Standard Bidding Document

Establishment of PMD National Operations Centre (Non-Consultancy Services)

National

Single Stage-Two Envelope

CORRIGENDUM # 2	
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Pakistan Meteorological Department (Pakistan Meteorological Department),Director PMD HQS Office, Sector H-8/2., Islamabad Capital Territory
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Table of Contents

PROCUREMENT NOTICE 1

Instructions to Bidders 3

Bid Data Sheet 26

Bids Data Sheet (BDS) 27

Eligibility Criteria 31

Evaluation Criteria 32

Required Services 34

Related Services : 35

Services Specifications 36

Scope of Work 38

Brief Description 38

Price Schedule 40

General Conditions of Contract 42

Special Conditions of Contract 52

Bid Securing Declaration 58

Contract Form 60

Integrity Pact 63

Performance Guarantee Form 65

Annexure 68

RFP 69

BOQ 69

Procurement Forms 70

Additional Forms and Documents 73

PROCUREMENT NOTICE

PROCUREMENT OF NON-CONSULTANCY SERVICES

1. The **Pakistan Meteorological Department (Pakistan Meteorological Department)** has reserved Funds for the procurement planned for FY **2026-27**. The **Pakistan Meteorological Department (Pakistan Meteorological Department)** intends to apply part of the proceeds of this Fund to cover eligible payments under the contract for the "**Establishment of PMD National Operations Centre**" with the reference of **"P113449"**

2. The **Pakistan Meteorological Department (Pakistan Meteorological Department)** invites Bids through **EPADS v2.0** from eligible Bidders registered on **EPADS v2.0** for provision of Non-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, 2026 and any Regulations, and Instructions issued by the Authority (from time to time).

4. All Bids must be accompanied by a Bid Security described in Bid Security Section in Bidding Document in the form of **Pay Order, 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/113449**.

6. The e-bids, prepared in accordance with the instructions in the e-Bidding documents, must be submitted through **EPADS v2.0** on or before **Wednesday, November 25, 2026 10:30 AM**. E-bids will be opened on the same day at **Wednesday, November 25, 2026 11:00 AM**. Manual submission of Bids shall not be entertained. Those vendors 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 65 of Public Procurement Rules, 2026 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.gov.pk).

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Instructions to Bidders

A. Introduction

1. **Scope of Bids**

1.1. The Procuring Agency (PA), as indicated in the **Bids Data Sheet (BDS)** invites Bids through **EPADS v2.0** for the provision of Non-Consultancy Services as specified in the BDS and **in Section Evaluation Criteria, Specifications & Schedule of Requirements**. The name, identification, and number of items/deliverables are provided in the **BDS**. **Single Stage-Two Envelope** procedure of the open competitive method shall be used. The successful Bidders will be expected to provide the services within the specified period and timeline(s) as stated in the **BDS**.

2. **Source of Funds**

2.1. Source of funds is referred in Clause-1 of Procurement Notice.

3. **Fraud & Corruption**

3.1. As defined under Rule 2(1)(x) of Public Procurement Rules, 2026.

4. **Eligible Bidders**

4.1. A bidder shall be eligible to participate in a procurement process, if it—

4.1.1. possesses the technical competence, financial resources, equipment and other physical facilities, personnel, managerial capability, experience and past performance necessary to complete the procurement contract,

4.1.2. has the legal capacity to enter into a procurement contract;

4.1.3. has not been declared bankrupt or, in the case of company or firm, insolvent or being wound up and its activities or affairs are suspended by a Competent Authority or by the Court of law;

4.1.4. is not under any legal proceedings which may result in bankruptcy or any other situation entailing the total or partial loss of the right to administer and dispose of the property;

4.1.5. has not been convicted by a final judgment of a Court of Law,

4.1.6. is not blacklisted by the procuring agency or cross-debarred by the Authority at the time of the submission of bid;

4.1.7. is not blacklisted or debarred at the time of the submission of bid by an international financial institution, international organizations, or other multilateral development Bank for the period defined by them; and

4.1.8. is not convicted in the case of a company, its owners and beneficial owners, directors or officers of a criminal offence related to-

4.1.8.1. its professional conduct; or

4.1.8.2. a prohibited practice within the period specified in the tender documents and has not, or in the case of a company, its owners and beneficial owners, directors or officers have not, been debarred from a procurement process in Pakistan.

4.2. Except as permitted under the Ordinance, rules and regulations, the procuring agency shall not establish a criterion for eligibility of a bidder that-

4.2.1. discriminates against or among a bidder or against categories of bidders; or

4.2.2. is not required for the performance of the procurement contract; or

4.2.3. is not related to the avoidance of management of legal, reputational or economic risk to the procuring agency unless it is in the national interest to do so, and the criteria is set out in the bidding documents.

5. **Qualification of the Bidder**

5.1. All Bidders shall provide Bid Forms, a preliminary description of the proposed work method and schedule, including drawings and charts, as necessary.

B. Bidding Documents

6. **Contents of Standard Bidding Document**

6.1. The Services required, bidding procedure, and terms and conditions of the contract are prescribed in the bidding document. In addition to the Invitation for Bids, the bidding document which should be read in conjunction with any addendum issued in accordance with **ITB 6.1** include:

Section I -Invitation to Bid
Section II Instructions to Bidders (ITB)
Section III Bid Data Sheet (BDS)
Section IV Evaluation Criteria, Specifications, Schedule of Requirements, and Technical Specifications.
Section V Fraud & Corruption
Section VI General Conditions of Contract (GCC)
Section VII Special Conditions of Contract (SCC)
Section VIII Contract Forms

6.2. The Bidder is expected to examine all instructions, requirements, forms, terms and specifications in the bidding documents. Failure to furnish all the information required in the bidding document will be at the Service provider’s risk and may result in the rejection of his bids.

7. **Clarifications**

7.1. Clarifications of the bidding documents may be requested in writing through EPADS v2.0 by any bidder up to three days prior to the deadline for the submission of bids.

The procuring agency shall respond promptly and in writing to any request by a bidder for clarification of the bidding documents and, in any event, no

later than two days prior to the deadline for the submission of bids or proposals.

Responses to requests for clarification shall be communicated simultaneously and in writing to all bidders participating in the procurement proceedings.

No bidder shall be allowed to alter or modify his bid after the bids have been opened however, the procuring agency may seek and accept clarification to the bid that do not change the substance of the bid, through EPADS v2.0.

7.2. Procuring Agency's response will be uploaded on the EPADS v2.0, including a description of the inquiry.

7.3. Should the Procuring Agency deem it necessary to amend the bidding document as a result of a clarification, it shall do so following the procedure under **ITB 8 .**

7.4. If indicated **in the BDS**, the bidder’s designated representative is invited at the bidder’s cost to attend a pre-bid meeting at the place, date and time mentioned **in the BDS**. During this pre-bid meeting, prospective bidder(s) may request clarification(s) regarding the schedule of requirements, the Evaluation Criteria or any other aspects of the bidding document.

7.5. Minutes of the pre-bid meeting, if applicable, including the text of the questions asked by bidders, and the responses given, together with any responses prepared after the meeting will be uploaded on EPADS v2.0. Any modification to the bidding document that may become necessary as a result of the pre-bid meeting shall be made by the Procuring Agency exclusively through the use of an Addendum pursuant to **ITB 8** .

7.6. To assist in the examination, evaluation and comparison of Bids of the Bidders, the Procuring Agency may, ask any Bidder for a clarification of its bid including breakdown of prices, through EPADS v2.0. Any clarification submitted by a bidder that is not in response to a request by the Procuring Agency shall not be considered.
No change in the prices or substance of the bid shall be sought, offered, or

permitted.

The alteration or modification in the bid which in any way affect the following parameters will be considered as a change in the substance of a bid:

7.6.1. evaluation & qualification criteria;

7.6.2. required scope of work or specifications;

7.6.3. all securities requirements;

7.6.4. tax requirements;

7.6.5. terms and conditions of bidding documents; and

7.6.6. change in the ranking of the bidders.

From the time of bid(s) opening to the time of contract award, if any bidder wishes to contact the procuring agency on any matter related to the bid, it should do so in writing or through electronic form that provides record of the content of communication.

8. **Amendment of Bidding documents**

8.1. Before the deadline for submission of bids, the procuring agency for any reason, whether at its own initiative or in response to a clarification requested by a prospective bidder or pre-bid meeting may modify the bidding documents by issuing addendum.

8.2. Any addendum issued including the notice of any extension of the deadline shall be part of the bidding document pursuant to **ITB 8 .1** shall be uploaded on EPADS v2.0 as well as Authority's website. The procuring agency shall promptly publish the addendum at the procuring agency's website indicated in the **BDS**:

Provided that the bidder who had either already submitted his bid, shall have the right to withdraw his already submitted bid and submit the revised bid, prior to the original or extended bid submission deadline.

8.3. To give prospective bidders reasonable time in which to take an addendum/corrigendum into account in preparing their bids, the Procuring

Agency may, at its discretion, extend the deadline for the submission of bids after record reason in writing:

Provided that the Procuring Agency shall extend the deadline for submission of bids, if such an addendum is issued within last three (03) days of the bid submission deadline.

C. Preparation of Bids

9. Documents Constituting the Bids

9.1. The bids prepared by the bidders shall constitute the following components: -

9.1.1. Forms of bid and Bid Prices completed in accordance with ITB 10 and 11;

9.1.2. Documentary evidence established in accordance with ITB 8 that services to be provided by the bidder are eligible services, and conform to the bidding documents;

9.1.3. Documentary evidence established in accordance with ITB 9 that the bidder is eligible and/or qualified for the subject bidding process;

9.1.4. Documentary evidence established in accordance with ITB 9.3 that the bidder has been authorized to provide the services;

9.1.5. Bid security or Bids Securing Declaration furnished in accordance with ITB 14; and

9.1.6. Any other document required in the BDS.

10. **Documents Establishing Eligibility of the Services and Conformity to bidding documents**

10.1. To establish the conformity of the Non-Consulting Services to the Bidding document, the bidder shall furnish as part of its bid the documentary evidence that services provided conform to the requirements.

10.2. Standards for the provision of the Non-Consulting Services are intended to be descriptive only and not restrictive.

11. **Documents Establishing Eligibility and Qualification of the Bidder**

11.1. Pursuant to ITB 8, the bidder shall furnish, as part of itsbid, all those documents establishing the bidder's eligibility to participate in the bidding process and/or its qualification to perform the contract if its bid is accepted.

11.2. The documentary evidence of the bidder's eligibility to bids shall establish to the satisfaction of the procuring agency that the bidder, at the time of submission of its bid, is from an eligible country.

11.3. The documentary evidence of the bidder's qualifications to perform the contract if its bid is accepted shall establish to the satisfaction of procuring agency that:

11.3.1. the bidder has the financial, technical, provisions of services and supply/production capability necessary to perform the Contract, meets the qualification criteria specified in BDS.

11.3.2. that the bidder meets the qualification criteria listed in the Bids Data Sheet.

12. **Form of Bid**

12.1. **The bidder shall fill the Form of Bid furnished in the bidding documents. The Bid Forms must be completed without any alterations to its format and no substitute shall be accepted.**

13. **Bids Prices**

13.1. The Bids Prices quoted by the bidder in the Forms of Bid and in the price schedule shall conform to the requirements specified or exclusively mentioned hereafter in the bidding document.

13.2. All items in the Schedule of Requirements must be listed and priced separately in the Price Schedules. If a Price Schedule shows items listed but not priced and neither explicitly mentioned, their prices shall be construed

to be included in the prices of other items.

13.3. The Bid price to be quoted in the Forms of Bid in accordance with ITB 10 shall be the total price of the bid, excluding any discounts offered.

13.4. The bidder shall indicate on the appropriate Price Schedule, the unit prices (where applicable) and total bid price of the services, it proposes to provide under the contract.

13.5. Prices quoted by the bidder shall be fixed during the currency of the contract and not subject to variation on any account. A bid submitted with an adjustable price will be treated as non-responsive and shall be rejected pursuant to ITB 28, unless otherwise price adjustment is permissible under Conditions of the Contract.

14. **Price Adjustment**

14.1. Price adjustment shall not be applicable on the contract with less then 12 months period.

14.2. Procuring agency may increase the remuneration of the human resources involved in non-consultancy services upto maximum 15% on annual basis.

14.3. **Procuring agency shall incorporate the provisions to allow wage rate in compliance with Federal Government's minimum wage notification, subject to the condition that clause 11.2 shall not be applicable in that case.**

15. **Bids Currencies**

15.1. Prices shall be quoted in Pakistani Rupees unless otherwise specified in the BDS.

16. **Bid Validity Period**

16.1. Bid(s) shall remain valid for the period specified in the BDS after the bid submission deadline prescribed by the Procuring Agency. A Bid valid for a shorter period shall be rejected by the Procuring Agency as non-responsive.

17. **Bid Security or Bid Securing Declaration**

17.1. Unless otherwise specified in the BDS, the bidder shall furnish as part of its bid, in the amount and currency specified in the BDS or Bid Securing Declaration on the format provided in Form 9 The scanned copy of the Bids Security shall be uploaded in the EPADS v2.0 while submitting bid, whereas the original forms of Bid Security shall be submitted to the procuring agency before the bid submission deadline. The bidder who failed to submit the original bid security before the submission deadline shall be disqualified straightaway.

17.2. The Bid Security or Bid Securing Declaration is required to protect the Procuring Agency against the risk of Bidder’s conduct which would warrant the security’s forfeiture, pursuant to ITB 14.5

17.3. The Bid Security shall be payable promptly upon written demand by the Procuring Agency in case any of the conditions listed in 14.5 are invoked.

17.4. Unsuccessful Bidders’ Bid Security will be discharged or returned as promptly as possible after the award of contract, however in no case later than thirty (30) days after the expiration of the period of Bid Validity prescribed by the Procuring Agency pursuant to ITB 13. The Procuring Agency shall make no claim to the amount of the Bid Security, and shall promptly return the Bid Security document, whichever of the following that occurs earliest:

17.4.1. the expiry of the Bid Security;

17.4.2. the entry into force of a procurement contract and the provision of a Performance Guarantee, for the performance of the contract if such a guarantee, is required by the bidding document;

17.4.3. the rejection by the Procuring Agency of all Bids;

17.4.4. the withdrawal of the Bid prior to the deadline for the submission of bids, unless the bidding document stipulate that no such withdrawal is permitted.

17.5. The Bid Security may be forfeited or the Bid Securing Declaration executed:

17.5.1. if a bidder:

17.5.1.1. withdraws its bid during the period of bid validity as specified by the Procuring Agency, and referred by the bidder in the Forms of Bid, except as provided for in the ITBs; or

17.5.1.2. does not accept the correction of errors pursuant to ITB 23; or

17.5.2. in the case of a successful bidder fails:

17.5.2.1. **to sign the contract in accordance with ITB 32; or**

17.5.2.2. **to furnish Performance Guarantee in accordance with ITB 33.**

17.6. **The bid security shall be valid for a period specified in BDS. Bids with shorter bid security validity period shall be rejected straight away.**

18. **Alternative Bids by Bidders**

18.1. Alternatives will not be considered, unless specifically allowed for in the BDS.

18.2. When alternative times for completion are explicitly invited, a statement to that effect will be included in the BDS and the method of evaluating different time schedules will be described in Section V, Evaluation and Qualification Criteria.

19. **Withdrawal, Substitution, and Modification of Bids**

19.1. Before Bids submission deadline, any bidder may withdraw, substitute, or modify his bid after it has been submitted.

20. **Format and Signing of Bids**

20.1. The bidder shall prepare and submit his bid with due diligence after carefully reading all the terms and conditions before submission through EPADS v2.0.

D. Submission of Bids

21. **Submission of Bids through EPADS v2.0 before Dead deadline**

21.1. The Technical and Financial Bids as the case may be, shall be submitted in the due portion of the EPADS v2.0, before bid submission deadline. The bid submission option shall be automatically disabled once the deadline is over.

21.2. The Procuring Agency may, under exceptional circumstances and at its discretion, extend the deadline for the submission of bids by amending the Bidding Documents in accordance with ITB 8. In such a case, all rights and obligations of the Procuring Agency and the Bidders that were previously subject to the original deadline shall thereafter be subject to the revised deadline.

E. Opening and Evaluation of Bids

22. **Opening & Evaluation of Bids by the Procurement Cell**

22.1. As per Rule 10 of Public Procurement Rules, 2026
(PA to establish a Procurement Cell which shall carryout procurements a per Rule 10 of Public Procurement Rules, 2026)

23. **Opening & Evaluation of Bids by the Bid Evaluation Committee**

23.1. As per Rule 11 of Public Procurement Rules, 2026
(PA to constitute odd number Bid Evaluation Committee for the purpose of bid opening and evaluation of all procurements with an estimated value up to two billion rupees)

24. **Third Party Validation**

24.1. **In compliance with Rule 12** of Public Procurement Rules, 2026, the third-party validation committee or firm shall validate all procurements above five hundred million and up to two 2 billion rupees. The third-party validation shall be conducted at specifications, bidding documents preparation, technical (if any) & final evaluation stages.

25. **External Bid Evaluation Committee**

25.1. **As per Rule 13 of Public Procurement Rules, 2026,** procurements with an estimated value above two billion rupees shall be opened and evaluated by the Procuring Agency's notified External Bid Evaluation Committee.

26. **Opening of Bids**

26.1. The Procuring Agency will open all bids through EPADS, in the presence of bidders' or their representatives who choose to attend, and other parties with a legitimate interest in the bid proceedings at the place, on the date and at the time, specified in the **BDS**. The Bidders' representatives present shall sign attendance sheet as proof of their attendance.

26.2. The bids shall be opened one at a time, and the following read out and recorded: (a) the name of the bidder; (b) the presence of a bid security, if required; and (c) any other details as the procuring agency may consider appropriate.

26.3. No bid will be rejected at the time of bid opening except for bids whose bid security has not been provided to the procuring agency before submission deadline**.**

26.4. The procuring agency shall prepare minutes of the bid opening. The record of the bid opening shall include, as a minimum: the name of the bidder and the bid price, if applicable.

27. **Confidentiality**

27.1. Information relating to the examination, clarification, evaluation and comparison of bids and recommendation of contract award shall not be disclosed to bidders or any other person(s) not officially concerned with such process, until the time of the announcement of the respective evaluation report.

27.2. Any effort by a bidder to influence the procuring agency processing of bids or award decision may result in the rejection of his bid.

28. **Preliminary Examination of Bids**

28.1. Prior to the detailed evaluation of bids, the procuring agency will determine whether each bid:

28.1.1. meets the eligibility criteria defined in **ITB 3**;

28.1.2. has been prepared as per the format and contents defined by the procuring agency in the bidding document;

28.1.3. is accompanied by the required securities; and

28.1.4. is substantially responsive to the requirements of the bidding document.

28.2. The procuring agency will confirm that the documents and information specified under **ITB 7,8 and 9** have been provided in the bids. If any of these documents or information is missing, or is not provided in accordance with the Instructions to Bidders, the bid shall be rejected.

28.3. If a bid is not substantially responsive, it will be rejected by the procuring agency and may not subsequently be evaluated for complete technical responsiveness.

29. **Examination of Terms and Conditions, Technical Evaluation**

29.1. The procuring agency shall evaluate the technical aspects of the bids submitted in accordance with **ITB 21,** to confirm that all requirements specified in **Section V – Evaluation Criteria, Technical Specifications and Schedule of Requirements**,prescribed inthe bidding document have

been met without material deviation or reservation.

29.2. If after the examination of the terms and conditions and the technical evaluation, the procuring agency determines that the bid is not substantially responsive in accordance with **ITB 21,** it shall reject the bids.

30. **Correction of Errors**

30.1. Bids determined to be substantially responsive will be checked for any arithmetic errors. Errors will be corrected as follows: -

30.1.1. if there is a discrepancy between unit prices and the total price that is obtained by multiplying the unit price and quantity, the unit price shall prevail, and the total price shall be corrected, unless in the opinion of the procuring agency there is an obvious misplacement of the decimal point in the unit price, in which the total price as quoted shall govern and the unit price shall be corrected;

30.1.2. if there is an error in a total corresponding to the addition or subtraction of sub-totals, the sub-totals shall prevail and the total shall be corrected; and

30.1.3. where there is a discrepancy between the amounts in figures and in words, the amount in words will govern.

30.1.4. Where there is discrepancy between grand total of price schedule and amount mentioned on the Forms of bid, the amount referred in Price Schedule shall be treated as correct subject to elimination of other errors.

30.2. The amount stated in the bid will be adjusted by the procuring agency in accordance with the above procedure for the correction of errors and, with the concurrence of the bidder that shall be considered as binding upon the bidder. If the Bidder does not accept the corrected amount, his bid will then be rejected, and the Bid Security may be forfeited or the Bid Securing Declaration may be executed in accordance with **ITB 14.**

31. **Conversion to Single Currency**

31.1. As per Rule 42(2) of Public Procurement Rules, 2026.

32. **Evaluation of Bids**

32.1. The procuring agency shall evaluate bids in accordance with Rule 42 of Public Procurement Rules, 2026 and compare only those bids determined to be substantially responsive, pursuant to **ITB 21.**

32.2. In evaluating the Technical Bids of each Bidder, the Procuring Agency shall apply the evaluation criteria and methodologies specified in the **Bid Data Sheet (BDS)** and in accordance with the Statement of Requirements and Technical Specifications. No other evaluation criteria or methodologies shall be permitted.

32.3. **In case of tie of bids, the bidders shall be provided an opportunity to offer their best and final monetary offer through EPADS. However, in no case the rates shall be higher than the original financial bids.**

32.4. The Procuring agency/Employer's evaluation of a bid will take into account:

32.4.1. the bid price, excluding provisional sums and the provision, if any, for contingencies in the summary bill of quantities, but including day work items, where priced competitively;

32.4.2. price adjustment for correction of arithmetic errors in accordance with **ITB 30;**

32.5. converting the amount resulting from applying (a) and (b) above, if relevant, to a single currency in accordance with **ITB 31**;

32.6. The estimated effect of the price adjustment provisions of the Conditions of Contract, applied over the period of execution of the Contract, shall not be taken into account in bid evaluation.

32.7. If these bidding documents allow bidders to quote separate prices for different lots, and the award to a successful bidder of multiple lots, the methodology of evaluation to determine the lowest evaluated lot combinations in the Form of Bid, is specified in the **BDS.**

33. **Determination of Most Advantageous Bids**

33.1. Selection technique will be adopted for determining the Successful Bid in accordance with the criteria referred in the **BDS** or prescribed in the separate section titled as Evaluation Criteria.

34. **Abnormally Low Financial Bids**

34.1. Subject to sub-rule (2), a procuring agency may, in the procurement of goods, works and services, reject a bid if it has determined that the price, in combination with other constituent elements of the bid, is abnormally low in relation to the subject matter of the procurement such that it raises material concerns on the part of the procuring agency as to the ability of the bidder to perform the procurement contract satisfactorily for the offered price.

34.2. A procuring agency shall not reject a bid as abnormally low under sub-rule (1) unless the procuring agency—

34.2.1. requested through EPADS from the bidder a written clarification of bid, including a detailed price analysis of its bid price in relation to the subject matter of the procurement contract, scope, methodology, schedule, allocation of risks and responsibilities and any other requirements of the bidding documents; and

34.2.2. having taken into account the information provided by the bidder in response to a request under clause (a) and the information included in the bid, the procuring agency determines that the bidder has failed to demonstrate its ability to perform the procurement contract satisfactorily against the offered price.

34.3. The procuring agency shall promptly communicate to the bidder concerned its decision to reject the bid, including the reasons for the decision. The procuring agency may reinitiate the bidding process after communication of such decision.

34.4. Every abnormally low bid shall be investigated in order to determine the reason for submitting the bid including whether the bid was submitted in order to remove other bidders from competition.

34.5. In case it is established after investigation that the bidder submitted an abnormally low bid to remove other bidders from competition or to frustrate the bidding process, the procuring agency may blacklist the bidder in accordance with Rule 25(1)(d).

35. **Rejection of Bids**

35.1. As per Rule 45 of Public Procurement Rules, 2026

36. **Cancellation of procurement**

36.1. As per Rule 46 of Public Procurement Rules, 2026

37. **Single Responsive Bid**

37.1. The procuring agency may consider single responsive subject to underlying conditions of Rule 50 of Public Procurement Rules, 2026.

38. **Alternate Dispute Resolution (ADR)**

38.1. As per Rule 66 of Public Procurement Rules, 2026

39. **Arbitration Clause**

39.1. (Appointing Authority for the Arbitrator shall be Chief justice of Honorable Islamabad High Court OR Managing Director (PPRA) OR Secretary (Ministry of Law & Justice),

40. **Fee of the Arbitrator**

40.1. The fee shall be specified in PKR as detrmined by the Appointing Authority and shall be shared equally by each party.

41. **Socio-economic development**

41.1. As per Rule 63 of Public Procurement Rules, 2026, PA to encourage the inclusiveness of small and medium enterprises, and marginalized groups by according preferences in line with the notified policies of the Federal Government

42. **Environmental objectives**

42.1. As per Rule 64 of Public Procurement Rules, 2026, 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.

F. Award of Contract

43. **Appointment of Contract Manager**

43.1. The procuring agency shall designate a Contract Manager for each procurement or class of procurement who shall manage the contract as per Rule 58 & 59 of Public Procurement Rules, 2026.

44. **Criteria of Award**

44.1. The procuring agency will award the Contract to the bidder whose bid has been determined to be substantially responsive to the bidding document and who has been declared as Successful Bid .

45. **Procuring Agency’s Right to reject All Bids**

45.1. The procuring agency reserves the right to reject all the Bids and to annul the procurement process at any time prior to acceptance of the bid(s), without thereby incurring any liability to the affected bidder(s).

45.2. Notice of the rejection of all bids shall be given promptly to all bidders that have submitted the bids. The procuring agency shall upon request communicate to any bidder the grounds for the rejection of his bid, but is not required to justify those grounds.

46. **Procuring Agency’s Right to Vary Quantities at the Time of Award**

46.1. The procuring agency reserves the right, at the time of contract award, to increase or decrease not more than 15% of the original scope of related services originally specified in the Schedule of Requirements, provided that such variation does not exceed the percentage indicated in

the **Bid Data Sheet (BDS)**. This adjustment shall be made without any change in the unit price or other terms and conditions of the Bids and Bidding Documents.

47. **Notification of Award**

47.1. Prior to the award of contract, the procuring agency shall issue a Final Evaluation Report giving justification for acceptance or rejection of the bids.

47.2. Bidder whose bid has been accepted, will be notified for the award by the Procuring Agency prior to expiration of the Bid Validity period through EPADS. The Letter of Award will state the sum that the procuring agency will pay the successful bidder in consideration for the execution of the scope of works as prescribed by the Contract (hereinafter and in the Contract called the "Contract Price).

47.3. The notification of award will constitute the formation of the Contract, subject to the condition that bidder furnish the Performance Guarantee in accordance with **ITB 33** and signing of the contract in accordance with **ITB 32.**

48. **Signing of Contract**

48.1. Promptly after notification of award, Procuring Agency shall send the successful bidder the draft agreement, incorporating all terms and conditions as agreed by the parties to the contract. The successful bidder and the procuring agency shall sign the contract.

49. **Performance Guarantee**

49.1. After the receipt of the Letter of Award, the successful bidder, within the specified time, shall deliver to the Procuring Agency a Performance Guarantee in the amount and in the form stipulated in the **BDS and SCC**, denominated in the type and proportions of currencies in the Letter of Acceptance and in accordance with the Conditions of Contract.

49.2. Failure of the successful bidder to comply with the requirement of **ITB 33.1** shall constitute sufficient grounds for the annulment of the award and forfeiture of the bid security, in which event the procuring agency may

make the award to the next ranked bidder or call for new bids.

50. **Advance Payment**

50.1. The Procuring Agency will provide an Advance Payment as stipulated in the Conditions of Contract, subject to a maximum amount, as stated in the **BDS**. The Advance Payment request shall be accompanied by an Advance Payment Guarantee in the form provided in Contract Forms.

51. **Arbitration**

51.1. The Arbitrator shall be appointed by mutual consent of the both parties as per the provisions specified in the **SCC**.

52. **Corrupt & Fraudulent Practices**

52.1. Procuring Agencies (including beneficiaries of Government funded projects and procurement) as well as Bidders/Contractors under Government financed contracts, observe the highest standard of ethics during the procurement and execution of such contracts, and will avoid to engage in any corrupt and fraudulent practices.

G. Grievance Redressal & Complaint Review Mechanism

53. **Constitution of Grievance Redressal**

53.1. The Principal Accounting Officer or head of procuring agency or any authorized officer shall constitute a committee comprising of odd number of members completely outside the procuring agency from any other procuring agency or from the pool of experts maintained by the Authority and accessible through EPADS with necessary powers and authorizations, to address the complaints of bidders or parties that may occur prior to the entry into force of the procurement contract.

53.2. Any party may file a written complaint, two days prior to the proposal submission deadline, against the eligibility parameters, evaluation criteria or

any other terms and conditions described in the bidding documents, if found contrary to the provisions of the procurement regulatory framework, and the same shall be addressed by the GRC.

53.3. Any bidder or party feeling aggrieved by any act of the procuring agency after the submission of bid, may lodge a written complaint concerning his grievances within seven days of announcement of the technical evaluation report and five days after issuance of final evaluation report.

53.4. In case, the complaint is filed against the technical or final evaluation report, the GRC may suspend the procurement proceedings till the decision.

53.5. In case, the complaint is filed after the issuance of the final evaluation report, the complainant may not raise any objection on technical evaluation of the report:Provided that the complainant may raise the objection on any part of the final evaluation report in case where single stage-single envelope bidding procedure is adopted.

53.6. The GRC shall investigate and decide upon the complaint within ten days of its receipt.

53.7. Any bidder or party not satisfied with the decision of the GRC or if GRC fails to decide within ten days under sub-rule 6, may file an appeal before the Appellate Committee of the Authority, comprising odd number of members including an external member within ten days of communication of decision subject to depositing the prescribed fee and in accordance with the procedure determined by the Authority. The Appellate Committee of the Authority shall decide the appeal within 45 days from the receipt of the appeal. The Appellate Committee may suspend the process of award of contract to such period as deemed appropriate during the pendency of appeal. The decision of the Appellate Committee of the Authority shall be considered as final.

H. Blacklisting/ Debarment

55. **Procedure for Blacklisting/Debarment**

55.1. The procuring agency may initiate blacklisting proceedings against contractor/supplier in accordance with Rule-25 of the Public Procurement Rules, 2026 , Mechanism for Blacklisting, Debarment Regulations, 2026 and “procedure for filling and disposal of review petition under rule-25(6) of Public Procurement Rules, 2026.

PUBLIC PROCUREMENT REGULATORY AUTHORITY (PPRA) EPADS

Bid Data Sheet

Bids Data Sheet (BDS)

The following specific data for the procurement of Goods 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. Introduction

BDS Clause Number 1
ITB Number 1.1

Name of Procuring Agency: **Pakistan Meteorological Department (Pakistan Meteorological Department)**

The subject of procurement is: **Establishment of PMD National Operations Centre**

Expected commencement date: **Wednesday, December 30, 2026**

BDS Clause Number 2
ITB Number 2.1

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

Name and identification number of the Contract: **P113449**

BDS Clause Number 3
ITB Number 4.6

JV/Consortium or Association Allowed: **Yes**
Number of JV/Consortium Members: **5**

B. Bidding Documents

BDS Clause Number 4
ITB Number 7.1

The Bidders may seek clarifications through **EPADS v2.0**: Clarification Date: Sunday, November 22, 2026

BDS Clause Number 5
ITB Number 8.1

Any addendum, in case issued, shall be published on **Pakistan Meteorological Department (Pakistan Meteorological Department)** website and on **EPADS v2.0**.

BDS Clause Number 6
ITB Number9.1

List of documents required along with the bid: **No**

BDS Clause Number 7
ITB Number 11.1

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

see Eligibility Criteria

BDS Clause Number 8
ITB Number 7.6

Services and Their related documents:
See section Required Services and Scope of Work

BDS Clause Number 9
ITB Number 13.1 & 13.2

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

BDS Clause Number 10
ITB Number 7.6.2

Specifications:

see section of specifications.

C. Preparation of Bids

BDS Clause Number 11
ITB Number 13.5

The price shall be **Fixed**.

BDS Clause Number 12
ITB Number 15.1

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

BDS Clause Number 13
ITB Number 16.1

The Bids/Bid Validity period shall be: **120 Days**

BDS Clause Number 14
ITB Number 17.1

The amount of Bid Security shall be as defined in Bid Security Section for items and lots given in **BDS 6**
Instrument of Bid Security Shall be in the Name of : **Director General Pakistan Meteorological Department**
The Bid Security shall be in the form of: **Pay Order, Call at Deposit, Bank Guarantee, Demand Draft**

BDS Clause Number 15
ITB Number 17.3

The Bids security shall be valid for twenty-eight (28) days beyond the expiry of the Bids validity period specified in the bidding documents, for example the bid validity is 180 days so the bid security shall be valid for 180+28 = 208 days.

BDS Clause Number 16
ITB Number 18.1

Alternative Bids to the requirements of the bidding documents will not be permitted.

D. Submission of Bids

BDS Clause Number 17
ITB Number 21.1

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

PMD HQS Office, Sector H-8/2., Islamabad Capital Territory

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

The deadline for Bids submission is: **Wednesday, November 25, 2026 10:30 AM**

E. Opening and Evaluation of Bids

BDS Clause Number 18
ITB Number 26.1

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

Day *:* ***Wednesday***

Date: ***Wednesday, November 25, 2026***

Time *:* ***11:00 AM***

BDS Clause Number 19
ITB Number 32.1

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

F. Award of Contract

BDS Clause Number 20
ITB Number 49.1

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

The Performance Guarantee shall be acceptable in the form of: **Pay Order, Call at Deposit, Bank Guarantee, Demand Draft**

BDS Clause Number 21
ITB Number 51.1

Arbitrator shall be appointed by mutual consent of the both parties.

G. Review of Procurement Decisions

BDS Clause Number 22
ITB Number 53.1

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

Eligibility Criteria

Eligible Bidders: Individual / Individual Consultant, Sole Proprietorship, Partnership Firm, Company (Private Limited), Company (Public Limited), Company (Holding Company), Company (Limited by Guarantee), State Owned Enterprise (Private Limited), State Owned Enterprise (Public Limited)

Required Registration
NADRA CITIZENSHIP (CNIC/NICOP)
FBR (NTN)
FBR (GSTN)

Evaluation Criteria

Quality and Cost Based Selection (QCBS)

Weightage

Technical Evaluation %	Financial Evaluation %
70	30

Technical Marks	100
Passing Marks	**70**
Technical Evaluation Criteria	
Similar projects Completed projects, Control room, operation centers, Visualization walls and dashboards of similar nature. Documented proof is required. (Qualitative)(Doc Required) >3 projects **(15)** =2 **(10)** =1 **(5)**	15
Video Walls solution, Controller and Management software (Qualitative)(Doc Required) Full compliance **(15)** Partial compliance **(5)**	15
Video Conferencing (Quantitative)(Doc Required) Compliance **(5)**	5

Supervisor and user workstations (Quantitative)(Doc Required) Compliance **(5)**	5
Power, UPS, battery bank and ATS (Quantitative)(Doc Required) Compliance **(5)**	5
HVAC (Quantitative)(Doc Required) Compliance **(5)**	5
Fire detection and suppression (Quantitative)(Doc Required) Compliance **(5)**	5
Automation, access control and CCTV (Quantitative)(Doc Required) Compliance **(5)**	5
Dashboards and development team (Quantitative)(Doc Required) Compliance **(10)**	10
Interior fit-out (Qualitative)(Doc Required) Compliance **(10)** Partial Compliance **(5)**	10
Project Implementation team Team explicitly mentioning the role of each resource, CVs of all the team members. (Quantitative)(Doc Required) Compliance **(5)**	5
Deliverables, FAT, SAT, UAT and timelines. (Quantitative)(Doc Required) Compliance **(5)**	5
Customers feedback (Qualitative)(Doc Required) Positive **(10)** Neutral **(5)**	10

Required Services

Lot Title : Establishment of PMD National Operations Centre

Bid Security : 3000000 PKR

Position	Delivery Schedule	Quantity
Establishment of PMD National Operations Centre	**Address:** PMD HQS Office, Sector H-8/2., Islamabad Capital Territory **Schedule:** 30 Days **Quantity:** 1/Qty	1/Qty
Objective and Procurement Strategy	**Address:** PMD HQS Office, Sector H-8/2., Islamabad Capital Territory **Schedule:** 30 Days **Quantity:** 1/Qty	1/Qty
Scope of Prequalification	**Address:** PMD HQS Office, Sector H-8/2., Islamabad Capital Territory **Schedule:** 30 Days **Quantity:** 1/Qty	1/Qty

Related Services :

No

Services Specifications

Lot Title : Establishment of PMD National Operations Centre

Position: Establishment of PMD National Operations Centre

Specifications / Requirements:

Pakistan Meteorological Department (PMD) intends to establish a PMD National Operation Center (PMDNOC) at its main office in Islamabad to provide a centralized, resilient and highly visual operational environment for monitoring meteorological, hydrological, geophysical data and information, supporting early warning, situational awareness, decision support, incident management and coordination. The Centre is intended to bring together data from distributed instruments and systems and present it through a common operating picture. It includes centralized control room, secure data repository, real-time monitoring, incident/ticket management, large-format displays, customized dashboards, analytics, training, support, redundancy, interoperability and integration of weather stations, radars, lightning, seismic, gauging, satellite/NWP, floods, GLOF, cyclones and other information sources as core elements to be visualized on three sided visual walls. The prequalification document consolidates those recurring requirements while making the specification vendor-neutral and suitable for competitive evaluation.

Position: Objective and Procurement Strategy

Specifications / Requirements:

Objective: The objective of the pre-qualification is to identify and shortlist firms, consortiums or joint ventures that have the capability to design, supply, integrate, install, configure, develop, test, commission, train and support a complete PMDNOC solution, including physical infrastructure, LED/video-wall system, controllers/Software for ICT/AV, data integration, repository, dashboards, analytics, incident management and associated support services. Procurement Strategy: The pre-qualification stage shall focus on technical capability, relevant experience, proposed architecture, integration approach, implementation capability and resource strength. No manufacturer, brand, software platform or technology stack is mandatory unless explicitly stated as a minimum interoperability requirement. Proposed solutions shall be modular, open, scalable, secure, maintainable and capable of integrating with existing PMD systems and future systems. Vendors shall clearly distinguish third-party dependencies and recurring licenses if any. Vendor shall specify the components which are currently available in the existing infrastructure to avoid any duplication or waste of resources. Vendors are required to perform mandatory survey of the

existing facilities and infrastructure before submitting the final solution. Relevant committee shall facilitate the process.

Position: Scope of Prequalification

Specifications / Requirements:

Scope of Pre-Qualification: The prequalification submission shall demonstrate capability across all of the following areas: Operational concept, requirements engineering and detailed solution design. Operation center interior fit-out including operator consoles and meeting/briefing furniture. Three-sided indoor fine-pitch LED visualization system. It must include cabinets/modules, frames, controllers, processors, cabling, power distribution, management software and spares. Detailed theme based design and enhancement of corridors/lobbies of three floors of the office. Visualization/control workstations and operator PCs with professional graphics capability. Video conferencing and collaboration facilities. Must include AI cameras, microphones, speakers, DSP/echo cancellation, displays and content sharing. Monitoring of UPS, PDU, STS/ATS where required, environmental monitoring, fire detection/suppression and access control. Central cooling/HVAC for the Operations Centre and associated technical areas, including redundancy and equipment heat-load calculations. Need of any data ingestion and integration from meteorological, hydrological, geophysical, satellite, radar, sensor, model, GIS and other authorized sources. Data transformation, normalization, validation, quality control, metadata, time synchronization, unit conversion, spatial referencing, de-duplication and archival where required. Interactive dashboards, common operating picture, alerts, analytics, incident management, ticketing and reporting. API, ETL/ELT and interoperability services if required any. Access and propose the operational/ELT team along with responsibilities for the sustainability of the solution. High availability, backup, disaster recovery, access control and monitoring. Implementation, integration testing, commissioning, training, documentation, warranty and after-sales support.

Scope of Work

Scope of Work and deliverables

Brief Description

PMD expects a turnkey solution with following deliverables

- Indoor fine-pitch video walls. It must include cabinets/modules, frames, controllers, processors, cabling, power distribution, management software and spares.
- Visualization/control workstations and operator PCs with professional graphics capability. Role based access control.
- Customized dashboards for the defined use cases.
- Operation center interior fit-out including operator consoles and meeting/briefing furniture.
- Detailed design and enhancement of corridors/lobbies of three floors of the office as described in requirements.
- Video conferencing and collaboration facilities. Must include AI cameras, microphones, speakers, DSP/echo cancellation, displays and content sharing.
- Power Generator, ATS, UPS with battery backups.

PUBLIC PROCUREMENT REGULATORY AUTHORITY (PPRA) EPADS

- Cooling solution for the Operations Centre and associated technical areas
- Monitoring of UPS, PDU, STS/ATS where required, environmental monitoring
- Fire safety solution including fire detection/suppression and access control for Operation center.
- CCTV Surveillance.
- Incident management, ticketing and reporting.
- Implementation, integration testing, FAT/SAT, commissioning, trainings, documentation, warranty and after-sales support.
- Comprehensive trainings to the PMDs officials on each of the component/module of the projects. Training scope and contents will be approved by the PMD.
- A short high quality customized panoramic video documentary about PMDNOC functions.
- Two Support (resident) engineers for the period of one year after the final handover.
- Vendors are required to submit the clear time lines along with deliverables.

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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

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(PPRA)
EPADS

General Conditions of Contract

A. General

1. **Definitions**

1.1. Unless the context otherwise requires, the following terms whenever used in this Contract shall have the same meaning and shall be interpreted as indicated

1.1.1. “Applicable Law” means the laws and any other instruments having the force of law in the Government’s Country, or in such other country as may be specified in the Special Conditions of the Contract (SC), as they may be issued and in force from time to time;

1.1.2. “The Contract” means an agreement enforceable by law;

1.1.3. “The Contract Price” means the price payable to the Contractor under the Contract for the full and proper performance of its contractual obligations;

1.1.4. “The Services” means the work to be performed by the Contractor pursuant to this Contract and as prescribed in the Specifications and Schedule of Activities included in the Contractor’s Bid;

1.1.5. “Ancillary Services” means those services ancillary to the provision of Services, such as transportation and insurance, and any other incidental services, such as installation, commissioning, provision of technical assistance, training, and other such obligations of the Contractor covered under the Contract;

1.1.6. “GCC” means the General Conditions of Contract contained in this section;

1.1.7. “SCC” means the Special Conditions of Contract by which the GCC may be amended or supplemented;

1.1.8. **“**Day” means calendar day unless indicated otherwise;

1.1.9. “Effective Date” means the date on which this Contract comes into force and effect;

1.1.10. “The Contractor” means the individual or corporate body whose Bids to provide the Services has been accepted by the Procuring Agency;

1.1.11. “The Project Site,” where applicable, means the place or places named in Bid Data Sheet and technical Specifications;

1.1.12. “Government” means the Government of Pakistan;

1.1.13. “Local Currency” means the currency of Pakistan;

1.1.14. “In Writing” means communicated in written form with proof of receipt;

1.1.15. “Completion Date” means the date of completion of the Services by the Contractor as certified by the Procuring Agency;

1.1.16. “Foreign Currency” means any currency other than the currency of the country of the Procuring Agency;

1.1.17. “Party” means the Procuring Agency or the Contractor, as the case may be, and “Parties” means both of them;

1.1.18. "Service" means any object of procurement other than goods or works;

1.1.19. “Subcontractor” means any entity to which the Bidder subcontracts any part of the Services.

2. **Applicable Law**

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

3. **Language**

3.1. The Contract as well as all correspondence and documents relating to the Contract exchanged between the Contractorand 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.

4. **Notices**

4.1. Any notice, request, or consent made pursuant to this Contract shall be in writing and shall be deemed to have been made when delivered in person to an authorized representative of the Party to whom the communication is addressed, or when sent by registered mail, telex, telegram, or facsimile to such Party at the address specified in the **SCC**.

5. **Location**

5.1. The Services shall be performed at such locations as the Procuring Agency may approve and as specified in **SCC.**

6. **Authorized Representatives / Authority of Member in charge**

6.1. 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 Contractor may be taken or executed by the officials specified in the **SCC**.

B. Commencement, Completion, Modification, and Termination of Contract

7. **Effectiveness of Contract**

7.1. This Contract shall come into effect on the date the Contract is signed by both parties and such other later date as may be stated in the **SCC.**

8. **Commencement of Services**

8.1. The Contractor shall confirm availability of required resources and begin carrying out the Services not later than the number of days after the Effective Date specified in the **SCC.**

9. **Program schedule**

9.1. Before commencement of the Services, the Contractor shall submit to the Procuring Agency for approval a Program showing the general methods, arrangements, order and timing for all activities. The Services shall be carried out in accordance with the approved Program as updated.

10. **Starting Date/Expiration Date**

10.1. The Contractor shall start carrying out the Services Five (05) days after the date the Contract becomes effective, or at such other date as may be specified in the **SCC.**

10.2. Unless terminated earlier pursuant to Clause **GCC 14** hereof, this Contract shall expire at the end of such time period after the Effective Date as specified in the **SCC.**

11. **Entire Agreement**

11.1. 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.

12. **Modification**

12.1. 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 modification(s) or variation(s) made by the other Party.

12.2. In cases of any modification(s) or variation(s), the prior written consent of the Procuring Agency is required.

13. **Force Majeure**

13.1. **Definition**

For the purposes of this Contract, “Force Majeure” means an event which is beyond the reasonable control of a Contractor and which makes a Contractor’s performance of its obligations under the Contract impossible or so impractical as to be considered impossible under the circumstances.

13.2. **No Breach of Contract**

The failure of a Party to fulfill any of its obligations under the contract shall not be considered to be a breach of, or default under, this Contract in so far as such inability arises from an event of Force Majeure, provided that the Party affected by such an event (a) has taken all reasonable precautions, due care and reasonable alternative measures in order to carry out the terms and conditions of this Contract, and (b) has informed the other Party as soon as possible about the occurrence of such an event.

13.3. **Extension of Time**

Any period within which a Contractor 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.

13.4. **Payments**

During the period of their inability to perform the Services as a result of an event of Force Majeure, the Contractor shall be entitled to continue to be paid under the terms of this Contract, as well as to be reimbursed for additional costs reasonably and necessarily incurred by them during such period for the purposes of the Services and in reactivating the Service after the end of such period.

14. **Termination**

14.1. **By the Procuring Agency**

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

14.1.1. If the Contractor fails to remedy a failure in the performance of its obligations hereunder, as specified in a notice of suspension;

14.1.2. If the Contractor becomes (or, if the Contractor 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;

14.1.3. If the Contractor fails to comply with any final decision reached as a result of arbitration proceedings;

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

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

14.2. **By the Contractor**

The Contractor may terminate this Contract, by not less than thirty (30) calendar 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.

14.2.1. If the Procuring Agency fails to pay any money due to the Contractor pursuant to this Contract and not subject to dispute within thirty (30) calendar days after receiving written notice from the Contractor that such payment is overdue;

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

14.2.3. If the Procuring Agency fails to comply with any final decision reached as a result of arbitration;

14.2.4. If the Procuring Agency is in material breach of its obligations pursuant to this Contract and has not remedied the same within thirty (30) days (or such longer period as the Bidder may have subsequently approved in writing) following the receipt by the Procuring Agency of the Contractor's notice specifying such breach.

C. Obligations of the Contractor

15. **General**

15.1. **Standard of Performance**

15.1.1. The Contractor 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 Contractor 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;

15.1.2. The Contractor shall employ and provide such qualified and experienced Experts and Sub-Contractors as are required to carry out the Services.

15.2. **Law Applicable to Services**

The Contractor 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-Bidders, comply with the Applicable Law.

16. **Conflict of Interests**

16.1. **Contractor Not to Benefit from Commissions and Discounts**

The remuneration of the Contractor shall constitute the Contractor's sole remuneration in connection with this Contract or the Services, and the Contractor shall not accept for their own benefit any trade commission, discount, or similar payment in connection with activities pursuant to this Contract or to the Services or in the discharge of their obligations under the Contract, and the Contractor shall use their best efforts to ensure that the Personnel, any Subcontractors, and agents of either of them similarly shall not receive any such additional remuneration.

16.2. **Contractor and Affiliates Not to be Otherwise Interested in Project**

The Contractor agree that, during the term of this Contract and after its termination, the Contractor and its affiliates, as well as any Subcontractor and any of its affiliates, shall be disqualified from providing Services (other than the Services and any continuation thereof) for any project resulting from or closely related to the Services.

16.3. **Prohibition of Conflicting Activities**

Neither the Bidder nor its Subcontractors nor the Personnel shall engage, either directly or indirectly, in any of the following activities:

16.3.1. during the term of this Contract, any business or professional activities in the Government's country which would conflict with the activities assigned to them under this Contract;

16.3.2. during the term of this Contract, neither the Contractor nor their Subcontractors shall hire public employees in active duty or on any type of leave, to perform any activity under this Contract;

16.3.3. after the termination of this Contract, such other activities as may be specified in the **SCC.**

17. **Insurance to be Taken Out by the Contractor**

17.1. The Contractor(a) shall take out and maintain, and shall cause any Subcontractors to take out and maintain, at its (or the Sub-contractors', 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, as shall be specified in the **SCC**; and (b) 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 have been paid.

18. **Contractor's Actions Requiring Procuring Agency's Prior Approval**

18.1. The Contractor shall obtain the Procuring Agency's prior approval in writing before taking any of the following actions:

18.1.1. appointing such members of the Personnel not provided by the Contractor;

18.1.2. changing the Program of activities; and

18.1.3. any other action that may be specified in the **SCC.**

19. **Reporting Obligations**

19.1. The Contractor shall submit to the Procuring Agency the reports and documents in the numbers, and within the periods as prescribed by the Procuring Agency.

20. **Liquidated Damages**

20.1. **Payments of Liquidated Damages**
The Contractor shall pay liquidated damages to the Procuring Agency at the rate per day stated in the **SCC** for each day that the Completion Date is later than the Intended Completion Date. The total amount of liquidated damages shall not exceed the amount defined in the **SCC**. The Procuring Agency may deduct liquidated damages from payments due to the Contractor. Payment of liquidated damages shall not affect the Contractor's liabilities.

20.2. **Correction for Over-payment**
If the Intended Completion Date is extended after liquidated damages have been paid, the Procuring Agency shall correct any overpayment of liquidated damages by the Contractor by adjusting the next payment certificate. The Contractor shall be paid interest on the overpayment, calculated from the date of payment to the date of repayment, at the rates specified in **SCC.**

20.3. **Lack of performance penalty**

If the Contractor has not corrected a Defect within the time specified in the Procuring Agency's notice, a penalty for Lack of performance will be paid by the Contractor. The amount to be paid will be calculated as a percentage of the cost of having the Defect corrected, assessed as specified in the Contractor

21. **Performance Guarantee**

21.1. Within the time stipulated in the acceptance letter from the Procuring Agency, the successful Bidder shall furnish the Performance Guarantee in shape and amount **specified in SCC.**

21.2. The proceeds of the Performance Guarantee shall be payable to the Procuring agency as compensation for any loss resulting from the Service Provider failure to complete its obligations under the Contract.

21.3. The Performance Guarantee shall be denominated in the currency of the Contract, or in a freely convertible currency acceptable to the Procuring agency and shall be in the acceptable form as specified in **SCC**.

21.4. The Performance Guarantee will be discharged by the Procuring agency and returned to the Service Provider not later than thirty (30) days following the date of completion of the Supplier's performance obligations under the Contract, including any warranty obligations, unless otherwise **specified in SCC.**

22. **Sustainable Procurement**

22.1. The Contractor shall conform to the sustainable procurement contractual provisions, if and as specified in the **SCC.**

D. Contractor's Personnel

23. **Description of Personnel**

23.1. The titles, agreed job descriptions, minimum qualifications, and estimated periods of engagement in the carrying out of the Services of the Contractor's Key Personnel. The Key Personnel listed by title as well as by name are hereby approved by the Procuring Agency.

24. **Removal and / or Replacement of Personnel**

24.1. Except as the Procuring Agency may otherwise agree, no changes shall be made in the Key Personnel. If, for any reason beyond the reasonable control of the Contractor, it becomes necessary to replace any of the Key Personnel, the Contractor shall provide as a replacement a person of equivalent or better qualifications.

24.2. If the Procuring Agency finds that any of the Personnel have (i) committed serious misconduct or have been charged with having committed a criminal action, or (ii) have reasonable cause to be dissatisfied with the performance of any of the Personnel, then the Contractor shall, at the Procuring Agency's written request specifying the grounds thereof, provide as a replacement a person with qualifications and experience acceptable to the Procuring Agency.

24.3. The Contractor shall have no claim for additional costs arising out of or incidental to any removal and/or replacement of Personnel.

E. Obligations of the Procuring Agency

25. **Change in the Applicable Law**

25.1. If, after the date of this Contract, there is any change in the Applicable Law with respect to taxes and duties which increases or decreases the cost of the Services rendered by the Contractor, then the remuneration and reimbursable expenses otherwise payable to the Contractor under this Contract shall be increased or decreased accordingly by agreement between the Parties, and corresponding adjustments shall be made to the amounts referred in the **SCC.**

26. **Services and Facilities**

26.1. The Procuring Agency shall make available to the Contractor 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, at the times and in the manner specified in the Terms of Reference.

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

F. Payments to the Contractor

27. **Contract Price**

27.1. The price payable shall be in Pakistani Rupees unless otherwise specified in the **SCC**.

28. **Terms and Conditions of Payment**

28.1. Payments will be made to the Contractor according to the payment schedule stated in the **SCC** and as per actual invoice submitted by the Contractor.

28.2. Unless otherwise stated in the **SCC**, the advance payment shall be made against the provision by the Contractor of a bank guarantee for the same amount, and shall be valid for the period stated in the **SCC.** Any other payment shall be made after the conditions listed in the **SCC** for such payment have been met, and the Contractor have submitted an invoice to the Procuring Agency specifying the amount due.

29. **Quality Control Identifying Defects**

29.1. The principle and modalities of Inspection of the Services by the Procuring Agency shall be as indicated in the **SCC.** The Procuring Agency shall check the Contractor's performance and notify him of any Defects that are found. Such checking shall not affect the Contractor's responsibilities. The Procuring Agency may instruct the Contractor to search for a Defect and to uncover and test any service that the Procuring Agency considers may have a Defect. Defect Liability Period is as defined in the **SCC**.

30. **Correction of Defects, and Lack of Performance Penalty**

30.1. The Procuring Agency shall give notice to the contractor of any Defects before the end of the Contract. The Defects liability period shall be extended for as long as Defects remain to be corrected.

30.2. Every time notice a Defect is given; the contractor shall correct the notified Defect within the length of time specified by the Procuring Agency's notice.

30.3. If the contractor has not corrected a Defect within the time specified in the Procuring Agency's notice, the Procuring Agency will assess the cost of having the Defect corrected, the contractor will pay this amount, and a Penalty for Lack of Performance.

31. **Settlement of Disputes Amicable Settlement**

31.1. The Parties shall use their best efforts to settle amicably all disputes arising out of or in connection with this Contract or its interpretation.

32. **Dispute Settlement**

32.1. **Arbitration**

32.1.1. **Alternate Dispute Resolution (ADR),** After coming into force of the procurement contracts, disputes, between the parties to the contract may be settled by one or more alternate dispute resolution methods including
Arbitration. Where an Alternate Dispute Resolution process other than Arbitration may not lead to an amicable settlement of dispute, Arbitration shall be resorted to.

32.1.2. The procuring agency shall specify mechanism for the appointment of an arbitrator expressly in the contract and the competent authority who shall appoint the arbitrator.

32.1.3. The laws of Pakistan shall apply to an arbitration unless specifically agreed to otherwise in the contract.

Special Conditions of Contract

SECTION VIII. 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

Definitions

The Procuring Agency is: Pakistan Meteorological Department (Pakistan Meteorological Department), Director PMD HQS Office, Sector H-8/2., Islamabad Capital Territory

Contractor is:

The title of the subject procurement is:Establishment of PMD National Operations Centre

Number of GC Clause 2

Applicable/Governing Law:

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

Number of GC Clause 3

Language:

The language of the Contract, all correspondence and communications to be given, and all other documentation to be prepared and supplied under the Contract shall be in **English.**

Number of GC Clause 4

Notices:

The addresses for the notices are:

Procuring Agency:

Pakistan Meteorological Department (Pakistan Meteorological Department), Director
PMD HQS Office, Sector H-8/2., Islamabad Capital Territory
+92-345-546-8129
metip2017@gmail.com

Contractor/ Bidder:

[Name, address and telephone number].

The Contractor/ Bidder’s Representative(s)

[Name, address, telephone number and e-mail address]

Number of GC Clause 6.1

The Authorized Representatives are:

For the Procuring Agency:

Pakistan Meteorological Department (Pakistan Meteorological Department), Director
PMD HQS Office, Sector H-8/2., Islamabad Capital Territory
+92-345-546-8129
metip2017@gmail.com

For the Bidder:

Name: ……

Designation: ……..

Address: ……..

Number of GC Clause 7

Effectiveness of the contract

The Contractor/Bidder shall be effective within ….. days from the date of signature of the Contract by both parties

Number of GC Clause 8

Commencement of Contract:

The Contractor/ Bidder shall provide Non-Consultancy Services from the effective date of contract.

Number of GC Clause 10.2

Expiration of Contract:

The time period shall be …….

Number of GC Clause 14

Termination

In the event of termination of the contract due to any reason as already defined in the General Conditions of Contract, the Bidder shall be responsible for providing to the Authority the Goods till the time of alternate arrangements.

Number of GC Clause 16

Conflict of Interest:

The Procuring Agency reserves the right to determine on a case-by-case basis whether the Bidder should be disqualified from providing goods or services due to a conflict of a nature described in Clause GCC 16**.**

Number of GC Clause 20

Liquidated Damages

If the Bidder fails to provide services as required under the contract or in case of any data loss/data breach or any incident compromising the data security or other such failures related to any services, the Bidder shall pay to the Procuring Agency as Liquidated Damages at a rate of **0.00%** to **0.00%** of the Contract value, in accordance with the extent of performance failure & the cost of investigating such incidents as judged by the Authority.

Number of GC Clause 21

Performance Guarantee:
Instrument of Performance Guarantee shall be in the Name of : **Director General Pakistan Meteorological Department**

The amount of performance guarantee shall be 10.00% of the contract price in acceptable form of Pay Order, Call at Deposit, Bank Guarantee, Demand Draft

Number of GC Clause 27

Currency of Payment:

All the payment to be released to the contractor/Bidder shall be in Pakistani Rupees.

Number of GC Clause 28

Payment terms:

Payment will be made to the Bidder against the procured Goods and services according to the actual invoice or running bills submitted by the Bidder against the services provided within the time given in the conditions of the contract.

Number of GC Clause 29

Identifying Defects:

The Authority reserves the right at any time to inspect the premises of the provider to inspect the goods and monitor the goods being provided.

Inspections & Tests Requirements

For being Brand New, bearing relevant reference numbers of the equipment (Certificate from supplier)

For Physical Fitness having No Damages (Certificate from supplier)

For the Country of Origin as quoted by the Supplier (Certificate from manufacturer)

For conformance to specifications and performance parameters, through Prior to delivery inspection (Inspection Report by Procurement Committee / Inspection Team)

For successful operation at site after complete installation, testing and commissioning of the equipment (Installation, Testing and Commissioning Report by Procurement Committee / Inspection Team)

Delivery & Documents

Copies of the Supplier's invoice showing Goods' description, quantity, unit price, and total amount;

Original and two copies of the usual transport document (for example, a negotiable bill of lading, a non-negotiable sea waybill, an inland waterway document, an air waybill, a railway consignment note, a road consignment note, or a multimodal transport document) which the buyer may require to take the goods;

Copies of the packing list identifying contents of each package;

Insurance Certificate;

Manufacturer's or Supplier's Valid Warranty Certificate;

Inspection Certificate issued by the Nominated Inspection Agency (if any), and the Supplier's Factory Inspection Report;

Certificate of Origin.

The above documents would be required even if the equipment has already been imported and is available with the supplier ex-stock

Number of GC Clause 31

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

Form 9: Bid Securing Declaration

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

Bid No.:***P113449***

To: **Pakistan Meteorological Department (Pakistan Meteorological Department), Director PMD HQS Office, Sector H-8/2., Islamabad Capital Territory**

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

SECTION IX: CONTRACT FORMS

THIS AGREEMENT made the _____ day of _____ 20_____ between **Pakistan Meteorological Department (Pakistan Meteorological Department), Director PMD HQS Office, Sector H-8/2., Islamabad Capital Territory**

(hereinafter called "the Procuring Agency") of the one part and *[name of Bidder]* of *[city and country of Bidder]* (hereinafter called "the Bidder") of the other part:

WHEREAS the Procuring Agency invited Bids for provision of goods, viz., **Establishment of PMD National Operations Centre (*P113449*)** and has accepted a Bids by the Bidder for the provision of Services in the sum of *[contract price in words and figures]* (hereinafter called "the Contract Price").

NOW THIS CONTRACT WITNESSETH AS FOLLOWS:

1. In this Contract words and expressions shall have the same meanings as are respectively assigned to them in the Conditions of Contract referred to.

2. The following documents shall be deemed to form and be read and construed as part of this Contract, In the event of any ambiguity or conflict between the Contract Documents listed below, the order of precedence shall be the order in which the Contract Documents are listed below:-

1. This form of Contract;
2. the Form of Bids and the Price Schedule submitted by the Bidder;
3. the Schedule of Requirements;
4. the Technical Specifications;
5. the Special Conditions of Contract;
6. the General Conditions of the Contract;
7. the Procuring Agency's Letter of Acceptance; and
8. [*add here: any other documents*]

3. In consideration of the payments to be made by the Procuring Agency to the Bidder as hereinafter mentioned, the Bidder hereby covenants with the Procuring Agency to provide the Goods related services and to remedy defects therein in conformity in all respects with the provisions of the Contract.

4. The Procuring Agency hereby covenants to pay the Bidder in consideration of the provision of Goods and the remedying of defects therein, the Contract Price or such other sum as may become payable under the provisions of the contract at the times and in the manner prescribed by the contract.

IN WITNESS whereof the parties hereto have caused this Contract to be executed in accordance with their respective laws the day and year first above written.

Signed, sealed, delivered by _____the _____ (for the Procuring Agency)

Witness to the signatures of the Procuring Agency:

……

Signed, sealed, delivered by _____the _____ (for the Procuring Agency)

Witness to the signatures of the Bidder: ……

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: **Pakistan Meteorological Department (Pakistan Meteorological Department), Director PMD HQS Office, Sector H-8/2., Islamabad Capital Territory**

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 Non-Consultancy Services*(*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

RFP

Technical Submission (Vendor)

Document Required

See Form Under Additional Forms and Documents: **RFP** (page number: 74)

BOQ

Financial Submission (Vendor)

Document Required

See Form Under Additional Forms and Documents: **BOQ** (page number: 113)

PUBLIC PROCUREMENT REGULATORY AUTHORITY (PPRA) EPADS

Procurement Forms

PUBLIC PROCUREMENT REGULATORY AUTHORITY
(PPRA)
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(PPRA)
EPADS

Additional Forms and Documents

Tel: +92-51-9250286
Fax: +92-51-9250368

No. I&P/NOC/26-27
Government of Pakistan
Ministry of **Defence**
PAKISTAN METEOROLOGICAL DEPARTMENT
(Indent and Purchase Section)
Sector H-8/2, Post Box No. 1214,**Islamabad,Pakistan**
URL: http://www.pmd.gov.pk/

REQUEST FOR PROPOSALS (RFP)

Pakistan Meteorological Department (PMD) invites Technical Proposals from pre-qualified bidders for **"PMD National Operation Center"**.

Terms & Conditions:

1. Bid Security 03 million, in shape of Bank Draft, Pay Order, in favor of D.G. PMD must be submitted.
2. Incomplete or late received offer will not be considered, closing date and time of Bid is 25th November, 2026 at 1030PST and opening date and time is 25th November, 2026 at 1100PST.
3. The relevant documents may be obtained from the websites i.e. https://weather.gov.pk, PPRA EPADS https://pa.epads.gov.pk as well as https://epms.ppra.gov.pk.
4. Competent Authority reserves the right to reject or accept any or all the tenders without assigning any reason under PPRA Rule.
5. The successful bidders will furnish performance guarantee in the shape of CDR/Pay Order/Bank Draft/ Bank Guarantee @ 10% of his work order in favour of D.G. PMD during the warranty period.

***Note:** All Firms are directed to quote their Bids online through PPRA E-PADS 2.0 as well as original Bids must be submitted in hard forms to I&P Section, PMD Headquarters office, Islamabad*

(Muhammad Hussam khan)
Deputy Chief Administrative Officer
Pakistan Meteorological Department
H-8/2, Islamabad
Ph. 051-9250286

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REQUEST FOR PROPOSAL

For the establishment of

PMD National Operation Center

Pakistan Meteorological Department

Sector H-8/2,

Islamabad

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Table of Contents

1. Introduction 5
1.1 General Requirements 5
2. Scope of Work and deliverables 5
3. Visual Walls and paraphernalia 6
3.1 Video Walls 6
3.1.1 COB LED display modules (A1 to A4) 6
3.1.2 Receiving cards (A5) 6
3.1.3 LED video wall processor (A6) 7
3.1.4 Sending cards for A6 (A7) 7
3.1.5 LED power supplies (A8) 8
3.1.6 COB LED cabinets (A9) 8
3.1.7 Structure, cabling and commissioning (A10 to A12) 8
3.2 Video wall controller and management software 8
3.2.1 Video wall controller (B1) 8
3.2.2 Video wall output (graphics) card (B2) 9
3.2.3 Video capture cards (B3) 9
3.2.4 Video wall management software (B4) 10
3.2.5 IP stream encode / decode card (B5) 11
3.2.6 AV-over-IP link to the Executive Block Briefing Hall (B6) 11
3.2.7 Cabling (B7) 12
3.2.8 AV rack (B8) 12
3.2.9 Wireless media presenter (B9) 13
3.2.10 Network Access Switch (B10) 13
3.2.10 Incident Management and Ticketing System (B11) 13
3.2.11 Video Documentary (B12) 14
3.3 Video conferencing 14
3.1.1 PTZ conferencing camera (C1, C2) 14
3.3.2 Executive speakerphones (C3) 14
3.3.3 Conferencing PC (C4) 14
3.3.4 Conference microphones (C5) 14
3.3.5 Room sound system (media and VC) (C6) 14
3.3.6 VC audio interface and cabling (C7) 15
3.4 Operator and supervisor workstations 15
3.4.1 Workstation PC (D1) 15
3.4.2 Graphics card (D2) 15
3.4.3 Desk monitors (D3) 15
3.4.4 Monitor arms and peripherals (D4, D5) 15
3.5 Power and UPS 16

3.5.1 UPS (E1 to E3) 16
3.5.2 Distribution boards and riser (E4) 16
3.5.2 Standby generator with ATS (E5) 16
3.5.3 Power meters (E6) 16
3.5.4 Power sequencers (AV rack) (E7) 16
3.5.5 LED power distribution panels (E8) 17
3.5.6 Main incoming power cable (E9) 17
3.5.7 Earthing system, NOC (E10) 18
3.6 HVAC and fresh air 18
3.6.1 Air-conditioning units (F1) 18
3.6.2 Fresh-air unit (F2) 18
3.6.3 Ducting and installation (F3) 19
3.7 Fire detection and suppression 19
3.7.1 Clean-agent suppression, IT-AV room (G1) 19
3.7.2 Detection and control (G2 to G4) 19
3.7.3 Room integrity (G5) 19
3.7.4 Hall protection (G6, G7) 19
3.8 Automation, access control and CCTV 19
3.8.1 Building automation platform (H1) 19
3.8.2 Sensors (H2, H3) 19
3.8.2 Access control (H4 to H7) 20
3.8.3 CCTV (H8 to H10) 20
3.9 Dashboards and development team 20
3.9.1 Dashboards (I1) 20
3.9.2 Development Team (I2) 21
4. Interior fit-out 21
4.1 Scope of Interior work 21
4.2. Materials and workmanship 22
5. Solution Submission and evaluation criteria 22
5.1 Minimum Eligibility and Qualification Requirements 22
5.2 Required Submissions 23
Compliance Sheet 24

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1. Introduction

Pakistan Meteorological Department (PMD) is looking to establish a PMD's National Operation Center (PMDNOC) at its main office in Islamabad to provide a centralized, resilient and highly visual operational environment for monitoring meteorological, hydrological, geophysical data and information, supporting early warning, situational awareness, decision support, incident management and coordination. This turnkey solution is intended to bring together data from distributed applications and systems, and present it through a common operating picture.

It includes centralized control room with real-time monitoring, incident/ticket management, customized dashboards, trainings, support, and sourcing of weather stations, radars, lightning, seismic, gauging, satellite/NWP, floods, GLOF, cyclones and other information as core elements to be visualized on three sided visual walls. This document consolidates those recurring requirements while making the specification vendor-neutral and suitable for competitive evaluation.

1.1 General Requirements

- The qualification shall focus on technical capability, relevant experience, proposed architecture, integration approach, and deployment of right team for the implementation of whole project.
- No manufacturer, brand, software platform or technology stack is mandatory unless explicitly stated as a minimum requirement.
- Proposed solutions shall be modular, open, scalable, secure, maintainable and capable of integrating with existing PMD systems and future systems.
- Software licenses (if any) must be perpetual.
- All specifications are minimum requirements. Only the equipment of equivalent or higher performance will be considered.
- Item numbers follow the Bill of Quantities.
- All equipment shall be new, current production, and supplied with the manufacturer's authorization for this project.
- All equipment shall carry the relevant safety and EMC certification (CE / FCC or equivalent) and be RoHS compliant.
- Spare parts shall remain available for at least 7 years from handover.
- The bidder shall provide installation, configuration, testing, commissioning, drawings, operator and technical training, and as-built documentation.
- Quantities and sizes are based on the current layout and can be increased and decreased as required. Evaluation will be purely on the bases of required quantities in this document.
- Provide all the specifications of each component/module as required and also submit a compliance sheet in Annex-I.
- All warranties should be for at least two years, unless or until explicitly described.
- Project is required to be finished in four (04) months from the award of the contract.

2. Scope of Work and deliverables

PMD expects a turnkey solution with following deliverables

- Indoor fine-pitch video walls. It must include cabinets/modules, frames, controllers, processors, cabling, power distribution, management software and spares.
- Visualization/control workstations and operator PCs with professional graphics capability. Role based access control.
- Customized dashboards for the defined use cases.

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- Operation center interior fit-out including operator consoles and meeting/briefing furniture.
- Detailed design and enhancement of corridors/lobbies of three floors of the office as described in requirements.
- Video conferencing and collaboration facilities. Must include AI cameras, microphones, speakers, DSP/echo cancellation, displays and content sharing.
- Power Generator, ATS, UPS with battery backups.
- Cooling solution for the Operations Centre and associated technical areas
- Monitoring of UPS, PDU, STS/ATS where required, environmental monitoring
- Fire safety solution including fire detection/suppression and access control for Operation center.
- CCTV Surveillance.
- Incident management, ticketing and reporting.
- Implementation, integration testing, FAT/SAT, commissioning, trainings, documentation, warranty and after-sales support.
- Comprehensive trainings to the PMDs officials on each of the component/module of the projects. Training scope and contents will be approved by the PMD.
- A short high quality customized panoramic video documentary about PMDNOC functions.
- Two Support (resident) engineers for the period of one year after the final handover.
- Vendors are required to submit the clear time lines along with deliverables.

3. Visual Walls and paraphernalia

3.1 Video Walls

3.1.1 COB LED display modules (A1 to A4)

Parameter	Minimum requirement
Technology	Indoor COB (chip-on-board) LED, 1R1G1B full colour
Pixel pitch	≤ 1.25 mm
Pixel density	≥ 640,000 pixels/m²
Module	Front-serviceable, magnetic mounting; module size to allow the screen sizes below without partial modules
Front screen	7.20 m x 2.36 m (±1%), resolution ≥ 5760 x 1890 pixels
Left and right wing screens	Each 3.00 m x 2.36 m (±1%), resolution ≥ 2400 x 1890 pixels
Total display area	≥ 31.2 m²
Brightness	≥ 600 cd/m² after calibration, adjustable 0 to 100% in at least 256 steps
Refresh rate	≥ 7680 Hz, maintained at 20% brightness
Frame rate	50 / 60 Hz
Grey scale	≥ 16-bit
Contrast ratio	≥ 10,000:1
Viewing angle	≥ 160° horizontal and vertical
Colour temperature	Adjustable, 3000 K to 9300 K
Colour uniformity	Within ±0.003 Cx, Cy
Brightness uniformity	≥ 97% after point-by-point calibration
Flatness and seams	Module-to-module gap and step ≤ 0.1 mm
Power consumption	Maximum ≤ 560 W/m², average ≤ 260 W/m²
Input voltage	100 to 240 V AC, 50/60 Hz
MTBF / lifetime	MTBF ≥ 10,000 h; lifetime ≥ 100,000 h to half brightness
Operating environment	-10°C to 45°C, 10% to 90% RH non-condensing
Spares	≥ 5% spare modules from the same production batch

3.1.2 Receiving cards (A5)

Parameter	Minimum requirement
Function	Receiving cards with matching HUB boards, fully compatible with the LED video wall processor and sending cards in A6 and A7

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Parameter	Minimum requirement
Performance	Support ≥ 7680 Hz refresh (with the module driver IC), 22bit+ grey-level enhancement, 16-bit precise grayscale calibration, HDR10 (SMPTE ST 2084 / 2086), low-grey compensation and pixel-level brightness and chroma calibration
Monitoring	Report temperature, voltage and link status to the controller software
Spares	≥ 4% spare cards

3.1.3 LED video wall processor (A6)

Parameter	Minimum requirement
Type	Modular, rack-mount video wall splicing processor with integrated LED sending, 19-inch rack; hot-swappable input and output cards
Card slots	Not less than 15 input card slots and not less than 5 LED sending card slots
Input capacity	Not less than 60 input channels when fully populated
Loading capacity	Not less than 52 million pixels with Gigabit Ethernet sending cards
Inputs supplied	Not less than 4 x HDMI 2.0 inputs, each 3840 x 2160 at 60 Hz, HDCP 2.2, embedded audio
Input card options	HDMI 1.3 / 1.4, dual-link DVI, DP 1.2, 12G-SDI and 3G-SDI, HDBaseT and fibre input cards; IP stream decoding (H.264 / H.265, RTSP / ONVIF) available as an option
Layers	Per card not less than 16 x 2K, 8 x dual-link or 4 x 4K layers; not less than 80 layers per system; background images without use of layer resources
Screens and mosaic	Several independent screens on one processor; frame-synchronised output mosaic and irregular rectangle mosaic, so that the front and both wing screens operate as one canvas
Processing	10-bit video processing, HDR10 and HLG, input cropping, colour adjustment, scrolling text and logo overlay
Latency	Not more than 1 frame from input to the LED receiving card
Presets	Not less than 2,000 presets with fade and seamless switching, switching time less than 60 ms
Synchronization	Genlock input, bi-level and tri-level, with loop-out
Control	Browser-based control over Gigabit Ethernet with multi-user access; RS-232 for central control systems; LED configuration software and visual control application; firmware upgrade over the network
Monitoring	Network and local HDMI preview of inputs and outputs available as an option
Reliability	Self-test; automatic monitoring and alarms for fan speed, temperature, voltage and card status
Backup	Hot backup between two processors; Ethernet and fibre backup between sending cards
Power	Redundant dual power supplies, 100-240 V AC, 50/60 Hz; consumption not more than 450 W fully loaded
Environment	Operating 0 to 45 °C, 0 to 80% RH; storage -10 to 60 °C, 0 to 95% RH, non-condensing; noise not more than 45 dB(A)
Compliance and warranty	CE, FCC, UL / CB; manufacturer warranty not less than 2 year

3.1.4 Sending cards for A6 (A7)

Parameter	Minimum requirement
Type	LED sending card for the processor in A6, hot-swappable
Ports	Not less than 16 Gigabit Ethernet ports plus 2 fibre ports per card
Load	Not less than 10.4 million pixels per card; not less than 650,000 pixels per port at 8-bit and 320,000 pixels per port at 10-bit
Maximum canvas	Not less than 10,240 pixels width or height per card
Fibre	Single-mode and multi-mode
Backup	Ethernet port backup; fibre ports copy the Ethernet outputs
Frame rate	Up to 144 Hz
Compatibility	Fully compatible with the receiving cards and HUB boards in A5 (7680 Hz), including pixel mapping and brightness and colour calibration
Power	Not more than 35 W per card
Uniform model	All sending cards of the same model, so the front and both wing screens can be configured and loaded as a single screen

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3.1.5 LED power supplies (A8)

Parameter	Minimum requirement
Type	5 V switch-mode power supplies matched to the offered modules and cabinets
Protection	Over-voltage, over-current, short-circuit and over-temperature protection; power factor correction
Spares	≥ 4% spare units

3.1.6 COB LED cabinets (A9)

Parameter	Minimum requirement
Material	Die-cast aluminium cabinets; modules with no plastic housing
Screen build	Cabinets form the front screen (7.20 x 2.36 m) and each wing (3.00 x 2.36 m) with whole cabinets only, no cut or partial cabinets
Maintenance	Full front access; modules, receiving card, HUB board and power supply replaceable from the front without dismantling neighbouring cabinets
Assembly	Alignment pins and quick locks; seam ≤ 0.1 mm and flatness ≤ 0.1 mm between cabinets
Integration	Mounting inside each cabinet for its receiving card, HUB board and power supply, with power and data connectors for daisy-chaining
Cooling	Fanless, passive cooling through the aluminum body
Warranty	Not less than 2 year

3.1.7 Structure, cabling and commissioning (A10 to A12)

Parameter	Minimum requirement
Front frame	Wall-fixed steel frame, screen bottom edge 1 ft (305 mm) above finished floor
Wing frames	Two steel frames, each angled about 42.8° to the front plane so the wing faces the centre of the executive seating
Corner joints	Angled joint frames with no visible gap between front and wing screens
Cabling	Power and data cabling, HUB boards and distribution to the screen UPS outputs
Commissioning	On-site point-by-point calibration of brightness and colour across all three screens

3.2 Video wall controller and management software

3.2.1 Video wall controller (B1)

Parameter	Minimum requirement
Purpose	Dedicated video wall controller for 24/7 mission-critical control room use, capturing, processing and displaying multiple sources on the video wall
Chassis	19-inch rack-mount industrial chassis, 4U maximum (≤ 180 mm high, ≤ 510 mm deep), with rack ears and front-accessible drive bays
Backplane	PCIe Gen 3 switched fabric with ≥ 11 x8 slots (8 GB/s uplink and downlink per slot); output, capture and IP-decode cards can be mixed in any slot
Expansion	≥ 2 free slots after the project configuration, with the option to add an expansion chassis
Processor	64-bit x86, ≥ 12 cores, ≥ 4.9 GHz maximum turbo frequency, ≥ 25 MB cache
Memory	≥ 32 GB DDR5, expandable to ≥ 64 GB
Storage	Two hot-swappable SSDs, each ≥ 480 GB, in RAID 1 (mirrored)
Power supply	Redundant, hot-swappable, ≥ 800 W, 100 to 240 V AC, 50/60 Hz, high efficiency (80 PLUS Platinum or equivalent)
Cooling	Hot-swappable fans, replaceable without shutdown; airflow optimized for continuous operation
Network	Dual Gigabit Ethernet (10/100/1000Base-T)
USB and local ports	≥ 4 x USB 3.0, ≥ 2 x USB 2.0, 1 x USB-C; on-board DisplayPort and HDMI for the admin console; 3.5 mm audio jack
Operating system	64-bit long-term-servicing edition, pre-installed and licensed, with vendor security support until at least 2032; home editions not acceptable

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Parameter	Minimum requirement
Diagnostics	Built-in real-time monitoring of temperatures, fan speeds, power supplies, cards and system performance, with alerts to administrators
Reliability and MTBF	System MTBF ≥ 40,000 hours in the supplied configuration (excluding fans and mechanical parts). Minimum component MTBF: redundant power supply ≥ 100,000 h at 40°C; single-board computer ≥ 100,000 h at 40°C; backplane ≥ 750,000 h; SSDs ≥ 2,000,000 h each; CPU and RAM ≥ 1,000,000 h; chassis cooling fans rated life ≥ 70,000 h at 40°C, hot-swappable. Industrial PC components rated for 24/7 control room use, with spare parts available for at least 7 years
Environment	Operating 0°C to 35°C; storage -20°C to 70°C; 10% to 95% RH
Acoustic noise	≤ 80 dB(A) at full load
Compliance	CE, FCC Part 15, IEC 62368-1 product safety
Project configuration	Supplied with output cards giving ≥ 4 outputs at 3840 x 2160 / 60 Hz, capture cards giving ≥ 12 inputs, and IP stream decoding support (cards specified under their own items)
Warranty	Not less than 3 years.

3.2.2 Video wall output (graphics) card (B2)

Parameter	Minimum requirement
Card interface	PCI Express Gen 3, x16 mechanical, not less than x8 electrical; full compatibility with the video wall controller (item B1)
Outputs per card	4 x HDMI 2.0
Output resolution	Each output up to 3840 x 2160 at 60 Hz, 4:4:4, not less than 594 Mpixels/s per output, on all four outputs simultaneously
Lower and custom resolutions	Each output supports HD and custom resolutions and timings to match the LED video wall processor inputs
Colour depth	Not less than 8 bits per component
Graphics memory	Not less than 8 GB per card
Capture-to-output transfer	Direct transfer path from the capture cards (item B3), not less than 5.5 GB/s sustained
Content protection	HDCP 2.2 supported from source to screen when used with the controller's capture cards
End-to-end 4K	Full 4K60 4:4:4 from capture input to the wall when used with 4K-capable capture cards
Scalability	Not less than 6 cards (24 x 4K outputs) in one controller, operating as one desktop
Unified desktop	Display driver unifies all outputs and cards into a single desktop canvas, with hundreds of output windows and full support for picture-in-picture and overlaps
Wall configuration tool	Graphical setup wizard for output resolution, rotation (90 / 180 / 270°), position, bezel compensation and LED wall layouts
Graphics performance	Hardware-accelerated 2D and 3D graphics
Software and operating system	Compatible with the wall management software (item B4); drivers for 64-bit Windows 10 / 11 and Windows Server 2019 or later
Diagnostics	Manufacturer's diagnostic and display configuration utilities supplied
Power	Not more than 50 W per card, slot powered (+3.3 V not more than 0.6 A, +12 V not more than 4.0 A)
Environment	Operating 0 to 35 °C; storage -20 to 70 °C; 5 to 90% RH non-condensing
Reliability	MTBF over 80,000 hours
Compliance and warranty	FCC Part 15 Class A and CE; manufacturer warranty not less than 1 year
Note: additional output card (recommended)	Supply 2 output cards (8 outputs in total), with 2 outputs to each of the three screens (6 in use) and 2 outputs spare for expansion or replacement

3.2.3 Video capture cards (B3)

Parameter	Minimum requirement
Card interface	PCI Express Gen 3 x8, full compatibility with the video wall controller (item B1)
Inputs per card	4 x HDMI inputs per card
4K-capable inputs	At least 2 inputs per card capturing up to 3840 x 2160 and 4096 x 2160 at not less than 30 Hz
HD inputs	Remaining inputs capturing up to 1920 x 1080 (and 1920 x 1200) at 60 Hz
Project configuration	3 cards, not less than 12 inputs in total, of which not less than 6 are 4K-capable

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Parameter	Minimum requirement
Signal standards	HDMI 1.4a; DVI sources accepted through passive adapters; HDCP 1.4 compliant
Pixel clock	Not less than 297 MHz on 4K-capable inputs and not less than 165 MHz on HD inputs
On-board frame buffer	Not less than 768 MB per card
Pixel formats	RGB 4:4:4 8-bit (24 and 32 bit), RGB 5-5-5 and 5-6-5, YUV 4:2:2 and 4:2:0, 8-bit monochrome
Audio	Capture of embedded HDMI audio on all inputs
Latency	Low-latency capture with direct transfer to the graphics output memory, without passing through system memory
Hardware processing	On-card hardware scaling, cropping and text / image overlay
Streams	Not less than 16 independent capture streams per card, each with its own size, crop and format
Synchronization	Frame synchronization and hardware timestamping across all inputs and across multiple cards
EDID and signal detection	Programmable EDID per input; automatic detection of signal presence, resolution and timing
Multiple cards	Several cards operating in one chassis with a fixed, configurable card order
Software support	64-bit drivers for Windows 10 / 11 and Windows Server 2019 / 2022; Linux (Video4Linux); DirectShow / WDM; SDK / API for third-party integration
Firmware	Field-upgradable firmware, upgradable on site
Power and environment	Not more than 20 W per card; operating 0 to 35 °C, storage -20 to 70 °C, 5 to 90% RH non-condensing
Compliance and warranty	CE and FCC Part 15 Class A; manufacturer warranty not less than 1 year

3.2.4 Video wall management software (B4)

Parameter	Minimum requirement
Function	Central software to manage and control all content on the video wall from the controller (B1) and from networked operator positions
Any source anywhere	Any source placed anywhere on the wall by drag and drop, including across screen boundaries, or several sources within one screen; precise window positioning by mouse and keyboard
Source types	Capture inputs (B3), IP streams, VNC / remote desktop sources, local video and image files, and browser windows opened directly on the wall
Layouts	Save and recall complete wall layouts quickly; layouts also recallable from the web interface
Templates	Templates dividing the wall into areas, with dropped content filling the area automatically; templates also applicable to a group of windows so they move and resize together
Cropping	Cropping of capture and IP sources by selecting the area of interest on a snapshot; saved crops reusable in layouts
On-screen labels	Text over windows with variables such as time and date, frame rate and source resolution; adjustable font, size and color
Borders and frames	Colored borders and frames around windows to show priority or group sources
Banners	Scrolling or static text banners, typed in or fed automatically from an RSS feed, with selectable or transparent background
Asset management	Banners and fully configured windows (crops, labels, borders, carousels) saved as reusable assets across layouts and walls
Carousels	Windows cycling through several sources automatically, with start / stop control
Web page control	Web pages shown on the wall with auto-refresh, horizontal and vertical scrolling, and zoom
KVM	Operators control remote source PCs shown on the wall with their local keyboard and mouse, over IP
IP decoding	H.264 (MPEG-4 Part 10 AVC), MPEG-4 Part 2 and MJPEG over HTTP, RTSP and MPEG2-TS, multicast and unicast, IPv4 and IPv6, with de-interlacing; decoding on the controller CPU or on dedicated decode cards; number of streams limited only by the hardware
Source streaming	Captured sources streamed over the network as RTSP for remote monitoring or recording
Multiple walls	Several independent walls from one controller, each with its own sources, set up with a wizard

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Parameter	Minimum requirement
User rights	Roles per user and per wall linked to Windows log-in; each user or role limited to particular sources, layouts and templates; desktop capture can be disabled
Web control	Control from any desktop, tablet or phone browser (Chrome, Edge, Safari) without client software: open layouts, templates and individual sources; resize, position, maximize, bring to front, mute and close content; live snapshot of the wall; per wall 'full control', 'layouts only' or web access disabled
Automation	Command line interface for integration with third-party control systems
Operating system	Windows 10 / 11 for client PCs; Windows Server 2019 or later on the controller
Language	English user interface
Licensing	Perpetual licence covering the full feature set above (multi-wall, user rights and unlimited IP decoding level), with free software updates for not less than 1 year

3.2.5 IP stream encode / decode card (B5)

Parameter	Minimum requirement
Type	Plug-in card for the video wall controller (B1) with its own on-board processor, so encoding and decoding put no load on the host CPU; several cards usable in one controller
Interface	PCI Express Gen 2 x4 or better
Network	2 x Gigabit Ethernet (RJ45), able to connect to two separate networks; DHCP or static addressing; IPv4 and IPv6
Decode capacity per card	Not less than 1 x 3840 x 2160 at 60 fps, or 3 x 4K at 30 fps, or 6 x 1080p60, or 12 x 1080p30, or 10 x 1080i / 50 x D1
Encode capacity per card	Not less than 2 x 4K at 30 fps, or 4 x 1080p60, or 8 x 1080p30
Codecs	Decode H.264 (Baseline, Main and High profiles, levels 3 to 5.2), H.265 Main, MPEG-2, VC-1 and MJPEG; encode H.264 and H.265
Streaming	HTTP, RTSP, RTP and UDP, unicast; containers MPEG-4 Part 1, MPEG2-TS, WMV and MOV
Stream authentication	Basic and Digest
Processing	Hardware downscaling and de-interlacing; not less than 4 GB on-board memory; direct memory transfer not less than 1.3 GB/s
Carousels	IP window carousels with hardware pre-buffering for smooth switching
Integration	Fully controlled from the wall management software (B4); IP sources placed on the wall alongside capture sources; captured sources encodable for viewing elsewhere on the network
Operating system	64-bit Windows 10 and Windows Server 2019 or later
Power	Not more than 15 W per card
Environment	Operating 0 to 35 °C; storage -20 to 70 °C; 5 to 90% RH non-condensing
Warranty	Manufacturer warranty not less than 1 year

3.2.6 AV-over-IP link to the Executive Block Briefing Hall (B6)

Parameter	Minimum requirement
System	4K AV-over-IP transmitter and receiver, visually lossless, latency under 1 ms over a 10G network; point-to-point direct fibre mode, detected automatically, also supported
Transmitter inputs	Not less than 1 x HDMI 2.0 (3840 x 2160 and 4096 x 2160 at 60 Hz) plus 3 x HDMI 1.4, used as one 4K source or four HD sources; loop-through output for local monitoring
HDCP	Version 2.2 on the 4K input, 1.4 on the HD inputs
Pixel clock	Not less than 600 MHz on 4K and 150 MHz on HD
Video formats	RGB 8-bit and YCbCr 4:4:4 8-bit minimum; progressive scan
Codec	Visually lossless intra-frame codec on the 10G link; each input also sent simultaneously as an H.264 / H.265 stream for endpoints on a 1G network
Receiver outputs	1 x HDMI 2.0 (4K60) plus 3 x HDMI 1.4, showing one 4K stream or four independent HD streams
Audio	Embedded HDMI audio, up to 4 stereo pairs PCM at 96 kHz; analogue line-level output on the receiver
KVM	Keyboard and mouse on the receiver (2 x USB) control the source PCs through USB ports on the transmitter

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Parameter	Minimum requirement
Network interfaces	10G SFP+ fibre for video plus 1G RJ45 management port; multicast with IGMPv2
Security	AES 128-bit encryption on all streams
Signal quality	Streams genlocked to the source; built-in resilience against bit errors, jitter and lost packets; HD version of a 4K stream sent automatically to endpoints that cannot show 4K
Management	Software tool to discover, configure and update firmware on all transmitters and receivers
Mounting	Receiver VESA-mountable behind a screen or desk-mounted; transmitter rack-mountable
Power	Transmitter not more than 20 W; receiver not more than 15 W
Environment	Operating 0 to 40 °C; 5 to 90% RH non-condensing
Fibre link	About 100 m OM3 / OM4 multi-mode fibre with matching 850 nm 10G SFP+ modules, terminated and tested
Network switches	Managed 10 GbE switch at each end (NOC AV room and Briefing Hall) with SFP+ ports and IGMP snooping, with spare ports for additional AV-over-IP endpoints
Warranty	Manufacturer warranty not less than 3 years

3.2.7 Cabling (B7)

Parameter	Minimum requirement
Scope	All signal cabling for the video wall system: operator desks to the AV room, within the AV rack, and AV room to the LED screens (LED power cabling is covered in A11). All concealed.
Desk to AV room video	One 4K-capable feed from each of the 8 workstations and from the conferencing PC to the capture cards (B3); active optical HDMI cables (AOC) for any run longer than 10 m
In-rack HDMI	Premium Certified HDMI (18 Gbps) from the output card (B2) to the processor inputs (A6), not longer than 3 m; connector shell width less than 20.5 mm so cables fit side by side on the card
AV-over-IP receiver end	Premium Certified HDMI, not longer than 3 m, from the receiver (B6) to the Briefing Hall display
LED data	Cat6 or better shielded (S/FTP) cable from the sending cards (A7) to the receiving cards, not longer than 100 m per run; main and backup runs routed separately where port backup is used
LED data fibre	OM3 / OM4 multi-mode fibre with matching SFP modules for any run longer than 100 m
Network	Cat6 or better for management, control, IP streams (B5) and KVM agents; fibre runs between racks or rooms in OM3 / OM4 multi-mode with LC connectors
USB / KVM	USB extension over Cat6 or fibre where required for remote keyboard and mouse
Containment	Dedicated trays, raised-floor or ceiling routes; signal and power separated by at least 300 mm or a metal divider
Fire safety	LSZH (low smoke, zero halogen) jackets on all cables inside the NOC
Labelling	Both ends of every cable labelled to match the as-built drawings
Testing	Every copper run certified to Cat6 and every fibre run loss-tested; test reports handed over
Spare capacity	At least 20% spare capacity in trays and conduits; at least 2 spare Cat6 runs from each desk to the AV room
Warranty	Not less than 2 years on materials and workmanship

3.2.8 AV rack (B8)

Parameter	Minimum requirement
Type	19-inch floor-standing server / AV rack, not less than 42U, 800 mm wide x 1000 mm deep, static load not less than 1,000 kg
Doors and panels	Front and rear perforated doors (not less than 70% open area), lockable; lockable removable side panels
Cooling	Roof fan unit with thermostat; blanking panels on all unused U spaces
Power distribution	Rack power through the power sequencer (E7, details in E7); no separate PDUs
Cable management	Vertical cable managers on both sides, horizontal managers, top and bottom cable entry with brush strips

Parameter	Minimum requirement
Accessories	Adjustable mounting rails, fixed shelves, space for a 1U KVM / console drawer, full set of cage nuts and screws
Earthing	Earth bar bonded to the building earth, with every device and panel bonded
Mobility	Levelling feet and castors
Finish	Powder-coated steel, black
Warranty	Not less than 3 years

3.2.9 Wireless media presenter (B9)

Parameter	**Minimum requirement**
Purpose	Wireless casting of media and presentations from the supervisor PC and visitor laptops, tablets and phones to the video wall, with audio to the room sound system (C6)
Casting protocols	Support native wireless mirroring protocols like Airplay, Miracast, Chromecast. casting app for Windows as an option; plug-and-play HDMI and USB-C transmitter dongles
Dongles supplied	Not less than 2 transmitter dongles (1 HDMI, 1 USB-C)
Video	Wireless input up to 1920 x 1080 at 60 fps; latency not more than 100 ms; HDMI 2.0 output to a spare capture input (B3)
Split-screen	Up to 4 sources shown at the same time
Audio	Analogue line audio output to the mixer of the room sound system (C6)
Network security	Dual network, keeping guest casting physically separate from the NOC LAN; AES and RSA encryption; dynamic Wi-Fi password; moderator mode to approve each device before it is shown
Wired ports	Not less than 1 x Gigabit LAN, USB-A (2.0 and 3.0), USB-C
Power	PoE (IEEE 802.3at) from the network switch, or a local power supply
Control	OSD with preview, web UI, RS-232 for the automation system and third-party control
Collaboration	Whiteboard and annotation; wireless touch-back; remote view
Management	Central management platform with batch configuration, batch firmware upgrade and user management
Optional	Wireless sharing of room USB camera, mic and speakers for laptop-based conferencing
Warranty	Not less than 2 year

3.2.10 Network Access Switch (B10)

Parameter	**Minimum requirement**
1. Network access switch POE	2x1G SFP, 24-Port Gigabit Ethernet POE Switch (to be installed in AV Rack) to provide network connectivity to workstations and WAP through the existing core switch over fiber. All connector, patch cables, mounting accessories included
2. Network access switch Ethernet	2x1G SFP, 24-Port Gigabit Ethernet POE Switch (to be installed in AV Rack) to replace the existing switch in the hall. All connectors, patch cables, mounting accessories included
3. Wireless Access point	2xWireless access points (Enterprise grade), POE, each of Minimum 50 users capacity
4. Installation and Configuration	Installation, configuration and seamless connectivity with existing network
5. Warranty	3 Years Warranty of each appliance

3.2.10 Incident Management and Ticketing System (B11)

Parameter	**Minimum requirement**
Incident Management and Ticketing system	A complete is all aspects Incident management and ticketing system. Register, categorize, assign and track incidents with unique IDs. Hosted on PMD local servers, accessible over intranet and secure remote/cloud access. Configurable resolution timelines and automatic escalation to senior management. Live dashboard to display open, pending, in-progress, resolved and escalated tickets with status and

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Parameter	Minimum requirement
	priority. Email to the concerned users, on assignment/escalation/resolution of every ticket. Role-based access, notifications, audit trail and performance reports.
Installation and Configuration	Installation, configuration, testing and make operational with feed on the video wall.

3.2.11 Video Documentary (B12)

A short high quality (2-3 Minutes) customized panoramic video documentary about PMDNOC functions as approved by PMD.

3.3 Video conferencing

3.1.1 PTZ conferencing camera (C1, C2)

Parameter	Minimum requirement
Resolution	≥ 3840 x 2160 at 30 fps
Zoom	≥ 20x optical
Field of view	≥ 70° horizontal at wide end
Outputs	USB 3.0, HDMI and IP streaming (RTSP / H.264 / H.265)
Control	≥ 128 presets, auto-framing, RS-232 / IP control
Mounting	Wall or ceiling bracket centred above or below the front screen

3.3.2 Executive speakerphones (C3)

Parameter	Minimum requirement
Pickup	360° microphone pickup, ≥ 3 m radius per unit
Linking	≥ 3 units linkable as one audio zone
Processing	Full-duplex, acoustic echo cancellation, noise suppression
Connectivity	USB and Bluetooth; compatible with the conferencing software in C5

3.3.3 Conferencing PC (C4)

Parameter	Minimum requirement
Specification	As D1, with output to the video wall capture input

3.3.4 Conference microphones (C5)

Parameter	Minimum requirement
Microphones	5 cardioid conference microphones for the executive seating arc (gooseneck or boundary type), XLR output, phantom-powered, with mute switch
Cabling	Shielded balanced cabling to the mixer of the room sound system (C6)
Warranty	Not less than 1 year

3.3.5 Room sound system (media and VC) (C6)

Parameter	Minimum requirement
Purpose	Playback of media files and multimedia documentaries, and video conferencing audio in the hall
Configuration	2 active 2-way column array systems (left and right), each with a subwoofer base; one with an integrated digital mixer, the second fed from it
Performance	Frequency response not narrower than 40 Hz to 20 kHz; maximum SPL not less than 125 dB at 1 m; dispersion not less than 120° horizontal x 30° vertical
Amplifier	Not less than 1400 W peak / 700 W RMS per system, Class D, with limiter and thermal / RMS protection
Mixer	Not less than 8 channels with 32-bit DSP; not less than 4 microphone inputs with +48 V phantom power and 2 stereo line inputs; 3-band EQ per channel, 7-band

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Parameter	Minimum requirement
	graphic EQ on main and aux, compressors; main and aux outputs; Bluetooth audio, USB playback and app remote control
Sources	Supervisor PC, wireless media presenter (B9), conferencing PC (C4) and the conference microphones (C5)
Stereo	True left / right stereo for media playback preferred;
Power	A dedicated socket at each unit from the IT UPS
Placement	Floor or pole mounted beside each wing screen, clear of the walkway and the screen frames; protective covers included
Warranty	Not less than 1 year

3.3.6 VC audio interface and cabling (C7)

Parameter	Minimum requirement
Audio interface	Balanced USB audio interface, not less than 2 inputs / 2 outputs, between the mixer (C6) and the conferencing PC (C4), used by the conferencing software echo cancellation; an AEC DSP may be offered instead
Cabling	Shielded balanced audio cabling from all sources to the mixer and from the mixer to the second speaker system, with DI boxes where needed
Warranty	Not less than 2 year

3.4 Operator and supervisor workstations

3.4.1 Workstation PC (D1)

Parameter	Minimum requirement
Form factor	Preferably the Small form factor desktop subject to Graphics Card support.
Processor	64-bit x86, ≥ 12 cores, ≥ 5.0 GHz maximum turbo frequency, Intel ultra 7 or equivalent
Memory	≥ 32 GB DDR5
Storage	≥ 1 TB NVMe SSD
Network	Gigabit Ethernet
Security	TPM 2.0
Operating system	64-bit professional edition, licensed

3.4.2 Graphics card (D2)

Parameter	Minimum requirement
Type	Low-profile professional workstation graphics card
Memory	≥ 8 GB GDDR6
Outputs	≥ 4 DisplayPort 1.4 outputs, each up to 3840 x 2160 at 60 Hz

3.4.3 Desk monitors (D3)

Parameter	Minimum requirement
Size and panel	27” or higher, IPS, LED backlit
Resolution	1920 x 1080
Brightness	≥ 250 cd/m²
Viewing angle	178° / 178°
Eye care	Flicker-free, low blue light
Inputs	HDMI and DisplayPort
Mounting	VESA 100 x 100

3.4.4 Monitor arms and peripherals (D4, D5)

Parameter	Minimum requirement
Monitor arms	Dual-arm, desk-clamp, gas-spring height adjustment, VESA 75/100, for D3
Keyboard and mouse	Full-size keyboard and optical mouse, wired or wireless

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3.5 Power and UPS

3.5.1 UPS (E1 to E3)

Parameter	Minimum requirement
Ratings	30kVA for IT equipment, central wall and mandatory lights.
Output power factor	≥ 0.9
Backup time	≥ 30 minutes at full load
Bypass	Automatic static bypass and manual maintenance bypass
Monitoring	SNMP and Modbus interface to the automation system; LCD panel
Batteries	Lithium batteries to support the backup time

3.5.2 Distribution boards and riser (E4)

Parameter	Minimum requirement
Scope	New main distribution board (ground floor, R&D Wing), riser feeder, sub-main board and distribution boards for UPS, IT, HVAC and lighting / power in the NOC; sized to the available space and requirement
Standard	IEC 61439-1 / -2 type-tested assemblies; MDB form 3b, other boards form 2b
Construction	Sheet steel not less than 1.5 mm, powder-coated, wall-mounted or floor-standing to suit the space, IP42, lockable doors
Busbars	Tinned copper, TPN + earth, rated not less than the incoming breaker
Fault level	MDB 36 kA; other boards 25 kA
Protection	MCCBs with adjustable trips; MCBs or RCBOs per circuit; 30 mA RCD on socket circuits; SPD Type 1+2 at the MDB and Type 2 at the SMDB; phase failure relays,
Riser feeder	4-core 95 mm² copper, XLPE / SWA / PVC, 0.6/1 kV to IEC 60502-1, on cable tray, from the MDB to the SMDB
Metering	Multifunction meters (E6) on the MDB and SMDB incoming
Monitoring	Breaker status and meter data to the automation system over Modbus
Spare capacity	Not less than 20% spare ways on each board
Labelling	Engraved circuit labels and a single-line diagram inside each door
Testing	Routine tests to IEC 61439; insulation and functional tests at site
Warranty	Not less than 2 year
Fire protection	Fire suppression devices inside boards. 1 for each board.

3.5.2 Standby generator with ATS (E5)

Parameter	Minimum requirement
Rating	65 kVA prime, 400 V, 3-phase, 50 Hz, sized for future expansion
Enclosure	Sound-attenuated canopy, ≤ 75 dB(A) at 7 m
Control	Automatic mains failure panel with automatic transfer switch and stepped load connection
Fuel	Base tank for ≥ 15 hours at full load

3.5.3 Power meters (E6)

Parameter	Minimum requirement
Type	Multifunction meter, accuracy class 1 or better, Modbus RTU / TCP

3.5.4 Power sequencers (AV rack) (E7)

Parameter	Minimum requirement
Application	Sequenced power for the AV rack equipment (controller, LED processor, network and recording equipment); 3 units: 2 cascaded as one sequence, one for the A feed and one for the B feed of dual-PSU equipment, plus 1 full backup unit; not for LED screen power
Channels	8 switched outlets per unit, not less than 4 rated 16 A and the rest not less than 10 A
Capacity	Not less than 8 kW total per unit, 220-240 V single-phase, 50/60 Hz
Power quality	Built-in RFI / EMI filter
Sequencing	Programmable on / off delay per channel, 1 to 999 s; ordered start-up and reverse-order shut-down

Parameter	Minimum requirement
Control	RS-232, RS-485 and TCP/IP (LAN) for the automation system, plus front-panel buttons
Cascading	Several units linked to run as one sequence without an extra controller
Scheduling	Timed on / off programmable for not less than 12 months
Emergency	Hardware switch to cut selected channels immediately
Display and security	Front-panel LCD showing ID, time, IP address and channel status; password lock
IR control	Infrared learning and output to control external devices
Processor	32-bit microcontroller for accurate timing
Construction	1U 19-inch rack-mount; earthing resistance not more than 100 ohm; safety-shuttered sockets
Warranty	Not less than 2 year

3.5.5 LED power distribution panels (E8)

Parameter	Minimum requirement
Quantity and duty	3 panels, one each for the front screen, left wing and right wing, each fed from that screen's UPS (E1 / E2)
Standard	Low-voltage switchboard built and type-tested to IEC 61439-1 / -2; wall-mounted steel enclosure, not less than IP42, lockable door
Incoming supply	Lockable isolator and incoming breaker sized for the screen's maximum load with not less than 25% margin; front panel 3-phase 400 V, wing panels single-phase or 3-phase
Outgoing circuits	One breaker per circuit, not more than 6 module power supplies per circuit; load balanced across phases
Inrush protection	Outgoing breakers with C or D trip curves, selected so the start-up surge of the switch-mode supplies does not cause nuisance tripping
Sequenced switching	Outgoing circuits grouped on contactors (AC-1 rating not less than 25% above group load) switched on one group at a time; delay between groups adjustable 1 to 10 s; shut-down in reverse order
Control modes	Manual / Off / Auto selector; in Auto, on / off commanded remotely; status lamps for supply present, each group on, and trip
Remote control and monitoring	On / off command and status / trip feedback to the automation system (H1) over Modbus RTU / TCP or volt-free contacts
Surge protection	Type 2 surge protective device on the incoming supply, with fault indication contact
Earth leakage	Type A residual current protection per group, rated to avoid nuisance tripping from the normal leakage of switch-mode supplies
Metering	Multifunction meter on the incoming feed (V, A, kW, kWh), linked to the power metering in E6
Emergency stop	Front-mounted mushroom-head emergency stop dropping all contactors
Wiring and spare capacity	Copper busbars or distribution blocks; not less than 20% spare ways and 20% spare busbar capacity
Cooling	Natural ventilation or filtered fan, so the panel interior stays within component ratings at the IEC 61439 standard ambient (35 °C, 24-hour average)
Labelling and drawings	Circuit chart inside the door, all cables labelled, as-built single-line diagrams handed over
Testing	Factory acceptance test; on-site insulation, continuity and functional tests including sequence timing, with test certificates
Warranty	Not less than 1 year on materials and workmanship

3.5.6 Main incoming power cable (E9)

Parameter	Minimum requirement
Route	From the IESCO transformer LT side to the NOC primary distribution panels (ground floor, R&D Wing), about 160 m; route to be verified by the bidder at site survey
Cable	4-core, 95 mm² stranded copper (IEC 60228 Class 2), XLPE insulated, galvanised steel wire armoured, PVC outer sheath, 0.6/1 kV, to IEC 60502-1
Rating	For 100 kVA at 400 V three-phase after derating for ground temperature, depth and grouping
Voltage drop	Not more than 3% at full load over the full route

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Parameter	Minimum requirement
Length	One continuous length without intermediate joints; about 170 m including terminations and slack
Protection	160 A four-pole MCCB with adjustable thermal and magnetic trips at the source end, breaking capacity not less than 36 kA, in a lockable weatherproof enclosure (IP54 or better)
Installation	Buried not less than 0.8 m deep on a 75 mm sand bed with 75 mm sand cover, brick or concrete tile protection and warning tape; HDPE or GI duct at road crossings and building entries; route markers about every 30 m and at bends
Terminations	Compression glands and crimped copper lugs, phase colour marking, cable tags at both ends
Earthing	Earthing is provided separately under E10
Testing	Insulation resistance test (1 kV) before and after laying, continuity and phase-sequence checks; results in the handover file
Approvals	Coordination with IESCO for connection at the transformer
Warranty	Not less than 2 year on materials and workmanship

3.5.7 Earthing system, NOC (E10)

Parameter	Minimum requirement
Earth pits	2 new dedicated earth pits, at least 3 m apart, interconnected through a removable test link; the successful vendor shall consult with the PMD team to select the most suitable location
Electrodes	Copper-bonded steel earth rod in each pit, not less than 17 mm diameter x 3 m (extended as needed to reach the required resistance), with earth-enhancing compound
Resistance	Not more than 1 Ω combined, measured by the fall-of-potential method
Inspection chambers	Concrete or heavy-duty polymer chamber with removable cover on each pit, labelled 'Safety Earth – Do Not Disconnect'
Earth conductor	1-core 50 mm² stranded copper, PVC insulated (green/yellow), from the pits to the main earth bar in the NOC primary distribution panels, laid separately from the power cable (E9); length as per the selected pit location
Distribution	25 mm² copper from the main earth bar to the AV room earth bar, bonding the AV rack, UPS units and LED power distribution panels (E8)
Connections	Exothermic welding or compression connectors at the electrodes; tinned copper earth bars with disconnecting links
Standards	IEC 60364-5-54; IEEE 80 / BS 7430 practice
Testing	Earth resistance and continuity tests at handover, with a test report
Warranty	Not less than 2 year

3.6 HVAC and fresh air

3.6.1 Air-conditioning units (F1)

Parameter	Minimum requirement
Type	Ceiling-mounted split units (cassette), inverter, horizontal air discharge
Capacity	2 TR (24,000 BTU/hr) each; 6 units, 4 duty and 2 standby
Refrigerant	Low-GWP refrigerant (R32 or equivalent)
Control	Modbus or BACnet interface for lead/standby rotation and alarms; auto-restart after power failure

3.6.2 Fresh-air unit (F2)

Parameter	Minimum requirement
Airflow	≥ 250 cfm fresh air, with matching exhaust
Filtration	Pre-filter (≥ 50%), bag filter (≥ 80%), HEPA H13 (≥ 99.95%)
Disinfection	UV-C stage, switchable
Heat recovery	Heat exchanger with ≥ 60% recovery efficiency
Humidity	Dehumidifier / humidifier controlling the supply air to 45% to 55% RH
Fans and control	EC fans; BACnet / Modbus interface to the automation system

3.6.3 Ducting and installation (F3)

Parameter	Minimum requirement
Scope	Insulated ducting, condensate drains, dampers and installation, all concealed

3.7 Fire detection and suppression

3.7.1 Clean-agent suppression, IT-AV room (G1)

Parameter	**Minimum requirement**
Agent	HFC-227ea clean agent
Standard	Designed and installed to NFPA 2001 or ISO 14520
Design	7% design concentration for the 12 x 10 x 11 ft AV room; discharge within 10 seconds
Components	Listed / approved cylinder, valve, nozzle and pipework

3.7.2 Detection and control (G2 to G4)

Parameter	Minimum requirement
Detection	Cross-zoned smoke detectors in the AV room; smoke detectors in the hall
Control panel	Addressable fire alarm and releasing panel to EN 54 or UL 864, linked to the automation system
Release controls	Abort switch, manual release, hooter / strobe and 'gas discharged' sign
Interlocks	Stop AC and fresh-air fans, close dampers and release access-controlled doors on alarm

3.7.3 Room integrity (G5)

Parameter	**Minimum requirement**
Requirement	Glass, Sealed AV room with self-closing door and sealed penetrations; room integrity (door fan) test at commissioning

3.7.4 Hall protection (G6, G7)

Parameter	**Minimum requirement**
Detectors	Smoke detectors, detection only
Extinguishers	5 kg CO_2 portable extinguishers

3.8 Automation, access control and CCTV

3.8.1 Building automation platform (H1)

Parameter	**Minimum requirement**
Protocols	BACnet/IP, Modbus TCP/RTU and SNMP
Integration	AC units, fresh-air unit, power meters, UPS units, generator and ATS, phase failure relays, sensors, fire panel and access control events
Interface	Web-based dashboard with alarms, trends and event log kept ≥ 1 year
Notification	Alarm notification by email and SMS
Automation	Load sequencing after mains failure, AC lead/standby rotation, fire and leak responses

3.8.2 Sensors (H2, H3)

Parameter	**Minimum requirement**
Temperature and humidity	Accuracy ±0.3°C and ±2% RH
Water leak	Spot or rope leak sensors with location reporting

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3.8.2 Access control (H4 to H7)

Parameter	Minimum requirement
Main door reader	Biometric reader with fingerprint, face and RFID card
Other readers	13.56 MHz RFID card readers
Door hardware	Fail-safe electromagnetic locks (≥ 600 lb), exit buttons, break-glass units and door contacts
Controller	Networked controller with event log, door-forced and door-held alarms, release on fire alarm

3.8.3 CCTV (H8 to H10)

Parameter	Minimum requirement
Cameras	IP fixed dome, ≥ 4 MP, H.265, WDR ≥ 120 dB, IR ≥ 30 m, PoE
Recorder	8-channel network video recorder, ≥ 30 days recording of all cameras at 4 MP, 15 fps
Network	8-port managed PoE switch on a separate security network

3.9 Dashboards and development team

3.9.1 Dashboards (I1)

The successful firm will depute a team of AI engineers to develop the following interactive dashboards as additional component for the PMD National Operations Centre. Team will start working from the date of the award of the contract until the completion of the project as per the quoted timelines. These dashboards will provide common picture from the relevant data sources, interfaces, images, graphs/charts and Geospatial maps. Most of the data, interfaces, maps, images, charts are already available over FTP, network share or via APIs. Primary objective is to sourcing and making available on single dashboards to ease out the control operations for the users. It is further clarified that establishing centralized repository or Date Warehouse is not in this scope. However, below mentioned requirements are primary and tentative, details will be shared during project implementation phase by the relevant custodian unit of the PMD.

No.	Dashboard	Requirements
1	Weather Situational Awareness / Common Operating Picture	National weather overview; live radar RADAR products; satellite imagery and loops ; Weather data, Pakistan Map with weather data ; lightning detection; current weather conditions; NWP model outputs; rainfall, temperature, wind, cloud-cover and pressure maps; multi-hazard situation overview. Any other information/products provided by NWFC.
2	Drought Monitoring Dashboard	SPI, SPEI, VHI and other drought indices; rainfall deficiency and anomalies; soil moisture; vegetation health (NDVI); drought severity; historical analysis; district-wise assessment and maps. Any other information/products provided by Drought Monitoring center.
3	Agriculture and Agrometeorological Dashboard	Crop-weather conditions; crop calendars; rainfall and temperature; soil moisture; evapotranspiration; crop stress; agricultural risk maps; weather-based advisories; Impact Based Forecast. Any other information/products provided by NAMC.
4	Weather Forecast and Early Warning	NWP outputs; rainfall, temperature, wind, humidity and cloud forecasts; hourly and extended-range forecasts; model comparison; forecast animations if any; official warnings and bulletins; district forecasts. Any other information/products provided by NWFC.
5	Flood Updates and Hydrometeorological Dashboard	River levels and discharge; gauging information; rainfall over catchments; flood forecasts; inundation maps; Flash Flood Guidance System (FFGS); GLOF early warning; Lai Nullah interface; vulnerable areas; historical flood information. Any other information/interfaces provided by Flood Forecasting division.
6	Drought and Heatwaves Dashboard	Heatwave monitoring; maximum and minimum temperatures; temperature anomalies; heatwave indices, duration and forecasts; drought and heat

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		stress; affected-area maps; warnings; historical trends. Any other information/products provided by Drought Monitoring center.
7	Cyclones and Marine Forecast Dashboard	Cyclone tracking, intensity and movement; satellite imagery; marine forecasts; sea conditions and wave heights; wind conditions; coastal warnings; storm-surge information; vulnerable coastal areas. Any other information/products provided by relevant units/wings.
8	Earthquake and Tsunami Dashboard	Earthquake location, fault lines, magnitude and depth; seismic maps and station status; event monitoring; tsunami monitoring and warnings; coastal vulnerability; historical events. Any other information/products provided by Seismic Monitoring center.
9	Climate Services and Updates Dashboard	Climate normals; temperature and rainfall trends; anomalies; seasonal outlooks; climate indices; climate-change indicators; historical analysis; sectoral climate services; climate reports . as provide by CDPC

3.9.2 Development Team (I2)

No.	Dashboard	Requirements
1	AI Engineer	Source data, develop and deploy the dashboards. Bachelor or Masters in CS/Engineering with at least 3 years of development experience of which at least 2 years in AI dev, Python. Expert in full stack development and DevOps. Posses strong problem solving and communication skills.
2	System Engineer	Responsible to resolve network access and data sourcing issues. Provide solutions for accessing data from private networks. Create development and production environment on the available compute. Bachelor or Masters in CS/Engineering with at least 3 years of Handling large networks including firewalls, access switches and security matters. Well versed in data sharing and sourcing.
3	Technical Associate	Bachelor in CS/IT/ Information systems or equivalent. Responsible to assist AI and system Engineer.

4. Interior fit-out (J)

4.1 Scope of Interior work

Supply, installation, testing and handover of all works listed in the (Annex I), in five Lots:

Each rate shall cover supply, labour, tools, scaffolding, transport, wastage, fixing materials (adhesive, grout, spacers, edge profiles, fasteners), taxes and duties. No item shall be left unpriced.

	Area	Main works
Lot 1	Control Room Hall	About 1,300 sft wood-texture tiling, gypsum ceiling, electrical and data points, WPC, wall cushioning, décor, aluminium and glass work, furniture, Glass entrance doors (outer and inner)
Lot 2	National Agromet Centre, lobby and corridor	Includes flooring, stair marble and railing, electrical and data, ceiling, WPC and vinyl, paint, furniture
Lot 3	Museum, lobby and corridor	Includes flooring, stair marble and railing, electrical and data, ceiling, WPC and vinyl, paint, showcases
Lot 4	Research and Development Wing, lobby and corridor	Includes flooring, stair marble and railing, electrical and data, ceiling, WPC and vinyl, paint
Lot 5	Washroom (adjacent to Control Room Hall, 3 restrooms)	One washroom next to the Control Room Hall (NOC) with three restrooms: demolition, masonry, waterproofing, wall and floor tiling, new doors, sanitary fixtures, PVC ceiling, lighting

4.2. Materials and workmanship

- All materials shall be new, of first quality and suited to the purpose. Bidders shall state the make and origin of each material offered.
- Samples of tiles, marble, WPC panels, vinyl, ceiling boards, light fittings, sanitary ware, furniture finishes and paint shades shall be submitted to PMD for approval before procurement. Approved samples will be retained for comparison.
- Work shall follow good practice and the manufacturers' instructions. Tiling shall be true to line and level with uniform joints.
- Electrical works shall follow the applicable Pakistan building and electrical codes. All circuits shall be tested and earthed, and distribution boards labelled.
- Furniture, décor and showcases shall follow layouts and shop drawings approved by PMD before manufacture.
- Protect existing finishes, equipment and furniture, and make good any damage at no cost;
- Control dust and noise, and work only in hours agreed with PMD;
- Remove debris daily to an approved disposal site;
- Follow site safety rules

5. Solution Submission and evaluation criteria

5.1 Minimum Eligibility and Qualification Requirements

Only the vendors fulfilling following conditions will be eligible for being evaluated under quantifiable bid evaluation criteria.

1. Valid registration/incorporation in Pakistan, **preferably** with entities like SECP
2. Valid NTN and applicable sales tax/professional tax registration; no material unresolved tax default.
3. Authorization letters from manufacturers for the quoted technologies.
4. Provide all the specifications of each component/module as required and also submit a compliance sheet in Annex-I.

No	Requirement	Minimum evidence / condition	Marks Distribution
1	Similar projects	Completed projects, Control room, operation centers, Visualization walls and dashboards of similar nature. Documented proof is required. >=3 projects >=2 >=1 <1	 15 10 5 0
2	Video Walls solution, Controller and Management software	Full compliance Partial compliance Non compliance	15 5 0
3	Video Conferencing	Compliance Non-compliance	5 0
4	Supervisor and user workstations	Compliance Non-compliance	5 0
5	Power, UPS, battery bank and ATS	Compliance Non-compliance	5 0
6	HVAC	Compliance Non-compliance	5 0
7	Fire detection and suppression	Compliance Non-compliance	5 0

8	Automation, access control and CCTV	Compliance Non-compliance	5 0
9	Dashboards and development team	Compliance Non-compliance	10 0
10	Interior fit-out	Compliance Partial Compliance Non-compliance	10 5 0
11	Project Implementation team	Team explicitly mentioning the role of each resource, CVs of all the team members. Compliance Non-compliance	 5 0
12	Deliverables, FAT, SAT, UAT and timelines.	Compliance Non-compliance	5 0
13	Customers feedback	Positive Neutral Negative	10 5 0
		Passing Marks 70/100	

5.2 Required Submissions

- Letter of Application / Bidder Information (Mandatory)
- Similar Project Experience, including control center, power, cooling, fire safety solutions. Only the relevant projects will be considered for marking. Client's feedback will be required. (Mandatory)
- Project implementation team and CVs Summary (Mandatory)
- Dashboards Dev Team and CV Summary (Mandatory)
- Compliance of the Annex-I, Explicitly state Yes/No against each item (Mandatory and most important)
- Tentative Dashboards Layouts (Optional)
- Implementation Schedule, deliverables with complete timelines and Gantt chart (Mandatory)
- Warranty, SLA and Support Commitment (Mandatory)
- Manufacturer / Technology Authorizations. (Mandatory)
- Valid documents in case of joint venture or consortium. (Mandatory)

Compliance Sheet

A. COB LED video wall

No.	Item	Specification	Unit	Qty	Remarks
A1	COB LED screen, front	P1.25 COB 1R1G1B, 600 nits, 7680 Hz, 10,000:1, 170°/160°, front maintenance	m²	17.01	7.20 x 2.36 m (23.62 x 7.75 ft), 5760 x 1890 px
A2	COB LED screen, left wing	As A1	m²	7.09	3.00 x 2.36 m (9.84 x 7.75 ft), 2400 x 1890 px
A3	COB LED screen, right wing	As A1	m²	7.09	As A2
A4	Spare modules	As A1, same production batch	Lot	1	Not less than 5% of installed modules
A5	Receiving cards with HUB boards	Matched to the offered cabinets and the LED processor (A6)	Lot	1	As needed for the three screens, plus not less than 4% spare
A6	LED video wall processor (all three screens)	Modular LED video wall processor, not less than 15 input and 5 output card slots, not less than 52 MP loading, dual power supplies; with 4 x HDMI 2.0 (4K60) input cards	No.	1	One canvas for the front and both wings (19.96 MP); 4 inputs from the output card (B2); 11 input and 2 output slots free for expansion
A7	Sending cards for A6	16 x Gigabit Ethernet + 2 fibre ports per card, up to 10.4 MP per card, Ethernet port backup	No.	3	All 3 of the same model, so the front and both wings run as one screen; about 31 of 48 ports used (front 17, each wing 7), spare ports for backup and expansion
A8	LED power supplies	5 V module power supplies matched to the offered cabinets	Lot	1	As needed for the three screens, plus not less than 4% spare
A9	COB LED cabinets	Die-cast aluminium, front maintenance, whole cabinets only (no cut or partial cabinets)	Lot	1	For the front screen and both wings
A10	Cabinet frames and mounting structure	Steel frame for the front screen and two wing frames, with corner joint frames	Set	3	Front 1 ft above floor; wings at about 42.8° facing the executive seating
A11	Power, data and hub cabling	Module cables, hub boards, distribution to the screen UPS units	Lot	1	
A12	Installation, calibration and commissioning	Including colour and brightness calibration across all three screens	Lot	1	

B. Video wall control

No.	Item	Specification	Unit	Qty	Remarks

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B1	Video wall controller	Modular 4U industrial chassis, PCIe Gen 3 switched backplane, not less than 11 card slots, redundant power supplies	No.	1	
B2	Output card	4 x HDMI 2.0 (4K60) outputs per card	No.	1	4 outputs to the LED processor (A6): 2 for the front screen, 1 per wing; a second card is recommended for 2 spare outputs
B3	Capture cards	4 HDMI inputs per card	No.	3	12 inputs: 8 workstations, 1 conferencing PC, 1 wireless media presenter (B9), 2 spare
B4	Wall management software	Video wall management software, professional level: multi-wall, user rights, unlimited IP decoding, with web-browser control, all configurations and layouts preparation as per the required use cases.	Licence and job	1	Layout presets for the 30 dashboards/interfaces
B5	IP stream encode / decode card	H.264 / H.265 encode and decode, 2 x Gigabit Ethernet, fitted in the controller (B1)	No.	1	IP streams from web and outside sources onto the wall; encoding of wall sources
B6	AV-over-IP link to the Executive Block Conference room	4K AV-over-IP transmitter and receiver over 10G fibre, about 100 m OM3/OM4 multi-mode fibre with 850 nm 10G SFP+ modules, managed 10 GbE switch at each end	Set	1	Transmitter in the NOC AV room, receiver at the Briefing Hall display; switches allow more endpoints later
B7	Signal cabling	Desk-to-AV room 4K video (AOC HDMI for runs over 10 m), Premium Certified HDMI in the rack, shielded Cat6 LED data, Cat6 network, OM3/OM4 fibre where needed; LSZH, labelled and tested	Lot	1	Includes containment, test reports and 2 spare Cat6 runs per desk
B8	AV rack	42U 19-inch floor-standing rack, 800 mm wide x 1000 mm deep, perforated doors, fans, cable management, earthing; power through the power sequencer (E7)	No.	1	Glass AV room; about 27U equipment plus air gaps around the controller and LED processor, about 11U free for expansion
B9	Wireless media presenter	Native AirPlay / Miracast / Chromecast mirroring, HDMI and USB-C dongles (2 supplied), 1080p60 input, HDMI 2.0 output, 4-way split screen, line audio out, dual network, AES / RSA, moderator mode, Gigabit LAN, PoE, RS-232	No.	1	Supervisor PC and visitor devices to the video wall (via B3) and the room sound system (via C6)
B10.1	Network Switch (POE)	2x1G SFP, 24 Ports POE access switch,	NO	1	All workstations will have access to the Local Intranet and cloud using this gateway. Users will have Wifi access through WAP.
B10.2	Network Switch Ethernet	2x1G SFP, 24 Ports Gigabit Ethernet access switch,	NO	1	
B10.3	WAP	Wireless Access point, POE, 50 Users	NO	2	Users will have Wifi access through WAP
B10.4	Installation, configuration of Access switches and WAP		Lot	1	

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B11	Incident Management and Ticketing system	Installation configuration, testing and making its dashboard live feed on video wall.	lot	1	All incidents will be reported through this system for timely resolution.
B12	Documentary	A short high quality customized panoramic video documentary about PMDNOC functions	no	1	

C. Video conferencing (executive seating)

No.	Item	Specification	Unit	Qty	Remarks
C1	PTZ conferencing camera	4K, 20x optical zoom, USB 3.0 / HDMI / IP output, presets, compatible with the conferencing software	No.	1	Centred above or below the front screen, facing the executive seating
C2	Camera bracket and cabling	Wall or ceiling bracket, USB extender or IP run to the conferencing PC	Set	1	
C3	Executive speakerphones	USB / Bluetooth conference speakerphone, 360° pickup, daisy-chain linkable, compatible with the conferencing software	No.	3	One per 3 executive chairs, linked as one audio zone
C4	Conferencing PC	Runs the video conferencing client; output to the video wall	No.	1	
C5	Conference microphones	Cardioid gooseneck or boundary microphones, XLR, phantom-powered, mute switch, with cabling to the mixer (C6)	No.	4	Executive seating arc
C6	Room sound system (media and VC)	Active 2-way column array systems with subwoofer base, ≥ 40 Hz-20 kHz, ≥ 125 dB max SPL, ≥ 700 W RMS; one unit with integrated ≥ 8-channel digital mixer (4 mic with phantom, 2 stereo line, Bluetooth, USB), second unit fed from it; with covers	Pair	1	Left and right, beside the wing screens; media playback and VC audio
C7	VC audio interface and cabling	Balanced USB audio interface (≥ 2 in / 2 out) between the mixer (C6) and the conferencing PC (C4) for echo cancellation, or AEC DSP; shielded balanced audio cabling, DI boxes, dedicated UPS sockets	Set	1	Sources: supervisor PC, wireless presenter (B9), conferencing PC and microphones

D. Operator and supervisor workstations

No.	Item	Specification	Unit	Qty	Remarks
D1	Workstation PC	Small form factor, current-generation 8-core (or more) desktop processor, boost not less than 4.5 GHz, 32 GB RAM, 1 TB NVMe SSD, Windows 11 Pro, Gigabit LAN	No.	8	4 desks x 2 seats
D2	Graphics card	Low-profile professional GPU, not less than 8 GB memory, 4 x DisplayPort outputs	No.	8	2 desk monitors, 1 video wall feed, 1 spare

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D3	Desk monitors	22 in LED, 1920 x 1080, IPS, VESA mount, HDMI / DP	No.	16	2 per seat
D4	Dual monitor arms	Desk-clamp, VESA 75/100	No.	8	
D5	Keyboard and mouse sets	Wired or wireless	Set	8	

E. Power and UPS

Each screen has its own UPS and the IT equipment has a separate UPS. All UPS units are in the glass AV room.

No.	Item	Specification	Unit	Qty	Remarks
E1	UPS	30 kVA, with 30 minutes backup, supply to IT, center screen and lights etc.	No.	1	Front screen
E4.1	Main distribution board, MDB-NOC (ground floor, R&D Wing)	160 A 4P incoming from E9 and from the generator ATS (E5), Type 1+2 SPD, phase failure relay, multifunction meter, 160 A 4P riser outgoing plus 2 spare ways	No.	1	Vendor shall supply new panels sized to the available space and requirement, after site survey with the PMD Electrical team
E4.2	Riser feeder, MDB to SMDB	4-core 95 mm² copper, XLPE / SWA / PVC, 0.6/1 kV (IEC 60502-1), on cable tray, with glands and lugs	m	20	Ground floor to the NOC on the first floor; length to be verified at site survey
E4.3	Sub-main distribution board, SMDB-NOC (glass AV room)	160 A 4P incoming, Type 2 SPD, multifunction meter, outgoing feeders to E4.4 to E4.7 plus spare ways	No.	1	
E4.4	Distribution board, DB-UPS	Input breakers for the front screen, and IT UPS units, lights (E1 to E3)	No.	1	UPS outputs feed the LED power distribution panels (E8) and DB-IT
E4.5	Distribution board, DB-IT (UPS-backed)	16 A RCBO circuits for workstations, AV rack (E7), network and CCTV, room sound system (C6) and wireless presenter (B9)	No.	1	Fed from the IT UPS (E3)
E4.6	Distribution board, DB-HVAC	Circuits for 6 AC units and the fresh-air unit (F1, F2)	No.	1	
E4.7	Distribution board, DB-Lighting / Power	Lighting and general socket circuits, 30 mA RCBOs	No.	1	Near the hall entrance
E5	Standby generator with automatic transfer switch	Diesel, 65 kVA prime, with stepped load connection	No.	1	Sized for future expansion
E6	Power meters	Multifunction meters on screen, IT, HVAC and lighting feeders, Modbus	No.	6	Linked to the automation system
E7	Power sequencers, AV rack	8-channel, 1U rack-mount, programmable on/off delay per channel, RS-232 / RS-485 / TCP-IP control, cascadable	No.	3	AV rack: 2 cascaded as one sequence (A and B feeds for dual-PSU equipment), 1 full backup; covers conferencing and wireless media equipment and expansion; fed from the IT UPS

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E8	LED power distribution panels	IEC 61439 wall-mounted panel, IP42: incoming isolator and breaker, per-circuit MCBs (max 6 module PSUs per circuit), contactors switched in sequence by timer relays, Type 2 SPD, Type A RCD per group, meter, emergency stop, remote on/off and status to the automation system (Modbus or volt-free contacts)	No.	3	One per screen (front, left wing, right wing), fed from the matching screen UPS; handles PSU inrush
E9	Main incoming power cable	4-core 95 mm² copper, XLPE / SWA / PVC, 0.6/1 kV (IEC 60502-1), 160 A MCCB at the source end, glands, lugs and terminations; buried on sand bed with brick cover and warning tape, HDPE / GI duct at road crossings and building entries	m	170	IESCO transformer to the NOC primary distribution panels (ground floor, R&D Wing): 160 m measured route + allowance; one continuous length; voltage drop not more than 3%
E10	Earthing system, NOC	New dedicated earth pits (2, interconnected through a test link), copper-bonded steel earth rods with earth-enhancing compound, inspection chambers; earth resistance not more than 1 Ω; 1-core 50 mm² copper PVC-insulated earth conductor from the pits to the main earth bar in the NOC primary distribution panels, and on to the AV room earth bar	Lot	1	Separate from the incoming power cable (E9). The successful vendor shall survey the building surroundings with the PMD Electrical team to select the most suitable pit location; earth conductor length follows from it

F. HVAC and fresh air

No.	Item	Specification	Unit	Qty	Remarks
F1	Ceiling-mounted AC units	2-ton, horizontal discharge, inverter, controller interface to the automation system	No.	6	5 duty + 1 standby; covers COB screens, people, IT, UPS and the south wall
F2	Fresh-air unit	Pre-filter, bag filter, optional UV-C, HEPA, AHU, heat-recovery exchanger, humidity control	No.	1	
F3	Ducting, drains and installation		Lot	1	

G. Fire detection and suppression

A clean-agent (HFC-227ea) system protects the glass AV room. The rest of the hall has detection and portable extinguishers.

No.	Item	Specification	Unit	Qty	Remarks
G1	Clean-agent (HFC-227ea) system, glass AV room	Cylinder, agent, nozzle and pipework, to NFPA 2001 / ISO 14520	Set	1	Room 12 x 10 x 11 ft; about 21 kg agent at 7% design concentration
G2	Smoke detectors, AV room	Cross-zoned for release	No.	2	
G3	Release controls	Abort switch, manual release, hooter and strobe, discharge sign	Set	1	

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G4	Fire alarm control panel	Linked to the automation system	No.	1	
G5	Room integrity works	Sealed glass room, self-closing door, sealed cable entries, pressure relief vent if required	Lot	1	
G6	Smoke detectors, hall	Detection only	No.	4	
G7	Portable CO_2 extinguishers	5 kg, for electrical fires	No.	2	Hall

H. Automation, access control and CCTV

No.	Item	Specification	Unit	Qty	Remarks
H1	Building automation platform	Open-protocol building management system (BACnet, Modbus, SNMP) with dashboard	Lot	1	AC units, fresh air, power meters, UPS, generator and ATS, sensors, fire panel, access events
H2	Temperature and humidity sensors	Hall and AV room	No.	5	4 hall, 1 AV room
H3	Water-leak sensors	Spot or rope sensors	No.	7	Under AC units and in the AV room
H4	Biometric reader	Fingerprint / face with RFID	No.	1	NOC main door
H5	RFID readers		No.	2	AV room door and other entries
H6	Door hardware	Electromagnetic locks, exit buttons, break-glass units, door contacts	Set	2	Doors release on fire alarm
H7	Access controller and software	Networked, events to the automation system	No.	1	
H8	IP cameras	Fixed dome, 4 MP	No.	6	4 hall corners, 1 main door, 1 AV room
H9	Network video recorder	8-channel, 30 days storage	No.	1	Separate security network
H10	PoE switch	8-port, security network	No.	1	

I. Dashboards, Development Team and resident Engineers

No.	Item	Specification	Unit	Qty	Remarks
I1	Dashboards	Sourcing data and development of dashboards	Lot	1	
I2	Development Team	SRS, build, ETL, backend, front end, AI etc. Deployments	Lot	1	
I3	Support Engineers	Two Support (resident) engineers for the period of one year after the completion of project.	Lot	1	

J. Trainings

No.	Item	Specification	Unit	Qty	Remarks

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I1	Comprehensive trainings	Comprehensive trainings on each component/module of the project.	Lot	1	

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K. Interior Fit-out

LOT 1. Operation Center Hall

Sr.	Description of work	Unit	Qty
1	**Dismantling and demolition works**		
1.1	Dismantling of existing floor tiles, including bedding, without damage to the structural slab	SFT	1270
1.2	Removal of existing skirting	RFT	185
1.3	Removal of existing wall plaster	SFT	
1.4	Removal of existing electrical fixtures	LS	1
1.5	Collection, loading and disposal of debris to an approved disposal site	LS	1
2	**Civil and masonry works**		
2.1	Floor levelling in PCC	SFT	1270
2.2	Wall chasing and grooves for MEP services / electrical conduits, including making good	LS	1
3	**Electrical and data works**		
3.1	Electrical conduit installation, concealed, with boxes and accessories	LS	1
3.2	Copper electrical wire 7/.044 (approx. 6 mm²), PVC insulated	Coil (90 m)	3
3.3	Copper electrical wire 7/.029 (approx. 2.5 mm²), PVC insulated	Coil (90 m)	6
3.4	Copper electrical wire 3/.029 (approx. 1.5 mm²), PVC insulated	Coil (90 m)	8
3.5	Switch boxes, installation	Nos	12
3.6	Switchboards (2+6), supply and installation	Nos	12
3.7	Light points, complete	Nos	12
3.8	Power socket points, complete	Nos	12
3.9	AC power points, complete	Nos	6
3.10	Data (internet) points, Cat6, complete with face plate and keystone	Nos	6
3.11	Cat6 data cable, laid in conduit	RFT	175
3.12	LED strip lighting in aluminium profile, with driver	RFT	400
3.13	Testing and commissioning of electrical works, with test report	LS	1
4	**Floor, wall tiles and marble works**		
4.1	Wood-texture plank floor tiles (4 x 48), supply and installation (tile, bond, spacers, labour, grout)	SFT	1300
4.2	Tile skirting, supply and installation	RFT	170
5	**Ceiling works**		
5.1	Gypsum board false ceiling on GI framework, with joint tape and compound, surface preparation, primer and paint	SFT	1300
5.2	Ceiling bulkhead / drop ceiling	RFT	

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6	**Wall finishes and decorative works**		
6.1	WPC wall panels, supply and installation	SFT	575
6.2	Wall décor art, with border light, adapter etc.	SFT	150
6.3	Wall cushioning (fabric upholstered panels)	SFT	280
7	**Carpentry, and furniture**		
7.1	Aluminium and glass work	SFT	120
7.2	Custom conference table: warm wood veneer; matte black / charcoal base, matte finish	No	6
7.3	Executive conference chair: textured fabric upholstery with black base	No	15
7.4	Operator workstation desks: light warm wood / off-white worktop with matte finish. Each desk for seating of two.	No	4
7.5	Operator task chair: black / charcoal mesh or fabric	No	9
8	**Glass cubical and Entrance doors**		
8.1	Glass cubical in corner for IT rack and 1 seating.	Lot	1
8.2	Workstation for 1 seating as per 7.4	No	1
8.3	Glass Entrance doors, Outer and inner as per the requirement. All the related items and installation.	No	2
9	**Final cleaning and handover**		
9.1	Final cleaning of renovated area, inspection and handover	LS	1

LOT 2. National Agromet Center

Sr.	Description of work	Unit	Qty
1	**Floor works and dismantling**		
1.1	Minor grinding and polishing of the floor and skirting. Repair of the floor where required.	LS	1
1.3	Dismantling of existing stair marble and railing	RFT	250
1.4	Removal of existing electrical fixtures	LS	1
1.5	Collection, loading and disposal of debris to an approved disposal site	LS	1
2	**Civil and masonry works**		
2.1	Cement-sand plaster to walls, including curing	LS	1
2.2	Floor levelling in PCC	LS	1
3	**Electrical and data works**		
3.1	Electrical conduit installation, concealed, with boxes and accessories	LS	1
3.2	Copper electrical wire 7/.029 (approx. 2.5 mm²), PVC insulated	Coil (90 m)	3
3.3	Copper electrical wire 3/.029 (approx. 1.5 mm²), PVC insulated	Coil (90 m)	6
3.4	Switch boxes, installation	Nos	8
3.5	Switchboards (2+6), supply and installation	Nos	8
3.6	Light points, complete	Nos	6
3.7	Power socket points, complete	Nos	3
3.8	AC power points, complete	Nos	1
3.9	Data (internet) points, Cat6, complete with face plate and keystone	Nos	1
3.10	Cat6 data cable, laid in conduit	RFT	80
3.11	SMD LED downlights, 7 W	Nos	40

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3.12	LED spotlights	Nos	6
3.13	LED strip lighting in aluminium profile, with driver	RFT	200
3.14	Bracket fan, supply and installation	Nos	4
3.15	Circuit breakers and accessories	Nos	6
3.16	Main MCCB, 100 A	Nos	1
3.17	Testing and commissioning of electrical works, with test report	LS	1
4	**Floor, wall tiles and marble works**		
4.3	Marble stair treads, approx. 22 mm (7 soot), other than black granite	SFT	120
4.4	Marble stair risers	SFT	120
4.5	Marble door thresholds	RFT	24
4.6	Stair railing, supply and installation	RFT	120
5	**Ceiling works**		
5.1	Gypsum board false ceiling on GI framework, with joint tape and compound, surface preparation, primer and paint	SFT	1000
	Ceiling bulkhead / drop ceiling	RFT	
6	**Wall finishes and decorative works**		
6.1	WPC wall panels, supply and installation	SFT	120
6.2	Vinyl sticker, supply and installation	SFT	200
6.3	Backlit glass panels, with customized maps, charts, text etc.	SFT	100
7	**Paint and polishing works**		
7.1	Wall paint (SPD), surface preparation, putty, primer and two coats	SFT	2220
7.3	Enamel paint on wood / metal (including doors)	SFT	120
8	**Carpentry, joinery and furniture**		
8.1	Sofa set with table	Set	1
8.2	Artificial planters	Nos	13
10	**Digital Standees**		
10.1	Indoor, commercial LCD, 55", 4k, 350-500 nits, 4/32 GB, Wifi/LAN/USB. 24/7. Controllable through the operation center workstation. All concealed wiring for power and connectivity. One standee for each floor.	No	3
11	**Acrylic Wording**		
	Supply and installation of decorative 3D acrylic wording (10 words), fabricated from minimum 5 mm thick high-quality cast acrylic sheets, laser-cut to approved font, size and design, with polished edges, suitable colour/finish, concealed mounting arrangement, spacers, adhesives and all necessary accessories. Letters shall be accurately aligned and installed on the designated wall surface. Inclusive of LED modules, power supply, wiring and concealed electrical connections. PMD will approve the words	LS	1
9	**Final cleaning and handover**		
9.1	Final cleaning of renovated area, inspection and handover	LS	1

LOT 3. Executive block floor, Museum

Sr.	Description of work	Unit	Qty

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1	**Floor works and dismantling**		
1.1	Minor grinding and polishing of the floor and skirting. Repair of the floor where required.	LS	1
1.2	Removal of existing skirting	RFT	200
1.3	Dismantling of existing stair marble and railing	RFT	250
1.4	Removal of existing electrical fixtures	LS	1
1.5	Collection, loading and disposal of debris to an approved disposal site	LS	1
2	**Civil and masonry works**		
2.1	Cement-sand plaster to walls, including curing	LS	1
2.2	Floor levelling in PCC	LS	1
3	**Electrical and data works**		
3.1	Electrical conduit installation, concealed, with boxes and accessories	LS	1
3.2	Copper electrical wire 7/.029 (approx. 2.5 mm²), PVC insulated	Coil (90 m)	4
3.3	Copper electrical wire 3/.029 (approx. 1.5 mm²), PVC insulated	Coil (90 m)	8
3.4	Switch boxes, installation	Nos	12
3.5	Switchboards (2+6), supply and installation	Nos	8
3.6	Light points, complete	Nos	8
3.7	Power socket points, complete	Nos	6
3.8	AC power points, complete	Nos	2
3.9	Data (internet) points, Cat6, complete with face plate and keystone	Nos	2
3.10	Cat6 data cable, laid in conduit	RFT	120
3.11	SMD LED downlights, 7 W	Nos	60
3.12	LED spotlights	Nos	6
3.13	LED strip lighting in aluminium profile, with driver	RFT	250
3.14	Bracket fan, supply and installation	Nos	4
3.15	Circuit breakers and accessories	Nos	6
3.16	Main MCCB, 100 A	Nos	1
3.17	Testing and commissioning of electrical works, with test report	LS	1
5	**Floor, wall tiles and marble works**		
5.3	Marble stair treads, approx. 22 mm (7 soot), other than black granite	SFT	120
5.4	Marble stair risers	SFT	120
5.5	Marble door thresholds	RFT	24
5.6	Stair railing, supply and installation	RFT	120
6	**Ceiling works**		
6.1	Gypsum board false ceiling on GI framework, with joint tape and compound, surface preparation, primer and paint	SFT	1000
	Ceiling bulkhead / drop ceiling	RFT	
7	**Wall finishes and decorative works**		

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7.1	WPC wall panels, supply and installation	SFT	120
7.2	Vinyl sticker, supply and installation	SFT	400
7.3	Backlit glass panels, with customized maps, charts, text etc.	SFT	100
8	**Paint and polishing works**		
8.1	Wall paint (SPD), surface preparation, putty, primer and two coats	SFT	2220
8.3	Enamel paint on wood / metal (including doors)	SFT	120
9	**Carpentry, joinery, furniture and self-service Kiosk**		
9.1	Display showcases for the artifacts, manufacture and installation	Nos	3
9.2	Artificial planters	Nos	13
9.3	Interactive Touchscreen Information Kiosk for self-service access to detailed information, historical records, images, and educational content about meteorological and geophysical artifacts. PMD will provide the detailed information. Vendor needs to customize the Kiosk for self-service system.	Nos	1
10	**Final cleaning and handover**		
10.1	Final cleaning of renovated area, inspection and handover	LS	1

LOT 4. R&D Wing floor

Sr.	Description of work	Unit	Qty
1	**Floor works and dismantling**		
1.1	Minor grinding and polishing of the floor and skirting. Repair of floor and skirting where required.	LS	1
1.3	Dismantling of existing stair marble and railing	RFT	250
1.4	Removal of existing electrical fixtures	LS	1
1.5	Collection, loading and disposal of debris to an approved disposal site	LS	1
2	**Civil and masonry works**		
2.1	Cement-sand plaster to walls, including curing	LS	1
2.2	Floor levelling in PCC	LS	1
3	**Electrical and data works**		
3.1	Electrical conduit installation, concealed, with boxes and accessories	LS	1
3.2	Copper electrical wire 7/.029 (approx. 2.5 mm²), PVC insulated	Coil (90 m)	4
3.3	Copper electrical wire 3/.029 (approx. 1.5 mm²), PVC insulated	Coil (90 m)	8
3.4	Switch boxes, installation	Nos	12
3.5	Switchboards (2+6), supply and installation	Nos	8
3.6	Light points, complete	Nos	8
3.7	Power socket points, complete	Nos	6
3.8	AC power points, complete	Nos	2
3.9	Data (internet) points, Cat6, complete with face plate and keystone	Nos	2
3.10	Cat6 data cable, laid in conduit	RFT	120
3.11	SMD LED downlights, 7 W	Nos	60

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3.12	LED spotlights	Nos	6
3.13	LED strip lighting in aluminium profile, with driver	RFT	250
3.14	Bracket fan, supply and installation	Nos	4
3.15	Circuit breakers and accessories	Nos	6
3.16	Main MCCB, 100 A	Nos	1
3.17	Testing and commissioning of electrical works, with test report	LS	1
5	**Floor, wall tiles and marble works**		
5.3	Marble stair treads, approx. 22 mm (7 soot), other than black granite	SFT	120
5.4	Marble stair risers	SFT	120
5.5	Marble door thresholds	RFT	24
5.6	Stair railing, supply and installation	RFT	120
6	**Ceiling works**		
6.1	Gypsum board false ceiling on GI framework, with joint tape and compound, surface preparation, primer and paint	SFT	1000
	Ceiling bulkhead / drop ceiling	RFT	
7	**Wall finishes and decorative works**		
7.1	WPC wall panels, supply and installation	SFT	180
7.2	Vinyl sticker, supply and installation	SFT	375
7.3	Backlit glass panels, with customized maps, charts, text etc.	SFT	100
7.4	Conceal the area below stairs, with wooden partition, doors, etc. matching with the overall theme and layout of the floor.		
8	**Paint and polishing works**		
8.1	Wall paint (SPD), surface preparation, putty, primer and two coats	SFT	2530
8.3	Enamel paint on wood / metal (including doors)	SFT	120
9	**Carpentry, joinery and furniture**		
9.1	Artificial planters	Nos	12
10	**Final cleaning and handover**		
10.1	Final cleaning of renovated area, inspection and handover	LS	1

LOT 5. Washroom

Sr.	Description of work	Unit	Qty
1	**Dismantling and demolition works**		
1.1	Dismantling of existing floor tiles, including bedding, without damage to the structural slab	SFT	240
1.2	Dismantling of existing wall tiles, including bedding	SFT	350
1.3	Removal of existing doors and frames	Nos	3
1.4	Dismantling of existing sanitary and plumbing fixtures	Set	3
1.5	Dismantling of unwanted masonry walls	SFT	250
1.6	Removal of existing electrical fixtures	LS	1

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1.7	Collection, loading and disposal of debris to an approved disposal site	LS	1
	Subtotal, section 1: Dismantling and demolition works		
2	**Civil and masonry works**		
2.1	Brick masonry work in cement-sand mortar	SFT	250
2.2	Cement-sand plaster to walls, including curing	SFT	250
2.3	Floor levelling in PCC	SFT	250
2.4	Waterproofing of bathroom floor and walls with membrane sheet	SFT	200
2.5	Door frames, supply and installation	Nos	3
2.6	Wall chasing and grooves for MEP services / electrical conduits, including making good	LS	1
2.7	New doors (shutters), supply and installation on the new frames	Nos	3
3	**Electrical and data works**		
3.1	Copper electrical wire 7/.029 (approx. 2.5 mm²), PVC insulated	Coil (90 m)	
3.2	Copper electrical wire 3/.029 (approx. 1.5 mm²), PVC insulated	Coil (90 m)	
3.3	Switchboards (2+6), supply and installation	Nos	2
3.4	SMD LED downlights, 7 W	Nos	14
3.5	LED strip lighting in aluminium profile, with driver	RFT	60
3.6	Exhaust fan, supply and installation	Nos	1
3.7	Circuit breakers and accessories	Nos	1
3.8	Testing and commissioning of electrical works, with test report	LS	1
4	**Plumbing and sanitary works**		
4.1	WC / commode, supply and installation	Nos	3
4.2	Vanity, supply and installation	Nos	3
4.3	Mixer, supply and installation	Nos	3
4.4	Health faucet (Muslim shower) with tap, supply and installation	Nos	3
4.5	Floor drain, supply and installation	Nos	4
4.6	Plumbing connections and accessories	Set	3
4.7	Instant electric water geyser, supply and installation	Nos	1
4.8	Automatic hand dryer, supply and installation	Nos	3
4.9	Full-size mirror, supply and installation	SFT	20
4.10	Washroom accessories (towel rods, holders), supply and installation	Set	
5	**Floor, wall tiles and marble works**		
5.1	Bathroom floor and wall tiles, supply and installation (tile, bond, spacers, labour, grout)	SFT	1100
5.2	Black granite vanity top	SFT	40
6	**Ceiling works**		
6.1	Gypsum board false ceiling on GI framework, with joint tape and compound, surface preparation, primer and paint	SFT	250

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	Ceiling bulkhead / drop ceiling	RFT	
7	**Paint and polishing works**		
7.1	Enamel paint on wood / metal (including doors)	SFT	60
8	**Carpentry, joinery and furniture**		
8.1	Door locks and handles, supply and installation	Set	3
8.2	Door closer, supply and installation	Nos	1
9	**Final cleaning and handover**		
9.1	Final cleaning of renovated area, inspection and handover	LS	1

PUBLIC PROCUREMENT REGULATORY AUTHORITY (PPRA) EPADS

Terms & Conditions:

1. **Earnest money/ Bid Security** Three (03) million rupees in the shape of Bank Draft/Pay order / Bank Guarantee in favour of D.G PMD must be submitted with the offer.
2. Bidders must submit copies of their registration of Sales Tax and Income Tax and authorized dealership certificate.
3. Eligibility Criteria: Participating firm must be, fully experienced and registered with Govt. Authorities (FBR etc.).
4. **BID VALIDITY**: Bids shall remain valid for a period of at least **120 days** after the date of opening of financial proposals.
   In exceptional circumstances, prior to expiry of the original bid validity period, the Buyer may request that the bidders extend the period of validity for a specified additional period. The request and the responses there to shall be made in writing or by electronic mode. A bidder will not be required or permitted to modify its bid, but will be required to extend the validity of its bid security for the period of the extension.
5. All bidders are advised to comply strictly with the document specifications/ terms & conditions and no deviation shall be allowed.
6. **Prices must be quoted in Pak Rupees only including all applicable Govt. of Pakistan taxes & GST**.
7. The last date for the submission of tender is 25th November, 2026 at 10.30 Hours and will be opened on the same day at 1100 hours.
8. The quantity of the items can be increased/ decreased.
9. The Procuring Agency reserves the right to cancel the bidding process at any stage without assigning any reason.
10. Taxes will be deducted as per Government rules.
11. Any bid found in deviation / violation / without earnest money would liable to be rejected.

1. Bidding documents having detailed specifications are available free of cost at the website https://weather.gov.pk, PPRA EPADS https://pa.epads.gov.pk as well as https://epms.ppra.gov.pk.

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LOT 1. Operation Center Hall

Sr.	Description of work	Unit	Qty	Price With All Taxes
1	**Dismantling and demolition works**			
1.1	Dismantling of existing floor tiles, including bedding, without damage to the structural slab	SFT	1270	
1.2	Removal of existing skirting	RFT	185	
1.3	Removal of existing wall plaster	SFT		
1.4	Removal of existing electrical fixtures	LS	1	
1.5	Collection, loading and disposal of debris to an approved disposal site	LS	1	
2	**Civil and masonry works**			
2.1	Floor levelling in PCC	SFT	1270	
2.2	Wall chasing and grooves for MEP services / electrical conduits, including making good	LS	1	
3	**Electrical and data works**			
3.1	Electrical conduit installation, concealed, with boxes and accessories	LS	1	
3.2	Copper electrical wire 7/.044 (approx. 6 mm²), PVC insulated	Coil (90 m)	3	
3.3	Copper electrical wire 7/.029 (approx. 2.5 mm²), PVC insulated	Coil (90 m)	6	
3.4	Copper electrical wire 3/.029 (approx. 1.5 mm²), PVC insulated	Coil (90 m)	8	
3.5	Switch boxes, installation	Nos	12	
3.6	Switchboards (2+6), supply and installation	Nos	12	
3.7	Light points, complete	Nos	12	
3.8	Power socket points, complete	Nos	12	
3.9	AC power points, complete	Nos	6	
3.10	Data (internet) points, Cat6, complete with face plate and keystone	Nos	6	
3.11	Cat6 data cable, laid in conduit	RFT	175	
3.12	LED strip lighting in aluminium profile, with driver	RFT	400	
3.13	Testing and commissioning of electrical works, with test report	LS	1	
4	**Floor, wall tiles and marble works**			
4.1	Wood-texture plank floor tiles (4 x 48), supply and installation (tile, bond, spacers, labour, grout)	SFT	1300	
4.2	Tile skirting, supply and installation	RFT	170	
5	**Ceiling works**			
5.1	Gypsum board false ceiling on GI framework, with joint tape and compound, surface preparation, primer and paint	SFT	1300	
5.2	Ceiling bulkhead / drop ceiling	RFT		

6	**Wall finishes and decorative works**			
6.1	WPC wall panels, supply and installation	SFT	575	
6.2	Wall décor art, with border light, adapter etc.	SFT	150	
6.3	Wall cushioning (fabric upholstered panels)	SFT	280	
7	**Carpentry, and furniture**			
7.1	Aluminium and glass work	SFT	120	
7.2	Custom conference table: warm wood veneer; matte black / charcoal base, matte finish	No	6	
7.3	Executive conference chair: textured fabric upholstery with black base	No	15	
7.4	Operator workstation desks: light warm wood / off-white worktop with matte finish. Each desk for seating of two.	No	4	
7.5	Operator task chair: black / charcoal mesh or fabric	No	9	
8	**Glass cubical and Entrance doors**			
8.1	Glass cubical in corner for IT rack and 1 seating.	Lot	1	
8.2	Workstation for 1 seating as per 7.4	No	1	
8.3	Glass Entrance doors, Outer and inner as per the requirement. All the related items and installation.	No	2	
9	**Final cleaning and handover**			
9.1	Final cleaning of renovated area, inspection and handover	LS	1	
Total (LOT-1)				

LOT 2. National Agromet Center

Sr.	Description of work	Unit	Qty	Price With All Taxes
1	**Floor works and dismantling**			
1.1	Minor grinding and polishing of the floor and skirting. Repair of the floor where required.	LS	1	
1.3	Dismantling of existing stair marble and railing	RFT	250	
1.4	Removal of existing electrical fixtures	LS	1	
1.5	Collection, loading and disposal of debris to an approved disposal site	LS	1	
2	**Civil and masonry works**			
2.1	Cement-sand plaster to walls, including curing	LS	1	
2.2	Floor levelling in PCC	LS	1	
3	**Electrical and data works**			
3.1	Electrical conduit installation, concealed, with boxes and accessories	LS	1	
3.2	Copper electrical wire 7/.029 (approx. 2.5 mm²), PVC insulated	Coil (90 m)	3	
3.3	Copper electrical wire 3/.029 (approx. 1.5 mm²), PVC insulated	Coil (90 m)	6	
3.4	Switch boxes, installation	Nos	8	
3.5	Switchboards (2+6), supply and installation	Nos	8	
3.6	Light points, complete	Nos	6	
3.7	Power socket points, complete	Nos	3	
3.8	AC power points, complete	Nos	1	

3.9	Data (internet) points, Cat6, complete with face plate and keystone	Nos	1	
3.10	Cat6 data cable, laid in conduit	RFT	80	
3.11	SMD LED downlights, 7 W	Nos	40	
3.12	LED spotlights	Nos	6	
3.13	LED strip lighting in aluminium profile, with driver	RFT	200	
3.14	Bracket fan, supply and installation	Nos	4	
3.15	Circuit breakers and accessories	Nos	6	
3.16	Main MCCB, 100 A	Nos	1	
3.17	Testing and commissioning of electrical works, with test report	LS	1	
4	**Floor, wall tiles and marble works**			
4.3	Marble stair treads, approx. 22 mm (7 soot), other than black granite	SFT	120	
4.4	Marble stair risers	SFT	120	
4.5	Marble door thresholds	RFT	24	
4.6	Stair railing, supply and installation	RFT	120	
5	**Ceiling works**			
5.1	Gypsum board false ceiling on GI framework, with joint tape and compound, surface preparation, primer and paint	SFT	1000	
	Ceiling bulkhead / drop ceiling	RFT		
6	**Wall finishes and decorative works**			
6.1	WPC wall panels, supply and installation	SFT	120	
6.2	Vinyl sticker, supply and installation	SFT	200	
6.3	Backlit glass panels, with customized maps, charts, text etc.	SFT	100	
7	**Paint and polishing works**			
7.1	Wall paint (SPD), surface preparation, putty, primer and two coats	SFT	2220	
7.3	Enamel paint on wood / metal (including doors)	SFT	120	
8	**Carpentry, joinery and furniture**			
8.1	Sofa set with table	Set	1	
8.2	Artificial planters	Nos	13	
10	**Digital Standees**			
10.1	Indoor, commercial LCD, 55”, 4k, 350-500 nits, 4/32 GB, Wifi/LAN/USB. 24/7. Controllable through the operation center workstation. All concealed wiring for power and connectivity. One standee for each floor.	No	3	
11	**Acrylic Wording**			
	Supply and installation of decorative 3D acrylic wording (10 words), fabricated from minimum 5 mm thick high-quality cast acrylic sheets, laser-cut to approved font, size and design, with polished edges, suitable colour/finish, concealed mounting arrangement, spacers, adhesives and all necessary accessories. Letters shall be accurately aligned and installed on the designated wall surface. Inclusive of LED modules, power supply, wiring and concealed electrical connections. PMD will approve the words	LS	1	

12	**Final cleaning and handover**			
12.1	Final cleaning of renovated area, inspection and handover	LS	1	
Total (LOT-2)				

LOT 3. Executive block floor, Museum

Sr.	Description of work	Unit	Qty	Price With All Taxes
1	**Floor works and dismantling**			
1.1	Minor grinding and polishing of the floor and skirting. Repair of the floor where required.	LS	1	
1.2	Removal of existing skirting	RFT	200	
1.3	Dismantling of existing stair marble and railing	RFT	250	
1.4	Removal of existing electrical fixtures	LS	1	
1.5	Collection, loading and disposal of debris to an approved disposal site	LS	1	
2	**Civil and masonry works**			
2.1	Cement-sand plaster to walls, including curing	LS	1	
2.2	Floor levelling in PCC	LS	1	
3	**Electrical and data works**			
3.1	Electrical conduit installation, concealed, with boxes and accessories	LS	1	
3.2	Copper electrical wire 7/.029 (approx. 2.5 mm²), PVC insulated	Coil (90 m)	4	
3.3	Copper electrical wire 3/.029 (approx. 1.5 mm²), PVC insulated	Coil (90 m)	8	
3.4	Switch boxes, installation	Nos	12	
3.5	Switchboards (2+6), supply and installation	Nos	8	
3.6	Light points, complete	Nos	8	
3.7	Power socket points, complete	Nos	6	
3.8	AC power points, complete	Nos	2	
3.9	Data (internet) points, Cat6, complete with face plate and keystone	Nos	2	
3.10	Cat6 data cable, laid in conduit	RFT	120	
3.11	SMD LED downlights, 7 W	Nos	60	
3.12	LED spotlights	Nos	6	
3.13	LED strip lighting in aluminium profile, with driver	RFT	250	
3.14	Bracket fan, supply and installation	Nos	4	
3.15	Circuit breakers and accessories	Nos	6	
3.16	Main MCCB, 100 A	Nos	1	
3.17	Testing and commissioning of electrical works, with test report	LS	1	
5	**Floor, wall tiles and marble works**			
5.3	Marble stair treads, approx. 22 mm (7 soot), other than black granite	SFT	120	
5.4	Marble stair risers	SFT	120	

5.5	Marble door thresholds	RFT	24	
5.6	Stair railing, supply and installation	RFT	120	
6	**Ceiling works**			
6.1	Gypsum board false ceiling on GI framework, with joint tape and compound, surface preparation, primer and paint	SFT	1000	
	Ceiling bulkhead / drop ceiling	RFT		
7	**Wall finishes and decorative works**			
7.1	WPC wall panels, supply and installation	SFT	120	
7.2	Vinyl sticker, supply and installation	SFT	400	
7.3	Backlit glass panels, with customized maps, charts, text etc.	SFT	100	
8	**Paint and polishing works**			
8.1	Wall paint (SPD), surface preparation, putty, primer and two coats	SFT	2220	
8.3	Enamel paint on wood / metal (including doors)	SFT	120	
9	**Carpentry, joinery, furniture and self-service Kiosk**			
9.1	Display showcases for the artifacts, manufacture and installation	Nos	3	
9.2	Artificial planters	Nos	13	
9.3	Interactive Touchscreen Information Kiosk for self-service access to detailed information, historical records, images, and educational content about meteorological and geophysical artifacts. PMD will provide the detailed information. Vendor needs to customize the Kiosk for self-service system.	Nos	1	
10	**Final cleaning and handover**			
10.1	Final cleaning of renovated area, inspection and handover	LS	1	
Total (LOT-3)				

LOT 4. R&D Wing floor

Sr.	Description of work	Unit	Qty	Price With All Taxes
1	**Floor works and dismantling**			
1.1	Minor grinding and polishing of the floor and skirting. Repair of floor and skirting where required.	LS	1	
1.3	Dismantling of existing stair marble and railing	RFT	250	
1.4	Removal of existing electrical fixtures	LS	1	
1.5	Collection, loading and disposal of debris to an approved disposal site	LS	1	
2	**Civil and masonry works**			
2.1	Cement-sand plaster to walls, including curing	LS	1	
2.2	Floor levelling in PCC	LS	1	
3	**Electrical and data works**			

3.1	Electrical conduit installation, concealed, with boxes and accessories	LS	1	
3.2	Copper electrical wire 7/.029 (approx. 2.5 mm²), PVC insulated	Coil (90 m)	4	
3.3	Copper electrical wire 3/.029 (approx. 1.5 mm²), PVC insulated	Coil (90 m)	8	
3.4	Switch boxes, installation	Nos	12	
3.5	Switchboards (2+6), supply and installation	Nos	8	
3.6	Light points, complete	Nos	8	
3.7	Power socket points, complete	Nos	6	
3.8	AC power points, complete	Nos	2	
3.9	Data (internet) points, Cat6, complete with face plate and keystone	Nos	2	
3.10	Cat6 data cable, laid in conduit	RFT	120	
3.11	SMD LED downlights, 7 W	Nos	60	
3.12	LED spotlights	Nos	6	
3.13	LED strip lighting in aluminium profile, with driver	RFT	250	
3.14	Bracket fan, supply and installation	Nos	4	
3.15	Circuit breakers and accessories	Nos	6	
3.16	Main MCCB, 100 A	Nos	1	
3.17	Testing and commissioning of electrical works, with test report	LS	1	
5	**Floor, wall tiles and marble works**			
5.3	Marble stair treads, approx. 22 mm (7 soot), other than black granite	SFT	120	
5.4	Marble stair risers	SFT	120	
5.5	Marble door thresholds	RFT	24	
5.6	Stair railing, supply and installation	RFT	120	
6	**Ceiling works**			
6.1	Gypsum board false ceiling on GI framework, with joint tape and compound, surface preparation, primer and paint	SFT	1000	
	Ceiling bulkhead / drop ceiling	RFT		
7	**Wall finishes and decorative works**			
7.1	WPC wall panels, supply and installation	SFT	180	
7.2	Vinyl sticker, supply and installation	SFT	375	
7.3	Backlit glass panels, with customized maps, charts, text etc.	SFT	100	
7.4	Conceal the area below stairs, with wooden partition, doors, etc. matching with the overall theme and layout of the floor.			
8	**Paint and polishing works**			
8.1	Wall paint (SPD), surface preparation, putty, primer and two coats	SFT	2530	
8.3	Enamel paint on wood / metal (including doors)	SFT	120	
9	**Carpentry, joinery and furniture**			
9.1	Artificial planters	Nos	12	

10	**Final cleaning and handover**			
10.1	Final cleaning of renovated area, inspection and handover	LS	1	
Total (LOT-4)				

LOT 5. Washroom

Sr.	Description of work	Unit	Qty	Price With All Taxes
1	**Dismantling and demolition works**			
1.1	Dismantling of existing floor tiles, including bedding, without damage to the structural slab	SFT	240	
1.2	Dismantling of existing wall tiles, including bedding	SFT	350	
1.3	Removal of existing doors and frames	Nos	3	
1.4	Dismantling of existing sanitary and plumbing fixtures	Set	3	
1.5	Dismantling of unwanted masonry walls	SFT	250	
1.6	Removal of existing electrical fixtures	LS	1	
1.7	Collection, loading and disposal of debris to an approved disposal site	LS	1	
	Subtotal, section 1: Dismantling and demolition works			
2	**Civil and masonry works**			
2.1	Brick masonry work in cement-sand mortar	SFT	250	
2.2	Cement-sand plaster to walls, including curing	SFT	250	
2.3	Floor levelling in PCC	SFT	250	
2.4	Waterproofing of bathroom floor and walls with membrane sheet	SFT	200	
2.5	Door frames, supply and installation	Nos	3	
2.6	Wall chasing and grooves for MEP services / electrical conduits, including making good	LS	1	
2.7	New doors (shutters), supply and installation on the new frames	Nos	3	
3	**Electrical and data works**			
3.1	Copper electrical wire 7/.029 (approx. 2.5 mm²), PVC insulated	Coil (90 m)		
3.2	Copper electrical wire 3/.029 (approx. 1.5 mm²), PVC insulated	Coil (90 m)		
3.3	Switchboards (2+6), supply and installation	Nos	2	
3.4	SMD LED downlights, 7 W	Nos	14	
3.5	LED strip lighting in aluminium profile, with driver	RFT	60	
3.6	Exhaust fan, supply and installation	Nos	1	
3.7	Circuit breakers and accessories	Nos	1	
3.8	Testing and commissioning of electrical works, with test report	LS	1	
4	**Plumbing and sanitary works**			
4.1	WC / commode, supply and installation	Nos	3	
4.2	Vanity, supply and installation	Nos	3	
4.3	Mixer, supply and installation	Nos	3	

4.4	Health faucet (Muslim shower) with tap, supply and installation	Nos	3	
4.5	Floor drain, supply and installation	Nos	4	
4.6	Plumbing connections and accessories	Set	3	
4.7	Instant electric water geyser, supply and installation	Nos	1	
4.8	Automatic hand dryer, supply and installation	Nos	3	
4.9	Full-size mirror, supply and installation	SFT	20	
4.10	Washroom accessories (towel rods, holders), supply and installation	Set		
5	**Floor, wall tiles and marble works**			
5.1	Bathroom floor and wall tiles, supply and installation (tile, bond, spacers, labour, grout)	SFT	1100	
5.2	Black granite vanity top	SFT	40	
6	**Ceiling works**			
6.1	Gypsum board false ceiling on GI framework, with joint tape and compound, surface preparation, primer and paint	SFT	250	
	Ceiling bulkhead / drop ceiling	RFT		
7	**Paint and polishing works**			
7.1	Enamel paint on wood / metal (including doors)	SFT	60	
8	**Carpentry, joinery and furniture**			
8.1	Door locks and handles, supply and installation	Set	3	
8.2	Door closer, supply and installation	Nos	1	
9	**Final cleaning and handover**			
9.1	Final cleaning of renovated area, inspection and handover	LS	1	
Total (LOT-5)				
Grand Total (LOT-1 + LOT-2 + LOT-3 + LOT-4 + LOT-5)				

PUBLIC PROCUREMENT REGULATORY AUTHORITY (PPRA) EPADS