize the member specified in the SCC to act on their behalf in exercising all the Consultant's rights and obligations towards the Procuring Agency under this Contract, including without limitation the receiving of instructions and payments from the Procuring Agency.

9. **Authorized Representatives**

9.1. Any action required or permitted to be taken, and any document required or permitted to be executed under this Contract by the Procuring Agency or the Consultant may be taken or executed by the officials specified in the SCC.

10. **Fraud and Corruption**

10.1. Public Procurement Regulatory Authority requires that Procuring Agencies (including beneficiaries of Government funded projects) as well as Applicants/Bidders/Suppliers/Contractors under Government financed contracts, observe the highest standard of ethics during the procurement and execution of such contracts in accordance with the requirement of Procurement Regulatory Framework

B. Commencement, Completion, Modification and Termination of Contract

11. **Effectiveness of Contract**

11.1. This Contract shall come into force and effect on the date (the "Effective Date") of the Procuring Agency's notice to the Consultant instructing the Consultant to begin carrying out the Services. This notice shall confirm that the effectiveness conditions, if any, listed in the SCC have been met.

12. **Termination of Contract for Failure to Become Effective**

12.1. If this Contract has not become effective within such time period after the date of Contract signature as specified in the SCC, either Party may, by not less than twenty two (22) days written notice to the other Party, declare this Contract to be null and void, and in the event of such a declaration by either Party, neither Party shall have any claim against the other Party with respect hereto.

13. **Commencement of Services**

13.1. The Consultant shall confirm availability of Key Experts and begin carrying out the Services not later than the number of days after the Effective Date specified in the SCC.

14. **Expiration of Contract**

14.1. Unless terminated earlier pursuant to Clause GCC 19 hereof, this Contract shall expire at the end of such time period after the Effective Date as specified in the SCC.

15. **Entire Agreement**

15.1. This Contract contains all covenants, stipulations and provisions agreed by the Parties. No agent or representative of either Party has authority to make, and the Parties shall not be bound by or be liable for, any statement, representation, promise or agreement not set forth herein.

16. **Modifications or Variations**

16.1. Any modification or variation of the terms and conditions of this Contract, including any modification or variation of the scope of the Services, may only be made by written agreement between the Parties. However, each Party shall give due consideration to any proposals for modification or variation made by the other Party.

16.2. In cases of any modifications or variations, the prior written consent of the Procuring Agency is required.

17. **Force Majeure**

17.1. **Definition**

17.1.1. For the purposes of this Contract, “Force Majeure” means an event which is beyond the reasonable control of a Party, is not foreseeable, is unavoidable, and makes a Party’s performance of its obligations hereunder impossible or so impractical as reasonably to be considered impossible under the circumstances, and subject to those requirements, includes, but is not limited to, war, riots, civil disorder, earthquake, fire, explosion, storm, flood or other adverse weather conditions, strikes, lockouts or other industrial action confiscation or any other action by Government agencies.

17.1.2. Force Majeure shall not include (i) any event which is caused by the negligence or intentional action of a Party or such Party’s Experts, Sub-consultants or agents or employees, nor (ii) any event which a diligent Party could reasonably have been expected to both take into account at the time of the conclusion of this Contract, and avoid or overcome in the carrying out of its obligations hereunder.

17.1.3. Force Majeure shall not include insufficiency of funds or failure to make any payment required hereunder.

17.2. **No Breach of Contract**

17.2.1. The failure of a Party to fulfill any of its obligations hereunder shall not be considered to be a breach of, or default under, this Contract insofar as such inability arises from an event of Force Majeure, provided that the Party affected by such an event has taken all reasonable precautions, due care and reasonable alternative measures, all with the objective of carrying out the terms and conditions of this Contract.

17.3. **Measures to be Taken**

17.3.1. A Party affected by an event of Force Majeure shall continue to perform its obligations under the Contract as far as is reasonably practical, and shall take all reasonable measures to minimize the consequences of any event of Force Majeure.

17.3.2. A Party affected by an event of Force Majeure shall notify the other Party of such event as soon as possible, and in any case not later than fourteen (14) calendar days following the occurrence of such event, providing evidence of the nature and cause of such event, and shall similarly give written notice of the restoration of normal conditions as soon as possible.

17.3.3. Any period within which a Party shall, pursuant to this Contract, complete any action or task, shall be extended for a period equal to the time during which such Party was unable to perform such action as a result of Force Majeure.

17.3.4. During the period of their inability to perform the Services as a result of an event of Force Majeure, the Consultant, upon instructions by the Procuring Agency, shall either:

17.3.4.1. demobilize, in which case the Consultant shall be reimbursed for additional costs they reasonably and necessarily incurred, and, if required by the Procuring Agency, in reactivating the Services; or

17.3.4.2. continue with the Services to the extent reasonably possible, in which case the Consultant shall continue to be paid under the terms of this Contract and be reimbursed for additional costs reasonably and necessarily incurred.

17.3.5. In the case of disagreement between the Parties as to the existence or extent of Force Majeure, the matter shall be settled according to Clauses GCC 49& 50.

18. **Suspension**

18.1. The Procuring Agency may, by written notice of suspension to the Consultant, suspend all payments to the Consultant hereunder if the Consultant fails to perform any of its obligations under this Contract, including the carrying out of the Services, provided that such notice of suspension (i) shall specify the nature of the failure, and (ii) shall request the Consultant to remedy such failure within a period not exceeding thirty (30) calendar days after receipt by the Consultant of such notice of suspension.

19. **Termination**

19.1. This Contract may be terminated by either Party as per provisions set up below:

a) **By the Procuring Agency**

19.1.1. The Procuring Agency may terminate this Contract in case of the occurrence of any of the events specified in paragraphs (a) through (f) of this Clause. In such an occurrence the Procuring Agency shall give at least thirty (30) days' written notice of termination to the Consultant in case of the events referred to in (a) through (d); at least sixty (60) days' written notice in case of the event referred to in (e); and at least five (5) days' written notice in case of the event referred to in (f):

(a) If the Consultant fails to remedy a failure in the performance of its obligations hereunder, as specified in a notice of suspension pursuant to Clause GCC 18;

(b) If the Consultant becomes (or, if the Consultant consists of more than one entity, if any of its members becomes) insolvent or bankrupt or enter into any agreements with their creditors for relief of debt or take advantage of any law for the benefit of debtors or go into liquidation or receivership whether compulsory or voluntary;

(c) If the Consultant fails to comply with any final decision reached as a result of arbitration proceedings pursuant to Clause GCC 49

(d) If, as the result of Force Majeure, the Consultant is unable to perform a material portion of the Services for a period of not less than sixty (60) days;

(e) If the Procuring Agency, in its sole discretion and for any reason whatsoever, decides to terminate this Contract;

(f) If the Consultant fails to confirm availability of Key Experts as required in Clause GCC 13.

19.1.2. if the Consultant, in the judgment of the Procuring Agency has engaged in Fraud and Corruption, in competing for or in executing the Contract, then the Procuring Agency may, after giving fourteen (14) calendar days written notice to the Consultant, terminate the Consultant's employment under the Contract.

19.2. **By the Consultant**

The Consultant may terminate this Contract, by not less than thirty (30) days' written notice to the Procuring Agency, in case of the occurrence of any of the events specified in paragraphs (a) through (d) of this Clause.

(a) If the Procuring Agency fails to pay any money due to the Consultant pursuant to this Contract and not subject to dispute pursuant to Clauses GCC 49.1 within forty-five (45) days after receiving written notice from the Consultant that such payment is overdue.

(b) If, as the result of Force Majeure, the Consultant is unable to perform a material portion of the Services for a period of not less than sixty (60) days.

(c) If the Procuring Agency fails to comply with any final decision reached as a result of arbitration pursuant to Clause GCC 49.1.

(d) If the Procuring Agency is in material breach of its obligations pursuant to this Contract and has not remedied the same within forty-five (45) days (or such longer period as the Consultant may have subsequently approved in writing) following the receipt by the Procuring Agency of the Consultant's notice specifying such breach.

19.3. **Cessation of Rights and Obligations**

Upon termination of this Contract pursuant to Clauses GCC 12 or GCC 19 hereof, or upon expiration of this Contract pursuant to Clause GCC 14, all rights and obligations of the Parties hereunder shall cease, except

(i) such rights and obligations as may have accrued on the date of termination or expiration,

(ii) the obligation of confidentiality set forth in Clause GCC 22,

(iii) the Consultant's obligation to permit inspection, copying and auditing of their accounts and records set forth in Clause GCC 25 and to cooperate and assist in any inspection or investigation, and (iv) any right which a Party may have under the Applicable Law.

19.4. **Cessation of Services**

19.4.1. Upon termination of this Contract by notice of either Party to the other pursuant to Clauses GCC 19a or GCC 19b, the Consultant shall, immediately upon dispatch or receipt of such notice, take all necessary steps to bring the Services to a close in a prompt and orderly manner and shall make every reasonable effort to keep expenditures for this purpose to a minimum. With respect to documents prepared by the Consultant and equipment and materials furnished by the Procuring Agency, the Consultant shall proceed as provided, respectively, by Clauses GCC 27 or GCC 28.

19.5. **e.Payment upon Termination**

Upon termination of this Contract, the Procuring Agency shall make the following payments to the Consultant:

(a) remuneration for Services satisfactorily performed prior to the effective date of termination, and reimbursable expenditures for expenditures actually incurred prior to the effective date of termination; and pursuant to Clause 43;

(b) in the case of termination pursuant to paragraphs (d) and (e) of Clause GCC 19.1.1, reimbursement of any reasonable cost incidental to the prompt and orderly termination of this Contract, including the cost of the return travel of the Experts.

C. Obligations of the Consultant

20. **General**

20.1. **Standard of Performance**

20.1.1. The Consultant shall perform the Services and carry out the Services with all due diligence, efficiency and economy, in accordance with generally accepted professional standards and practices, and shall observe sound management practices, and employ appropriate technology and safe and effective equipment, machinery, materials and methods. The Consultant shall always act, in respect of any matter relating to this Contract or to the Services, as a faithful adviser to the Procuring Agency, and shall at all times support and safeguard the Procuring Agency's legitimate interests in any dealings with the third parties.

20.1.2. The Consultant shall employ and provide such qualified and experienced Experts and Sub-consultants as are required to carry out the Services.

20.1.3. The Consultant may subcontract part of the Services to an extent and with such Key Experts and Sub-consultants as may be approved in advance by the Procuring Agency

20.2. **Law Applicable to Services**

20.2.1. The Consultant shall perform the Services in accordance with the Contract and in accordance with the Law of Pakistan and shall take all practicable steps to ensure that any of its Experts and Sub-consultants, comply with the Applicable Law.

21. **Conflict of Interests**

21.1. The Consultant shall hold the Procuring Agency's interest's paramount, without any consideration for future work, and strictly avoid conflict with other assignments or their own corporate interests.

21.1.1. **Consultant Not to Benefit from Commissions, Discounts, etc.**

21.1.1.1. The payment of the Consultant pursuant to GCC F (Clauses GCC 42 through 47) shall constitute the Consultant's only payment in connection with this Contract and, subject to Clause GCC 21.1.3, the Consultant shall not accept for its own benefit any trade commission, discount or similar payment in connection with activities pursuant to this Contract or in the discharge of its obligations hereunder, and the Consultant shall use its best efforts to ensure that any Sub-consultants, as well as the Experts and agents of either of them, similarly shall not receive any such additional payment.

21.1.1.2. Furthermore, if the Consultant, as part of the Services, has the responsibility of advising the Procuring Agency on the procurement of goods, works or services. Any discounts or commissions obtained by the Consultant in the exercise of such procurement responsibility shall be for the account of the Procuring Agency.

21.1.2. **Consultant and Affiliates Not to Engage in Certain Activities**

21.1.2.1. The Consultant agrees that, during the term of this Contract and after its termination, the Consultant and any entity affiliated with the Consultant, as well as any Sub-consultants and any entity affiliated with such Sub-consultants, shall be disqualified from providing goods, works or non-consulting services resulting from or directly related to the Consultant's Services for the preparation or implementation of the project, unless otherwise indicated in the SCC.

21.1.3. **Prohibition of Conflicting Activities**

21.1.3.1. The Consultant shall not engage, and shall cause its Experts as well as its Sub-consultants not to engage, either directly or indirectly, in any business or professional activities that would conflict with the activities assigned to them under this Contract.

21.1.4. **Strict Duty to Disclose Conflicting Activities**

21.1.4.1. The Consultant has an obligation and shall ensure that its Experts and Sub-consultants shall have an obligation to disclose any situation of actual or potential conflict that impacts their capacity to serve the best interest of their Procuring Agency, or that may reasonably be perceived as having this effect. Failure to disclose said situations may lead to the disqualification of the Consultant or the termination of its Contract.

22. **Confidentiality**

22.1. Except with the prior written consent of the Procuring Agency, the Consultant and the Experts shall not at any time communicate to any person or entity any confidential information acquired in the course of the Services, nor shall the Consultant and the Experts make public the recommendations formulated in the course of, or as a result of, the Services.

23. **Liability of the Consultant**

23.1. Subject to additional provisions, if any, set forth in the SCC, the Consultant's liability under this Contract shall be as determined under the Applicable Law.

24. **Insurance to be Taken out by the Consultant**

24.1. The Consultant (i) shall take out and maintain, and shall cause any Sub-consultants to take out and maintain, at its (or the Sub-consultants', as the case may be) own cost but on terms and conditions approved by the Procuring Agency, insurance against the risks, and for the coverage specified in the SCC, and (ii) at the Procuring Agency's request, shall provide evidence to the Procuring Agency showing that such insurance has been taken out and maintained and that the current premiums therefore have been paid. The Consultant shall ensure that such insurance is in place prior to commencing the Services as stated in Clause GCC 13.

25. **Accounting, Inspection and Auditing**

25.1. The Consultant shall keep, and shall make all reasonable efforts to cause its Sub-consultants to keep, accurate and systematic accounts and records in respect of the Services in such form and detail as will clearly identify relevant time changes and costs.

25.2. Pursuant to paragraph 1.23 (e) of Attachment 1 to the General Conditions, the Consultant shall permit and shall cause its agents (where declared or not), subcontractors, sub-consultants, service providers, suppliers, and personnel, to permit, the procuring agency to inspect the site and/or the accounts, records and other documents relating to the procurement process, selection and/or contract execution, and to have such accounts, records and other documents. The Consultant's and its Subcontractors' and sub-consultants' attention is drawn to Sub-Clause 10.1 (Fraud and Corruption) which provides, inter alia, that acts intended to materially impede the exercise of the Procuring Agency's inspection and audit rights constitute a prohibited practice subject to contract termination.

26. **Reporting Obligations**

26.1. The Consultant shall submit to the Procuring Agency the reports and documents specified in Appendix A, in the form, in the numbers and within the time periods set forth in the said Appendix.

27. **Proprietary Rights of the Procuring Agency in Reports and Records**

27.1. Unless otherwise indicated in the SCC, all reports and relevant data and information such as maps, diagrams, plans, databases, other documents and software, supporting records or material compiled or prepared by the Consultant for the Procuring Agency in the course of the Services shall be confidential and become and remain the absolute property of the Procuring Agency. The Consultant shall, not later than upon termination or expiration of this Contract, deliver all such documents to the Procuring Agency, together with a detailed inventory thereof. The Consultant may retain a copy of such documents, data and/or software but shall not use the same for purposes unrelated to this Contract without prior written approval of the Procuring Agency.

27.2. If license agreements are necessary or appropriate between the Consultant and third parties for purposes of development of the plans, drawings, specifications, designs, databases, other documents and software, the Consultant shall obtain the Procuring Agency's prior written approval to such agreements, and the Procuring Agency shall be entitled at its discretion to require recovering the expenses related to the development of the program(s) concerned. Other restrictions about the future use of these documents and software, if any, shall be

specified in the SCC.

28. **Equipment, Vehicles and Materials**

28.1. Equipment, vehicles and materials made available to the Consultant by the Procuring Agency, or purchased by the Consultant wholly or partly with funds provided by the Procuring Agency, shall be the property of the Procuring Agency and shall be marked accordingly. Upon termination or expiration of this Contract, the Consultant shall make available to the Procuring Agency an inventory of such equipment, vehicles and materials and shall dispose of such equipment, vehicles and materials in accordance with the Procuring Agency's instructions. While in possession of such equipment, vehicles and materials, the Consultant, unless otherwise instructed by the Procuring Agency in writing, shall insure them at the expense of the Procuring Agency in an amount equal to their full replacement value.

28.2. Any equipment or materials brought by the Consultant or its Experts into the Procuring Agency's country for the use either for the project or personal use shall remain the property of the Consultant or the Experts concerned, as applicable.

29. **Code of Conduct**

29.1. The Procuring Agencies and the Consultant are bound to follow the Code of Ethics to be issued by the Authority.

D. Consultant's Experts and Sub-Consultants

30. **Description of Key Experts**

30.1. The title, agreed job description, minimum qualification and time-input estimates to carry out the Services of each of the Consultant's Key Experts are described in Appendix B.

30.2. If required to comply with the provisions of Clause GCC 20a, adjustments with respect to the estimated time-input of Key Experts set forth in Appendix B may be made by the Consultant by a written notice to the Procuring Agency, provided (i) that such adjustments shall not alter the original time-input estimates for any individual by more than 10% or one week, whichever is larger; and (ii) that the aggregate of such adjustments shall not cause payments under this Contract to exceed the ceilings set forth in Clause GCC 42.2.

30.3. If additional work is required beyond the scope of the Services specified in Appendix A, the estimated time-input for the Key Experts may be increased by agreement in writing between the Procuring Agency and the Consultant. In case where payments under this Contract exceed the ceilings set forth in Clause GCC 42.2, the Parties shall sign a Contract amendment.

31. **Replacement of Key Experts**

31.1. Except as the Procuring Agency may otherwise agree in writing, no changes shall be made in the Key Experts.

31.2. Notwithstanding the above, the substitution of Key Experts during Contract execution may be considered only based on the Consultant's written request and due to circumstances outside the reasonable control of the

Consultant, including but not limited to death or medical incapacity. In such case, the Consultant shall forthwith provide as a replacement, a person of equivalent or better qualifications and experience, and at the same rate of remuneration.

32. **Approval of Additional Key Experts**

32.1. If during execution of the Contract, additional Key Experts are required to carry out the Services, the Consultant shall submit to the Procuring Agency for review and approval a copy of their Curricula Vitae (CVs). If the Procuring Agency does not object in writing (stating the reasons for the objection) within twenty two (22) days from the date of receipt of such CVs, such additional Key Experts shall be deemed to have been approved by the Procuring Agency.
The rate of remuneration payable to such new additional Key Experts shall be based on the rates for other Key Experts position which require similar qualifications and experience.

33. **Removal of Experts or Sub-consultants**

33.1. If the Procuring Agency finds that any of the Experts or Sub-consultant has committed serious misconduct or has been charged with having committed a criminal action, or shall the Procuring Agency determine that a Consultant's Expert or Sub-consultant has engaged in Fraud and Corruption while performing the Services, the Consultant shall, at the Procuring Agency's written request, provide a replacement.

33.2. In the event that any of Key Experts, Non-Key Experts or Sub-consultants is found by the Procuring Agency to be incompetent or incapable in discharging assigned duties, the Procuring Agency, specifying the grounds therefore, may request the Consultant to provide a replacement.

33.3. Any replacement of the removed Experts or Sub-consultants shall possess better qualifications and experience and shall be acceptable to the Procuring Agency.

34. **Replacement/ Removal of Experts – Impact on Payments**

34.1. Except as the Procuring Agency may otherwise agree, (i) the Consultant shall bear all additional travel and other costs arising out of or incidental to any removal and/or replacement, and (ii) the remuneration to be paid for any of the Experts provided as a replacement shall not exceed the remuneration which would have been payable to the Experts replaced or removed.

35. **Working Hours, Overtime, Leave, etc.**

35.1. Working hours and holidays for Experts are set forth in Appendix B. To account for travel time to/from the Procuring Agency's country, experts carrying out Services inside the Procuring Agency's country shall be deemed to have commenced or finished work in respect of the Services such number of days before their arrival in, or after their departure from, the Procuring Agency's country as is specified in Appendix B.

35.2. The Experts shall not be entitled to be paid for overtime nor to take paid sick leave or vacation leave except as specified in Appendix B, and the Consultant's remuneration shall be deemed to cover these items.

35.3. Any taking of leave by Key Experts shall be subject to the prior approval by the Consultant who shall ensure that absence for leave purposes will not delay the progress and or impact adequate supervision of the Services.

E. Obligations of the Procuring Agency

36. Assistance and Exemptions

36.1. Unless otherwise specified in the SCC, the Procuring Agency shall use its best efforts to:

36.1.1. Assist the Consultant with obtaining work permits and such other documents as shall be necessary to enable the Consultant to perform the Services.

36.1.2. Facilitate prompt clearance through customs of any property required for the Services and of the personal effects of the Experts and their eligible dependents.

36.1.3. Issue to officials, agents and representatives of the Government all such instructions and information as may be necessary or appropriate for the prompt and effective implementation of the Services.

36.1.4. Assist the Consultant and the Experts and any Sub-consultants employed by the Consultant for the Services with obtaining exemption from any requirement to register or obtain any permit to practice their profession or to establish themselves either individually or as a corporate entity in the Procuring Agency's country according to the applicable law in the Procuring Agency's country.

36.1.5. Assist the Consultant, any Sub-consultants and the Experts of either of them with obtaining the privilege, pursuant to the applicable law in the Procuring Agency's country, of bringing into the Procuring Agency's country reasonable amounts of foreign currency for the purposes of the Services or for the personal use of the Experts and of withdrawing any such amounts as may be earned therein by the Experts in the execution of the Services.

36.1.6. Provide to the Consultant any such other assistance as may be specified in the SCC.

37. **Access to Project Site**

37.1. The Procuring Agency warrants that the Consultant shall have, free of charge, unimpeded access to the project site in respect of which access is required for the performance of the Services. The Procuring Agency will be responsible for any damage to the project site or any property thereon resulting from such access and will indemnify the Consultant and each of the experts in respect of liability for any such damage, unless such damage is caused by the willful default or negligence of the Consultant or any Sub-consultants or the Experts of either of them.

38. **Change in the Applicable Law Related to Taxes and Duties**

38.1. If, after the date of this Contract, there is any change in the applicable law in the Procuring Agency's country with respect to taxes and duties which increases or decreases the cost incurred by the Consultant in performing the Services, then the remuneration and reimbursable expenses otherwise payable to the Consultant under this Contract shall be increased or decreased accordingly by agreement between the Parties hereto, and corresponding adjustments shall be made to the ceiling amounts specified in Clause GCC 42.2.

39. **Services, Facilities and Property of the Procuring Agency**

39.1. The Procuring Agency shall make available to the Consultant and the Experts, for the purposes of the Services and free of any charge, the services, facilities and property described in the Terms of Reference (Appendix A) at the times and in the manner specified in said Appendix A.

39.2. In case that such services, facilities and property shall not be made available to the Consultant as and when specified in Appendix A, the Parties shall agree on (i) any time extension that it may be appropriate to grant to the Consultant for the performance of the Services, (ii) the manner in which the Consultant shall procure any such services, facilities and property from other sources, and (iii) the additional payments, if any, to be made to the Consultant as a result thereof pursuant to Clause GCC 42.3.

40. **Counterpart Personnel**

40.1. The Procuring Agency shall make available to the Consultant free of charge such professional and support counterpart personnel, to be nominated by the Procuring Agency with the Consultant's advice, if specified in Appendix A.

40.2. If counterpart personnel are not provided by the Procuring Agency to the Consultant as and when specified in Appendix A, the Procuring Agency and the Consultant shall agree on (i) how the affected part of the Services shall be carried out, and (ii) the additional payments, if any, to be made by the Procuring Agency to the Consultant as a result thereof pursuant to Clause GCC 42.3.

40.3. Professional and support counterpart personnel, excluding Procuring Agency's liaison personnel, shall work under the exclusive direction of the Consultant. If any member of the counterpart personnel fails to perform adequately any work assigned to such member by the Consultant that is consistent with the position occupied by such member, the Consultant may request the replacement of such member, and the Procuring Agency shall not unreasonably refuse to act upon such request.

41. **Payment Obligation**

41.1. In consideration of the Services performed by the Consultant under this Contract, the Procuring Agency shall make such payments to the Consultant and in such manner as is provided by GCC F below.

F. Payments to the Consultant

42. **Ceiling Amount**

42.1. An estimate of the cost of the Services is set forth in Appendix C (Remuneration) and Appendix D (Reimbursable expenses).

42.2. Payments under this Contract shall not exceed the ceilings in foreign currency and in local currency specified in the SCC.

42.3. For any payments in excess of the ceilings specified in GCC42.2, an amendment to the Contract shall be signed by the Parties referring to the provision of this Contract that evokes such amendment.

43. **Remuneration and Reimbursable Expenses**

43.1. The Procuring Agency shall pay to the Consultant (i) remuneration that shall be determined on the basis of time actually spent by each Expert in the performance of the Services after the date of commencing of Services or such other date as the Parties shall agree in writing; and (ii) reimbursable expenses that are actually and reasonably incurred by the Consultant in the performance of the Services.

43.2. All payments shall be at the rates set forth in Appendix C and Appendix D.

43.3. Unless the SCC provides for the price adjustment of the remuneration rates, said remuneration shall be fixed for the duration of the Contract.

43.4. The remuneration rates shall cover: (i) such salaries and allowances as the Consultant shall have agreed to pay to the Experts as well as factors for social charges and overheads (bonuses or other means of profit-sharing shall not be allowed as an element of overheads), (ii) the cost of backstopping by home office staff not included in the Experts' list in Appendix B, (iii) the Consultant's profit, and (iv) any other items as specified in the SCC.

43.5. Any rates specified for Experts not yet appointed shall be provisional and shall be subject to revision, with the written approval of the Procuring Agency, once the applicable remuneration rates and allowances are known.

44. **Taxes and Duties**

44.1. The Consultant, Sub-consultants and Experts are responsible for meeting any and all tax liabilities arising out of the Contract unless it is stated otherwise in the SCC.

44.2. As an exception to the above and as stated in the SCC, all local identifiable indirect taxes (itemized and finalized at Contract negotiations) are reimbursed to the Consultant or are paid by the Procuring Agency on behalf of the Consultant.

45. **Currency of Payment**

45.1. Any payment under this Contract shall be made in the currency(ies) specified in the SCC.

46. **Mode of Billing and Payment**

46.1. Billings and payments in respect of the Services shall be made as follows:
(a) Advance payment. Within the number of days after the Effective Date, the Procuring Agency shall pay to the Consultant an advance payment as specified in the SCC. Unless otherwise indicated in the SCC, an advance payment shall be made against an advance payment bank guarantee acceptable to the Procuring Agency in an amount (or amounts) and in a currency (or currencies) specified in the SCC. Such guarantee (i) is to remain effective until the advance payment has been fully set off, and (ii) is to be in the form set forth in Appendix E, or in such other form as the Procuring Agency shall have approved in writing. The advance payments will be set off by the Procuring Agency in equal installments against the statements for the number of months of the Services specified in the SCC until said advance payments have been fully set off.
(b) The Itemized Invoices. As soon as practicable and not later than fifteen (15) days after the end of each calendar month during the period of the Services, or after the end of each time interval otherwise indicated in the SCC, the Consultant shall submit to the Procuring Agency, in duplicate, itemized invoices, accompanied by the receipts or other appropriate supporting documents, of the amounts payable pursuant to Clauses GCC 45 and GCC 46 for such interval, or any other period indicated in the SCC. Separate invoices shall be submitted for expenses incurred in foreign currency and in local currency. Each invoice shall show remuneration and reimbursable

expenses separately.

(c) The Procuring Agency shall pay the Consultant's invoices within sixty (60) days after the receipt by the Procuring Agency of such itemized invoices with supporting documents. Only such portion of an invoice that is not satisfactorily supported may be withheld from payment. Should any discrepancy be found to exist between actual payment and costs authorized to be incurred by the Consultant, the Procuring Agency may add or subtract the difference from any subsequent payments.

(d) The Final Payment .The final payment under this Clause shall be made only after the final report and a final invoice, identified as such, shall have been submitted by the Consultant and approved as satisfactory by the Procuring Agency. The Services shall be deemed completed and finally accepted by the Procuring Agency and the final report and final invoice shall be deemed approved by the Procuring Agency as satisfactory ninety (90) calendar days after receipt of the final report and final invoice by the Procuring Agency unless the Procuring Agency, within such ninety (90) calendar day period, gives written notice to the Consultant specifying in detail deficiencies in the Services, the final report or final invoice. The Consultant shall thereupon promptly make any necessary corrections, and thereafter the foregoing process shall be repeated. Any amount that the Procuring Agency has paid or has caused to be paid in accordance with this Clause in excess of the amounts payable in accordance with the provisions of this Contract shall be reimbursed by the Consultant to the Procuring Agency within thirty (30) days after receipt by the Consultant of notice thereof. Any such claim by the Procuring Agency for reimbursement must be made within twelve (12) calendar months after receipt by the Procuring Agency of a final report and a final invoice approved by the Procuring Agency in accordance with the above.

(e) All payments under this Contract shall be made to the accounts of the Consultant specified in the SCC.

(f) With the exception of the final payment under (d) above, payments do not constitute acceptance of the Services nor relieve the Consultant of any obligations hereunder.

47. **Interest on Delayed Payments**

47.1. If the Procuring Agency had delayed payments beyond fifteen (15) days after the due date stated in Clause GCC 46.1 (c), interest shall be paid to the Consultant on any amount due by, not paid on, such due date for each day of delay at the annual rate stated in the SCC.

G. Fairness and Good Faith

48. **Good Faith**

48.1. The Parties undertake to act in good faith with respect to each other's rights under this Contract and to adopt all reasonable measures to ensure the realization of the objectives of this Contract.

H. Settlement of Disputes

49. **Amicable Settlement**

49.1. Any dispute of any kind whatsoever shall arise between the Procuring Agency and the Service Provider in connection with or arising out of the Contract, including without prejudice to the generality of the foregoing, any question regarding its existence, validity or termination, or the execution of the Project –whether during

developing phase or after their completion and whether before or after the termination, abandonment or breach of the Contract – the parties shall seek to resolve any such dispute or difference by mutual consultation. If the parties fail to resolve such a dispute or difference even after negotiations or mediation, then the dispute shall be referred within fourteen (14) days in writing by either party to the Arbitrator, with a copy to the other party.

49.2. Any dispute in respect of which a notice of intention to commence arbitration has been given, in accordance with GCC sub-clause 45.1, shall be finally settled by arbitration. Arbitration may be commenced prior to or after completion of the Project. Arbitration proceedings shall be conducted in accordance with Arbitration Act 1940.

49.3. Notwithstanding any reference to the arbitration herein, the parties shall continue to perform their respective obligations under the Contract unless they otherwise agree that the Procuring Agency shall pay the Service Provider any monies due the Service Provider.

PUBLIC PROCUREMENT REGULATORY AUTHORITY (PPRA) EPADS

Special Conditions of Contract

SPECIAL CONDITIONS OF CONTRACT

The following Special Conditions of Contract shall supplement the General Conditions of Contract. Whenever there is a conflict, the provisions herein shall prevail over those in the Conditions of Contract. The corresponding clause number of the GCC is indicated in parentheses.

Number of GC Clause

Amendments of, and Supplements to, Clauses in the General Conditions of Contract>

Number of GC Clause 3.1

The Contract shall be interpreted in accordance with the laws of Islamic Republic of Pakistan

Number of GC Clause 4.1

The language is **English**

Number of GC Clause 6.1 and 6.2

The addresses are:

The Procuring Agency is: HESCO (Hyderabad Electric Supply Company (HESCO)), Manager Room No.220, WAPDA Offices Complex, HESCO HQs, Hussainabad, Latifabad, Hyderabad (District), Hyderabad (Division), Sindh (Province).

The Consultant Address:

The title of the subject procurement is:RFP FOR HIRING OF CONSULTANTS FOR STUDY AND ASSESMENT OF TRANSMISSION & DISTRIBUTION (T&D) TECHNICAL LOSSES OF HESCO NETWORKS FOR THE YEAR 2025-2026

Number of GC Clause 8.1

[Note: If the Consultant consists only of one entity, state "N/A";Or

The Lead Member on behalf of the JV is _____ _____ *[insert name of the member]*

Number of GC Clause 9.1

The Authorized Representatives are:

The Authorized Representatives are:

For the Procuring Agency:

HESCO (Hyderabad Electric Supply Company (HESCO)), Manager
Room No.220, WAPDA Offices Complex, HESCO HQs, Hussainabad, Latifabad, Hyderabad (District), Hyderabad (Division), Sindh (Province).
+92-321-301-6784
momdistribution@hesco.gov.pk

For the Bidder:

Name: ……

Designation: ……..

Address: ……..

Number of GC Clause 11.1

[Note: If there are no effectiveness conditions, state "N/A"]OR

List here any conditions of effectiveness of the Contract]

The effectiveness conditions are the following: *[insert "N/A" or list the conditions]*

Termination of Contract for Failure to Become Effective:

The time period shall be _____ *[insert time period, e.g.: four months]*.

Commencement of Services:

The number of days shall be_____ *[e.g.: ten]*.

Confirmation of Key Experts' availability to start the Assignment shall be submitted to the Procuring Agency in writing as a written statement signed by each Key Expert.

Expiration of Contract:

The time period shall be _____ *[insert time period, e.g.: twelve months]*.

Number of GC Clause 23.1

No additional provisions.

The following limitation of the Consultant's Liability towards the Procuring Agency can be subject to the Contract's negotiations:

Consultant's Liabilities

Consultant Liabilities are mentioned in General Conditions.

Number of GC Clause 24.1

The insurance coverage against the risks shall be as follows:

(a) Professional liability insurance, with a minimum coverage of _____ *[insert amount and currency which should be not less than the total ceiling amount of the Contract]*;

Number of GC Clause 33. Removal of Experts or Sub-consultants

[Note to Procuring Agency: include the following for supervision of infrastructure contracts (such as Plant or Works) and for other consulting service where the social risks are substantial or high, otherwise delete.]

Price adjustment on the remuneration …….. *[**insert* **"applies"** *or* **" does not apply"*]***

[If the Contract is less than 18 months, price adjustment does not apply.

If the Contract has duration of more than 18 months, a price adjustment provision on the remuneration for foreign and/or local inflation shall be included here. The adjustment should be made every 12 months after the date of the contract for remuneration in foreign currency and – except if there is very high inflation in the Procuring Agency's country, in which case more frequent adjustments should be provided for – at the same intervals for remuneration in local currency. Remuneration in foreign currency should be adjusted by using the relevant index for salaries in the country of the respective foreign currency (which normally is the country of the Consultant) and remuneration in local currency by using the corresponding index for the Procuring Agency's country. A sample provision is provided below for guidance:

Payments for remuneration made in [foreign *and/or* local] currency shall be adjusted as follows:

{or }

where

R_f is the adjusted remuneration;

R_{fo} is the remuneration payable on the basis of the remuneration rates (**Appendix C**) in foreign currency;

I_f is the official index for salaries in the country of the foreign currency for the first month for which the adjustment is supposed to have effect; and

I_{fo} is the official index for salaries in the country of the foreign currency for the month of the date of the Contract.

{or }

where

R_l is the adjusted remuneration;

R_{lo} is the remuneration payable on the basis of the remuneration rates (**Appendix D**) in local currency;

I_l is the official index for salaries in the Procuring Agency's country for the first month for which the adjustment is to have effect; and

I_{lo} is the official index for salaries in the Procuring Agency's country for the month of the date of the Contract.

The currency of payment shall be the following: *PKR*

[The advance payment could be in either the foreign currency, or the local currency, or both; select the correct wording in the Clause here below. The advance bank payment guarantee should be in the same currency(ies)]

The following provisions shall apply to the advance payment and the advance bank payment guarantee:

Following is the guidance for Dispute Resolution

i. If any dispute of any kind whatsoever shall arise between the Authority and the Bidder in connection with or arising out of the Contract, including without prejudice to the generality of foregoing, any question regarding its existence, validity, termination and the execution of the Contract – whether during developing phase or after their

completion and whether before or after the termination, abandonment or breach of the Contract – the parties shall seek to resolve any such dispute or difference by mutual diligent negotiations in good faith within 14 (fourteen) days following a notice sent by one Party to the other Party in this regard**.**

ii. At future of negotiation the dispute shall be resolved through mediation and mediator shall be appointed with the mutual consent of the both parties**.**

iii. At the event of failure of mediation to resolve the dispute relating to this contract such dispute shall finally be resolved through binding Arbitration by sole arbitrator in accordance with Arbitration Act 1940. The arbitrator shall be appointed by mutual consent of the both parties**.** The Arbitration shall take place in Islamabad, Pakistan and proceedings will be conducted in English language.

iv. The cost of the mediation and arbitration shall be shared by the parties in equal proportion however the both parties shall bear their own costs and lawyer's fees regarding their own participation in the mediation and arbitration. However, the Arbitrator may make an award of costs upon the conclusion of the arbitration making any party to the dispute liable to pay the costs of another party to the dispute**.**

v. Arbitration proceedings as mentioned in the above clause regarding resolution of disputes may be commenced prior to, during or after completion of the contract.

Notwithstanding any reference to the arbitration herein, the parties shall continue to perform their respective obligations under the Contract unless they otherwise agree that the Authority shall pay the Bidder any monies due to the Bidder.

Arbitrator's fee:

The fee shall be specified in Pak Rupees, as determined by the Arbitrator, which shall be shared equally by both parties**.**

Appointing Authority for Arbitrator:

By the Mutual Consent or in accordance with the provisions of Arbitration Act, 1940, in case the parties fail to reach a consensus on the name of sole arbitrator, any party may submit an application to the Chief Justice Islamabad High Court for appointment of sole arbitrator. The Chief Justice IHC may appoint a former judge of any High Court or Supreme Court as the sole arbitrator to resolve the dispute between the parties.

Rules of procedure for arbitration proceedings:

Any dispute between the Authority and a Bidder who is a national of the Islamic Republic of Pakistan arising in connection with the present Contract shall be referred to adjudication or arbitration in accordance with the laws of the Islamic Republic of Pakistan including Arbitration Act 1940, however above provision shall prevail in referring the case to the Arbitrator.

Place of Arbitration and Award:

The arbitration shall be conducted in English language and place of arbitration shall be at Islamabad. The award of the arbitrator shall be final and shall be binding on the parties.

Bid Securing Declaration

Bid Securing Declaration

Date: *[insert date (as day, month and year)]*

Bid No.:***P73624***

To: **HESCO (Hyderabad Electric Supply Company (HESCO)), Manager Room No.220, WAPDA Offices Complex, HESCO HQs, Hussainabad, Latifabad, Hyderabad (District), Hyderabad (Division), Sindh (Province).**

We, the undersigned, declare that:

We understand that, according to your conditions, Bids must be supported by a Bid Securing Declaration.

We accept that we will be blacklisted and henceforth cross debarred for participating in respective category of public procurement proceedings for a period of (not more than) six months, if fail to abide with a bid securing declaration, however without indulging in corrupt and fraudulent practices, if we are in breach of our obligation(s) under the Bid conditions, because we:

1. have withdrawn or modified our Bid during the period of Bid Validity specified in the Form of Bid;

2. Disagreement to arithmetical correction made to the Bid price; or

3. having been notified of the acceptance of our Bid by the Procuring Agency during the period of Bid Validity, (i) failure to sign the contract if required by Procuring Agency to do so or (ii) fail or refuse to furnish the Performance Security or to comply with any other condition precedent to signing the contract specified in the Bidding Documents.

We understand this Bid Securing Declaration shall expire if we are not the successful

Bidder, upon the earlier of (i) our receipt of your notification to us of the name of the successful Bidder; or (ii) twenty-eight (28) days after the expiration of our Bid.

Contract Form

FORM OF CONTRACT

This CONTRACT (hereinafter called the "Contract") is made the *[number]* day of the month of *[month]*, *[year]*, between, on the one hand, *[name of Procuring Agency or Recipient]* (hereinafter called the "Procuring Agency") and, on the other hand, *[name of Consultant]* (hereinafter called the "Consultant").

[If the Consultant consist of more than one entity, the above should be partially amended to read as follows: "…(hereinafter called the "Procuring Agency") and, on the other hand, a Joint Venture consisting of the following entities, each member of which will be jointly and severally liable to the Procuring Agency for all the Consultant's obligations under this Contract, namely, *[name of member]* and *[name of member]* (hereinafter called the "Consultant").]

WHEREAS

1. the Procuring Agency has requested the Consultant to provide certain consulting services as defined in this Contract (hereinafter called the "Services");

2. the Consultant, having represented to the Procuring Agency that it has the required professional skills, expertise and technical resources, has agreed to provide the Services on the terms and conditions set forth in this Contract;

3. the Procuring Agency has received [*or* has applied for] a loan [*or* credit *or* grant] from the *[Insert as appropriate:)]* toward the cost of the Services and intends to apply a portion of the proceeds of this [loan/credit/grant] to eligible payments under this Contract, it being understood that (i) payments will be made only at the request of the Procuring Agency; (ii) such payments will be subject, in all respects, to the terms and conditions of the [loan/financing/grant] agreement, including prohibitions of withdrawal from the [loan/credit/grant] account for the purpose of any payment to persons or entities, or for any import of goods, if such payment or import.

NOW THEREFORE the parties hereto hereby agree as follows:

The following documents attached hereto shall be deemed to form an integral part of this Contract:

- The General Conditions of Contract
- The Special Conditions of Contract;
- Appendices: Appendix
  - Terms of Reference Appendix
  - Key Experts Appendix
  - Remuneration Cost Estimates Appendix)
  - Reimbursable Cost Estimates Appendix
  - Form of Advance Payments Guarantee

In the event of any inconsistency between the documents, the following order of precedence shall prevail: the Special Conditions of Contract; the General Conditions of Contract, including Attachment 1; Appendix A;

Appendix B; Appendix C and Appendix D; and Appendix E. Any reference to this Contract shall include, where the context permits, a reference to its Appendices.

2. The mutual rights and obligations of the Procuring Agency and the Consultant shall be as set forth in the Contract, in particular:

(a) the Consultant shall carry out the Services in accordance with the provisions of the Contract; and

(b) the Procuring Agency shall make payments to the Consultant in accordance with the provisions of the Contract.

IN WITNESS WHEREOF, the Parties hereto have caused this Contract to be signed in their respective names as of the day and year first above written.

For and on behalf of *[Name of Procuring Agency]*

[Authorized Representative of the Procuring Agency – name, title and signature]

For and on behalf of *[Name of Consultant or Name of a Joint Venture]*

[Authorized Representative of the Consultant – name and signature]

[For a joint venture, either all members shall sign or only the lead member, in which case the power of attorney to sign on behalf of all members shall be attached.]

For and on behalf of each of the members of the Consultant [insert the name of the Joint Venture]

[Name of the lead member]

[Authorized Representative on behalf of a Joint Venture]

[add signature blocks for each member if all are signing]

PUBLIC PROCUREMENT REGULATORY AUTHORITY (PPRA) EPADS

Integrity Pact

Integrity Pact

DECLARATION OF FEES, COMMISSION AND BROKERAGE ETC. PAYABLE BYTHE SUPPLIERS OF GOODS, SERVICES & WORKS IN CONTRACTS WORTH RS.10.00 MILLION OR MORE

Contract Number: Contract Value: Contract Title:

Dated:

[Name of Supplier] hereby declares that it has not obtained or induced the procurement of any contract, right, interest, privilege or other obligation or benefit from Government of Pakistan or any administrative subdivision or agency thereof or any other entity owned or controlled by it (GoP) through any corrupt business practice.

Without limiting the generality of the foregoing [Name of Supplier] represents and warrants that it has fully declared the brokerage, commission, fee etc. paid or payable to anyone and not given or agreed to give and shall not give or agree to give to anyone within or outside Pakistan either directly or indirectly through any natural or juridical person, including its affiliate, agent, associate, broker, consultant, director, promoter, shareholder, sponsor or subsidiary, any commission, gratification, bribe, finder's fee or kickback, whether described as consultations fee or otherwise, with the object of obtaining or inducing the procurement of a contract, right, interest, privilege or other obligation or benefit in whatsoever form from GoP, except that which has been expressly declared pursuant hereto.

[Name of Supplier] certifies that it has made and will make full disclosure of all agreements and arrangements with all persons in respect of or related to the transaction with GoP and has not taken any action or will not take any action to circumvent the above declaration, representative or warranty.

[Name of Supplier] accepts full responsibility and strict liability for making and false declaration, not making full disclosure, misrepresenting fact or taking any action likely to defeat the purpose of this declaration, representation and warranty. It agrees that any contract, right interest, privilege or other obligation or benefit obtained or procured as aforesaid shall, without prejudice to any other right and remedies available to GoP under any law, contract or other instrument, be voidable at the option of GoP.

Notwithstanding any rights and remedies exercised by GoP in this regard, [Name of Supplier] agrees to indemnify GoP for any loss or damage incurred by it on account of its corrupt business practices and further pay compensation to GoP in an amount equivalent to ten time the sum of any commission, gratification, bribe, finder's fee or kickback given by [Name of Supplier] as aforesaid for the purpose of obtaining or inducing the procurement of any contract, right, interest, privilege or other obligation or benefit in whatsoever form from GoP.

Performance Guarantee Form

Performance Guarantee Form

To: **HESCO (Hyderabad Electric Supply Company (HESCO)), Manager Room No.220, WAPDA Offices Complex, HESCO HQs, Hussainabad, Latifabad, Hyderabad (District), Hyderabad (Division), Sindh (Province).**

WHEREAS *[name of Bidder]* (hereinafter called "the Bidder") has undertaken, in pursuance of Contract No. *[reference number of the contract]* dated *[insert date]* for provision of Goods*(*hereinafter called "the Contract").

AND WHEREAS it has been stipulated by you in the said Contract that the Bidder shall furnish you with a Bank Guarantee by a reputable bank for the sum specified therein as security for compliance with the Bidder's performance obligations in accordance with the Contract.

AND WHEREAS we have agreed to give the Bidders guarantee:

THEREFORE, WE hereby affirm that we are Guarantors and responsible to you, on behalf of the Bidder, up to a total of *[amount of the guarantee in words and figures]*, and we undertake to pay you, upon your first written demand declaring the Bidder to be in default under the Contract and without cavil or argument, any sum or sums within the limits of *[amount of guarantee]* as aforesaid, without your needing to prove or to show grounds or reasons for your demand or the sum specified therein.

This guarantee is valid until the: *[insert date]*

Signature and seal of the Guarantors

_____

[name of bank or financial institution]

[address]

[date}

PUBLIC PROCUREMENT REGULATORY AUTHORITY (PPRA) EPADS

Annexure

PUBLIC PROCUREMENT REGULATORY AUTHORITY (PPRA) EPADS

Technical Proposals Standard Forms

FORM	DESCRIPTION
TECH-1	Technical Proposal Submission Form.
TECH-2 Attachment	Consultant's Organization and Experience A - Consultant's Organization B - Consultant's Experience
TECH-3	Comments and Suggestions on the Terms of Reference and on Counterpart Staff and Facilities to be Provided by the Client A - On the Terms of Reference B - On Counterpart Staff and Facilities
TECH-4	Description of Approach, Methodology and Work Plan for Performing the Assignment
TECH-5	Team Composition and Task Assignments
TECH-6	Curriculum Vitae (CV) for Proposed Professional Staff
TECH-7	Staffing Schedule
TECH-8	Work Schedule

Technical Submission (Vendor)

Document Required

See Form Under Additional Forms and Documents: **Technical Proposals Standard Forms** (page number: 69)

Financial Proposals Standard Forms

Financial Proposal - Standard Form

{*Notes to Consultant* shown in brackets { } provide guidance to the Consultant to prepare the Financial Proposals; they should not appear on the Financial Proposals to be submitted.}

FIN-1 Financial Proposal Submission Form

FIN-2 Summary of Costs

Financial Submission (Vendor)

Document Required

See Form Under Additional Forms and Documents: **Financial Proposals Standard Forms** (page number: 80)

Annexure 1 (ToRs)

Detailed Terms of Reference

Information (Read-Only)

See Form Under Additional Forms and Documents: **Annexure 1 (ToRs)** (page number: 82)

Annexure 2(Completion/Activities and duration)

Completion/Activities and duration

Information (Read-Only)

See Form Under Additional Forms and Documents: **Annexure 2(Completion/Activities and duration)** (page number: 92)

Annexure 3(QUALIFICATION AND EXPERIENCE OF CONSULTANT PERSONNEL)

QUALIFICATION AND EXPERIENCE OF CONSULTANT PERSONNEL

Information (Read-Only)

See Form Under Additional Forms and Documents: **Annexure 3(QUALIFICATION AND EXPERIENCE OF CONSULTANT PERSONNEL)** (page number: 93)

Minutes Of Pre-Bid Meeting

These minutes of Pre-bid meeting/Clarificationsshall be cosidered as a part of bidding document.

Information (Read-Only)

See Form Under Additional Forms and Documents: **Minutes Of Pre-Bid Meeting** (page number: 94)

PUBLIC PROCUREMENT REGULATORY AUTHORITY (PPRA) EPADS

Procurement Forms

Financial Resources

Financial Capabilities

Audited account of the firm for last three years audited by any chartered accounts firm or other authorized agency to be attached –

-Annual Turnover above 250 million - 10 marks

- Annual Turnover above 150million – 08marks

-Annual Turnover above100Million. - 05marks

See Form Under Additional Forms and Documents: **Financial Resources** (page number: 116)

Past Experience and Completed Contracts

Consultant /Firm's Strength

(Age of firm will be determined from firm registration date with respective registration authority or with FBR). Evidence must be attached

- Existence of Company over 10 years = 10 Marks
- Existence of Company from 05 to 10 years = 05 Marks

Total = 10 Marks

Firm's experience in terms of same or similar nature of work at local and international Level

The Firm shall demonstrate experience of successfully executing projects of the same or similar nature during the last ten (10) years, supported by the Contract Agreement and satisfactory Completion/Performance Certificate issued by the respective Client/Employer.

Four (04) marks shall be awarded for each qualifying project having a minimum contract value of PKR 50 million (USD 0.2 million), with a maximum of five (05) projects considered for evaluation (Total Marks: 20).

Two (02) additional marks shall be awarded for each of the above qualifying projects successfully executed (outside Pakistan) International Experience (Total Marks: 10).

Maximum Marks: 30

See Form Under Additional Forms and Documents: **Past Experience and Completed Contracts** (page number: 117)

Historical Contract Non-Performance, and Pending Litigation and Litigation History

See Form Under Additional Forms and Documents: **Historical Contract Non-Performance, and Pending Litigation and Litigation History** (page number: 118)

Current Contracts and Their Progress

See Form Under Additional Forms and Documents: **Current Contracts and Their Progress** (page number: 120)

Financial Capacity and Net Worth Evaluation Form

See Form Under Additional Forms and Documents: **Financial Capacity and Net Worth Evaluation Form** (page number: 121)

Average Annual Turnover

See Form Under Additional Forms and Documents: **Average Annual Turnover** (page number: 123)

PUBLIC PROCUREMENT REGULATORY AUTHORITY
(PPRA)
EPADS

Additional Forms and Documents

Form TECH-1

Technical Proposal Submission Form

[*Location, Date*]

To: M/s Hyderabad Electric Supply Company
HESCO Hyderabad.

Dear Sirs:

We, the undersigned, offer to provide the consulting services for ----------in accordance with your Request for Proposal dated [*Insert Date*] and our Proposal. We are hereby submitting our Proposal, which includes this Technical Proposal, and a Financial Proposal sealed under a separate envelope[1].

We are submitting our Proposal in association with: [*Insert a list with full name and address of each associated Consultant*][2]

We hereby declare that all the information and statements made in this Proposal are true and accept that any misinterpretation contained in it may lead to our disqualification.

If negotiations are held during the period of validity of the Proposal, we undertake to negotiate on the basis of the proposed staff. Our Proposal is binding upon us and subject to the modifications resulting from Contract negotiations.

We undertake, if our Proposal is accepted, to initiate the consulting services related to the assignment not later than the date indicated in Paragraph Reference 7.2 of the Data Sheet.

We understand you are not bound to accept any Proposal you receive.

We remain,

Yours sincerely,

Authorized Signature [*In full and initials*]: _____
Name and Title of Signatory: _____
Name of Firm: _____
Address: _____

1 [*In case to submit a Technical Proposal only, replace this sentence with:* "We are hereby submitting our Proposal, which includes this Technical Proposal only."]
2 [*Delete in case no association is foreseen.*]

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Form TECH-2: Consultant's Organization and Experience

A - Consultant's Organization

[*Provide here a brief (two pages) description of the background and organization of your firm/entity and each associate for this assignment.*

A1: Capital of Firm Audited (Financial Statements for the latest three years).

Subsidiaries and associates.

Annual fees in the last five years in current index.

Financial reference [name/address of bank(s)]

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B - Consultant's Experience

[*Using the format below, provide information on each assignment for which your firm, and each associate for this assignment, was legally contracted either individually as a corporate entity or as one of the major companies within an association, for carrying out consulting services similar to the ones requested under this assignment. [May be used additional pages.*]

Assignment name:	Approx. value of the contract (in current US$/Euro):
Country: Location within country:	Duration of assignment (months):
Name of Client:	Total No. of staff-months of the assignment:
Address:	Approx. value of the services provided by your firm under the contract :
Start date (month/year): Completion date (month/year):	No. of professional staff-months provided by associated Consultants:
Name of associated Consultants, if any:	Name of senior professional staff of your firm involved and functions performed (indicate most significant profiles such as Project Director/Coordinator, Team Leader):
Narrative description of Project:	
Description of actual services provided by your staff within the assignment:	

Firm's Name: _____

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Form TECH-3: Comments and Suggestions on the Terms of Reference and on Counterpart Staff and Facilities to be provided by the Client

A - On the Terms of Reference

[*Present and justify here any modifications or improvement to the Terms of Reference you are proposing to improve performance in carrying out the assignment (such as deleting some activity you consider unnecessary, or adding another, or proposing a different phasing of the activities). Such suggestions should be concise and to the point, and incorporated in your Proposal.*]

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B - On Counterpart Staff and Facilities

[*Comment here on counterpart staff and facilities to be provided by the Client including: administrative support, office space, local transportation, equipment, data, etc.*]

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Form TECH-4: Description of Approach, Methodology and Work Plan for Performing the Assignment

(For small or very simple assignments the Client should omit the following text in Italic)

[*Technical approach, methodology and work plan are key components of the Technical Proposal. You are suggested to present your Technical Proposal (50 pages, inclusive of charts and diagrams) divided into the following three chapters:*

a) Technical Approach and Methodology,
b) Work Plan, and
c) Organization and Staffing,

a) Technical Approach and Methodology. In this chapter you should explain your understanding of the objectives of the assignment, approach to the services, methodology for carrying out the activities and obtaining the expected output, and the degree of detail of such output. You should highlight the problems being addressed and their importance, and explain the technical approach you would adopt to address them. You should also explain the methodologies you propose to adopt and highlight the compatibility of those methodologies with the proposed approach.

b) Work Plan. In this chapter you should propose the main activities of the assignment, their content and duration, phasing and interrelations, milestones (including interim approvals by the Client), and delivery dates of the reports. The proposed work plan should be consistent with the technical approach and methodology, showing understanding of the TOR and ability to translate them into a feasible working plan. A list of the final documents, including reports, drawings, and tables to be delivered as final output, should be included here. The work plan should be consistent with the Work Schedule of Form TECH-8.

c) Organization and Staffing. In this chapter you should propose the structure and composition of your team. You should list the main disciplines of the assignment, the key expert responsible, and proposed technical and support staff.]

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FORM TECH-5: Team Composition And Task Assignments

Professional Staff				
Name of Staff	Firm	Area of Expertise	Position Assigned	Task Assigned

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Form TECH-6: Curriculum Vitae (CV) for Proposed Professional Staff

1. **Proposed Position** [*only one candidate shall be nominated for each position*]: _____

2. **Name of Firm** [*Insert name of firm proposing the staff*]: _____

   _____

3. **Name of Staff** [*Insert full name*]: _____

4. **Date of Birth**: _____ **Nationality**: _____

5. **Education**[*Indicate college/university and other specialized education of staff member, giving names of institutions, degrees obtained, and dates of obtainment*]: _____

   _____

6. **Membership of Professional Associations**: _____

   _____

7. **Other Training** [*Indicate significant training since degrees under 5 - Education were obtained*]: _____

   _____

8. **Countries of Work Experience**: [*List countries where staff has worked in the last ten years*]:_____

   _____

   _____

9. **Languages** [*For each language indicate proficiency: good, fair, or poor in speaking, reading, and writing*]: _____

   _____

10. **Employment Record**[*Starting with present position, list in reverse order every employment held by staff member since graduation, giving for each employment (see format here below): dates of employment, name of employing organization, positions held.*]:

From [*Year*]: _____ To [*Year*]: _____

Employer: _____

Positions held: _____

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11. Detailed Tasks Assigned	12. Work Undertaken that Best Illustrates Capability to Handle the Tasks Assigned
[*List all tasks to be performed under this assignment*]	[*Among the assignments in which the staff has been involved, indicate the following information for those assignments that best illustrate staff capability to handle the tasks listed under point 11.*] Name of assignment or project: _____ Year: _____ Location: _____ Client: _____ Main project features: _____ Positions held: _____ Activities performed: _____

13. Certification:

I, the undersigned, certify that to the best of my knowledge and belief, this CV correctly describes myself, my qualifications, and my experience. I understand that any wilful misstatement described herein may lead to my disqualification or dismissal, if engaged.

_____ Date: _____

[Signature of staff member or authorized representative of the staff] *Day/Month/Year*

Full name of authorized representative: _____

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Form TECH-7 Staffing Schedule

	Name of Staff	Staff input (in the form of a bar chart)[2]													Total staff-month input		
		1	**2**	**3**	**4**	**5**	**6**	**7**	**8**	**9**	**10**	**11**	**12**	**n**	**Home**	**Field**[3]	**Total**
Foreign																	
1		[*Home*]															
		[*Field*]															
2																	
3																	
N																	
											Subtotal						
Local																	
1		[*Home*]															
		[*Field*]															
2																	
N																	
											Subtotal						
											Total						

1 For Professional Staff the input should be indicated individually; for Support Staff it should be indicated by category (e.g.: draftsmen, clerical staff, etc.).
2 Months are counted from the start of the assignment. For each staff indicate separately staff input for home and field work.
3 Field work means work carried out at a place other than the Consultant's home office.

Full time input
Part time input

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Form TECH-8 Work Schedule

S#	Activity[1]	Months[2]												
		1	2	3	4	5	6	7	8	9	10	11	12	n
1														
2														
3														
4														
5														
6														
7														
8														
9														
10														
11														
12														
13														
14														
15														
16														
17														
18														
N														

1 Indicate all main activities of the assignment, including delivery of reports (e.g.: inception, interim, and final reports), and other benchmarks such as Client approvals. For phased assignments indicate activities, delivery of reports, and benchmarks separately for each phase.

2 Duration of activities shall be indicated in the form of a bar chart.

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FORM FIN-1

Financial Proposal Submission Form

[*Location, Date*

To:

The Chief Engineer (P&E)
HESCO, Hyderabad

Dear Sirs:

We, the undersigned, offer to provide the consulting services for ---------- in accordance with your Request for Proposal dated [*Insert Date*] and our Technical Proposal.

Our Financial Proposal shall be binding upon us subject to the modifications resulting from Contract negotiations, up to expiration of the validity period of the Proposal as indicated in the Instructions to consultant sheets.

Our Financial Proposal is the lump sum amount of Rs._____/- for the assignment. No commissions or gratuities have been or are to be paid by us to agents relating to this Proposal and Contract execution.

We understand you are not bound to accept any Proposal you receive.
We remain,

Yours sincerely,

Authorized Signature [*In full and initials*]: _____
Name and Title of Signatory: _____
Name of Firm: _____
Address: _____

.

FORM FIN-2
Summary Bid Prices Format

Description	Qty	Unit PKR	Tax%	Tax per unit PKR	Total Amount w/o Taxes PKR	Total Amount with Taxes PKR
Transmission & Transformation Loss Evaluation	As per RFP					
HT Network Loss Evaluation						
LT Network (including Distribution Transformer, LT Line & Service Main) Loss Evaluation						
Grand Total (PKR)						

Note:

1. **All applicable taxes will be deducted**
2. **The cost of Stamp Duty will be paid by the bidder as per Sindh Stamp Duty Act.**

PUBLIC PROCUREMENT REGULATORY AUTHORITY (PPRA) EPADS

Terms of Reference (ToRs)

Part A)

1. **Objectives:**

The key objectives of the assignment are to:

i. Determine technical losses at 132 kV,66 kV,11 kV, and 400/230 V levels using simulation-based load flow studies and validated field data.
ii. Segregate technical and non-technical losses for accurate accountability.
iii. Assess the impact of Distributed Energy Resources (DERs)/Solar PV Net Metering on loss estimation and energy accounting.
iv. Develop validated network models, assumptions and benchmarks including benchmarking against peer and regional utilities as well as relevant international standards and best practices
v. Recommend least-cost, technically feasible loss reduction measures, with quantified impacts over the investment horizon.
vi. Provide analytical outputs and documentation suitable for regulatory review and approval by NEPRA.

2. **Scope of Work**

General Requirements

i. The Firm shall employ internationally recognized engineering standards, validated methodologies, and industry-standard software tools (eg, PSS®E, Power-Factory, Synergi Electric, or equivalent).
ii. All assumptions, data sources, adjustments, and limitations shall be clearly documented.
iii. The Firm shall coordinate closely with HESCO and relevant system entities, the Independent System and Market Operator (ISMO), the National Grid Company (NGC), and other concerned organizations, for data validation and reconciliation.
iv. The study shall be completed and submitted in accordance with timelines prescribed, including presentation and defense before the NEPRA.

3. **Transmission Loss Evaluation**

3.1. Data Provision by HESCO: shall provide, inter alia:

i. Load and Energy Data:
   - Hourly Load Profile of selected feeders.
   - Month-wise Peak and Off-Peak load data
   - Energy import/export data at all Common Delivery Points (CDPs)

ii. System Operational Snapshots: Required System snapshots (Peak & Off-Peak for each month) obtained from RCCs covering:
   - Line flows, transformer loadings, bus voltages, loads, etc.
   - Generator dispatch connected at ≤ 132 kV,
   - Capacitor status for peak/off peak conditions and ambient temperatures data
   - Recorded Transmission Losses
   - Any other essential operational data and record

iii. Network and Asset Information:

- Network topology, single-line diagram, GIS grid coordinates/maps
- transformer nameplate data, meter accuracy classes,
- list of CDPs,
- Any other essential data as required

iv. Reference Network Model:
- Reference PSS&E or equivalent base case reflecting the actual network topology of the HESCO 132 kV transmission network and up to 11 kV buses of 132/11 KV grid substations for the relevant study year.
- The base case shall incorporate and reflect all network changes occurring during the study year.

Note: The aforementioned transmission loss evaluation data shall be provided by the O/O DG (MIRAD). Furthermore, the scrutiny, authentication, and vetting of the transmission losses shall be ensured by O/O DG (MIRAD) on behalf of HESCO.

3.2 Responsibilities of the Firm:

The Firm shall

i. Validate and reconcile all data and resolve inconsistencies.
ii. Develop matched power-flow cases (Peak & Off-Peak for each month) for the 132 kV,66 kV transmission network, including transformers up to 11 kV bus-bars.
iii. Ensure accurate modeling of all system conditions in the load flow study cases including but not limited to:
- Circuit status, transmission line flows, transformer parameters, taps positions, etc.
- Voltage profiles, power factor, capacitor configurations,
- Generator dispatch and load representation.

iv. Determine monthly and annual transmission losses
- MW losses from matched cases (Peak and Off peak) for each month,
- Annual average MW loss (mean and standard deviation) based on the 24 values,
- Annual Average Energy Loss (GWh) using
- Regression-based best-fit curve ($R^2 \geq 0.90$), or
- An equivalent superior methodology.

v. Compare simulated losses with recorded losses and analyze variances.
vi. Assess the impact of net-metering injections at grid stations and CDPs.
vii. Recommend technically and economically viable loss reduction measures,

4. Distribution Loss Evaluation:

4.1 Data Provision by HESCO: HESCO shall provide

i. Network Models and GIS Data:
- GIS-mapped HT/LT network models.
- Synergi Electric (mdb) files along with latest supported data warehouse, consistent with the study year 2025

ii. Feeder Load and Performance Data
- Actual load factors, and power factor of every feeder for study year
- Feeder-wise loading data, including maximum and minimum current (Amps)

- Feeder categorization (Urban/Rural) for field validation.

iii. Distribution Transformer (DT) Data

- DT database with capacity, type, applicable standards, tagging/identification, and feeder wise allocation.
- Any other essential data, files, or operational information required by the Firm for accurate modelling, field surveys, validation, and reconciliation of study results.

Note: The aforementioned Distribution loss evaluation data shall be provided by the O/O Chief Engineer (P&E). Furthermore, the scrutiny, authentication, and vetting of the Distribution losses shall be ensured by O/O Chief Engineer (P&E) on behalf of HESCO.

4.2 Responsibilities of the Firm:

The Firm shall conduct load flow analysis for calculation of distribution loss assessment covering HT lines, DTs, LT lines, and service cables by using the Synergi Electric software & GIS mapped models, while considering below but not limited to following:

i. HT Network Losses

- ❖ Validate and reconcile all GIS based data and resolve inconsistencies
- ❖ Use updated GIS mapped models of all 11 kV feeders showing main branches or T-offs with node-to-node connectivity
- ❖ Models shall include load currents peak hours for summer and winter for the base years as per recorded data at grids.
- ❖ Use total length of the feeders main, branches and inter-lengths between transformer with size and type of conductor and impedance per km.
- ❖ Use actual load factors of the feeders for the base years shall be considered along with actual load factors of the distribution transformers (where metering available).
- ❖ For benchmarking purposes, a few feeders' representative of the company-wide feeder mix shall be selected, preferably those with a complete metering tree available. These feeders will be used to ascertain the actual load factors and associated losses, compared against calculated values.
- ❖ The Firm shall review load loss factor (LLF) empirical formula and same shall be verified and validated with the latest research as well as field data back with any mathematical model. The validated LLF shall be applied on sample feeders along with comments, analysis and results submitted as part of study for review.
- ❖ Technical losses will be assessed and determined using LLF methodology and or any other better alternative option.

ii. Distribution Transformer Losses

- For the purpose of DT loss assessment, a separate assessment model shall be adopted to independently determine Iron (No-Load) Losses and Copper (Load) loss
- The Distribution Company shall establish and maintain a comprehensive and authenticated Distribution Transformer Database, incorporating, inter alia, the following classifications.

  - Transformer capacity ratings and tagging

    - Type/category (Independent, General Duty) and tagging,
    - Feeder-wise allocation and tagging, and
    - Any other technical parameters
- Furthermore, the database shall distinctly categorize all distribution transformers into the following two groups for analytical and reporting purposes
    - Transformers procured and installed in accordance with valid and approved Standards and Specification, and
    - Transformers manufactured under earlier Standards and Specifications
- No-Load (Iron) losses based on applicable standard loss values corresponding to the above groups shall be assigned to each transformer. and off-loading factors/adjustment factor (planned and unplanned) shall be applied to reflect the actual off-loading status.
- Load (Copper) losses first priority shall be accorded to the actual recorded peak load obtained using AMI/APMS/Scanning meters data where available for the respective transformer, otherwise, the nameplate peak load as per applicable specifications shall be utilized, subject to reasonable downward adjustment based on justified and prudent engineering estimates.
- Use of measured or sales-based load factors for determining the loading, arbitrary assumptions are not permitted. The actual load factor recorded at the transformer shall be used for loss calculations. Where such data is not available, DT loading shall be evaluated in correlation with the corresponding feeder loading data and installed capacity of D.Ts and corresponding Coincidence Factor (CF), Load allocation must be carried out based on the actual installed capacity and connected load of each DT
- The annual energy loss shall be computed by incorporation of Coincidence Factor (CF) determined on the basis of justified and documented assumptions, through its integration within validated Loss Factor formula

iii. LT Network Losses

- Use 100% GIS-based LT network mapping for load-flow analysis by utilizing Synergi Electric software or any equivalent standard analytical tool.
- Validate and reconcile all GIS based data and resolve inconsistencies
- The actual transformer-wise Load Factor (LF) shall be applied, through an appropriate Loss Factor, for determining the Annual Energy Loss (AEL) attributable to the LT network associated with the respective distribution transformer. Or,
- Feeder-wise load factors along with justified and appropriate CFs will be applied for determining the Annual Energy Loss (AEL) attributable to the LT network associated with the respective distribution transformer.

iv. Service Cable Losses:

- For the purpose of evaluating losses in service cables, these cables shall either be incorporated into the LT GIS network or, alternatively, a dedicated analytical model shall be developed to represent the actual electrical parameters of various categories of service cables, based on the specific nature of the connected load.
- The length of the service cable shall be determined on a prudent and technically justified basis, reflecting the representative average service-lengths. Segregation may be carried out for urban and rural areas, as well as for domestic, commercial, industrial,

and agricultural consumers, to ensure accurate representation of the existing network topology.

- The applicable Load Factor (LF) of the respective distribution transformer shall be used.
- For loss calculations; where transformer specific LF is not available, the corresponding feeder LF shall be applied For determining the AEL, an appropriate LF shall be applied, with proper technical justification, in deriving the LLF for service-cable loss evaluation

4.3 Consolidated Distribution Loss Assessment Losses shall be computed and reported at:

i. Company, Circle, Division, Sub-Division, and Feeder levels.
ii. Components
    - HT line losses
    - DT losses (category and capacity-wise)
    - LT line and service cable losses
    - Impact of DER/Net Metering on losses
    - Total Technical Distribution Losses (HT Line + Distribution Transformer + LT Line+ Service Cable)
iii. Reconciliation of the calculated losses with CP-22 and CP-22(T) losses for corresponding period to segregate administrative losses.
iv. The feeder wise losses shall be reconciled with the CP 22 losses. Any material variance identified during this comparison shall be highlighted and substantiated with appropriate technical justification and supporting evidence.
v. For the purpose of validating LT network loss calculations against the CP 22 (1) losses, a complete and verifiable database shall be maintained. A representative sample analysis shall also be furnished to demonstrate the correlation and justification of the simulated LT network results with the recorded performance data.

5. Investment Plan Review and Loss Reduction Strategy

i. Provide recommendation and identify feeders and areas requiring rehabilitation, compensation, or reconfiguration is required
ii. Review and validate HESCO investment plans for technical soundness and the anticipated five-year loss reduction trajectory, and to establish a validated baseline for future system
iii. and loss-reduction planning Quantify expected loss-reduction trajectory over the next five years on a least-cost basis

6. Deliverables: The Firm shall submit:

i. Validated transmission and distribution simulation models.
ii. Detailed technical reports with
    - Methodology
    - Assumptions
    - Results
    - Benchmarking
    - Variance analysis
    - Any other essential aspects
iii. Loss-reduction recommendations with cost-benefit analysis.

iv. Regulatory-ready documentation and presentations.
v. Support for presentation, clarification, and defense before NEPRA and any consequential revisions thereof until approval.

Part B)

1. INFORMATION TO CONSULTANT

- In the case of a joint venture, consortium, or association, all members shall be jointly and severally liable for the Contract's execution under the Contract's terms and conditions. The joint venture, consortium or association shall nominate a Lead Member who shall have the authority to conduct all business for and on behalf of all the members of the joint venture, consortium, or association during the Bidding process, and in case of award of contract, during the execution of the contract.
- The appointment of the Lead Member in the joint venture, consortium, or association shall be confirmed by submission of a valid Power of Attorney to the Procuring Agency:
- Maximum number of members in the joint venture, consortium or association shall be **three (03)**.
- A verifiable copy of the agreement that forms a joint venture, consortium or association shall be required to be submitted as part of the Bid.
- Technical forms from Tech-1 to Tech-8 shall be filled by consultant as well as financial forms Fin-1 and Fin-2 (attached).

2. LOCATION OF THE PROJECT:

13 Districts under the jurisdiction of Hyderabad Electric Supply Company HESCO viz. Hyderabad, Matiari, Tando Allah Yar, Nawab Shah, Tando Mohammad Khan, Sanghar, Badin, Mirpur Khas, Sujawal, Umerkot, Thatta, Tharparker and Jamshoro

3. FOCUSED FIELDS:

To carry out load flow studies of STG Network, 11kV Feeders, LT Network, Distribution Transformers and Service mains.

4. OVERVIEW OF HESCO'S DISTRIBUTION SYSTEM

Detail of Offices:

- Circles = 04 No.
- Divisions = 17 No.
- Sub Divisions = 72 No.

5. TECHNICAL INFORMATION OF HESCO AS ON 30.06.2026

5.1 Grid Stations:

220 KV Source Grid Stations of NTDC	02	Nos.
Total Grid Stations Under GSO HESCO	**91**	**Nos.**
132KV Grid Stations	66	Nos.
66KV Grid Stations	14	Nos.
132KV Consumer Grid Stations	11	Nos.

5.2 Transmission Line:

No. of 132 KV Circuits	106	No.
No. of 66 KV Circuits	16	No.
Total Circuits	**122**	**No.**
132KV Transmission Lines (S/C) = 1729 KM 132KV Transmission Lines (D/C) =1291 KM	3020	KM
66KV Transmission Lines (S/C) = 630 KM 66KV Transmission Lines (D/C) =---------- KM	630	KM
Total	**3650**	**KM**

5.3 Power Transformers:

Description	No.	MVA
132 / 11.5 KV Power Transformers	120	3228.60
66 / 11.5 KV Power Transformers	14	116.40
Sub Total:-	134	3345.00
132 / 66 KV Power Transformers	04	103.50
Total:-	**138**	**3,448.50**

5.4 Circle wise No. of Feeders and Length:

Circles	No. of Feeders	Measured Length in km
Hyderabad	180	3,300
Laar	245	9,550
Nawabshah	187	11,100
Mirpurkhas	98	7,550
Total	**710**	**31,500**

5.5 Circle wise No. of Transformers, LT Line's Length and Consumers:

Circles	Total No. of Transformers	LT Length (km)	No. Consumers
Hyderabad	10,300	3,912	352,805
Laar	15,940	4,978	279,993
Nawabshah	20,960	2,780	386,961
MirpurKhas	11,300	3,530	252,103
Total	**58,500**	**15,200**	**1,271,862**

Note:

- In case of any increase in data due to network extension and rehabilitation during the performance of contract, the Consultant firm will be bound to carry out the loss evaluation study without any additional cost.
- The study shall be carried out in accordance with the Terms of Reference (TOR) and regulatory requirements of HESCO and NEPRA.

6. Other Requirements from Consultant

6.1 Monthly Progress Reports

The Consultant shall submit detailed monthly progress reports outlining activities performed, data collected, analysis conducted, issues encountered, and planned activities for the following month.

6.2 Deliverables

All deliverables as specified in the ToRs shall be submitted within the agreed timelines.

6.3 Draft Study Report

The Consultant shall submit Draft Study Reports covering all components of the project for review and comments by HESCO.

6.4 Final Study Report

The Final Study Report shall be submitted after incorporation of comments received from HESCO.

6.5 GIS Mapping

The Consultant shall analyze 100% of the LT Network of HESCO across all categories with the help of GIS maps provided by HESCO.

6.6 Data Submission Requirements

The Consultant shall submit all study data and models in compatible digital formats including 11kV mdbs., warehouse, LT Data Entry access file (Field_Data and GPS_Points), GPS Points, Text file, GDBs), KMLs and synergi electric mdbs. of LT Network. All submitted data shall be fully functional, editable, and compatible with HESCO existing systems.

7. REPORTING REQUIREMENT (Monthly)

- The consultant shall submit monthly progress report about the project to HESCO.

8. REPORTING REQUIREMENT FOR 50% Study

First Eight Months Initial Study & Submission

It has been proposed that the consultant will submit an initial study report comprising upon 50% of the network to HESCO within first Eight Months of the study. This report will be based on the study of Transmission, HT, L.T Networks including Distribution Transformers, and service main of HESCO.

NOTE:

The Consultant shall, at the completion of the project, provide all GIS/Relevant data of the HESCO Transmission & Distribution Network (HT/LT) and all other reporting formats. All such deliverables shall be fully compatible with HESCO's existing systems and requirements. The data formats shall be finalized at the commencement of the contract in coordination with HESCO.

9. MODE OF PAYMENT

In consideration of the services performed by the consultant under this contract, the client shall make to the consultant such payments and in such a manner as stated herein.

Activity	% Payment
1. Mobilization/Advance Payment (subject to submission of Bank Guarantee having validity of 09 months)	10%
2. Upon completion of 50% of Loss Study	25%
3. Upon Submission of initial Loss Study Report (after addressing comments from HESCO)	25%
4. Upon submission of the Final Report and, if required, submission of the revised Final Report after duly addressing HESCO's comments.	25%
5. Upon approval of loss evaluation study by NEPRA	15%
Total	100%

Payments will be made by Chief Financial Officer HESCO on production of following documents.

i. Submission of Invoices of official letter head in triplicate.

ii. The payments against above will be made on the submission of duly certified/ verified reports from Steering Committee/focal Persons nominated by HESCO.

10. FOCAL PERSON ON BEHALF OF THE CLIENT

The following Steering Committee of HESCO shall act as focal person for the client:

1. Chief Technical Officer — Convener
2. S.E (GSO) — Member
3. Dy: Director (Tech:) of concerned Circle — Member
4. Representative of (P&E) — Member
5. Representative of (MIRAD) — Member

11. PLACE / LOCATION OF PERFORMANCE OF SERVICES:

- The services shall be performed at the Consultant's offices, HESCO offices, and various sites of 132/66 kV HESCO Grid Stations, as well as different sites of 11 kV feeders, LT lines, and service mains within the jurisdiction of HESCO.
- HESCO shall not provide any office accommodation, computers or related accessories official vehicles, or TA/DA to the Consultant's staff.

12. KEY PERSONNELS

Position (for load flow studies)
Principal System Study Engineer (Elect. / Team Leader)
Support System Study Engineer (Elect.)
Junior Engineer (Elect.) / SynerGEE Electric Software expert
Position (For Physical Assessment /study)
Principal Engineer (Elect.)
Support Engineer (Elect.)
Junior Engineer (Elect.)

13. INFORMATION TO BE PROVIDED BY THE CLIENT FOR TRANSMISSION & DISTRIBUTION LOSS ANALYSIS:

HESCO will assist the Consultant by providing all necessary and relevant information required for carrying out the Transmission & Distribution Loss Analysis as given above.

14. CONTRACT FOR ENGINEERING CONSULTANCY SERVICES

The contract for Engineering Consultancy Services will be based on Pakistan Engineering Council's "Standard form of Contract for Engineering Consultancy Services (for Large Projects)" for Lump sum Assignments. However, necessary special condition included in the contract according to HESCO's financial and legal matters.

15. FINANCING:

The consultancy services shall be financed through HESCO's own budgetary resources.

16. TRAINING:

The Consultant shall provide hands-on training to Ten **(10)** HESCO Engineers/Officials on T&D technical loss evaluation through PSS/E, Synergi Electric, ArcGIS, and related methodologies.

17. Professional Liability Period:

The period during which consultant's responsibility to rectify any error / observation or amendment in the data already provided to HESCO as desired. The professional liability period is 18 months after the completion of the project and issuance of completion certificate by HESCO.

Completion Schedule

S.No.	Activity	Duration
01	50% Completion of Loss Evaluation Study	08 Months
02	Submission of Initial Loss Study Report (after addressing the comments from HESCO)	06 Months
03	Approval of Initial Loss Study Report by HESCO	01 Month
04	Submission of final Loss Study Report (after addressing comments from HESCO)	03 Months
05	Approval of Loss Study Report: 1. BoD HESCO 2. NEPRA Note: Consultant is bound to give presentation to BoD HESCO/NEPRA as and when desired.	During the Professional Liability period or till the final approval from NEPRA

PUBLIC PROCUREMENT REGULATORY AUTHORITY (PPRA) EPADS

QUALIFICATION AND EXPERIENCE OF CONSULTANT PERSONNEL

Consultant will assign adequately qualified key personnel to carry out the implementation of the services as mentioned in TOR. In particular, the personnel should possess the qualification and experience as indicated in the following:

1. **Principle System Study Engineer / Team Leader:**

He should have a Bachelor Degree in Electrical/Electronics Engineering from a HEC recognized university/International recognizing entity and posses the Master degree as well. He should have specific experience of working in senior Techno-managerial positions on similar projects. The incumbent should have minimum experience of 10 years with at least 05 years in relevant field. He should be able to lead the team of consultants and assist HESCO in timely implementation of the project with a quality output.

2. **Technical Member: -**

i. Load flow Analysis
ii. Physical study

He should have at least a Bachelor's Degree in Electrical/Electronics Engineering from a HEC recognized university/ International recognizing entity and should have minimum 06-years' experience with at least 3 years in relevant fields.

HYDERABAD ELECTRIC SUPPLY COMPANY

MINUTES OF PRE-BID MEETING

HIRING OF CONSULTANTS FOR STUDY AND ASSESMENT OF TRANSMISSION & DISTRIBUTION (T&D) TECHNICAL LOSSES OF HESCO NETWORKS FOR THE YEAR 2025-2026

A pre-bid meeting in respect of Tender, for Study / Evaluation of Technical Losses of Transmission and Distribution (T&D) System was held on 18.08.2026 in the Committee Room HESCO Colony.

Following from HESCO and bidders side attended the meeting:

From HESCO side	From Bidder's /Firms side:
Mr. Ramesh Kumar, C.E (P&E)	**M/s Pulse Electric Consultants** 1. Mr. Irfan Ahmed 2. Mr. Iqbal M. Shaikh 3. Mr. Bashir Shaikh
Mr. Abdul Haq Shaikh, DG (Procurement)	**M/s MRC, Turkey** 1. Mr. Muhammad Ameen
Mr. Tufail Hussain Mirbahar, (CTO)	
Mr. Abdul Majid Jatoi, DG (MIRAD)	**M/s Barqaab** 1. Mr. Junaid Ali Khan, Electrical Engineer
Mr. Tajamul Hussain, Manager (P&E)	**M/s Sapphire Consulting Services, Karachi** 1. Syed Zahid Jamal, Profess. Engineer
Mr. Saeed Ahmed, Dy: Manager (MIRAD) /P&E	**M/s Mak Power + HMF** 1. Mr. Adeel Mehmood, Tendering Lead 2. Mr. Ahmed Ashraf, Technical Director 3. Imran Ali, Manager
Mr. Muhib Ali Rajpar, Dy: Manager MI (TS)	
Mr. Abdul Hafeez, Dy: Manager TS	
Miss Shanza Ali, A.M (P&E)	
Mr. Hamza Khan, A.M (P&E)	
Mr. M. Arsalan Ansari, A.M (MIRAD)	
Mr. Imran Rind, A.M (MIRAD)	
Mr. Shahzad Gul, A.M (MIRAD)	
Mr. Shoaib Ahmed, LM-II attached with P&E	

Proceedings:

The pre-bid meeting started with the recitation of Holy Quran, thereafter various queries were raised / presented by the representative of firms and accordingly replied by HESCO team. Detail of which is as under:

Firm Name	Query	*Reply*
M/s. Pulse Electric Consultants (verbal and written queries)	1. Please clarify whether HESCO requires one integrated network model from 132 kV through 11 kV and LT, or separate transmission/sub-transmission and distribution models with a defined and reconciled interface at the 11 kV bus-bars	*HESCO requires separate Transmission / sub-transmission and distribution models with a defined and reconciled interface at the 11 kV bus-bars.*
	2. Please clarify whether HESCO will provide an existing GIS database covering the LT network and whether the Consultant is required to validate / update the existing GIS data or undertake fresh field-based 100% LT GIS mapping, including GPS survey of poles, conductors, DTs, branches, service connections and consumers. This distinction is essential for determining manpower, field resources and cost	*HESCO will provide GIS maps of LT network.*
	3. Please clarify whether "100% LT Network" requires modelling of all LT feeders and DT networks	*Yes*
	4. Please confirm that the datasets will be provided in machine-readable and usable formats	*Yes*
	5. Please provide the number and percentage of DTs for which AMI / APMS / Scanning-meters	*Installation of AMI / APMS / Scanning Meters is currently ongoing and the required information will be provided*

	data and actual load profiles are available	*accordingly / periodically*
	6. Please provide the current versions, schemas / templates and software versions of HESCO's GIS, Synergi Electric, data warehouse and Access / MDB systems	*Current version of Synergi is: 5.0, Remaining require data would be provided to successful firm after signing of the Agreement.*
	7. Please clarify how the "50% of the network" is to be measured—whether by number of feeders, DTs, LT network kilo meters, consumers, geographical area, or a representative combination thereof. Please also clarify whether HESCO will identify/approve the 50% sample and whether it is required to be statistically representative of the entire HESCO network.	*50% of contractual work needs to be completed within 08 months from the contract effective date. Quantum, Scope and methodology shall be discussed during the negotiation and shall be finalized accordingly.*
	8. Please confirm that existing network models and GIS data will be provided by HESCO	*Please refer point No. 3 & 4 of ToRs (Part-A).*
	9. Is existing electrical model PSS ®E editable?	*Yes*
	10. Which version of Synergi software is being used in HESCO?	*Current version of Synergi is : 5.0*
	11. Equivalent software other than Synergi, can be used?	*If data can be converted and validated in Synergi Electric Software then equivalent software can be used, subject to zero mismatch.*
	12. Existing GIS data of LT is available or not	*Please refer response against query No.2 above.*
	13. How 100% LT Mapping and Modelling of 1.27 Million consumers is possible in 09 months	*Please refer Amendment No. 1 (Duration of contract has been extended through revised bidding document)*

	14. Existing 5% sampling LT data will be provided?	*No*
	15. Data of Distribution Transformers (DTs) will be provided	*The data will be provided as per ToRs Part A clause 4.1 (iii)*
	16. It is a suggestion that the training will be done after the actual model is completed	*The training should be given during the performance of contract agreement.*
	17. How consultant will coordinate with NTDC	*The firm will approach to NTDC/NGC and ISMO through HESCO about validation of data provided (if needed)*
	18. The payment of 15% against 50% work is not sufficient	*(Mode of payment has been changed through revised bidding document)*
	19. It is a suggestion to change the 20% payment to 5% upon approval of loss evaluation study by NEPRA	*Mode of payment has been changed through revised bidding document)*
	20. The effective date should be considered after the provision of data from HESCO	*The effective date of contract is commencement of project date which will be 10th day from signing of agreement.*
	21. It is recommended that the 20% payment upon approval of loss evaluation study by NEPRA should be amended and timeline to get NEPRA's approval should be fixed.	*Mode of payment has been changed through revised bidding document* *As far as NEPRA approval is concerned this point shall be catered at the time of contract negotiation.*
M/s Sapphire Consulting Services, Karachi **The same queries have also been received from M/s. AZ NavTeq in written**	1. Extension of Bid Submission Dead Line	*Extended up to 15.10.2026 @ 11:00 am*
	2. Extension of Project Duration from 09 months to either 18 or 24 months	*Duration of contract has been extended through revised bidding document)*
	3. Status of CP-22/CP22(T) Data and Meter availability	*CP-22 data is available, whereas for CP-22(T), please refer reply against query No.5 of M/s. Pulse*

vide letter No.OB20260801 dated: 21.08.26		*Electric, above.*
	4. Please clarify, how will the marking criteria be applied to a local firm that has successfully executed similar nature work Internationally.	*Evaluation criteria has been changed through revised bidding document*
	5. Please provide the exact extent and geographic distribution of AMI / APMS coverage across the 04 circles of HESCO	*Please refer reply against query No.5 of M/s. Pulse Electric, above.*
	6. Software Dongle Serial No. is a must requirement or a certificate would be acceptable?	*Valid License Certificate / Undertaking of arrangement before commencement of project is also acceptable with respect to the Dongle of PSS/E, Synergee Electric & ARC GIS (latest version)*
M/s Mak Power + HMF	1. At page No.92 of RFP, 06 No. Key professional have been mentioned whereas at page No. 22 maximum 05 No. professionals will be considered for scoring.	*Correction has been made in revised bidding document*
	2. What will be the duration of training	*15 days*
	3. Please clarify the submission timeline of initial study report. At Page No. 90, it is mentioned that initial study report comprising 50% of the work will be submitted within first 03 months whereas at Page No. 93, the duration of Submission of Initial Loss Study Report is 04 months. These timelines should be considered as sequential as 07 months?	*Correction has been made in revised bidding document*

	4. Is 100% LT Mapping is mandatory requirement of NEPRA?	*Yes*
	5. Scope of call center facility	*Means availability in Hyderabad*
	6. Clarify Firm's experience in terms of similar and same nature of work in Technical Evaluation Criteria	*Evaluation criteria in terms of experience has been changed in revised bidding document*
M/s BARQAAB Consulting Services (Pvt.) Ltd. (verbal and written queries)	1. Technical and Financial Weightage under QCBS — The RFP specifies QCBS and a minimum technical qualifying score of 70 marks out of 100, but the technical / financial weightages for the combined score are not expressly stated. The bidder proposed 80% Technical and 20% financial weightage.	*Proposal is not accepted.*
	2. Performance Security — Request to reduce the Performance Guarantee from 10% to 5% of Contract Price and to permit an Insurance Guarantee from an A+ rated insurance company in addition to a Bank Guarantee.	*Proposal is not accepted.*
	3. 100% GIS Mapping of LT Network — Clarification whether HESCO has already completed LT GIS mapping and whether existing GIS data/maps will be provided, or whether a fresh field survey is required.	*Please refer reply against query No.2 of M/s Pulse Electric, above.*
	4. Revision in Mode of Payment — Request to	*Mode of payment has been changed in revised bidding*

	revise the payment schedule from 15% / 30% / 35% / 20% to 25% / 25% / 30% / 20%, considering mobilization, field survey, GIS mapping and data collection requirements.	*document)*
	5. Revision of Timeline for 50% Completion — Request to extend the milestone for 50% completion of the Loss Evaluation Study from 03 months to 04 months due to field surveys, 100% LT GIS mapping, data collection / validation and network modelling.	*Timeline has been extended in revised bidding document)*

	6. Kindly apprise the expected job by the consortium with respect to data validation and reconciliation. How HESCO is going to confirm the data validation and reconciliation?	*The transmission loss evaluation data will be scrutinized and vetted by the office of D.G (MIRAD) and similarly the distribution data by the office of Chief Engineer (P&E).*
	7. It is mentioned that the models include both summer and winter peak conditions. The Consortium understands that this requirement expands the scope, requiring analysis for both summer and winter scenarios at the feeder level. Kindly confirm.	*Analysis is required for both summer and winter scenarios, as per the ToR.*
	8. HESCO to confirm provision of feeder wise loading data i.e. load currents peak hours for summer and winter for	*Yes*

	the base years as per recorded data at grids and other associated data.	
	9. Please clarify how HESCO plans to benchmark company-wide feeder mix.	*The information about selected feeders for benchmarking will be provided to successful bidder after signing of contract.*
	10. The Consortium understands that distribution transformer losses will be assessed based on peak load derived from the number of consumers per transformer and applying fixed load values for each consumer meter type (Single Phase, Three Phase). Kindly confirm.	*Please refer ToRs Part A clause 4.2 (ii, iii, and iv)*
	11. As per prevailing practices, loss analysis of independent transformers and their associated LT network as well as service cables is not typically undertaken. Under the revised TORs, which require 100% GIS-based network mapping, how should independent transformers be treated?	*Independent transformers should be treated alike distribution transformers.*
	12. Kindly clarify that, if service cable lengths are estimated on a category-wise basis (urban/rural),	*Please refer ToRs part A clause 4.2 (iv)*

	how should these be modeled within the LT network model or as a separate component?	
	13. For providing impact of DER/Net Metering on technical losses, detailed process needs to be defined by HESCO at this stage. Accordingly, input data will have to be provided by HESCO for this purpose.	*Please refer clause-1(iii) of ToRs (Part-A). However, T/F wise, Feeder wise/Grid wise impact of DER/Solar PV net-metering / net billing is to be calculated in terms of loss estimation & energy accounting. HESCO will provide the required data accordingly.*
	14. Please clarify the criteria for selection of samples from LT Network to be used for reconciliation of LT Network losses with CP-22 losses, and kindly also explain the methodology adopted for their selection OR alternatively, methodology for reconciliation with CP-22 losses will be consented before submission of financial proposal by the Consortium.	• *No Sampling, calculation of 100% LT network losses is required.* • *Special marks are allocated to the methodology within the evaluation criteria; therefore, consultants are required to submit their methodology with their bid.*
	15. Transmission investment plans are mainly prepared to meet additional load demand, remove transmission constraints, power evacuation from generators and not	*Reduction in Transmission and distribution losses as well as financial impact is not directly an additional benefit but directly associated / linked with investment plans. However, the firm should submit recommendations / analytical output for reduction of losses. Reduction measures technically,*

	primarily to reduce transmission system losses. The reduction in transmission losses and its financial impact is an additional benefit.	*economically and commercially by considering the investment plans.*
	16. TORs do not provide any details pertaining to review and validation of DISCOs investment plans for technical soundness and the anticipated five-year loss-reduction trajectory as well as establishing a validated baseline for future system and loss-reduction planning. Kindly share the details.	*The required detail will be provided to successful bidder at the time of kick-off meeting/ after signing of contract agreement.*
	17. Kindly elaborate precisely what kind of documentation and presentations are required to assess the level of effort and cost thereof.	*The information regarding number of presentations is supposed to be known by experienced consultant.*
	18. Please note that purpose is not very clear. In fact, the transmission losses are not calculated for the selected feeders, rather, these are calculated for the entire transmission network of a DISCO. Moreover, duration is not clear, whether it is for a month or a year.	Transmission losses are to be calculated for the entire transmission network, as per the ToR's.

	19. The Firm/Consortium can compare the simulated losses with the recorded losses, but DISCOs know better the issues related to the metering of energy exported from the substations, e.g., Exemptions of metering for some critical/governmental consumers. Reverse/back flow of energy in some substations from PV Solar installed in the distribution systems. This negative reading of the energy meters when summed up at annual level across the whole DISCO, may not fully account for the energy loss happening due to power flow on the lines and transformers. a. How 5-year loss-reduction trajectory can accurately be anticipated? b. How a validated baseline for future system and loss-reduction planning can be established? c. How expected loss reduction trajectory over the next five years on least cost basis can be established? Above matters need to be	*Transmission losses are to be compared with recorded T&G losses for the respective year by taking/considering in view the average metering behavior as well as DER behavior.* *a. Consortium on the basis of technical losses, Loss Reduction Trajectory can accurately be anticipated.* *b. Firm may utilize its expertise to validate baseline for future system through which loss reduction planning could be established. Please refer "a" above.* *c. By considering the loss reduction trajectory as well as keeping in view the investment plan which is to be worked out by the consultant.*

	deliberated with DISCO/NEPRA	

PUBLIC PROCUREMENT REGULATORY AUTHORITY (PPRA) EPADS

	Query	*Reply*
M/s MRC, Turkey **Dated 17.08.2026** (verbal and written queries)	1. Is PEC registration required for a foreign JV Lead Member at bid stage, or is the Pakistani member's valid PEC 2026–27 license sufficient? If required, is proof of application acceptable?	*A valid PEC License up to 2026-27 of joint venture members are accepted at bid stage*
	2. Please specify the relevant PEC discipline, service codes, and project profile codes for both the Pakistani and foreign JV members.	*Please check the relevant PEC category on PEC website.*
	3. Please confirm that an eligible foreign firm may act as Lead Member of the joint venture.	*Yes, an eligible foreign firm may act as Lead Member of the joint venture.*
	4. Please confirm whether registration with the FBR (NTN/Active Taxpayer List) and with SRB is required at bid stage from (a) Pakistani member only (b) foreign Lead Member and/or (c) joint venture as a whole.	*Every member of joint ventures*
	5. For a joint venture member that is not registered on EPADS v2.0 whether the member may remain unregistered through to contract award	*Registration on EPADS 2.0 is compulsory for all JV members.*
	6. Please state what the prescribed minimum qualification is and the evidence required to demonstrate it	*Please refer revised bidding document)*
	7. Please confirm whether the three-member JV limit excludes sub-	*Sub-consultants are not allowed for this project.*

	consultants, and clarify the extent to which sub-consultants may be used for field surveys and GIS data collection.	
	8. Please provide the technical and financial weightings and combined-score formula for the QCBS evaluation.	***Technical Weight age = 70%*** ***Financial Weight age = 30%*** ***Formula:*** *Quoted Price in Financial Bid= A* *Technical Score (Obtained)= B* *Total Technical Score= C* *Minimum Quoted Price= D* *Financial Proposal Factor w.r.t 30% Weightage = 0.30* *Technical Proposal Factor w.r.t 70% Weightage = 0.70* ***Equation:*** $[\left(\mathbf{0.3} \times \frac{D}{A}\right) + \left(\mathbf{0.7} \times \frac{B}{C}\right)] \times \mathbf{100}$
	9. Please clarify how JV members' qualifications are aggregated, including experience, turnover, financial resources, personnel, and company age, and whether minimum thresholds apply to the Lead Member or each JV member.	*The Qualification of the JV Member shall be considered collectively in evaluation.*
	10. Please resolve the difference in the firm-strength scoring at Page No. 20 & 66	*Difference has been eliminated in revised bidding document*
	11. Please resolve the difference in turnover scoring at Page No. 21 & 66	*Correction has been made in revised bidding document*
	12. Please define terms "similar nature of work", "same nature of work" and "local Govt./Semi-Govt organizations"	*Please refer revised bidding document*
	13. Please clarify the mapping of six ToRs positions to the 5 scored	*Please refer revised bidding document*

	technical members, whether all 6 positions are mandatory, and the minimum qualifications and experience for each position.	
	14. Please clarify the education scoring scale for technical experts	*Please refer revised bidding document*
	15. Please clarify the conflicting Team Leader requirements: minimum 10 years' total experience with 5 years' relevant experience in the TORs, versus 5 marks for less than 10 years' experience in the evaluation criteria.	*Please refer revised bidding document*
	16. Please specify the minimum person-month input required for each Key Expert and whether minimum home-office or field inputs apply	*The Scope of work under this RFP is on Fixed Price.*
	17. Please confirm that the network information and asset quantities stated in the ToRs as of 30 June 2026 constitute the contractual baseline for preparing the Technical and Financial Proposals.	*Please see the "NOTE" at the end of ToRs Part-B, point No. 5 (**Technical Information of HESCO)** of RFP.*
	18. Please confirm that the network information and asset quantities stated in the TOR as of 30 June 2026 constitute the contractual baseline for preparing the Technical and Financial Proposals.	*During performance of contract, hardly 05% increase is expected. For this expectation, please see the **"Note"** at Point No. 05 ToRs (Part-B).*

	19. Please confirm whether the 33 kV network is within scope and, if so, provide the relevant asset quantities and available network data.	*As 33 kV network does not exist in HESCO hence only 132, 66, 11 kV and below may be considered.* *However, all networks are parts of the study(ies).*
	20. Please confirm whether 100% LT coverage requires complete GIS/model mapping, with physical verification allowed on a risk-based or representative sampling basis.	*Please refer response against query No.2 of M/s. Pulse Electric.*
	21. Please confirm whether HESCO will provide a 100% geo-referenced LT network database and, if not, specify the currently mapped coverage and the portion to be surveyed and digitised by the Consultant.	*Please refer response against query No.2 of M/s. Pulse Electric.*
	22. Please specify the minimum sampling requirements for field validation by Circle, Division, feeder, urban/rural area, transformer, and consumer category.	*No Sampling, calculation of 100% LT network's losses are required.*
	23. Please confirm that both service-cable approaches are acceptable—LT GIS integration or a separate analytical model—and clarify whether individual service-cable mapping is required for all 1,271,862 consumers.	• *Please refer response against query No.2 of M/s Pulse Electric.* • *Separate analytical model for service cables* • *GIS data for consumers will be provided*
	24. Please confirm the required approach where actual loading	*To be discussed in Kick-off meeting.*

	data is unavailable, including any metering requirements, quantities, specifications, measurement period, and equipment ownership.	
	25. Please confirm the availability, completeness, reference dates and software versions of HESCO's PSS/E, Synergi Electric, HT GIS, transformer, CP-22/CP-22(T)/CP-22(1), AMI/APMS/scanning meter, DER and net-metering data, and identify any material data gaps to be addressed by the Consultant.	*The Data will be provided to the successful bidder after signing of Contract.*
	26. Can HESCO provide representative sample files, database schemas and data dictionaries for the PSS/E, Synergi, GIS, CP-22 and LT datasets before the bid deadline to enable realistic assessment of the methodology and data conversion effort?	*HESCO will provide only such data that mentioned at ToRs (Part-A) point No. 4 & 5 of RFP.*
	27. Please confirm whether HESCO will obtain required data from ISMO, NGC and other entities, and what relief or extension will apply if such data is delayed or unavailable	*The data will be provided by HESCO, however, the validation of the same could be authenticated from ISMO and NGC by consultant through HESCO.*

	28. Please confirm the required simulation cases, including 24 matched monthly peak/off-peak transmission cases and summer/winter load-flow cases for all 710 feeders.	*Yes. Transmission study requires 24 matched cases (peak & off-peak for each month).* *Analysis is also required for both summer and winter load flows for all 11kV feeders.*
	29. Please confirm whether PSS/E, Synergi Electric and ArcGIS licenses are mandatory, or whether equivalent software is acceptable, and specify the required versions and whether subscription/cloud licenses without dongles are accepted.	*Valid License Certificate/ Undertaking of arrangement before commencement project is also acceptable with respect to the Dongle of PSS/E, Synergi Electric & Arc GIS.*
	30. Please confirm whether software licenses must remain valid for the 270-day implementation period only, or also through the defect liability and NEPRA review/approval periods.	*Relevant Software's should be available with consultant till the issuance of completion report of the project.*
	31. What software versions, database schemas, CRS, GIS accuracy standards, file naming conventions, and data structures are required for all final deliverables to ensure HESCO compatibility?	*Please see ToRs (Part-A) point No.4 & 5 of RFP*

	32. What technical acceptance criteria shall apply to distribution loss models, GIS positional and topological accuracy, data completeness, load-flow convergence, reconciliation tolerances, and the permitted variance between simulated and recorded losses, beyond the transmission regression requirement of $R^2 \geq 0.90$?	*Please see reply against query No.5 of M/s. Pulse Electric, above.*
	33. Please confirm the single binding contractual programme reconciling the 270-day delivery period with the stated milestones, approvals, Forms TECH-7 and TECH-8, and the Financial Proposal.	*Please refer revised bidding document*
	34. Please specify HESCO's contractual review and comment period for each interim, draft and final deliverable, and confirm that the Consultant's programme will be extended for any HESCO-attributable delay in comments or approvals.	*In case of delay is occurred, from HESCO side (based on sound / reasonable / justifiable grounds), the extension of such delaying period will be given to consultant.*
	35. Please confirm the sequence and contractual time limits for scrutiny, authentication, vetting and Steering Committee certification of transmission and	*Please refer General Provision of revised bidding document*

	distribution losses, including the time allowed by each authority, given that payments depend on duly certified and verified reports.	
	36. Please clarify the expected number and format of presentations, clarification rounds, and report revisions before HESCO, its Board, and NEPRA, and confirm whether support required after the 270-day implementation or defect liability period will be treated and paid as additional services.	*The presentations may be multiple times / till the satisfaction on report and subject to the incorporation of comments.* *In case defect liability period is passed and NEPRA not satisfied, no additional cost will be paid for any presentation or clarification.*
	37. Please clarify the required duration, number of sessions, location and course content for training five HESCO engineers/officials, and confirm whether HESCO will provide the venue, computers and software licences or whether these should be included in the Consultant's price.	*Please refer revised bidding document*
	38. Please clarify what assistance HESCO will provide for site access, security clearances, safety permits, escorts, field/consumer coordination, and required shutdowns or measurements for site work across the 13 districts	*The concerned sub division staff will provide assistance during survey.*
	39. Please confirm that the	*In this regard please refer the*

	consultancy will be a fixed, lump-sum, milestone-based contract and that the inconsistent time-based remuneration and reimbursable expense provisions under GCC Clause 43 will be deleted or amended accordingly.	*BDS clause No. 09 where categorically mentioned the price is fixed.*
	40. Please confirm whether a deadline or automatic approval will apply if NEPRA delays approval of the final 20% payment, and how many revision rounds are included in the contract price.	*Please refer reply of query raised by M/s Pulse Electric Consultants at Point No. 21.*
	41. Please confirm the applicable withholding tax and Sindh sales tax rates and service code, whether they differ for foreign and Pakistani members, and whether the deducted tax is adjustable/creditable or a final charge.	*Rates of taxes will be in accordance with taxes applicable at the time payment.*
	42. Please confirm the payment currency and banking arrangements for the foreign Lead Member, including currency conversion and transfer of funds abroad, and provide the missing payment account details.	*The Payment will be made in Pak Rupees as mentioned in RFP.* *If the participating consultant will be JV, then payment would be made in the account of JV.*
	43. Please confirm the required professional liability insurance limit, policy period, territorial and jurisdictional coverage, retroactive	*The statement or part thereof left blank means not applicable. The indemnity limit cannot determine at this stage.*

	date, and any requirements for the insurer.	
	44. Please confirm Bid Security amount and whether a Bid Security Declaration is acceptable?	*The Amount of Bid Security is 3.5 million PKR.* *Bid Security Declaration is not acceptable.*
	45. Please confirm the acceptable bid security instruments and whether a foreign bank guarantee, confirmed by a scheduled Pakistani bank, will be accepted.	*The Bid security shall be in the Form of Pay Order / Banker's cheque / Call Deposit / Bank Guarantee or Demand Draft.*
	46. Please confirm the beneficiary name, required wording, minimum expiry date, and whether validity until 29 January 2027 is sufficient, as well as the office, addressee, and accepted method for submitting the original bid security.	*New dead line date is 15.10.2026 @ 11:00 am, so calculate days as per new dates and deliver the original instrument at Room No. 220 HESCO Headquarter, Hussainabad, Hyderabad on or before closing date. The Beneficiary is Chief Executive Officer HESCO.*
	47. To conduct complete HT, LT and Transmission Losses, the timeline of 09 months is not enough	*Please refer revised bidding document*

Financial Resources

Specify proposed sources of financing, such as liquid assets, unencumbered real assets, lines of credit, and other financial means, net of current commitments, available to meet the total construction cash flow demands of the subject contract or contracts as specified in Eligibility and Qualification Criteria.

No.	**Source of financing**	**Amount (Eq. PKR)**
1		
2		
3		

PUBLIC PROCUREMENT REGULATORY AUTHORITY (PPRA) EPADS

Past Experience / Contracts

Contracts over *[insert amount]* during the last three years:				
Procuring Agency	Value	Year	Goods/Services Supplied	Country of Destination

PUBLIC PROCUREMENT REGULATORY AUTHORITY (PPRA) EPADS

Historical Contract Non-Performance, and Pending Litigation and Litigation History

[The following table shall be filled in for the Applicant and for each member of a Joint Venture]

Applicant's Name: *[insert full name]*
Date: *[insert day, month, year]*
Joint Venture Member Name: *[insert full name]*
IFP No. and title: *[insert IFP number and title]*
Page *[insert page number]* of *[insert total number]* pages

☐ Not debarred due to deviation from commitment of Bid Securing Declaration-☐ Not debarred due to non-performance			
Year	**Non-performed portion of contract**	**Contract Identification**	**Total Contract Amount (current value, currency, exchange rate and PKR equivalent)**
[insert year]	*[insert amount and percentage]*	Contract Identification: *[indicate complete contract name/ number, and any other identification]* Name of Procuring Agency: *[insert full name]* Address of Procuring Agency: *[insert street/city/country]* Reason(s) for nonperformance: *[indicate main reason(s)]*	*[insert amount]*
Pending Litigation, in accordance with Section III, Qualification Criteria and Requirements			
☐ Pending litigation in accordance with Section III, Qualification Criteria and Requirements, Sub-Factor 2.3 as indicated below.			

Year of dispute	**Amount in dispute (currency)**	**Contract Identification**	**Total Contract Amount (currency), ~~US$~~ PKR Equivalent (exchange rate)**

[insert year]	*[insert amount]*	Contract Identification: [indicate complete contract name, number, and any other identification] Name of Procuring Agency: *[insert full name]* Address of Procuring Agency: *[insert street/city/country]* Matter in dispute: *[indicate main issues in dispute]* Party who initiated the dispute: *[indicate "Procuring Agency" or "Supplier"]* Status of dispute: *[Indicate if it is being treated by the Adjudicator, under Arbitration or being dealt with by the Judiciary]*	*[insert amount]*

☐ No consistent history of court/arbitral award decisions in accordance with Section III, Qualification Criteria and Requirements, Sub-Factor 2.4.

☐ Consistent history of court/arbitral award decisions in accordance with Section III, Qualification Criteria and Requirements, Sub-Factor 2.4 as indicated below.

Year of award	**Outcome as percentage of Net Worth**	**Contract Identification**	**Total Contract Amount (currency), PKR Equivalent (exchange rate)**
[insert year]	*[insert percentage]*	Contract Identification: [indicate complete contract name, number, and any other identification] Name of Procuring Agency: *[insert full name]* Address of Procuring Agency: *[insert street/city/country]* Matter in dispute: *[indicate main issues in dispute]* Party who initiated the dispute: *[indicate "Procuring Agency" or "Supplier"]* Court/ arbitral award decision: *[Indicate if the award decision was against the Applicant or any member of a joint venture.]y]*	*[insert amount]*

Current Contract Commitments / Works in Progress

Bidders and each member to a JV should provide information on their current commitments on all contracts that have been awarded, or for which a letter of intent or acceptance has been received, or for contracts approaching completion, but for which an unqualified, full completion certificate has yet to be issued.

Current Contract Commitments					
No.	Name of Contract	**Employer's Contact Address, Tel, Fax**	**Value of Outstanding Work [Current Eq. PKR]**	**Estimated Completion Date**	**Average Monthly Invoicing Over Last Six Months [Eq. PKR/month)]**
1					
2					
3					
4					
5					

Financial Situation and Performance

[The following table shall be filled in for the Applicant and for each member of a Joint Venture]

Applicant's Name: *[insert full name]*
Date: *[insert day, month, year]*
Joint Venture Member Name: *[insert full name]*
IFP No. and title: *[insert IFP number and title]*
Page *[insert page number]* of *[insert total number]* pages

1. Financial data

Type of Financial information in (currency)	**Historic information for previous** _*[insert number] years, [insert in words]* **(amount in currency, currency, exchange rate*, PKR equivalent)**				
	Year 1	Year 2	Year 3		
Statement of Financial Position (Information from Balance Sheet)					
Total Assets (TA)					
Total Liabilities (TL)					
Total Equity/Net Worth (NW)					
Current Assets (CA)					
Current Liabilities (CL)					
Working Capital (WC)					
Information from Income Statement					
Total Revenue (TR)					
Profits Before Taxes (PBT)					
Cash Flow Information					
Cash Flow from Operating Activities					

* Refer ITA 14 for the exchange rate

3. Financial documents

The Applicant and in case of JV, members of JV shall provide copies of financial statements for *[number]* years pursuant Section III, Qualifications Criteria and Requirements. The financial statements shall:

(a) reflect the financial situation of the Applicant or in case of JV member, and not an affiliated entity (such as parent company or group member).

(b) be independently audited or certified in accordance with local legislation.

(c) be complete, including all notes to the financial statements.

(d) correspond to accounting periods already completed and audited.

☐ Attached are copies of financial statements[1] for the *[number]* years required above; and complying with the requirements.

[1] If the most recent set of financial statements is for a period earlier than 12 months from the date of Application, the reason for this should be justified.

Average Annual Turnover (Annual Sales Value)

[The following table shall be filled in for the Applicant and for each member of a Joint Venture]

Applicant's Name: *[insert full name]*
Date: *[insert day, month, year]*
Joint Venture Member Name: *[insert full name]*
IFP No. and title: *[insert IFP number and title]*
Page *[insert page number]* of *[insert total number]* pages

Annual Turnover Data			
Year	**Amount** **Currency**	**Exchange rate*** **(If applicable)**	**PKR equivalent**
[indicate calendar year]	*[insert amount and indicate currency]*		
		Average Annual Turnover **	

* Refer ITA for date and source of exchange rate.

** Total PKR equivalent for all years divided by the total number of years. See Section III, Qualification Criteria and Requirements, ITA.