BIDDING DOCUMENTS

For

ALLIED ELECTRICAL WORKS FOR SUPPLY, INSTALLATION, TESTING & COMMISSIONING OF 350 TR WATER COOLED CENTRIFUGAL CHILLER WORKS AT MAIN AC PLANT, SBP KARACHI

Technical Proposal

Volume-I

Mar-25

STATE BANK OF PAKISTAN
CIVIL
MAINTENANCE
DIVISION

SBP BANKING SERVICES CORPORATION
Engineering Department Karachi

ITB No. ED/PROC-HOK/223440/2025/248

INVITATION TO e-BID

1. State Bank of Pakistan Banking Services Corporation, invites electronic bids from the suppliers/ contractors'/ service providers, who are registered with PPRA for E-Procurement on "e-Pak Acquisition and Disposal system (EPADS)", having Income & Sales Tax registration and are on Active Taxpayers List (ATL) of FBR.

Sr. No.	Tender No	Title of Procurement	Date & Time of		Bid Security (Rs.)
			Bid Submission	Bid Opening	
1.	248	Allied Electrical Works for Supply, Installation, Testing & Commissioning of 350 TR Water Cooled Centrifugal Chiller Works at Main AC Plant, SBP Karachi	26-Mar-25 12:00 PM	26-Mar-25 12:50 PM	400,000

2. The Bidding shall be conducted in line with the Rule 36 (b) Single Stage - Two Envelope procedure. E-bidding documents as per regulations, containing detailed terms and conditions, specifications and requirements etc. are available for the registered bidders on EPADS at (www.eprocure.gov.pk).

3. Bid(s) must be accompanied by a Bid Security as mentioned in above table. The bidders shall upload scanned copy of Bid Security on EPADS. Original bid security must be submitted at PA to Director Engineering 1st Floor, Engineering Department, SBP-BSC Bolton Market Building, M.A. Jinnah Road Karachi Phone: (92-21)–32454122/05/71.

4. The electronic bids, must be submitted by using EPADS on or before schedule mentioned in above table. Manual bids, shall not be accepted. Electronic Bids will be opened by using EPADS publicly on the same day on schedule mentioned in above table. In case the bid opening date falls on a public holiday, the bids will be opened on the next working day at the same time and on the same venue.

Sd/-
Director Engineering (A)
1st Floor, Engineering Department, SBP-BSC Bolton Market Building,
M.A. Jinnah Road Karachi
Phone: (92-21)–32454122/05/71, Facsimile: (92-21)-99221176
Website: www.sbp.org.pk

SBP BANKING SERVICES CORPORATION
ENGINEERING DEPARTMENT KARACHI

Reference No: ED / PROC-HOK / 223440 / 2025

INVITATION TO e-BID

1. State Bank of Pakistan Banking Services Corporation, invites electronic bids from the suppliers/ contractors'/ service providers, who are registered with PPRA for E-Procurement on "e-Pak Acquisition and Disposal system (EPADS)", having Income Tax active on Active Taxpayers List (ATL) of FBR. Details of project is listed in below table:

Sr. No.	Tender No	Title of Procurement	Date & Time of		Bid Security (Rs.)	Address of Bid Submission
			Bid Submission	Bid Opening		
1.	246	Building Repair Works in Main Bank Building Premises, SBP Head Office Karachi	26-March-25 12:00 PM	26-March-25 12:30 PM	70,000	PA to Director Engineering, 1st Floor, SBP Bolton Market Building, M.A. Jinnah Road, Karachi. Ph: 021-3245 4122/05
2.	247	Supply, Installation, Testing & Commissioning of 350TR Water Cooled Centrifugal Chiller at Main AC Plant, SBP Karachi	26-March-25 12:00 PM	26-March-25 12:40 PM	1,000,000	
3.	248	Allied Electrical Works for Supply, Installation, Testing & Commissioning of 350 TR Water Cooled Centrifugal Chiller Works at Main AC Plant, SBP Karachi	26-March-25 12:00 PM	26-Mar-25 12:50 PM	400,000	
4.	249	Janitorial, Gardening & Maintenance Services at BSC HO, BMB, Bank House, KDA Bungalows, SBP Huts, Female Hostel and SBP-BSC (Bank) Karachi	27-Mar-25 12:00 PM	27-Mar-25 12:30 PM	300,000	
5.	250	Continuous and Uninterrupted Management Services of Substation and Building Electrical Services at MBB, BMB, Bank House, KDA BCP Site, Lalazar Hostel and SBP Huts & PA and Conference System at MBB Head Office Karachi	27-Mar-25 12:00 PM	27-Mar-25 12:40 PM	80,000	
6.	251	Continuous and Un-Interrupted Management Services for Split Air-Conditioners at MBB and Allied Sites at SBP Karachi	27-Mar-25 12:00 PM	27-Mar-25 12:50 PM	80,000	
7.	252	Continuous & Uninterrupted Management Services for PABX Communication Equipment & Telecom Network at SBP Head Office Karachi, North Nazimabad & Lahore	27-Mar-25 12:00 PM	27-Mar-25 1:00 PM	50,000	
8.	PEW-1	Upgradation and Improvement of Electrical System at SBP BSC Peshawar Office Complex	26-Mar-25 12:00 PM	26-Mar-25 12:30 PM	1,500,000	Chief Manager Mezzanine Floor, Tower Block Building, SBP-BSC (Bank), Main Saddar Road, Peshawar. Ph: 091-9211977
9.	SKT-1	Continuous and Un-Interrupted Management Services for Diesel Generator Sets & Allied Equipment at SBP BSC (Bank) Lahore, Sialkot, Gujranwala and Janitorial Services at Gujranwala	26-Mar-25 12:00 PM	26-Mar-25 12:30 PM	125,000	Chief Manager First floor SBP BSC Office, Allama Iqbal Road, Sialkot Cantt). Ph: 052-9250350-251 052-9250350-311
10.	MUL-1	Continuous and Un-Interrupted Management Services of DG Sets, Allied Equipment, UPS System and Electrical Distribution Room at SBP BSC Multan, Faisalabad and Bahawalpur along with Janitorial & Gardening Services at Bahawalpur Office	26-Mar-25 12:00 PM	26-Mar-25 12:30 PM	100,000	Deputy Chief Manager, 3rd floor, State Bank of Pakistan SBP BSC (Bank), Multan. Ph: 061-9200629
11.	PEW-2	Continuous and Un-interrupted Management Services of DG Sets, Allied Equipment, UPS System and Electrical Distribution Room at SBP BSC Rawalpindi, Peshawar, Islamabad, D.I Khan, Muzaffarabad along with Split ACs Services at SBP BSC Islamabad, Janitorial & Gardening Services at SBP BSC D.I Khan and Muzaffarabad	26-Mar-25 12:00 PM	26-Mar-25 12:30 PM	190,000	Chief Manager Mezzanine Floor, Tower Block Building, SBP-BSC(Bank), Main Saddar Road, Peshawar. Ph: 091-9211977
12.	SKT-2	Continuous and Un-Interrupted Management Services of Lifts installed at SBP BSC (Bank) Lahore and Sialkot	26-Mar-25 12:00 PM	26-Mar-25 12:30 PM	50,000	Chief Manager First floor SBP BSC Office, Allama Iqbal Road, Sialkot Cantt). Ph: 052-9250350-251; 052-9250350-311
13.	RWP-1	Continuous and Uninterrupted Management Services for Central HVAC System, Split Type AC Units and Water Coolers/Dispensers at SBP BSC Rawalpindi and Peshawar Offices	26-Mar-25 12:00 PM	26-Mar-25 12:30 PM	85,000	Chief Manager, First Floor, Old Building, SBP BSC, Mall Road Rawalpindi. Ph: 051-9272645
14.	FSB-1	Continuous and Uninterrupted Management Services of HVAC System at SBP BSC (Bank) Faisalabad & Multan	26-Mar-25 till 12:00 PM	26-Mar-25 12:30 PM	50,000/-	Chief Manager at 2nd Floor, SBP BSC (Bank), Faisalabad. Ph: 041-9200415
15.	FSB-2	Continuous and Uninterrupted Management Services of Passenger and Bullion Lifts at SBP BSC (Bank) Faisalabad & Multan	26-Mar-25 12:00 PM	26-Mar-25 12:30 PM	35,000/-	Chief Manager at 2nd Floor, SBP BSC (Bank), Faisalabad. Ph: 041-9200415

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3. Bid(s) must be accompanied by a Bid Security as mentioned in above table. The bidders shall upload scanned copy of Bid Security on EPADS. Original bid security must be submitted at address mentioned above on or before schedule mentioned in above table.
4. The electronic bids, must be submitted by using EPADS on or before schedule mentioned in above table. Manual bids, shall not be accepted. Electronic Bids will be opened on the same day at schedule mentioned in above table. In case the bid opening date falls on a public holiday, the bids will be opened on the next working day at the same time.

Sd/-
Director Engineering

STATE BANK OF PAKISTAN ★ ENGINEERING DEPARTMENT SBP BSC ★ CIVIL MAINTENANCE DIVISION

PART-A

BIDDING PROCEDURE & REQUIREMENTS

SECTION I: INVITATION TO BIDS

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SECTION II: INSTRUCTION TO BIDDERS (ITBs)

Section II. Instructions to Bidders (ITBs)

A. Introduction		
1. Scope of Application	1.1	The Procuring Agency (PA), as indicated in the **Bid Data Sheet (BDS)** invites Bids for the provision of Goods as specified in the BDS and Section V - Technical Specifications & Schedule of Requirements. The successful Bidders will be expected to supply and install the machine within the specified period and timeline(s) as stated in the BDS.
2. Sources of Funds	2.1	Source of funds is referred in Clause-2 of Invitation to Bids.
3. Eligible Bidders	3.1	A Bidder may be natural person, company or firm or public or semi-public agency of Pakistan or of any foreign country**,** or any combination of them with a formal existing agreement (on Judicial Papers) in the form of a joint venture, consortium, or association. In the case of a joint venture, consortium, or association, all members shall be jointly and severally liable for the execution of the Contract in accordance with the terms and conditions of the Contract. The joint venture, consortium, or association shall nominate a Lead Member as nominated in the BDS, who shall have the authority to conduct all business for and on behalf of any and all the members of the joint venture, consortium, or association during the Bidding process, and in case of award of contract, during the execution of contract.
	3.2	The appointment of Lead Member in the joint venture, consortium, or association shall be confirmed by submission of a valid Power of Attorney to the Procuring Agency.
	3.3	Verifiable copy of the agreement that forms a joint venture, consortium or association shall be required to be submitted as part of the Bid.
	3.4	Any bid submitted by the joint venture, consortium or association shall indicate the part of proposed contract to be performed by each party and each party shall be evaluated (or post qualified if required) with respect to its contribution only, and the responsibilities of each party shall not be substantially altered without prior written approval of the Procuring Agency and in line with any instructions issued by the Authority.
	3.5	The invitation for Bids is open to all prospective supplier, manufacturers or authorized agents/dealers subject to any provisions of incorporation or licensing by the respective national incorporating agency or statutory body established for that particular trade or business.
	3.6	Foreign Bidders must be locally registered with the appropriate national incorporating body or the statutory body, before participating in the national/international competitive tendering with the exception of such procurements made by the foreign missions of Pakistan. For such purpose the bidder must have to initiate the registration process before the bid submission and the necessary evidence shall be submitted to the procuring agency along with their bid, however, the final award will be subject to the complete registration process.
	3.7	A Bidder shall not have a conflict of interest. All Bidders found to have a conflict of interest shall be disqualified. A Bidders may be considered to have a conflict of interest with one or more parties in this Bidding process, if they: a. are associated or have been associated in the past, directly or indirectly with a firm or any of its affiliates which have been engaged by the Procuring Agency to provide consulting services for the preparation of the design, specifications and other documents to be used for the procurement of goods and related services to be procured under this Invitation for Bids. b. have controlling shareholders in common; or c. receive or have received any direct or indirect subsidy from any of them; or d. have the same legal representative for purposes of this Bid; or e. have a relationship with each other, directly or through common third parties, that puts them in a position to have access to information about or influence on the Bid of another Bidder, or influence the decisions of the Procuring Agency regarding this Bidding process; or f. Submit more than one Bid in this Bidding process.
	3.8	A Bidder may be ineligible if – a. he is declared bankrupt or, in the case of company or firm, insolvent; b. payments in favor of the Bidder is suspended in accordance with the judgment of a court of law other than a judgment declaring bankruptcy and resulting (in accordance with the national laws) in the total or partial loss of the right to administer and dispose of its property; c. legal proceedings are instituted against such Bidder involving an order suspending payments and which may result, in accordance with the national laws, in a declaration of bankruptcy or in any other situation entailing the total or partial loss of the right to administer and dispose of the property; d. the Bidder is convicted, by a final judgment, of any offence involving professional conduct; e. the Bidder is blacklisted and hence debarred due to involvement in corrupt and fraudulent practices, or performance failure or due to breach of bid securing declaration. f. The firm, supplier and contractor is blacklisted or debarred by a foreign country, international organization, or other foreign institutions for the period defined by them.
	3.9	Bidders shall provide to the Procuring Agency evidence of their eligibility, proof of compliance with the necessary legal requirements to carry out the contract effectively.
	3.10	Bidders shall provide such evidence of their continued eligibility to the satisfaction of the Procuring Agency, as the Procuring Agency shall reasonably request.

	3.11	Bidders shall submit proposals relating to the nature, conditions and modalities of sub-contracting wherever the sub-contracting of any elements of the contract amounting to the more than ten (10) percent of the Bid price is envisaged.
4. Eligible Goods and Related Services	4.1	All the goods and related services to be supplied under the contract shall have their origin in eligible source countries, and all expenditures made under the contract will be limited to such goods and services. For purpose of this Bid, ineligible countries are stated in the section-4 titled as "Eligible Countries".
	4.2	For purposes of this Clause, "origin" means the place where the goods are mined, grown, cultivated, produced, manufactured, or processed, or through manufacture, procession, or assembly, another commercially recognized article results that differs substantially in its basic characteristics from its imported components or the place from where the related services are/to be supplied.
	4.3	The nationality of the supplier that supplies and install the goods shall not determine the origin of the goods.
	4.4	To establish the eligibility of the Goods and the related services, Bidders shall fill the country of origin declarations included in the Form of Bid.
	4.5	If so required in the **BDS**, the Bidder shall demonstrate that it has been duly authorized by the manufacturer of the goods to deliver in Pakistan (or in respective country in case of procurement by the Pakistani Missions abroad), the goods indicated in its Bid.
5. One Bid per Bidder	5.1	A bidder shall submit only one Bid, in the same bidding process, either individually as a Bidder or as a member in a joint venture or any similar arrangement.
	5.2	No bidder can be a sub-contractor while submitting a Bid individually or as a member of a joint venture in the same Bidding process.
	5.3	A person or a firm cannot be a sub-contractor with more than one bidder in the same bidding process.
6. Cost of Bidding	6.1	The Bidder shall bear all costs associated with the preparation and submission of its Bid, and the Procuring Agency shall in no case be responsible or liable for those costs, regardless of the conduct or outcome of the bidding process.
B. Bidding Documents		
7. Contents of Bidding Documents	7.1	The goods required, bidding procedures, and terms and conditions of the contract are prescribed in the Bidding Documents. In addition to the Invitation to Bids, the Bidding Documents which should be read in conjunction with any addenda issued in accordance with ITB 9.2 include: **Section I** -Invitation to Bids **Section II** Instructions to Bidders (ITBs) **Section III** Bid Data Sheet (BDS) **Section IV** Eligible Countries **Section V** Schedule of Requirements and Technical Specifications **Section VI** Standard Forms **Section VII** General Conditions of Contract (GCC) **Section VIII** Special Conditions of Contract (SCC) **Section IX** Contract Forms
	7.2	The number of copies to be completed and returned with the Bid is specified in the **BDS.**
	7.3	The Procuring Agency is not responsible for the completeness of the Bidding Documents and their addenda, if they were not obtained directly from the Procuring Agency or the signed pdf version from downloaded from the website of the Procuring Agency. However, Procuring Agency shall place both the pdf and same editable version to facilitate the bidder for filling the forms.
	7.4	The Bidder is expected to examine all instructions, forms, terms and specifications in the Bidding Documents. Failure to furnish all the information required in the Bidding Documents will be at the Bidder's risk and may result in the rejection of his Bid.
8. Clarification of Bidding Documents	8.1	A prospective Bidder requiring any clarification of the Bidding Documents may notify the Procuring Agency in writing or in electronic form that provides record of the content of communication at the Procuring Agency's address indicated in the **BDS.**
	8.2	The Procuring Agency will within three (3) working days after receiving the request for clarification, respond in writing or in electronic form to any request for clarification provided that such request is received not later than three (03) days prior to the deadline for the submission of Bids as prescribed in **ITB 23.1.** However, this clause shall not apply in case of alternate methods of Procurement.
	8.3	Copies of the Procuring Agency's response will be forwarded to all identified Prospective Bidders through an identified source of communication, including a description of the inquiry, but without identifying its source. In case of downloading of the Bidding Documents from the website of PA, the response of all such queries will also be available on the same link available at the website.
	8.4	Should the Procuring Agency deem it necessary to amend the Bidding Documents as a result of a clarification, it shall do so following the procedure under **ITB 9.**
	8.5	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 Bidders may request clarification of the schedule of requirement, the Evaluation Criteria or any other aspects of the Bidding Documents.

	8.6	Minutes of the pre-Bid meeting, if applicable, including the text of the questions asked by Bidders, including those during the meeting (without identifying the source) and the responses given, together with any responses prepared after the meeting will be transmitted promptly to all prospective Bidders who have obtained the Bidding Documents. Any modification to the Bidding Documents 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 9.** Non-attendance at the pre-Bid meeting will not be a cause for disqualification of a Bidder.
9. Amendment of Bidding Documents	9.1	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 addenda.
	9.2	Any addendum issued including the notice of any extension of the deadline shall be part of the Bidding Documents pursuant to **ITB 7.1** and shall be communicated in writing or in any identified electronic form that provide record of the content of communication to all the bidders who have obtained the Bidding Documents from the Procuring Agency. The Procuring Agency shall promptly publish the Addendum at the Procuring Agency's web page identified in the BDS: Provided that the bidder who had either already submitted their bid or handed over the bid to the courier prior to the issuance of any such addendum shall have the right to withdraw his already filed bid and submit the revised bid prior to the original or extended bid submission deadline.
	9.3	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: Provided that the Procuring Agency shall extend the deadline for submission of Bid, if such an addendum is issued within last three (03) days of the Bid submission deadline.
C. Preparation of Bids		
10. Language of Bid	10.1	The Bid prepared by the Bidder, as well as all correspondence and documents relating to the Bid exchanged by the Bidder and the Procuring Agency shall be written in the English language unless otherwise specified in the **BDS.** Supporting documents and printed literature furnished by the Bidder may be in another language provided they are accompanied by an accurate translation of the relevant pages in the English language unless specified in the **BDS**, in which case, for purposes of interpretation of the Bidder, the translation shall govern.
11. Documents and Sample(s) Constituting the Bid	11.1	The Bid prepared by the Bidder shall constitute the following components: - a) Form of Bid and Bid Prices completed in accordance with **ITB 14 and 15;** b) Details of the Sample(s) where applicable and requested in the **BDS.** c) Documentary evidence established in accordance with ITB 13 that the Bidder is eligible and/or qualified for the subject bidding process; d) Documentary evidence established in accordance with **ITB 13.3(a)** that the Bidder has been authorized by the manufacturer to deliver the goods into Pakistan, where required and where the supplier is not the manufacturer of those goods; e) Documentary evidence established in accordance with ITB 12 that the goods and related services to be supplied by the Bidder are eligible goods and services, and conform to the Bidding Documents; f) Bid security or Bid Securing Declaration furnished in accordance with **ITB 18;** g) Duly Notarized Power of Attorney authorizing the signatory of the Bidder to submit the bid**;** and h) Any other document required in the **BDS**
	11.2	Where a sample(s) is required by a procuring agency, the sample shall be: (a) submitted as part of the bid, in the quantities, dimensions and other details requested in the **BDS**; (b) carriage paid; (c) received on, or before, the closing time and date for the submission of bids; and (d) evaluated to determine compliance with all characteristics listed in the **BDS**.
	11.3	The Procuring Agency shall retain the sample(s) of the successful Bidder. A Procuring Agency shall reject the Bid if the sample(s)- (a) do(es) not conform to all characteristics prescribed in the bidding documents; and (b) is / are not submitted within the specified time clearly mentioned in the Bid Data Sheet.
	11.4	Where it is not possible to avoid using a propriety article as a sample, a Bidder shall make it clear that the propriety article is displayed only as an example of the type or quality of the goods being Bided for, and that competition shall not thereby be limited to the extent of that article only.
	11.5	Samples made up from materials supplied by a Procuring Agency shall not be returned to a Bidder nor shall a Procuring Agency be liable for the cost of making them.
	11.6	All samples produced from materials belonging to an unsuccessful Bidder shall be kept by the Procuring Agency till thirty (30) days from the date of award of contract or exhaust of all the grievance forums (including those pending at Authority's Level or in some Court of Law).
12. Documents Establishing Eligibility of the Goods and Related Services and Conformity to Bidding Documents	12.1	Pursuant to ITB 11, the Bidder shall furnish, as part of its Bid, all those documents establishing the eligibility in conformity to the terms and conditions specified in the Bidding Documents for all goods and related services which the Bidder proposes to deliver.
	12.2	The documentary evidence of the eligibility of all goods and related services shall consist of a statement in the Price Schedule of the country of origin of the goods and related services offered which shall be confirmed by a certificate of origin issued at the time of shipment.
	12.3	The documentary evidence of conformity of the goods and related services to the Bidding Documents may be in the form of literature, drawings, and data, and shall consist of:

	a. a detailed description of the essential technical specifications and performance characteristics of the Goods; b. an item-by-item commentary on the Procuring Agency's Technical Specifications demonstrating substantial responsiveness of the Goods and Services to those specifications, or a statement of deviations and exceptions to the provisions of the Technical Specifications; c. any other procurement specific documentation requirement as stated in the BDS. 12.4 The Bidder shall also furnish a list giving full particulars, including available sources and current prices of goods, spare parts, special tools, etc., necessary for the proper and continuing functioning of the Goods during the period **specified in the BDS** following commencement of the use of the goods by the Procuring Agency. 12.5 For purposes of the commentary to be furnished pursuant to **ITB 12.3(c)** above, the Bidder shall note that standards for workmanship, material, and equipment, as well as references to brand names or catalogue numbers designated by the Procuring Agency in its Technical Specifications, are intended to be descriptive only and not restrictive. The Bidder may substitute alternative standards, brand names, and/or catalogue numbers in its Bid, provided that it demonstrates to the Procuring Agency's satisfaction that the substitutions ensure substantial equivalence to those designated in the Technical Specifications. 12.6 The required documents and other accompanying documents must be in English. In case any other language than English is used the pertinent translation into English shall be attached to the original version.
13. Documents Establishing the Eligibility and Qualification of the Bidder	13.1 Pursuant to **ITB 11,** the Bidder shall furnish, as part of its Bid, 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. 13.2 The documentary evidence of the Bidder's eligibility to Bid 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 as defined in Section-4 titled as "Eligible Countries". 13.3 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: a) in the case of a Bidder offering deliver the goods under the contract which the Bidder did not manufacture or otherwise produce, the Bidder has been duly authorized by the Manufacturer or producer to deliver the goods in Pakistan; b) The Bidder has the financial, technical, and supply/production capability necessary to perform the Contract, meets the qualification criteria specified in **BDS**. c) in the case of a Bidder not doing business within Pakistan, the Bidder is or will be (if awarded the contract) represented by an Agent in Pakistan equipped, and able to carry out the Supplier's maintenance, repair, and spare parts-stocking obligations prescribed in the Conditions of Contract and/or Technical Specifications. d) That the Bidder meets the qualification criteria listed in the Bid Data Sheet.
14. Form of Bid	14.1 The Bidder shall fill the Form of Bid furnished in the Bidding Documents. The Bid Form must be completed without any alterations to its format and no substitute shall be accepted.
15. Bid Prices	15.1 The Bid Prices and discounts quoted by the Bidder in the Form of Bid and in the Price Schedules shall conform to the requirements specified below in ITB Clause 15 or exclusively mentioned hereafter in the bidding documents. 15.2 All items in the Schedule of requirement must be listed and priced separately in the Price Schedule(s). If a Price Schedule shows items listed but not priced, their prices shall be construed to be included in the prices of other items. 15.3 Items not listed in the Price Schedule shall be assumed not to be included in the Bid, and provided that the Bid is still substantially responsive in their absence or due to their nominal nature, the corresponding average price of the respective item(s) of the remaining substantially responsive bidder(s) shall be construed to be the price of those missing item(s): Provided that: a) where there is only one (substantially) responsive bidder, or b) where there is provision for alternate proposals and the respective items are not listed in the other bids, The procuring agency may fix the price of missing items in accordance with market survey, and the same shall be considered as final price. 15.4 The Bid price to be quoted in the Form of Bid in accordance with **ITB 15.1** shall be the total price of the Bid, excluding any discounts offered. 15.5 The Bidder shall indicate on the appropriate Price Schedule, the unit prices (where applicable) and total Bid price of the goods it proposes to deliver under the contract. 15.6 Prices indicated on the Price Schedule shall be entered separately in the following manner: **a) For goods manufactured from within Pakistan (or within the country where procurement is being done in case of foreign missions abroad):** i. The price of the goods quoted EXW (ex-works, ex-factory, ex-warehouse, ex-showroom, or off-the-shelf, as applicable), including all customs duties and sales and other taxes already paid or payable: A. on the components and raw material used in the manufacturing or assembly of goods quoted ex- works or ex-factory; OR B. on the previously imported goods of foreign origin quoted ex-warehouse, ex-showroom, or off-the-shelf. ii. All applicable taxes which will be payable on the goods if the contract is awarded. iii. The price for inland transportation, insurance, and other local costs incidental to delivery of the goods to their final destination, if specified in the **BDS**.

	iv. The price of other (incidental or allied) services, if any, listed in the **BDS**. **b) For goods offered from abroad:** i. The price of the goods shall be quoted CIF named port of destination, or CIP border point, or CIP named place of destination, in the Procuring Agency's country, as specified in the BDS. In quoting the price, the Bidder shall be free to use transportation through carriers registered in any eligible countries. Similarly, the Bidder may obtain insurance services from any eligible source country. Or ii. The price of the goods quoted FOB port of shipment (or FCA, as the case may be), if specified in the **BDS**. or iii. The price of goods quoted CFR port of destination (or CPT as the case may be), if specified in the **BDS.** iv. the price for inland transportation, insurance, and other local costs incidental to delivery of the goods from the port of entry to their final destination, if specified in the **BDS**. v. The price of (incidental) services, if any, listed in the **BDS.** 15.7 Prices proposed on the Price Schedule for goods and related services shall be disaggregated, where appropriate as indicated in this Clause. This desegregation shall be solely for the purpose of facilitating the comparison of Bids by the Procuring Agency. This, shall not in any way limit the Procuring Agency's right to contract on any of the terms and conditions offered: - a) **For Goods: -** i) the price of the Goods, quoted as per applicable INCOTERMS as specified in the **BDS** ii) all customs duties, sales tax, and other taxes applicable on goods or on the components and raw materials used in their manufacture or assembly, if the contract is awarded to the Bidder, and b) **For Related Services** i) The price of the related services, and ii) All customs duties, sales tax and other taxes applicable in Pakistan, paid or payable, on the related services, if the contract is awarded to the Bidder. 15.8 Prices quoted by the Bidder shall be fixed during the Bidder's performance 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 29**. 15.9 If so indicated in the Invitation to Bids and Instructions to Bidders, that Bids are being invited for individual contracts (Lots) or for any combination of contracts (packages), Bidders wishing to offer any price reduction for the award of more than one contract shall specify in their Bid the price reductions applicable to each package, or alternatively, to individual contracts (Lots) within a package.
16. Bid Currencies	16.1 Prices shall be quoted in the following currencies: a) For goods and services that the Bidder will deliver from within Pakistan, the prices shall be quoted in Pakistani Rupees, unless otherwise specified in the **BDS.** b) For goods and related services that the Bidder will deliver from outside Pakistan, or for imported parts or components of goods and related services originating outside Pakistan, the Bid prices shall be quoted in any freely convertible currency of another country. If the Bidder wishes to be paid in a combination of amounts in different currencies, it may quote its price accordingly but use no more than three foreign currencies. 16.2 For the purposes of comparison of bids quoted in different currencies, the price shall be converted into a single currency specified in the bidding documents. The rate of exchange shall be the selling rate, prevailing on the date of opening of (financial part of) bids specified in the bidding documents, as notified by the State Bank of Pakistan on that day. 16.3 Bidders shall indicate details of their expected foreign currency requirements in the Bid. 16.4 Bidders may be required by the Procuring Agency to clarify their foreign currency requirements and to substantiate that the amounts included in Lump Sum and in the **SCC** are reasonable and responsive to **ITB 16.1**.
17. Bid Validity Period	17.1 Bids 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. The period of Bid validity will be determined from the complementary bid securing instrument i.e., the expiry period of bid security or bid securing declaration as the case may be. 17.2 Under exceptional circumstances, prior to the expiration of the initial Bid validity period, the Procuring Agency may request the Bidders' consent to an extension of the period of validity of their Bids only once, for the period not more than the period of initial bid validity. The request and the Bidders responses shall be made in writing or in electronic forms that provide record of the content of communication. The Bid Security provided under ITB 18 shall also be suitably extended. A Bidder may refuse the request without forfeiting its Bid security or causing to be executed its Bid Securing Declaration. A Bidder agreeing to the request will not be required nor permitted to modify its Bid, but will be required to extend the validity of its Bid Security or Bid Securing Declaration for the period of the extension, and in compliance with ITB 18 in all respects. 17.3 If the award is delayed by a period exceeding sixty (60) days beyond the expiry of the initial Bid validity period, the contract price may be adjusted by a factor specified in the request for extension. However, the Bid evaluation shall be based on the already quoted Bid Price without taking into consideration on the above correction.

18. Bid Security or Bid Securing Declaration	18.1 Pursuant to **ITB 11**, unless otherwise specified in the **BDS**, the Bidder shall furnish as part of its Bid, a Bid Security in form of fixed amount not exceeding five percent of the estimated value of procurement determined by the procuring agency and in the amount and currency specified in the **BDS** or Bid Securing Declaration as specified in the **BDS** in the format provided in **Section VI (Standard Forms).** 18.2 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 18.9.** 18.3 The Bid Security shall be denominated in the local currency or in another freely convertible currency, and it shall be in the form specified in the **BDS** which shall be in any of the following: a) a bank guarantee, an irrevocable letter of credit issued by a Scheduled bank in the form provided in the Bidding Documents or another form acceptable to the Procuring Agency and valid for twenty-eight (28) days beyond the end of the validity of the Bid. This shall also apply if the period for Bid Validity is extended. In either case, the form must include the complete name of the Bidder; b) a cashier's or certified cheque; or c) another security if indicated in the BDS 18.4 The Bid Security or Bid Securing Declaration shall be in accordance with the Form of the Bid Security or Bid Securing Declaration included in Section VI (Standard Forms) or another form approved by the Procuring Agency prior to the Bid submission. 18.5 The Bid Security shall be payable promptly upon written demand by the Procuring Agency in case any of the conditions listed in ITB 18.9 are invoked. 18.6 Any Bid not accompanied by a Bid Security or Bid Securing Declaration in accordance with ITB 18.1 or 18.3 shall be rejected by the Procuring Agency as non-responsive, pursuant to **ITB 29**. 18.7 Unsuccessful Bidders' Bid Security will be discharged or returned as promptly as possible, 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 17. The Procuring Agency shall make no claim to the amount of the Bid Security, and shall promptly return the Bid Security document, after whichever of the following that occurs earliest: (a) the expiry of the Bid Security; (b) the entry into force of a procurement contract and the provision of a performance security (or guarantee), for the performance of the contract if such a security (or guarantee), is required by the Biding documents; (c) the rejection by the Procuring Agency of all Bids; (d) the withdrawal of the Bid prior to the deadline for the submission of Bids, unless the Biding documents stipulate that no such withdrawal is permitted. 18.8 The successful Bidder's Bid Security will be discharged upon the Bidder signing the contract pursuant to **ITB 42**, or furnishing the performance guarantee, pursuant to **ITB 43**. 18.9 The Bid Security may be forfeited or the Bid Securing Declaration executed: a) if a Bidder: i) withdraws its Bid during the period of Bid Validity as specified by the Procuring Agency, and referred by the bidder on the Form of Bid except as provided for in **ITB 17.2**; or ii) does not accept the correction of errors pursuant to **ITB 31.2;** or b) in the case of a successful Bidder, if the Bidder fails: i) to sign the contract in accordance with **ITB 42**; or ii) to furnish performance security (or guarantee) in accordance with **ITB 43**.
19. Alternative Bids by Bidders	19.1 Bidders shall submit offers that comply with the requirements of the Bidding Documents, including the basic Bidder's technical design as indicated in the specifications and Schedule of Requirements. Alternatives will not be considered, unless specifically allowed for in the BDS. If so allowed, **ITB 19.2** shall prevail. 19.2 When alternative schedule for supply and installation of equipment is explicitly invited, a statement of that effect will be included in the **BDS** as will the method for evaluating different schedule for delivery of goods. 19.3 If so allowed in the **BDS,** Bidders wishing to offer technical alternatives to the requirements of the Bidding Documents must also submit a Bid that complies with the requirements of the Bidding Documents, including the basic technical design as indicated in the specifications. In addition to submitting the basic Bid, the Bidder shall provide all information necessary for a complete evaluation of the alternative by the Procuring Agency, including technical specifications, breakdown of prices, and other relevant details. Only the technical alternatives, if any, of the Most Advantageous Bidder conforming to the basic technical requirements (without altering the bid price) shall be considered by the Procuring Agency.
20. Withdrawal, Substitution, and Modification of Bids	20.1 Before bid submission deadline, any bidder may withdraw, substitute, or modify its Bid after it has been submitted by sending a written notice, duly signed by an authorized representative, and the corresponding substitution or modification must accompany the respective written notice. 20.2 Bids requested to be withdrawn in accordance with **ITB 20.1** shall be returned unopened to the Bidders.
21. Format and Signing of Bid	21.1 The Bidder shall prepare an original and the number of copies of the Bid as indicated in the **BDS**, clearly marking each "ORIGINAL" and "COPY," as appropriate. In the event of any discrepancy between them, the original shall prevail: Provided that except in Single Stage One Envelope Procedure, the Bid shall include only the copies of technical proposal. 21.2 The original and the copy or copies of the Bid shall be typed or written in indelible ink and shall be signed by the Bidder or a person or persons duly authorized to sign on behalf of the Bidder. This authorization shall consist of a written confirmation as specified in the **BDS** and shall be attached to the Bid. The name and position held by each

	person signing the authorization must be typed or printed below the signature. All pages of the Bid, except for un-amended printed literature, shall be initialed by the person or persons signing the Bid. 21.3 Any interlineations, erasures, or overwriting shall be valid only if they are signed by the person or persons signing the Bidder.
D. Submission of Bids	
22. Sealing and Marking of Bids	22.1 In case of Single Stage One Envelope Procedure, the Bidder shall seal the original and each copy of the Bid in separate envelopes, duly marking the envelopes as "ORIGINAL" and "COPY." The envelopes shall then be sealed in an outer envelope securely sealed in such a manner that opening and resealing cannot be achieved undetected. **Note***: The envelopes shall be sealed and marked in accordance with the bidding procedure adopted as referred in Rule-36 of PPR-2004.* 22.2 The inner and outer envelopes shall: a) be addressed to the Procuring Agency at the address given in the BDS; and b) bear the title of the subject procurement or Project name, as the case may be as indicated in the **BDS**, the Invitation to Bids (ITB) title and number indicated in the **BDS**, and a statement: "DO NOT OPEN BEFORE," to be completed with the time and the date specified in the **BDS**, pursuant to **ITB 23.1**. 22.3 In case of Single Stage Two Envelope Procedure, The Bid shall comprise two envelopes submitted simultaneously, one called the Technical Proposal and the other Financial Proposal. Both envelopes to be enclosed together in an outer single envelope called the Bid. Each Bidder shall submit his bid as under: a) Bidder shall submit his TECHNICAL PROPOSAL and FINANCIAL PROPOSAL in separate inner envelopes and enclosed in a single outer envelope. b) ORIGINAL and each copy of the Bid shall be separately sealed and put in separate envelopes and marked as such. c) The envelopes containing the ORIGINAL and copies will be put in one sealed envelope and addressed / identified as given in **Sub- Clause 21.2.** 22.4 The inner and outer envelopes shall: a) be addressed to the Procuring Agency at the address provided in the Bidding Data; b) bear the name and identification number of the contract as defined in the Bidding Data; and provide a warning not to open before the time and date for bid opening, as specified in the Bidding Data. pursuant to **ITB 23.1.** c) In addition to the identification required in Sub- Clause 21.2 hereof, the inner envelope shall indicate the name and address of the bidder to enable the bid to be returned unopened in case it is declared "late" pursuant t**o Clause IB.24** If all envelopes are not sealed and marked as require by ITB 22.2, ITB 22.3 and ITB 22.4 or incorrectly marked, the Procuring Agency will assume no responsibility for the misplacement or premature opening of Bid
23. Deadline for Submission of Bids	23.1 Bids shall be received by the Procuring Agency no later than the date and time specified in the BDS. 23.2 The Procuring Agency may, in exceptional circumstances and at its discretion, extend the deadline for the submission of Bids by amending the Bidding Documents in accordance with **ITB 9**, in which case all rights and obligations of the Procuring Agency and Bidders previously subject to the deadline will thereafter be subject to the new deadline.
24. Late Bids	24.1 The Procuring Agency shall not consider for evaluation any Bid that arrives after the deadline for submission of Bids, in accordance with **ITB 23.** 24.2 Any Bid received by the Procuring Agency after the deadline for submission of Bids shall be declared late, recorded, rejected and returned unopened to the Bidder.
25. Withdrawal, of Bids	25.1 A Bidder may withdraw its Bid after it has been submitted, provided that written notice of the withdrawal of the Bid, is received by the Procuring Agency prior to the deadline for submission of Bids. 25.2 Revised bid may be submitted after the withdrawal of the original bid in accordance with the provisions referred in **ITB 22.**
E. Opening and Evaluation of Bids	
26. Opening of Bids	26.1 The Procuring Agency will open all Bids, in public, 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 a register as proof of their attendance. 26.2 First, envelopes marked "WITHDRAWAL" shall be opened and read out and the envelope with the corresponding bid shall not be opened, but returned to the Bidder. No bid withdrawal shall be permitted unless the corresponding Withdrawal Notice contains a valid authorization to request the withdrawal and is read out at bid opening. 26.3 Second, outer envelopes marked "SUBSTITUTION" shall be opened. The inner envelopes containing the Substitution Bid shall be exchanged for the corresponding Original Bid being substituted, which is to be returned to the Bidder unopened. No envelope shall be substituted unless the corresponding Substitution Notice contains a valid authorization to request the substitution and is read out and recorded at bid opening. 26.4 Next, outer envelopes marked "MODIFICATION" shall be opened. No Technical Proposal and/or Financial Proposal shall be modified unless the corresponding Modification Notice contains a valid authorization to request the modification and is read out and recorded at the opening of the Bids. Any Modification shall be read out along with the Original Bid except in case of Single Stage Two Envelope Procedure where only the Technical Proposal, both Original as well as Modification, are to be opened, read out, and recorded at the opening. Financial Proposal, both Original and Modification, will remain unopened till the prescribed financial bid opening date. 26.5 Other envelopes holding the Bids shall be opened one at a time, in case of Single Stage One Envelope Procedure, the Bidders names, the Bid prices, the total amount of each Bid and of any alternative Bid (if alternatives have been requested or permitted), any discounts, the presence or absence of Bid Security, Bid Securing Declaration

		and such other details as the Procuring Agency may consider appropriate, will be announced by the Procurement Evaluation Committee.
	26.6	In case of Single Stage Two Envelope Procedure, the Procuring Agency will open the Technical Proposals in public at the address, date and time specified in the **BDS** in the presence of Bidders` designated representatives who choose to attend and other parties with a legitimate interest in the Bid proceedings. The Financial Proposals will remain unopened and will be held in custody of the Procuring Agency until the specified time of their opening.
	26.7	The envelopes holding the Technical Proposals shall be opened one at a time, and the following read out and recorded: (a) the name of the Bidder; (b) whether there is a modification or substitution; (c) the presence of a Bid Security, if required; and (d) Any other details as the Procuring Agency may consider appropriate.
	26.8	Bids not opened and not read out at the Bid opening shall not be considered further for evaluation, irrespective of the circumstances. In particular, any discount offered by a Bidder which is not read out at Bid opening shall not be considered further.
	26.9	Bidders are advised to send in a representative with the knowledge of the content of the Bid who shall verify the information read out from the submitted documents. Failure to send a representative or to point out any un-read information by the sent Bidder's representative shall indemnify the Procuring Agency against any claim or failure to read out the correct information contained in the Bidder's Bid.
	26.10	No Bid will be rejected at the time of Bid opening except for late Bids which will be returned unopened to the Bidder, pursuant to **ITB 24.**
	26.11	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 whether or not there is a withdrawal, substitution or modification, the Bid price if applicable, including any discounts and alternative offers and the presence or absence of a Bid Security or Bid Securing Declaration.
	26.12	The Bidders' representatives who are present shall be requested to sign on the attendance sheet. The omission of a Bidder's signature on the record shall not invalidate the contents and affect the record. A copy of the record shall be distributed to all the Bidders.
	26.13	A copy of the minutes of the Bid opening shall be furnished to individual Bidders upon request.
	26.14	In case of Single Stage Two Envelop Bidding Procedure, after the evaluation and approval of technical proposal the procuring agency, shall at a time within the bid validity period, publically open the financial proposals of the technically accepted bids only. The financial proposal of bids found technically non-responsive shall be returned un-opened to the respective bidders subject to redress of the grievances from all tiers of grievances.
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 persons 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 decisions may result in the rejection of its Bid.
	27.3	Notwithstanding **ITB 27.2** from the time of Bid opening to the time of contract award, if any Bidder wishes to contact the Procuring Agency on any matter related to the Bidding process, it should do so in writing or in electronic forms that provides record of the content of communication.
28. Clarification of Bids	28.1	To assist in the examination, evaluation and comparison of Bids of the Bidders, the Procuring Agency may, ask any Bidder for a clarification. Any clarification submitted by a Bidder that is not in response to a request by the Procuring Agency shall not be considered.
	28.2	The request for clarification and the response shall be in writing or in electronic forms that provide record of the content of communication. In case of Single Stage Two Envelope Procedure, no change in the prices or substance of the Bid shall be sought, offered, or permitted, whereas in case of Single Stage One Envelope Procedure, only the correction of arithmetic errors discovered by the Procuring Agency in the evaluation of Bids should be sought in accordance with **ITB 31**.
	28.3	The alteration or modification in THE BID which in any affect the following parameters will be considered as a change in the substance of a bid: a. evaluation & qualification criteria; b. required scope of work or specifications; c. all securities requirements; d. tax requirements; e. terms and conditions of bidding documents. f. change in the ranking of the bidder
	28.4	From the time of Bid 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 in electronic forms that provide record of the content of communication.
29. Preliminary Examination of Bids	29.1	Prior to the detailed evaluation of Bids, the Procuring Agency will determine whether each Bid: a. meets the eligibility criteria defined in **ITB 3** and **ITB 4**; b. has been prepared as per the format and contents defined by the Procuring Agency in the Bidding Documents; c. has been properly signed; d. is accompanied by the required securities; and e. is substantially responsive to the requirements of the Bidding Documents. The Procuring Agency's determination of a Bid's responsiveness will be based on the contents of the Bid itself.

	29.2	A substantially responsive Bid is one which conforms to all the terms, conditions, and specifications of the Bidding Documents, without material deviation or reservation. A material deviation or reservation is one that: - a. affects in any substantial way the scope, quality, or performance of the Services; b. limits in any substantial way, inconsistent with the Bidding Documents, the Procuring Agency's rights or the Bidders obligations under the Contract; or c. if rectified, would affect unfairly the competitive position of other Bidders presenting substantially responsive Bids.
	29.3	The Procuring Agency will confirm that the documents and information specified under **ITB 11, 12** and **13** have been provided in the Bid. 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.
	29.4	The Procuring Agency may waive off any minor informality, nonconformity, or irregularity in a Bid which does not constitute a material deviation, provided such waiver does not prejudice or affect the relative ranking of any Bidder. ***Explanation:*** *A minor informality, non-conformity or irregularity is one that is merely a matter of form and not of substance. It also pertains to some immaterial defect in a Bid or variation of a bid from the exact requirements of the invitation that can be corrected or waived without being prejudicial to other bidders. The defect or variation is immaterial when the effect on quantity, quality, or delivery is negligible when contrasted with the total cost or scope of the supplies or services being acquired. The Procuring Agency either shall give the bidder an opportunity to cure any deficiency resulting from a minor informality or irregularity in a bid or waive the deficiency, whichever is advantageous to the Procuring Agency. Examples of minor informalities or irregularities include failure of a bidder to –* (a) *Submit the number of copies of signed bids required by the invitation;* (b) *Furnish required information concerning the number of its employees;* (c) *The firm submitting a bid has formally adopted or authorized, before the date set for opening of bids, the execution of documents by typewritten, printed, or stamped signature and submits evidence of such authorization and the bid carries such a signature.*
	29.5	Provided that a Technical Bid is substantially responsive, the Procuring Agency may request the Bidder to submit the necessary information or documentation, within a reasonable period of time, to rectify nonmaterial nonconformities or omissions in the Technical Bid related to documentation requirements. Requesting information or documentation on such nonconformities shall not be related to any such aspect of the technical Proposal linked with the ranking of the bidders. Failure of the Bidder to comply with the request may result in the rejection of its Bid.
	29.6	Provided that a Technical Bid is substantially responsive, the Procuring Agency shall rectify quantifiable nonmaterial nonconformities or omissions related to the Financial Proposal. To this effect, the Bid Price shall be adjusted, for comparison purposes only, to reflect the price of the missing or nonconforming item or component.
	29.7	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.
30. Examination of Terms and Conditions; Technical Evaluation	30.1	The Procuring Agency shall examine the Bid to confirm that all terms and conditions specified in the **GCC** and the **SCC** have been accepted by the Bidder without any material deviation or reservation.
	30.2	The Procuring Agency shall evaluate the technical aspects of the Bid submitted in accordance with **ITB 22,** to confirm that all requirements specified in **Section V – Schedule of Requirements**, **Technical Specifications of** the Bidding Documents have been met without material deviation or reservation.
	30.3	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 29,** it shall reject the Bid.
31. Correctness of Errors	31.1	Bids determined to be substantially responsive will be checked for any arithmetic errors. Errors will be corrected as follows: - a. 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; b. 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 c. where there is a discrepancy between the amounts in figures and in words, the amount in words will govern. d. Where there is discrepancy between grand total of price schedule and amount mentioned on the Form of Bid, the amount referred in Price Schedule shall be treated as correct subject to elimination of other errors.
	31.2	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, shall be considered as binding upon the Bidder. If the Bidder does not accept the corrected amount, its Bid will then be rejected, and the Bid Security may be forfeited or the Bid Securing Declaration may be executed in accordance with **ITB 18.9.**
32. Conversion to Single Currency	32.1	To facilitate evaluation and comparison, the Procuring Agency will convert all Bid prices expressed in the amounts in various currencies in which the Bid prices are payable. For the purposes of comparison of bids quoted in different currencies, the price shall be converted into a single currency specified in the bidding

documents. The rate of exchange shall be the selling rate, prevailing on the date of opening of (financial part of) bids specified in the bidding documents, as notified by the State Bank of Pakistan on that day.

32.2 The currency selected for converting Bid prices to a common base for the purpose of evaluation, along with the source and date of the exchange rate, are specified in the **BDS**.

33. Evaluation of Bids

33.1 The Procuring Agency shall evaluate and compare only the Bids determined to be substantially responsive, pursuant to **ITB 29**.

33.2 In evaluating the Technical Proposal of each Bid, the Procuring Agency shall use the criteria and methodologies listed in the BDS and in terms of Statement of Requirements and Technical Specifications. No other evaluation criteria or methodologies shall be permitted.

33.3 The Procuring Agency's evaluation of a Bid will take into account:

a. in the case of goods manufactured in Pakistan or goods of foreign origin already imported in Pakistan, Income Tax, General Sales Tax and other similar/applicable taxes, which will be payable on the goods if a contract is awarded to the Bidder;

b. in the case of goods of foreign origin offered from abroad, customs duties and other similar import taxes which will be payable on the goods if the contract is awarded to the Bidder; and

33.4 The comparison shall be between the EXW price of the goods offered from within Pakistan, such price to include all costs, as well as duties and taxes paid or payable on components and raw material incorporated or to be incorporated in the goods, and named port of destination, border point, or named place of destination) in accordance with applicable INCOTERM in the price of the goods offered from outside Pakistan. In evaluating the Bidders, the evaluation committee will, in addition to the Bid price quoted in accordance with ITB 15.1, take account of one or more of the following factors as specified in the **BDS**, and quantified in ITB 32.5:

a. Cost of inland transportation, insurance, and other costs within the Pakistan incidental to delivery of the goods to their final destination.
b. delivery schedule offered in the Bid;
c. deviations in payment schedule from that specified in the Special Conditions of Contract;
d. the cost of components, mandatory spare parts, and service;
e. the availability (in Pakistan) of spare parts and after-sales services for the equipment offered in the Bid;
f. the projected operating and maintenance costs during the life of the equipment;
g. the performance and productivity of the equipment offered; and/or;
h. other specific criteria indicated in the **TBS** and/or in the Technical Specifications.

33.5 For factors retained in **BDS**, pursuant to ITB 33.4 one or more of the following quantification methods will be applied, as detailed in the **BDS**:

a. *Inland transportation from EXW/port of entry/border point, Insurance and incidentals:*
Inland transportation, insurance, and other incidental costs for delivery of the goods from EXW/port of entry/border point to Project Site named in the **BDS** will be computed for each Bid by the PA on the basis of published tariffs by the rail or road transport agencies, insurance companies, and/or other appropriate sources. To facilitate such computation, Bidder shall furnish in its Bid the estimated dimensions and shipping weight and the approximate EXW or as per applicable INCOTERM value of each package. The above cost will be added by the Procuring Agency to EXW or as per applicable INCOTERM price.

b. Delivery Schedule

i) The Procuring Agency requires that the goods under the Invitation for Bids shall be delivered (shipped) at the time specified in the Schedule of Requirements. The estimated time of arrival of the goods at the Project Site will be calculated for each Bid after allowing for reasonable international and inland transportation time. Treating the Bid resulting in such time of arrival as the base, a delivery "adjustment" will be calculated for other Bids by applying a percentage, specified in the **BDS**, of the EXW or as per applicable INCOTERM price for each week of delay beyond the base, and this will be added to the Bid price for evaluation. No credit shall be given to early delivery. **OR**

ii) The goods covered under this invitation are required to be delivered (shipped) within an acceptable range of weeks specified in the Schedule of Requirement. **No credit will be given to earlier deliveries, and Bids offering delivery beyond this range will be treated as non-responsive.** Within this acceptable range, an adjustment per week, as specified in the **BDS**, will be added for evaluation to the Bid price of Bids offering deliveries later than the earliest delivery period specified in the Schedule of Requirements. **OR**

iii) The goods covered under this invitation are required to be delivered (shipped) in partial shipments, as specified in the Schedule of Requirements. Bids offering deliveries earlier or later than the specified deliveries will be adjusted in the evaluation by adding to the Bid price a factor equal to a percentage, specified in the **BDS**, of EXW or as per applicable INCOTERM price per week of variation from the specified delivery schedule.

		c. Deviation in Payment Schedule i) Bidders shall state their Bid price for the payment schedule outlined in the **SCC.** Bids will be evaluated on the basis of this base price. Bidders are, however, permitted to state an alternative payment schedule and indicate the reduction in Bid price they wish to offer for such alternative payment schedule. The Procuring Agency may consider the alternative payment schedule offered by the selected Bidder. **OR** *ii)* The **SCC** stipulates the payment schedule offered by the Procuring Agency. If a Bid deviates from the schedule and if such deviation is considered acceptable to the Procuring Agency, the Bid will be evaluated by calculating interest earned for any earlier payments involved in the terms outlined in the Bid as compared with those stipulated in this invitation, at the rate per annum specified in the **BDS.** *d. Cost of Spare Parts* i) The list of items and quantities of major assemblies, components, and selected spare parts, likely to be required during the initial period of operation specified in the **BDS**, is annexed to the Technical Specifications. The total cost of these items, at the unit prices quoted in each Bid, will be added to the Bid price. **OR** ii) The Procuring Agency will draw up a list of high-usage and high-value items of components and spare parts, along with estimated quantities of usage in the initial period of operation specified in the **BDS.** The total cost of these items and quantities will be computed from spare parts unit prices submitted by the Bidder and added to the Bid price. **OR** iii) The Procuring Agency will estimate the cost of spare parts usage in the initial period of operation specified in the **BDS**, based on information furnished by each Bidder, as well as on past experience of the Procuring Agency or other Procuring Agency's in similar situations. Such costs shall be added to the Bid price for evaluation e. *Spare parts and after sales service facilities in Pakistan* The cost to the Procuring Agency of establishing the minimum service facilities and parts inventories, as outlined in the **BDS** or elsewhere in the Bidding Documents, if quoted separately, shall be added to the Bid price. f. *Operating and maintenance costs* Since the operating and maintenance costs of the goods under procurement form a major part of the life cycle cost of the equipment, these costs will be evaluated in accordance with the criteria specified in the **BDS** or in the Technical Specifications. g. *Performance and productivity of the equipment.* (i) Bidders shall state the guaranteed performance or efficiency in response to the Technical Specification. For each drop in the performance or efficiency below the norm of 100, an adjustment for an amount specified in the **BDS** will be added to the Bid Price, representing the capitalized cost of additional operating costs over the life of the plant, using the methodology specified in the **BDS** or in the Technical Specifications. **OR** (ii) Goods offered shall have a minimum productivity specified under the relevant provision in the Technical Specifications to be considered responsive. Evaluation shall be based on the cost per unit of the actual productivity of goods offered in the Bid, and adjustment will be added to the Bid price using the methodology specified in the **BDS** or in the Technical Specifications. h. *Specific Additional Criteria* Other specific additional criteria to be considered in the evaluation and the evaluation method shall be detailed in the **BDS** and/or the Technical Specifications.
	33.6	If these Bidding Documents allow Bidders to quote separate prices for different Lots, and the award to a single Bidder of multiple Lots, the methodology of evaluation to determine the lowest evaluated Lot combinations, including any discounts offered in the Form of Bid, is specified in the **BDS.**
34. Domestic Preferences	34.1	If the **BDS** so specifies, the Procuring Agency will grant a margin of preference to certain goods in line with the rules, regulations, regulatory guides or instructions issued by the Authority from time to time.
35. Determination of Most Advantageous Bid	35.1	In case where the Procuring Agency adopts the Cost Based Evaluation Technique and, the Bid with the lowest evaluated price from amongst those which are eligible, compliant and substantially responsive shall be the Most Advantageous Bid.
	35.2	The Procuring Agency may adopt the Quality & Cost Based Selection Technique due to the following two reasons: i. Where the Procuring Agency knows about the main features, usage and output of the products; however not clear about the complete features, technical specifications and functionalities of the goods to be procured and requires the bidders to submit their proposals defining those features, specifications and functionalities; or ii. Where the Procuring Agency, in addition to the mandatory requirements and mandatory technical

	specifications, requires parameters **specified in Evaluation Criteria** to be evaluated while determining the quality of the goods: In such cases, the Procuring Agency may allocate certain weightage to these factors as a part of Evaluation Criteria, and may determine the ranking of the bidders on the basis of combined evaluation in accordance with provisions of Rule 2(1)(h) of PPR-2004.
36. Post qualification of Bidder and/or Abnormally Low Financial Proposal	36.1 After determining the Most Advantageous Bid, if neither the pre-qualification was undertaken separately nor any qualification parameters were undertaken as part of determining the Most Advantageous Bid, the Procuring Agency shall carry out the post-qualification of the Bidder using only the requirements specified in the **BDS**. In case of International Tendering, the parameters for incorporation or licensing within Pakistan may be fulfilled as part of post qualification. 36.2 Where the Bid price is considered to be abnormally low, the Procuring Agency shall perform price analysis either during determination of Most Advantageous Bid or as a part of the post-qualification process. The following process shall apply: (a) The Procuring Agency may reject a Bid if the Procuring Agency 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 (i.e. scope of the procurement or ancillary services) and raises concerns as to the capability and capacity of the respective Bidder to perform that contract (b) Before rejecting an abnormally low Bid the Procuring Agency shall request the Bidder an explanation of the Bid or of those parts which it considers contribute to the Bid being abnormally low; take account of the evidence provided in response to a request in writing; and subsequently verify the Bid or parts of the Bid being abnormally low; (c) The decision of the Procuring Agency to reject a Bid and reasons for the decision shall be recorded in the procurement proceedings and promptly communicated to the Bidder concerned; (d) The Procuring Agency shall not incur any liability solely by rejecting abnormally Bid; and (e) An abnormally low Bid means, in the light of the Procuring Agency's estimate and of all the Bids submitted, the Bid appears to be abnormally low by not providing a margin for normal levels of profit. Guidance for Procuring Agency: In order to identify the Abnormally Low Bid (ALB) following approaches can be considered to minimize the scope of subjectivity: (i) Comparing the bid price with the cost estimate; (ii) Comparing the bid price with the bids offered by other bidders submitting substantially responsive bids; and (iii) Comparing the bid price with prices paid in similar contracts in the recent past either government- or development partner-funded. 36.3 The Procuring Agency will determine to its satisfaction whether the Bidder that is selected as having submitted the most advantageous Bid is qualified to perform the contract satisfactorily, in accordance with the criteria listed in ITB 13.3. 36.4 The determination will take into account the Bidder's financial, technical, and production capabilities. It will be based upon an examination of the documentary evidence of the Bidder's qualifications submitted by the Bidder, pursuant to ITB 13.3, as well as such other information as the Procuring Agency deems necessary and appropriate. Factors not included in these Bidding Documents shall not be used in the evaluation of the Bidders' qualifications. 36.5 Procuring Agency may seek "Certificate for Independent Price Determination" from the Bidder and the results of reference checks may be used in determining award of contract. Explanation: The Certificate shall be furnished by the bidder. The bidder shall certify that the price is determined keeping in view of all the essential aspects such as raw material, its processing, value addition, optimization of resources due to economy of scale, transportation, insurance and margin of profit etc. 36.6 An affirmative determination will be a prerequisite for award of the contract to the Bidder. A negative determination will result in rejection of the Bidder's Bid, in which event the Procuring Agency will proceed to the next ranked bidder to make a similar determination of that Bidder's capabilities to perform satisfactorily.
F. Award of Contract	
37. Criteria of Award	37.1 Subject to ITB 36 and 38, the Procuring Agency will award the Contract to the Bidder whose Bid has been determined to be substantially responsive to the Bidding Documents and who has been declared as Most Advantageous Bidder, provided that such Bidder has been determined to be: a) eligible in accordance with the provisions of ITB 3; b) is determined to be qualified to perform the Contract satisfactorily; and c) Successful negotiations have been concluded, if any.
38. Negotiations	38.1 Negotiations may be undertaken with the Most Advantageous Bid relating to the following areas:

	(a) a minor alteration to the technical details of the statement of requirements; (b) reduction of quantities for budgetary reasons, where the reduction is in excess of any provided for in the Biding documents; (c) a minor amendment to the special conditions of Contract; (d) finalizing payment arrangements; (e) delivery arrangements; (f) the methodology for provision of related services; or (g) clarifying details that were not apparent or could not be finalized at the time of Bidding; 38.2 Where negotiation fails to result into an agreement, the Procuring Agency may invite the next ranked Bidder for negotiations. Where negotiations are commenced with the next ranked Bidder, the Procuring Agency shall not reopen earlier negotiations.
39. Procuring Agency's Right to reject All Bids	39.1 Notwithstanding **ITB 37**, the Procuring Agency reserves the right to reject all the bids, and to annul the Bidding process at any time prior to award of contract, without thereby incurring any liability to the affected Bidder or Bidders. However, the Authority (i.e. PPRA) may call from the Procuring Agency the justification of those grounds. 39.2 Notice of the rejection of all Bids shall be given promptly to all Bidders that have submitted Bids. 39.3 The Procuring Agency shall upon request communicate to any Bidder the grounds for its rejection of its Bids, but is not required to justify those grounds
40. Procuring Agency's Right to Vary Quantities at the time of Award	40.1 The Procuring Agency reserves the right at the time of contract award to increase or decrease the quantity of goods or related services originally specified in these Bidding Documents (schedule of requirements) provided this does not exceed by the percentage indicated in the BDS, without any change in unit price or other terms and conditions of the Bid and Bidding Documents.
41. Notification of Award	41.1 Prior to the award of contract, the Procuring Agency shall issue a Final Evaluation Report giving justification for acceptance or rejection of the bids. 41.2 Where no complaints have been lodged, the Bidder whose Bid has been accepted will be notified of the award by the Procuring Agency prior to expiration of the Bid Validity period in writing or electronic forms that provide record of the content of communication. The Letter of Acceptance 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). 41.3 The notification of award will constitute the formation of the Contract, subject to the Bidder furnishing the Performance Security (or guarantee) in accordance with **ITB 43** and signing of the contract in accordance with **ITB 42.2.** 41.4 Upon the successful Bidder's furnishing of the performance security (or guarantee) pursuant to **ITB 43**, the Procuring Agency will promptly notify each unsuccessful Bidder, the name of the successful Bidder and the Contract amount and will discharge the Bid Security or Bid Securing Declaration of the Bidders pursuant to **ITB 18.7.**
42. Signing of Contract	42.1 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. 42.2 Immediately after the Redressal of grievance by the GRC, and **after fulfillment of all conditions precedent** of the Contract Form, the successful Bidder and the Procuring Agency shall sign the contract. 42.3 Where no formal signing of a contract is required, purchase order issued to the bidder shall be construed to be the contract.
43. Performance Security (or Guarantee)	43.1 After the receipt of the Letter of Acceptance, the successful Bidder, within the specified time, shall deliver to the Procuring Agency a Performance Security (or 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. 43.2 If the Performance Security (or Guarantee) is provided by the successful Bidder and it shall be in the form specified in the **BDS** which shall be in any of the following: (a) certified cheque, cashier's or manager's cheque, or bank draft; (b) irrevocable letter of credit issued by a Scheduled bank or in the case of an irrevocable letter of credit issued by a foreign bank, the letter shall be confirmed or authenticated by a Scheduled bank. (c) bank guarantee confirmed by a reputable local bank or, in the case of a successful foreign Bidder, bonded by a foreign bank; or (d) surety bond callable upon demand issued by any reputable surety or insurance company. Any Performance Security (or guarantee) submitted shall be enforceable in Pakistan. 43.3 Failure of the successful Bidder to comply with the requirement of **ITB 43.1** 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.
44. Advance Payment	44.1	The advance payment will not be provided in normal circumstances. However, in case where international incoterms are involved, the same will be dealt with standard international practices and in the manner as prescribed in ITB 44.2.
	44.2	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 Security (Guarantee) in the form provided in Section IX. For the purpose of receiving the Advance Payment, the Bidder shall make and estimate of, and include in its Bid, the expenses that will be incurred in order to commence Delivery of Goods. These expenses will relate to the purchase of equipment, machinery, materials, and on the engagement of labor during the first month beginning with the date of the Procuring Agency's "Notice to Commence" as specified in the **SCC**.
45. Arbitrator	45.1	The Arbitrator shall be appointed by mutual consent of both parties as per the provisions specified in the SCC.
46. Corrupt and Fraudulent Practices	46.1	Procuring Agencies (including beneficiaries of Government funded projects and procurement) as well as Bidders/Suppliers/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		
47. Constitution of Grievance Redressal Committee	47.1	Procuring agency shall constitute a Grievance Redressal Committee (GRC) comprising of odd number of person with proper power and authorization to address the complaint. The GRC shall not have any of the members of Procurement Evaluation Committee. The committee must have one subject specialist depending the nature of the procurement.
48. GRC Procedure	48.1	Any party can file its written complaint against the eligibility parameters or any other terms and conditions prescribed in the prequalification or bidding documents found contrary to provision of Procurement Regulatory Framework, and the same shall be addressed by the GRC well before the bid submission deadline.
	48.2	Any Bidder feeling aggrieved by any act of the procuring agency after the submission of his bid may lodge a written complaint concerning his grievances not later than seven days of the announcement of technical evaluation report and five days after issuance of final evaluation report.
	48.3	In case, the complaint is filed against the technical evaluation report, the GRC shall suspend the procurement proceedings.
	48.4	In case, the complaint is filed after the issuance of the final evaluation report, the complainant cannot 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 one envelop bidding procedure is adopted.
	48.5	The GRC, in both the cases shall investigate and decide upon the complaint within ten days of its receipt.
	48.6	Any bidder or the procuring agency not satisfied with the decision of the GRC may file Appeal before the Appellate Committee of the Authority on prescribed format after depositing the prescribed fee.
	48.7	The Committee, upon receipt of the Appeal against the decision of the GRC complete in all respect shall serve notices in writing upon all the parties to Appeal.
	48.8	The committee shall call the record from the concerned procuring agency or the GRC as the case may be, and the same shall be provided within prescribed time.
	48.9	The committee may after examination of the relevant record and hearing all the concerned parties, shall decide the complaint within fifteen (15) days of receipt of the Appeal.
	48.10	The decision of the Committee shall be in writing and shall be signed by the Head and each Member of the Committee. The decision of the committee shall be final.
H. MECHANISM OF BLACKLISTING		
49. Mechanism of Blacklisting	49.1	The Procuring Agency shall bar for not more than the time prescribed in Rule-19 of the Public Procurement Rules, 2004, from participating in their respective procurement proceedings, bidder or contractor who either: i. Involved in corrupt and fraudulent practices as defined in Rule-2 of Public Procurement Rules; ii. Fails to perform his contractual obligations; and iii. Fails to abide by the id securing declaration;
	49.2	The show cause notice shall contain: (a) precise allegation, against the bidder or contractor; (b) the maximum period for which the Procuring Agency proposes to debar the bidder or contractor from participating in any public procurement of the Procuring Agency; and (c) the statement, if needed, about the intention of the Procuring Agency to make a request to the Authority for debarring the bidder or contractor from participating in public procurements of all the procuring agencies.
	49.3	The procuring agency shall give minimum of seven days to the bidder or contractor for submission of written

	reply of the show cause notice. 49.4 In case, the bidder or contractor fails to submit written reply within the requisite time, the Procuring Agency may issue notice for personal hearing to the bidder or contractor/ authorize representative of the bidder or contractor and the procuring agency shall decide the matter on the basis of available record and personal hearing, if availed. 49.5 In case the bidder or contractor submits written reply of the show cause notice, the Procuring Agency may decide to file the matter or direct issuance of a notice to the bidder or contractor for personal hearing. 49.6 The Procuring Agency shall give minimum of seven days to the bidder or contractor for appearance before the specified officer of the Procuring Agency for personal hearing. The specified officer shall decide the matter on the basis of the available record and personal hearing of the bidder or contractor, if availed. 49.7 The procuring Agency shall decide the matter within fifteen days from the date of personal hearing unless the personal hearing is adjourned to a next date and in such an eventuality, the period of personal hearing shall be reckoned from the last date of personal hearing. 49.8 The Procuring Agency shall communicate to the bidder or contractor the order of debarring the bidder or contractor from participating in any public procurement with a statement that the bidder or contractor may, within thirty days, prefer a representation against the order before the Authority. 49.9 Such blacklisting or barring action shall be communicated by the procuring agency to the Authority and respective bidder or bidders in the form of decision containing the grounds for such action. The same shall be publicized by the Authority after examining the record whether the procedure defined in blacklisting and debarment mechanism has been adhered to by the procuring agency. 49.10 The bidder may file the review petition before the Review Petition Committee Authority within thirty days of communication of such blacklisting or barring action after depositing the prescribed fee and in accordance with "Procedure of filing and disposal of review petition under Rule-19(3) Regulations, 2021". The Committee shall evaluate the case and decide within ninety days of filing of review petition 49.11 The committee shall serve a notice in writing upon all respondent of the review petition. The notices shall be accompanied by the copies of review petition and all attached documents of the review petition including the decision of the procuring agency. The parties may file written statements along with essential documents in support of their contentions. The Committee may pass such order on the representation may deem fit. 49.12 The Authority on the basis of decision made by the committee either may debar a bidder or contractor from participating in any public procurement process of all or some of the procuring agencies for such period as the deemed appropriate or acquit the bidder from the allegations. The decision of the Authority shall be final.

SECTION III: BID DATA SHEET

Section III. Bid Data Sheet (BDS)

BDS Clause Number	ITB Number	Amendments of, and Supplements to, Clauses in the Instruction to Bidders
		1. INTRODUCTION
1.	**1.1**	Name of Procuring Agency: **SBP Banking Service Corporation** The Description (as specified in IFB) of the Goods is: **Allied Electrical Works for Supply, Installation, Testing & Commissioning of 350 TR Water Cooled Centrifugal Chiller Works at Main AC Plant, SBP Karachi** Period for Contract: 180 days. Commencement date for delivery: To be notified in work order.
2.	**2.1**	Financial year for the operations of the Procuring Agency: [*2024-25*] Name of Project: **Allied Electrical Works for Supply, Installation, Testing & Commissioning of 350 TR Water Cooled Centrifugal Chiller Works at Main AC Plant, SBP Karachi** Name and identification number of the Contract: **ED/PROC-HOK/223440/2025/248**
3.	**3.1**	Joint Venture is **NOT Applicable**
4.	**4.1**	Ineligible country(s) are [***as per Section IV of the Bidding Documents***]
5.	**4.5**	Demonstration of authorization by manufacturer/distributor: ***Manufacturer's Authorization Form is not required.***
		2. BIDDING DOCUMENTS
6.	**7.2**	Copy of bid is not required. Bid shall be submitted through EPADS.
7.	**8.1**	A prospective Bidder requiring any clarification of the Bidding Documents may approach Procuring Agency through EPADS.
	8.5	Pre-Bid Meeting is not required.
	9.2	Any addendum issued including the notice of any extension of the deadline shall be part of the Bidding Documents pursuant to ITB 7.1 and shall be communicated through EPADS.
		3. PREPARATION OF BIDS
8.	**10.1**	The Language of all correspondences and documents related to the Bid is **English / Urdu.**
9.	**11.1(h)**	Documents required under Eligibility Criteria / Qualification Criteria.
10.	**12.3 (c)**	Other procurement specific documentation requirements are **Not Required**
11.	**12.4**	**Not Required**
12.	**13.3 (b)**	The eligibility and qualification criteria required from Bidders in **ITB 13.3(b)** is modified as provided in "Bidder's Eligibility / Qualification Criteria".
13.	**15.6 (b)**	**For goods offered from abroad the price quoted shall be:** **Not Applicable**
14.	**15.7 (a) (i)**	For goods manufactured or delivered from within Pakistan the price quoted shall be on a Delivered Duty Paid (DDP) basis, inclusive of all taxes, stamps, duties, levies, fees, transportation, insurance, incidental services imposed till the delivery location specified in the Schedule of Requirements. **No separate payment shall be made for the incidental services to delivery of the goods to their final destination i.e. Procuring Agency's Site(s)**.
15.	**15.9**	Bidder may offer any price reduction which shall be specified in their Bid the price reductions applicable to this tender.
16.	**16.1 (a)**	a) For goods and related services originating in Pakistan the currency of the Bid shall be ***Pakistani Rupees*;** b) For goods and related services that the Bidder will deliver from outside Pakistan, the currency of the Bid shall be ***Pakistani Rupees***.
17.	**17.1**	The Bid Validity period shall be **180** days.
18.	**18.1**	The amount of Bid Security shall be **Rs.400,000/-.** The currency of the Bid Security shall be: **Pakistani Rupees**

19.	**18.3**	The Bid Security shall be in favor of 'SBP Banking Services Corporation' in the form of: *either Payment Order/Bank Draft in Pakistan*.
20.	**18.3 (c)**	Another Security: **Not Applicable.**
21.	**19.1**	Alternative and conditional Bids to the requirements of the Bidding Documents is not permitted and bid will be held non-responsive.
22.	**21.1**	The Bidder shall submit the bid through EPADS, completed in all respects of this bidding document. Copy of Bid is not required.
23.	**21.2**	Written confirmation of authorization is: Letter of authorization to sign contract & submit proposal on behalf of bidding company.
		4. SUBMISSION OF BIDS
24.	**22**	The Bidding shall be conducted in line with the Rule 36 (b) Single Stage - Two Envelope procedure prescribed under Public Procurement Rules 2004, e-Pak Procurement Regulations, 2023 and is open to all potential bidders registered in the EPADS. 1. **Following should be the contents of the Technical Bid:** i. Bid Security ii. Duly signed and stamped, Volume-I of the Bidding document. iii. All documents related to Minimum Eligibility/Qualification Criteria including Annexure (If Any) 2. **Following should be the contents of the Financial Proposal /Volume-II:** i. Duly filled, signed and stamped, Volume-II of the Bidding document
25.	**22.2 (a) & 22.4 (a)**	Address of the Procuring Agency; **Director Engineering (A)** SBP Banking Service Corporation 1st Floor, Engineering Department, SBP-BSC Bolton Market Building, M.A. Jinnah Road Karachi Phone: (92-21)–32454122/05/71, Facsimile: (92-21)-99221176 Website: www.sbp.org.pk
26.	**22.2 (b) & 22.4 (b)**	Title of the subject Procurement or Project name: **Allied Electrical Works for Supply, Installation, Testing & Commissioning of 350 TR Water Cooled Centrifugal Chiller Works at Main AC Plant, SBP Karachi** ITB title and No: ***ED/PROC-HOK/223440/2025/248***
27.	**23.1**	As specified in published ITB
		5. OPENING AND EVALUATION OF BIDS
28.	**26.1**	As specified in published ITB
29.	**27**	Information relating to evaluation of bids and recommendations concerning to award of the contract shall not be disclosed by the Procuring Agency to the bidders or to any other person who is not officially concerned with the process, until the announcement of the result of evaluation. The Bidder shall not disclose or attempt to make public any information relating to the bidding documents, bidding process and award of the contract to any person or entity without the Procuring Agency's prior written consent. In case of any disclosure related to the bidding process and contractual obligations at any stage by any bidder, the Procuring Agency may reject its bid and/or terminate the contract.
30.	**32.2**	The currency that shall be used for Bid evaluation and comparison purposes is: **Pakistani Rupees**.
31.	**33.4 (h)**	Other specific criteria are **Nil**
32.	**33.5 (b)**	Delivery schedule: The goods covered under this invitation are required to be delivered within time specified in the Schedule of Requirement. **No credit will be given to earlier deliveries, and Bids offering delivery beyond this range will be treated as non-responsive.**
33.	**33.5 (c) (i & ii)**	Alternate payment & Deviation in payment schedule are **Not Applicable**.
34.	**33.5 (d)**	Cost of spare parts : **Not applicable**
35.	**33.5 (e)**	Spare parts and after sales service facilities in Pakistan : **Not applicable**
36.	**33.5 (f)**	Operating and maintenance costs : **Not applicable**

37.	**33.5 (g)**	Performance and productivity of Equipment Goods offered shall have a minimum productivity specified under the relevant provision to be considered responsive as specified in the Technical Specifications.
38.	**33.5 (h)**	Specific additional criteria to be used in the evaluation and their evaluation method or reference to the Technical Specifications is **Not Applicable**.
39.	**33.6**	The contract will be awarded to the Bidder offering the lowest evaluated cost, subject to the selected Bidder meeting the required qualification criteria for which they were qualified.
40.	**34.1**	Domestic preference **Not Applicable.**
41.	**35**	**Evaluation Techniques** **Least Cost Based Selection (LCBS)** After meeting the requirements of eligibility, qualification and substantial responsiveness, the bid in compliance with all the mandatory (technical) specifications/requirements and/or requisite quality threshold (if any), and having lowest evaluated cost (or financial proposal) shall be considered highest ranked bid (Most Advantageous Bid).
6. AWARD OF CONTRACT		
42.	**39.2**	Notice of the rejection of all the bids shall be given to all the bidders through EPADS.
43.	**40.1**	Percentage for quantity increase or decrease is **15%**.
44.	**43.1**	44.1 The amount of performance security (or guarantee), as a percentage of the Contract Price, shall be **10%** of the Contract Price state in the Letter of Acceptance / Award in favour of SBP-Banking Services Corporation. 44.2 Notwithstanding anything contained in the Contract and / or applicable law the Performance Security shall be forfeited if the Supplier fails to perform its obligations under the Contract.
45.	**43.2**	a. The Performance Security (Guarantee) shall be in in the form of Pay Order / Demand Draft / unconditional Bank Guarantee enforceable in Pakistan as per Performance Security (Guarantee) form specified in the Bidding Documents. b. The Performance Security shall be valid till successful completion of Defect Liability Period / Warranty Period and will be released after successful expiry of Defect Liability Period / Warranty Period.
46.	**44.2**	The Advance Payment will be made as under: a. Up to 15% to total Contract Price (excluding SLA if applicable) against bank guarantee from Scheduled Bank in Pakistan b. This Advance shall be recovered @ 50% of the amount of work done from Interim Payment Certificates (IPC) and shall be fully recovered at least one month before scheduled completion time. The validity of Mobilization Advance Guarantee shall be valid for 60 days beyond the work completion period. Such Guarantee may be progressively reduced to the balance amount of Mobilization Advance indicated in Interim Payment Certificates of the Engineer issued in accordance with this Clause after receipt and verification of the revised guarantee not less than the due amount of mobilization advance.
47.	**45.1**	In case of any dispute arises between the procuring agency and bidder (hereinafter referred to as parties) in connection with or arising out of the contract or the bid, the dispute shall be resolved amicably by the parties. In case if the parties fail to resolve the dispute amicably, such dispute shall be resolved through Arbitration in accordance with Arbitration Act, 1940. The place of Arbitration would be Karachi.
7. REVIEW OF PROCUREMENT DECISIONS		
48.	**48.1**	Grievances are to be dealt in accordance with Rule 13 of E-Pak-Procurement Regulations, 2023.

SECTION IV: ELIGIBLE COUNTRIES

All the bidders are allowed to participate in the subject procurement without regard to nationality, except bidders of some nationality, prohibited in accordance with policy of the Federal Government.

Following countries are ineligible to participate in the procurement process:

1. India
2. Israel

Ministry of Interior, Government of Pakistan has notified List of Business Friendly Countries (BVL). Information can be accessed through following link:

http://www.dgip.gov.pk/Files/Visa%20Categories.aspx#L

SECTION V: SCHEDULE OF REQUIREMENTS, TECHNICAL SPECIFICATIONS

Schedule of Requirement

Completion / Delivery Time: 180 days

Construction Schedule

Bidder shall provide a program in a bar-chart showing the sequence of work items by which he proposes to complete the Works of the entire Contract. The program should indicate the sequence of work items and the period of time during which he proposes to complete the Works including the activities like designing, schedule of submittal of drawings, ordering and procurement of materials, manufacturing, delivering, construction of civil works, erection, testing and commissioning of Works to be supplied under the Contract. The proposed sequence of execution of various sections of the project shall be according to the given Key Performance Indicators (KPIs) as following:

Sr. No.	Description of Activity	Days	Start Date	Finish Date	Execution Schedule						
					0-30	31-60	61-90	91-120.	121-150	151-180	
1	Submission of technical documents along with shop Drawings, data sheets, and specifications for approval.	15									
2	Approval from Employer	15									
3	Placement of Order and submission of documentary evidence	15									
4	Equipment Manufacturing (Transformer, LV Panels, Cables, Busway, Cable trays etc.)	45									
5	Delivery of Cables and accessories	15									
6	Cabling Works	30									
7	Shifting of Fuel Tank	15									
8	Fuel tank and piping works	15									
9	Shifting of Generator from SBP BSC Faisalabad	15									
10	Delivery of Transformer, Busways and LV Panels	15									
11	Dismantling Works	10									
12	Installation of Transformer, Busways and LV panels	30									
13	Testing and Commissioning of entire electrical system	15									
14	Integration of New Chiller	7									
15	Finishing Work and attending punch listing items	7									

The above Key Performance Indicators should be taken into consideration by the bidder in order to execute the works.

If the above KPI is not acceptable to any bidder, the bidder will prepare its own Work Program along with detailed justification for its change. Bids without above given Work Program or bidder's own proposed Work Program without justification shall not be considered responsive.

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SECTION V. QUALIFICATION CRITERIA

1. Qualification Criteria

1.1. General

Qualification will be based on all the criteria given in succeeding para. Employer reserves the right to waive minor deviations, if these don't materially affect the capability of an applicant to perform the contract. Joint Venture or consortium is not allowed. The Employer reserves the right to seek further information and / or verify the information/documents furnished by the bidders. In this regard, Employer reserve the right to have site visit to verify the previous installation /work experience etc. The Employer may reject any bid for any misrepresentation made by any bidder in, or pursuant to, their bid or for any statement furnished in connection therewith, and intended to be relied upon by the Employer, which is incorrect in any respect.

1.2. Parameters of Bid Evaluation & Qualification

A. Preliminary Scrutiny

Preliminary Scrutiny will be based on all the criteria given below. The Bidder failed in Preliminary Scrutiny shall be considered disqualified and its Technical Bid will not be evaluated any further.

Sr No	**Description**	**Annexure / Page No. of attached Document**
1.	**Bid Security** Bid Security in original is required to be submitted through sealed envelope before opening of Bid.	
2.	**Bidding Document** Duly signed and stamped, Volume-I of the Bidding document including all required Forms.	
3.	**Undertaking (As per Format attached)** The bidder is required to submit an undertaking on stamp paper of as per format provided.	
4.	**FBR Registration** Bidder must be registered with FBR in Income Tax and General Sales Tax and must active taxpayer as per Federal Board of Revenue (FBR's) revenue Data base i-e Active Tax Payer List (NTN & GST).	
5.	**Revenue Registration** The Bidder should also be registered with relevant / concerned Provincial Revenue Authority. If not registered, the 100% tax shall be deducted at source as per applicable law and credited to relevant account.	
6.	**PEC Registration** Bidder must have valid registration with Pakistan Engineering Council at least in Category C-05, or above with specialized category EE-04 (Low Voltage Installation)	

B. Detailed Scrutiny

Detailed Scrutiny will be based on all criteria given below.

Sr No.	Description	Annexure / Page No. of attached Document
7.	**General Experience:** Minimum experience of the company/ firm should not less than five (05) Years for performing works related to Electrical Works. (Copy of previous/oldest work order(s) / any other tractable evidence) The bidder shall provide complete list of relevant and ongoing projects executed recently, showing completion period & cost, clients' names/address.	
8.	**Particular Experience:** The bidder should have executed minimum One (01) project of electrical works including installation of low voltage panels and transformers of cost 15.0M executed during last five (05) years OR The bidder should have executed minimum two (02) projects of electrical works including installation of low voltage panels and transformers of cost 8.0M executed during last five (05) years (The bidder shall provide documentary evidence such as work order, completion certificate or Contract documents showing scope of works and Amount of Contract)	
9.	**Financial Capability:** Available Financial Capability/Liquid Assets of Rs. 5.0 Million or above. Bank statement of firm be submitted as evidence showing required balance at any one instant in the statement of last three months before date of publication of tender notice or available Bank Credit Line facility during same period or liquid assets of equivalent value.	
10.	**Technical Specifications** The bidder/contractor shall provide technical brochures of quoted equipment complying with specification mentioned in Bill of Quantities (BOQ) and Schedule of Specifications, **Appendix A**.	
11.	**Office / Support Office:** The Bidder should have Office/Support Office in Karachi. The office address and contact details should be submitted with the bid.	

Appendix-A to Bid

Technical Specifications

(to be signed by the Bidder)

Following are the specification of material. Bidder can also offer equivalent products, however, adequate documentation in the form of technical data sheets and type test certificates from independent laboratories stating the standards to which the product complies with shall be furnished in the support of their being equivalent. The Employer/ Consultant reserves the right to ask the bidder of additional documentation in the regard.

Product	Standards	Reference	Offered Make
Transformer	IEC-60076 or equivalent. The transformer manufacturer must have at least 5 years of experience in manufacturing transformers with a rating of 1000 kVA or higher. The bidder should provide documentary evidence from the Transformer manufacturer.	As per standards and specifications mentioned in the Bill of Quantities (BOQ) and Section: Transformers	
Low Voltage Cables	IEC 60502-1, or equivalent. The offered cables brand must be type tested at KEMA or other internationally recognized testing laboratory.	As per standards and specifications mentioned in the Bill of Quantities (BOQ) and Section: Low Power Cables	
LV Panels, Distribution Boards	IEC61439 or equivalent The panel manufacturer should submit on letterhead that the manufactured LV panels comply with the above-mentioned standards	As per standards and specifications mentioned in the Bill of Quantities (BOQ) and Section : Low Voltage Switchgear	
LV Circuit Breakers: ACB and MCCB	IEC60947-2 or equivalent. The mechanical and electrical characteristics of the circuit breakers are guaranteed up to the maximum temperature of 60 degrees centigrade	As per standards and specifications mentioned in the Bill of Quantities (BOQ) and Section : Low Voltage Circuit Breakers	

Appendix-B to Bid

Technical Specifications

SECTION 1: TRANSFORMER

1.0 SCOPE

The work under this section consists of supplying, installing, testing, connecting and commissioning of all materials and services of the complete Indoor Power Transformer as specified herein, or as given in the Tender Drawings and in the Bill of Quantities.

The Contractor shall discuss the electrical layout with the Engineer and co- ordinate at site with other services for exact route, location and position of the equipment.

After award of work, the routine tests as per standards shall be carried out and witnessed at manufacturer's works with instruments duly calibrated from accredited facility.

2.0 GENERAL

The capacity of transformers to be provided are shown on the drawings and mentioned in Bill of Quantities. The transformers shall be complete, with all accessories and attachments as detailed in these specifications or otherwise required for satisfactory service.

All pertinent details, drawings, data, etc. shall be provided to the Engineer for approval prior to manufacturing.

Transformer built to these specifications and the standards given in this section or other relevant standards approved by the Engineer will be acceptable.

3.0 APPLICABLE STANDARDS/CODES

The following standards and codes shall be applicable for all materials in scope of this section: -

IEC 60076 - guidelines for the design, manufacturing, testing, and commissioning of power transformers

IEC 76	-	Recommendation for Power transformers
BS 148	-	Transformer oil
BS 171	-	Specifications for power transformer
BS 223	-	High voltage bushings

4.0 MATERIAL

Power Transformer Construction

The transformer tank shall be constructed of welded boilerplates and provided with external radiating tubes. The tank and radiating tubes shall be designed to withstand, without developing any deformation, pressure at least 25% greater than the maximum operating pressure. The steel cover plate shall be bolted to the tank-using gasket for perfect oil seal. Inspection hole with cover shall be provided on top of the tank. Two earth terminals shall be provided diagonally at the base of the transformer tank. The transformer shall be anti-corrosive painted and finished in grey color.

The oil preservation system shall have a conservator tank fitted with silica gel breather and oil level indicator.

The transformer core shall be built of non-aging, cold rolled, electrical silicon steel lamination and each lamination insulated to reduce eddy current losses. The core laminations shall be clamped and bolted effectively to reduce humming. The winding coils shall be of high-grade electrolytic copper conductor, flat or round, paper insulated, thoroughly dried and impregnated as required.

The high tension (H.T) lead on indoor transformer shall be brought out to glazed porcelain insulator bushings for external connections to cables. Protective spark gaps of suitable design shall be connected in parallel to the bushings to protect the transformer from surge voltages.

The three L.T and neutral phase leads shall be brought out and terminated at glazed porcelain insulator bushings for connection to L.T side by copper bus-duct or cables.

Off-load tap changer shall be provided on H.T side at suitable location preferably on the side of transformer tank. A clear marking, illustrated by diagram, shall be provided to indicate the tap positions.

Double float Buchholz relay shall be provided on the transformer. It shall have required number of contacts for connection to tripping and alarm circuits. Protective arching horns shall be provided on H.T bushings.

Principal Data of Power Transformer

The transformers shall be fully tropicalized, three phase, step down, oil filled, self-cooled, core type, double wound, suitable for parallel operation, and for indoor installation. The transformer shall meet the following specifications:

-	Capacity (Rated continuous: full load)		As stated on drawings output at and BOQ
-	Voltage ratio at no-load:		11000/415 Volts
-	Frequency :		50 Hz
-	Vector group :		Dyn 11
-	Off load tapping arrangement: on H.T side		±2.5%, ±5%, -7.5%
-	H.T connection	:	11 kV Delta
-	L.T connection	:	415 V with grounded star point.
-	Neutral on L.T side	:	Brought out & solidly earthed
-	Ambient temperature	:	50°C
-	Impedance voltage	:	5% to 6%
-	Voltage regulation for operating condition power factor	:	Not to exceed 2.5% of rated no-load secondary voltage at 85%
-	Rated short-time current	:	Equal to the rating of associated H.T. Switchboard.

- Cooling : mineral oil immersed natural cooled type (ONAN)

The design data to be furnished by the Contractor for approval of the Engineer shall include, but not limited to the following:

- Iron losses.
- Copper losses.
- Rated short-time current.
- Switching in-rush current.
- Efficiencies at different loads.
- Voltage regulation
- Type and quantity of oil for complete filling of transformer.
- Transformer weight.

Accessories

In addition to the standard accessories of the power transformer as offered by the manufacturer, the transformer shall also be provided with following accessories: -

- Oil filling valve for vacuum filling of oil.
- Oil drain plug.
- Bi-directional rollers.
- Lifting lugs.
- Neutral and body earth points to be provided
- Dial type thermometer with maximum temperature indicator and two adjustable normally open contacts for temperature alarm and tripping.
- Stainless steel diagram and rating plate according to IEC-76.
- Pressure release safety valve.

5.0 INSTALLATION

Transformer shall be installed in transformer room as shown on drawings. All civil works, including provision of cable trench, transformer oil pit, openings in wall, steel channel, etc., shall be carried out under civil works. The Contractor shall be responsible for general checking and co-ordination with civil works to ensure compliance with the requirements of transformer manufacturer for installation of equipment. For installation, connecting, testing and commissioning of transformers, the Contractor shall provide all required labour, materials, tools and testing equipment.

The transformer installation shall be carried out in accordance with specifications and the best-accepted practice. Any loose components supplied by manufacturer shall be assembled, installed and connected in place as to form a complete assembly as per manufacturer instructions. After the transformer is placed in position and aligned for H.T & L.T termination, the roller wheels shall be locked with the foundation steel channel to avoid any unintentional movement of the wheels.

The H.T cable shall terminate at the flange terminals on the H.T side. The supporting channels, fixing material, etc., required for H.T cable shall be furnished by the Contractor, details of which shall be approved by the Engineer prior to installation. The cable end box/termination kit will be supplied with the cable.

After the transformer is installed and connected, a thorough check shall again be made for the proper fixing of accessories, neutral connections, oil level, etc. The transformer shall be tested before energizing as per MANUFACTURER'S INSTRUCTIONS.

SECTION 2: LOW VOLTAGE POWER CABLES

DESCRIPTION OF WORK:

A. Work Included: Provide low voltage electrical conductor, cable, wire, and connector work as shown, scheduled, indicated, and as specified.

B. Types: The types of low voltage electrical conductor, cables, wire, and connectors required for the project include, but are not limited to, the following:

1. 600/1000 volt building wire and cable.
2. 600/1000 volt building wire and cable connectors.
4. 300/500-volt control/signal wire and cable.
5. 300/500-volt control/signal wire and cable connectors.

STANDARDS:

Products shall be designed, manufactured, tested, and installed in compliance with the following standards:

BS 6346	PVC insulated, armored cables for voltages of 600/1000V and 1900/3300 V
BS6004	Polyvinyl Chloride (PVC) insulated and PVC over sheathed cables up to 300/500V - for electric power and lighting.
BS6724	Thermosetting insulated armored cables - 600/1000V to 900/3300V - with low emission of smoke and corrosive gases when affected by fire.
IEC 60502-1	For XLPE insulated cables
Manufacturers:	Provide products complying with these specifications and type-tested by KEMA or equivalent world-renowned certification body.

SUBMITTALS:

A. Shop Drawing submittals shall include, but not be limited to, the following:

1. The Contractor shall submit to the Engineer for review, a list of the selected manufacturers of wire and cable, cable lugs, cable connectors and termination fittings listed herein. The Contractor may install wire and cable, cable lugs, cable connectors and termination fittings furnished by any manufacturer listed on the approved submittal.

2. Cut sheets on all 300/500 and 600/1000 volt conductors with manufacturers name, ratings and capacities, insulation characteristics, and available colors, clearly listed.

3. Cut sheets indicating all cable lugs, termination fittings and cable connectors.

4. Cut sheets indicating types of conductor identification bands.

DELIVERY, STORAGE AND HANDLING:

A. Provide factory-wrapped waterproof flexible barrier material for covering wire and cable wood reels, where applicable; and weather resistant fiberboard containers for factory-packaging of cable, wire and connectors, to protect against physical damage in transit. Damaged cable, wire, or connectors shall be removed from project site.

B. Store cable, wire, and connectors in their factory-furnished coverings, and in a clean, dry indoor space which provides protection against the weather.

INSTALLATION

A. General: Install electrical cable, wire and connectors as shown, in accordance with the manufacturer's written instructions, the applicable requirements of "Standard of Installation", and recognized industry practices to ensure that products serve the intended functions.

B. Coordination:

1. Coordinate cable and wire installation work with electrical raceway and equipment installation work, as necessary for proper interface.
2. Installer shall examine the areas and conditions under which cable, wire and connectors are to be installed and notify the Contractor in writing of conditions detrimental to the proper and timely completion of the work. Inspect wire and cable for physical damage. Do not proceed with the work until unsatisfactory conditions have been corrected.

C. 600 Volt Building Wire and Cable:

1. Mains and feeders are to be run their entire length in continuous pieces without joints or splices [, unless otherwise indicated or noted].
2. Conductors may be run in multiple on sizes inclusive, provided all multiple conductors are the same size, length, and type of insulation, and are so arranged and terminated as to ensure equal division of the total current between all conductors involved.
3. Before any wire is pulled into any conduit, the conduit shall be thoroughly swabbed in such a manner as to remove all foreign material and to permit the wire itself to be pulled into a clean, dry conduit. All conductors shall be pulled into the conduit at the same time.

D. 300 Volt Control/Signal Cable and Wire:

1. Install all low voltage wiring in a suitable raceway except in areas with accessible (lay-in) ceilings unless otherwise noted on Drawings Where cable is routed without a raceway, bundle all cables and suspend to one foot above ceiling using loop rings on 5' centers. Do not run cable loose on top of suspended ceilings. Do not attach cables to suspended ceiling supports or any mechanical, plumbing, or sprinkler piping. Conceal conduit except in mechanical rooms and areas where other conduit and piping are exposed. Fasten flexible conductors, which bridge cabinets and doors, neatly along hinge side and protect against abrasion. Tie and support the conductors neatly.

TESTING:

1. Feeder Insulation Resistance Test: Each new [and reused existing] 600-volt feeder conductor shall have its insulation resistance tested after the installation is complete except for connection at its source and point of termination.

2. Tests shall be made using a Biddle Megger or equivalent test instrument at a voltage of not less than 1000-volt dc. Resistance shall be measured between phase, neutral, and ground conductors and from conductors to raceway (ground). Readings shall be taken after 30 seconds and 60 seconds of Megger operation at slip speed and insulation resistance shall not be less than the 1 MΩ

3. New conductors which do not meet or exceed the insulation resistance values listed above shall be removed, replaced, and retested.

4. Where reused existing feeders fail to meet the above insulation requirements, notify the Engineer in writing for direction prior to placing the existing feeders back in service.]

5. Neutral Testing: After all feeder and branch circuit conductors are terminated, neutral to ground testing shall comply with the following:

The resistance of the system's neutral to ground shall be greater than 10 kΩ with the system bonding jumper disconnected.
Repeat neutral to ground test for neutrals of separately derived systems.

6. Pre-energization Check: Prior to energization, check all new [and reused existing] branch circuit cable and wire for continuity of circuitry and for short circuits. Correct malfunction when detected. No submittal is required for this test.

7. Voltage and Current Values: The voltage and current in each main feeder conductor shall be measured and recorded after all connections have been made and the feeder is under load.

8. E. Submittals: Contractor shall furnish all instruments and personnel required for tests. Submit four copies of certified test results to Architect for review. Test reports shall include conductor tested, date and time of test, test results, relative humidity, temperature, and weather conditions.

SECTION 3: CABLE TRAY & LADDERS

1.0 CABLE TRAY & LADDERS

1.1 SCOPE OF WORKS

1. Under this section of the specification cable tray shall be installed to support distribution cables, communication cables and all wiring cables not generally installed in conduit and or trunking.

2. The cable tray shall be installed in such a manner to enable easy access for cable installation.

3. The cable tray shall vary in type, i.e.: where large cables are installed, ladder rack type cable tray shall be permitted. Where smaller type communication cables are installed, ventilated type cable tray shall be permitted.

4. Cable trays shall be Mild Steel Powder Coated finish or as specified in BOQ.

5. Cable ladders shall be installed in risers for the full length of the risers unless otherwise instructed by the Consultant.

1.2 QUALITY ASSURANCE

1. Acceptable Manufacturers to be followed as mentioned in list of approved manufacturers

2. Subject to compliance with the requirements of the Contract Documents, acceptable manufacturers are to be firms regularly engaged in manufacturer of all materials specified in this section of types and sizes required, whose products have been in satisfactory use under similar service conditions for not less than ten years.

1.3 SUBMITTALS

1. Submit the standards to which the cable tray is manufactured to including the procedure of manufacturing.

2. Submit shop drawings and data in accordance with the general requirements of the contract.

3. Show actual cable tray installation details, size and suspension system.

1.4 PRODUCTS

GENERAL

1. The cable tray system shall be of one manufacturer and shall include factory made trays, tray fittings, connections, complete with accessories and supports to from a complete tray support system.

2. The cable tray system shall include the following factory made tray elements. Straight trays and ladders, fittings and horizontal and vertical bends of various angles crosses, tees, wyes, reducers, vertical riser elements, connectors, joint plates and all necessary fixing accessories including supports. No local or site fabrication of any cable tray system including ceiling and wall supports are acceptable. Threaded rods for ceiling supports are not acceptable.

1.5 CABLE TRAY

1. The whole of the tray work, fittings and supports shall be of mild steel after manufacture. The thickness of the powder coating on any element shall not be less than 80 microns with anti-corrosive treatment.

2. Cable trays shall be constructed from G.I of minimum thickness 12 gauge. Height shall be 60mm or as specified. Flange height shall be 100mm or as indicated in drawings.

3. Insert elements, bolts, screws, pins etc., shall be cadmium plated/stainless steel.

4. Tray work shall have oval perforations. Ladder type trays shall be used as required and/or approved by the Engineer.

5. All trays (straight and fittings) to be heavy duty returned flanged type unless specified otherwise.

6. Tray components are to be accurately rolled or formed to close tolerance and all edges rounded. Flanges are to have full round smooth edges.

7. Ladder racks for widths up to and including 300mm shall be constructed from G.I sections of minimum thickness 12 gauge. Height shall be 60mm or as specified. Ladders in excess of 300mm width shall be C Section construction with a minimum thickness of 12 gauge. Height shall be 100mm or as indicated in drawings. The rungs shall be spaced at a maximum 300mm.

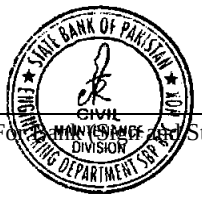
8. Unless indicated otherwise on drawings, cable trays shall be used in the range and 150mm to 750mm wide, in five preferred standard sizes: 150, 300, 450, 600 and 750mm.

9. Other sizes shall be used where specified or previously agreed with the Engineer.

10. Return flanges shall be a minimum of 10mm deep, unless otherwise specified.

11. Minimum radii at side rails, horizontal, and vertical tees and crosses shall be in accordance with the Manufacturer's standard.

1.6 EXECUTION



INSTALLATION

1. Install all cable trays and ladder racks strictly in accordance with IEE and local authorities' requirements.

2. Drilling, machining or cutting shall not be carried out after application of protective coat, unless previously agreed by the Engineer. If cutting or drilling is necessary, edges shall be cleaned up and painted with zinc based paint before erection.

3. Provision shall be made when installing all cables and cable trays for the expansion and settlement of the building.

4. Cables shall be fixed to the trays/ladders by means of PVC cleats and flame retardant cleats for flame/fireproof cables with galvanized bolts, nuts and washers. Use galvanized metal trefoil cleats with rubber pad for single core cables

5. Control cables run and clipped in groups shall not exceed twelve in number and shall be not more than double banked. Power cables shall be laid in a single layer except with the prior approval of the Engineer. Power cables should be spaced 2D between centers of cables throughout the run of cables. Submit calculations for voltage drop for cables and increase the size if necessary.

6. Vertical distances between trays mounted horizontally shall be minimum of 250mm. Local reduction of distances between trays will be allowed to a minimum of 150mm with approval from the Engineer.

7. Trays shall be adequately supported to prevent sagging by more than 3 Deg. between fixed points. All supporting steel work shall be fixed at not more than 1 meter centers unless otherwise specified.

8. Where cable tray passes through floor arrange for 100mm concrete curb around opening and fire sealants shall be provided.

9. The Contractor shall submit calculations relating to tray / ladder work and tray / ladder supports demonstrating acceptable mechanical stresses and sag.

10. Where cable tray must pass below a beam a short length of tray shall be installed on the underside of the beam with 25mm spacers between the tray and the beam underside surface. Cables shall be strapped rigidly to the tray to prevent any possible sag in the cables.

11. Where cable tray is intended to cross a series of beams the tray shall be supported from each beam it crosses by metal supports suspended from below the underside of the beam - the space between the tray and the beam underside surface shall not exceed three times the diameter of the largest cable to be carried on the tray.

12. Cable tray covers are only required on roofs or outdoor where cables are installed exposed to weather conditions.

1.7 EARTHING

1. The entire cable tray and ladder system shall be bonded using 12mm x 1.5mm braided tin copper, which shall be bolted across each joint in the system by means of galvanized nuts and bolts, complete with flat and spring washers.

2. Tray systems shall be bonded to the main building earthing system as required or directed by the Engineer.

1.8 FIRE BARRIERS

1. Arrange for opening in fire rated walls, and floor for width and depth of cable tray to run through in addition to the specified clearance of the above cable trays.

2. Arrange and make good fire rating of floors or walls after cables have been installed. For all floor openings of all risers (telephone, power) except vertical telecom cable risers where grating shall be provided.

3. All openings / sleeves within floor slabs and fire rated walls shall be sealed with proper fire rated material.

SECTION 4: CONDUITS & PIPES

1.1 GENERAL

The work under this section consists of supplying, installing, and commissioning of all material and services of the complete conduit & pipe system as specified herein and/or shown on Tender Drawings and stated in the Bill of Quantities.

The Contractor shall discuss the electrical layout with the Engineer and co-ordinate at site with other services for exact route, location and position of the electrical lines.

1.2 PVC CONDUITS

All wiring for light, power, control and other circuits shall be carried out in PVC pipe otherwise as stated in BOQ, minimum 25mm dia. The conduits and pipes shall be supplied complete with all accessories including bends, sockets, junction boxes of identical material as that of conduit and all cutting, repair, excavation backfilling, etc., required for complete installation. The conduits for internal wiring to lights, sockets and power circuit shall be of approved brand.

Manufactured smooth bends shall be used wherever conduit changes direction. The sharp 90 degree bends or tees shall not be allowed. All conduit accessories shall conform to same material specifications as given above for conduit.

The bends shall have enlarged ends to receive conduit without any reduction in the internal diameter at joints.

The round junction box for ceiling light points shall be of PVC having minimum dimensions of 63 mm diameter and 63mm deep. The outlet box at wall light points shall be general purpose type having minimum dimensions of 75mm x 75mm and 38 mm deep. Pull boxes and inspection boxes shall be installed in conduit runs where required to limit the pulling of the cables or for inspection purposes. The pull boxes shall be square having minimum dimension of 100mm and 50 mm deep. In all cases, the minimum length of inspection boxes shall be not less than four times the cable manufacturers recommended bending radius of the cable. These dimensions are minimum only and the Contractor shall determine the exact size keeping in view ease of maintenance and installation. In general the use of pull boxes and inspection boxes shall be avoided. The pull boxes and inspection boxes shall be of 16SWG. sheet steel provided with anti-rust paint and finished in gray enamel paint or orange powder coated paint. The face plate shall be secured to the box by means of flat head galvanized screw.

1.3 INSTALLATION

1. Conduits

The conduit shall be installed concealed in wall, column ceiling or under floor, on surface, above the false ceiling or as stated on the drawings. The drawings are diagrammatic and do not indicate the location of junction boxes, pull boxes or inspection boxes which shall be provided to suit site conditions.
The concealed conduits shall have a minimum of 25 mm concrete cover, when concealed in R.C.C works. The conduits in R.C.C works shall be laid before pouring of concrete. Chisels shall not be made in R.C.C structure for conduits and accessories after pouring of concrete. In slab, conduits shall be laid over the bottom reinforcement steel and tied firmly to it. The conduit outlet boxes shall be held firmly to finish with the surface of the slab or beam. At expansions joints, flexible conduits or alternate arrangement shall be provided.
Where conduits have to be concealed in cement concrete work after concreting or in block masonry, chisels shall be made with appropriate tools and of required depth. The conduit shall then be firmly recessed and covered after plastering. All chisels for concealing conduits shall be carried out by the Contractor. The Contractor will be responsible for bringing back the general finish to the condition that it was before the cutting and chiselling by the Contractor.
The work of conduit installation and cutting in cement concrete work or brick work shall be coordinated with civil construction so as not to cause any undue hindrances and delays in progress. The Contractor shall obtain approval of the Consultant for route, etc. to suit the site conditions before starting chiselling and cutting. All junction boxes, outlet boxes, pull boxes etc., shall be installed concealed so as to finish with the surface.
Conduits installed on surface shall be fixed by means of black enamelled steel saddles and clamps having thickness of 3 mm or as mentioned in BOQ. The clamps shall be installed at a distance of not more than 600 mm.

All conduit bends shall be made with an approved conduit bending machine or hickory.
The radius of curvature of the inner edge of any bend shall not be less than the following table:

Conduit size	Radius
25 mm(1")	Not less than 150 mm.
32 mm (1-1/4")	Not less than 200 mm.
38 mm (1-1/2")	Not less than 255 mm.
50 mm (2")	Not less than 305 mm
70 mm (2-1/2")	Not less than 380 mm
82 mm (3")	Not less than 460 mm.
100 mm (4")	Not less than 610 mm

After completion of conduit installation, the system shall be checked for any charred or twisted portion prior to the pulling of wire. At all joints, PVC jointing solution or cement must be used.
The termination of conduits is shown diagrammatically on the drawings. The exact final location of the termination shall be coordinated with the equipment to be installed. Conduit ends pointing upwards or downwards shall be properly plugged, in order to prevent the entry of foreign materials. All openings through which concrete may leak shall be carefully plugged and boxes shall be suitably protected against filling with concrete. At all termination of conduit, soft bushes shall be fixed to prevent sharp edges of conduit ends from cutting or damaging the wires or cables to be pulled through them. Brass glands of appropriate sizes (as per size of conduit) with proper chuck nuts shall be used for fixing of conduits in junction boxes.
The entire conduit system shall be installed and tested before wiring is carried out. Any obstruction found shall be cleared by use of a cutting or other approved device and the conduit be cleaned out before the installation of cable.

1.4 OTHER ACCESSORIES

Outlet boxes, pull boxes, inspection boxes, switch and socket outlet boxes, fan regulator boxes, shall be of 16 SWG sheet steel, de-rusted, degreased, rust-proof with two coats of zinc chromate primer and painted with enamel, complete with earthing terminal. All boxes shall have ample wiring space, and boxes used outdoors shall be weather-proof.

All the pull boxes are to be properly labeled according to the type of services for which it is installed.

SECTION 5: LOW VOLTAGE SWITCHGEAR

1.1 Scope of Works

The work under this section consists of manufacturing, fabricating, supplying, testing and installation of all material and services of the complete Low Voltage Distribution Panels as specified herein, shown on the Single Line Drawings and stated in the Bill of Quantities.
The Contractor shall discuss the electrical layout with the Engineer and co-ordinate at site with other services for exact location and position of each LV Distribution Panel.
The Low Voltage Distribution Panel with accessories shall also comply with the General specifications for Electrical Works, section - 01 and with other relevant provisions of the Document.
The Low Voltage Distribution Panels shall be sheet steel fabricated suitable for floor standing /surface mounted / recessed totally enclosed, dust and damp proof. It shall be completed in all respects with material and accessories, factory assembled, tested and finished according to the Specifications and to the standard requirements.
The Low Voltage Distribution Panel shall be front operation type and shall:

- have a rated service short circuit breaking capacity, as per IEC 61439-1 and -2 unless stated otherwise on the drawings / in the BOQ.
- be suitable for 400 Volts, 3 phase 4 wire, 50 Hz system.
- be designed for flush mounting of all instruments on the front side.
- have incoming and outgoing cable termination arrangement, terminal block/line up terminals.
- be provided with stainless steel name plate on the front side of door and wiring diagram on inside of door.
- have all incoming and outgoing connections from top or bottom according to site requirements or as approved on shop drawings.
- have door grounded by flexible braided copper strip.

- have wiring diagram in the pocket inside the door of Distribution Panel.
- All the components used in the Distribution panel shall be type tested.

1.2 Applicable Standards / Codes

The latest editions of the following standards and codes shall be applicable for the materials specified within the scope for this section:

IEC 60051 - Direct setting electrical measuring instruments	
IEC 73	- Colors for indicator lights and push buttons
IEC 947-2	- Low voltage switchgear and control gear
IEC 439-1	- Low Voltage Switchgear and Control gear Assemblies.
BS 387 1	- Miniature & Molded Case Circuit Breakers
BS 88	- HRC fuses
IEC 61921	-Power capacitors - Low-voltage power factor correction banks
IEC 61439-1	-General rules for LV switchgear
IEC 61439-2	-Power switchgear and control gear ASSEMBLIES"
IEC 61439-3	-Distribution boards
BS 89/90	- Ammeters and Voltmeters
BS 3938	- Low voltage current transformers
BS 1432	- Bus Bars
IEC 60255-1	- Measuring relays and protection equipment
IEC 60947-3	- Low-voltage switchgear and controlgear - Switches, disconnectors, and fuse-combination units
IEC 60947-4-1	- Low-voltage switchgear and controlgear - Contactors and motor-starters - Electromechanical contactors and motor-starters
IEC 60947-3 and IEC 60947-6-1	- Motorized/Manual Changeover Switch

The mechanical and electrical characteristics of the circuit breaker should be guaranteed between -25 to +70 degree celsius.

1.3 Fabrication

The Low Voltage Distribution Panel (DB) shall be fabricated with 14/16 SWG sheet steel powder coated with 100micron Paint Jotun Make color RAL7032 or as approved by the Engineer. All the components shall be installed on a common component mounting plate inside the enclosure and protected from the front with hinged type sheet steel powder coated front plate with locking knobs. The enclosure shall be provided with rubber gaskets and a lockable hinged door with cam fastener.

The distribution panel shall be supplied complete with all installation materials as recommended by the manufacturer. The incoming and outgoing cable connections shall be according to the wiring requirements. If required, an adapter box for accommodating the cables and conduits may be provided. The box shall be of the same material and finish as the DB. All holes, cut-out etc. shall be tool or job manufactured and free from burrs and rough edges.

The cabling inside the DB shall be properly harnessed by means of straps, cords or ties. An earth bar shall be provided for connection of incoming and outgoing earth conductors with separate connection point for each incoming and outgoing circuit. The earth bar shall be permanently connected to the body of DB at two points. Flexible copper strip shall be provided for earthing of the door of DB.

Tagging and Circuit designation on all circuits shall be conspicuously marked to facilitate connection and maintenance. It must be an SS riveted tag or laser engraved work.

All metal work of the DB shall be cleaned down to bare shining metal phosphate and the surfaces chemically prepared for powder coating. Then these shall be coated with powder paint as mentioned above.

1.4 Components

The Low Voltage Distribution Panels (DB) shall be provided with components as specified and shown on the Tender Drawings and required for the satisfactory operation of the distribution panel and of the electrical system. Typical component specifications are given below:

Bus Bars

The Bus bars shall be imported, tinned, made of 99.9% pure high conductivity electrolytic tin platted copper and shall be completely isolated and mechanically braced for the specified fault level. The identification of bus bars shall be by providing heat shrink color coded sleeves on complete bus bar lengths and these shall be red, yellow and blue for phases and black for neutral. The earth bus bar shall be green.
The bus bars shall be for three phase, neutral and earth and shall be of appropriate size to meet the electrical and mechanical requirements of the system. The temperature rise shall not exceed 45ºC at rated current.
Contractor is required to provide bus bar selection chart at 45ºC ambient temperature along with shop drawings before commencement of panel manufacturing.

Moulded Case Circuit Breaker (MCCB)

The MCCBs shall be moulded case triple pole with rated service voltage of 400 Volts of current ratings as shown on the drawings. These shall have fixed magnetic short circuit and adjustable/fixed thermal overload protection.
The MCCBs shall be installed such that their switching levelers are accessible through the front plate for operation.
The triple pole MCCBs shall have short circuit rupturing capacity suitable for the distribution system as approved by the Engineer or as shown on the drawings. The MCCBs shall be suitable for working on lighting and power circuits.

Digital Multimeter and Analyzers

All meters shall be flush mounting, Digital type with built-in selector switches. The front dimensions shall be 96 x 96 mm for meters.
The meters shall be of accuracy class 1.5 according to BS-89 and 90. The ammeter shall be suitable for connection to 5 Amps secondary of current transformers or directly through shunt as shown on drawings. The ammeters and voltmeters shall have measuring range as indicated on the drawings or as per the DB in which meters are installed.
The analyzer selection shall be done by engineer from the brands specified and tender documents

Current Transformers

Air cooled, ring type current transformers shall be provided having transformation ratio as indicated on the drawings. The current transformers shall be of suitable burden having accuracy class 1.0 according to BS 3938. The current transformers shall have 5 amps secondary.

Push Buttons

Push Button shall be momentary contact type and suitable for flush mounting on the door of panel and on remote area. The push button for ON and OFF switching shall be spring loaded.

Indicating Lamps

Indicating lamps shall be suitable for flush mounting, complete with base and 230 Volts LED lamp. It shall have rosettes of suitable colors as approved by the Engineer.

Motorized/Manual Changeover Switches

Changeover switch must have three stable positions, unaffected by voltage fluctuations and vibrations, protecting your loads from network disturbances. It must have AC-23 and AC-33 characteristics, tested according to standards IEC 60947-3 and IEC 60947-6-1 which enables safe on-load switching for any type of load. With its on-load transfer capabilities, it is not necessary to isolate loads prior to transfer.

Electronic Voltage Relay

The voltage relay monitors the over voltage (VM) and the under voltage (Vm) and the phase sequence L1, L2, L3 in an alternating three phase mains. Adjustment range +20% -20% of the nominal voltage.

1.5 Installation

Low Voltage Panels shall be placed as shown in drawings with a specified gap from the surface of wall. The Panel shall be protected to avoid any damage due to the civil work.
All loose parts dispatched separately with the Panel shall be installed as per manufacturer's instructions and all adjustments or setting shall be made as required. All screws, nuts and bolts used for fixing the distribution board shall be galvanized.

The LV Panel installation shall include connecting all incoming and outgoing cables. The cable entry in the boards shall be provided from top or bottom as required.

The distribution panels shall be tested as per instructions contained in IEC-61439-1 and 2.

All labor, equipment and tools required for complete installation and shall be provided by the Contractor as well as all shimming of the supporting floor steel that may be required to set the switch gear in level position. All outgoing and incoming cable connections shall be made and special care shall be taken in fixing cable boxes and in cable connections so as to have no danger of leakage during operation. Earthing connections shall be made according to the instructions given by the Engineer.

AIR CIRCUIT BREAKER DATA SHEET:

TECHNICAL SPECIFICATIONS		
Frame Size (A) (Bidder must ensure that the offered frame size, make/model will fit in existing switchboards while still providing adequate clearances required under applicable codes)	2500	1600
Rate interrupted current at Iu 40 °C (A)	2500	1250
Rated service short-circuit breaking capacity Ics [%Icu]	100%	100%
Frequency (Hz)	50	50
No. of Poles	As per BOQ	As per BOQ
Rated Insulation Voltage, Ui (V)	1000	1000
Rated Impulse Withstand Voltage, Uimp (kV)	12	12
Version	Withdrawable or fixed as required in BOQ	Withdrawable or fixed as required in BOQ
Suitable for isolation according to	IEC 60947-2	IEC 60947-2
Utilization category (According to IEC 60947-2)	B	B
Types of protection	Overload, ground fault, instantaneous, long & short time	Overload, ground fault, instantaneous, long & short time
Rated breaking/making current at 400/415V	>50kA/>100kA	>50kA/>100kA
Spring charging method	Motorized	Motorized
Tripping coil and shunt trip coil	Required	Required

SECTION 6: BUSWAYS

The work under this section consists of supplying installing, testing, connecting, commissioning of all material and services of the Bus-bar Trunking System and accessories as specified herein and/or as shown on drawings and given in BOQ.

The contractor shall discuss the electrical layout with the Engineer and coordinate at site with other services for exact route, location and position of the Bus-bar Trunking System. Final field measurements shall be made by the Contractor prior to release of the Bus-bar trunking for fabrication by the manufacturer.

The Bus-bar Trunking System with accessories shall also comply with the General Specifications for Electrical Works and with other relevant provisions.

The Bus-bar trunking (Bus way) shall be a standard design of reputed manufacturer who shall have similar units in operation for similar applications. The manufacturer shall also have adequate maintenance facilities in the vicinity of the Project with technically qualified and experienced personnel trained for operation and on-site maintenance of the system offered by the contractor.

It shall be totally enclosed in an earthed trunking of duct and as shown on the drawings. The enclosure shall be boltless. The system shall be of sandwich type construction without any air gap between bus-bars except at plug-in openings. The complete system shall comply with the requirements of IEC 60439-1/2, IEC 61439-1 (2009-10) & IEC 61439-6 (2012-05).

Bus-bar trunking system shall be capable to withstand the seismic conditions. All the components of the system such as joints, plug-in/tap off units, end boxes, cable tap boxes, reducers, elbows, flange ends, spring type hangers, supports, etc. shall be purpose made prefabricated items by the same manufacturer.

Bus-bar trunking shall be low impendence, 690V rated, 5-conductor system, aluminum, 3-phase 4-wire with 100% neutral and 50% separate protective earth conductor, suitable for operation on a 415V, 50Hz supply system.

The continuous rated current shall be according to the designed load of each system and temperature compensated for 45 deg. C indoor ambient condition. The minimum short circuit withstanding capacity at 415 VAC for one second shall be equal to or higher than the perspective fault level of installation, but shall not be less than 50 kA. Vendor is to submit documents in support.

All technical data relevant to Bus-bar trunking system like current carrying capacity, de-rating factors, voltage drop, and short circuit withstand capacity, etc. shall be submitted by the manufacturer for Engineer's approval.

Bus-bar trunking system shall have protection against mechanical damage, dust accumulation and weather proof to IP-55 degree of protection.

External fire barriers shall be provided for Bus-bar trunking, and shall also be positioned when it passes through fire insulating ceiling and walls. These fire barriers shall be effective in the space between the trunking and the protective sleeve of the ceiling.

Vendor shall submit details of all the tests, which will be carried out at the factory as per Standards prior to delivery.

APPLICABLE STANDARDS / CODES

The latest editions of the following standards and codes shall be applicable for the material specified within the scope of this section.

IEC	60439	Low Voltage Switchgear & Control gear Assemblies.
B S	1432	Bus-bars.
B S	7671	IEE Wiring Regulations for Electrical installations.
IEC	60947-2	Low Voltage Switchgear and Control gear.

MATERIAL

Bus-bar Trunking

The Bus-bar trunking system shall be established as specified on the drawings. The housing shall be constructed of code gauge steel and aluminum to reduce hysteresis and eddy currents and shall be provided with a suitable protective finish of grey epoxy paint or as approved by the Engineer.

The Bus-bar trunking including all joints shall be totally enclosed, non-ventilated, water proof to minimum IP-55 standard. Any length of the assembled bus-bar trunking shall be possible to remove without affecting the other lengths connected at the edges, to facilitate future additions and maintenance work.

All the joints and terminations shall be bolted type ensure proper contact pressure. No loose connection shall be allowed in the system. The high strength steel bolts with washers shall be torque indicating type and at earth potential.

The bus-bars shall be high grade tin plated aluminum and shall comply with Standards. Current rating shall be as shown on drawings at required ambient temperature. The earth conductors shall be properly bonded with body on both sides and bonded with the joints as well as adjoining Bus- bar piece.

The conductors shall be color coded and insulated with Class F 155 deg.C certified flame retardant mylar over the entire length to be applied by automatic process and higher impact strength of minimum 150lbs. The temperature rise at any point in the bus-bar trunking shall not exceed 550C rise above ambient temperature when operating at rated load current. Dielectric strength shall be 2.7kV/mil for 7.5mil thickness and total breaking capacity 40kV for two layer of mylar and 81kV for four layer of mylar.

- Verification of resistance of insulating materials to abnormal heat
- Verification of dielectric properties
- Verification of Temperature rise limits
- Verification of resistance to flame propagation
- Verification of fire resistance in building penetration of the Busbar system along with the fire barriers
- Compliance to 50 Deg C Ambient temperatures without any de-rating

All plug-in openings shall be covered by hinged doors, which cover the openings when not in use. The hinged door shall have padlocking facility to prevent opening by unauthorized persons. All openings shall be usable simultaneously.

All contacts on joints and plug-in openings should be bimetallic Aluminum or silver plating copper to avoid electrochemical corrosion and minimize the contact resistance.

INSTALLATION

The Bus-bar trunking system shall be installed at locations shown on the drawings. The Contractor shall be responsible to ensure co-coordination with the civil works for providing any opening, holes, etc. to avoid any breakage to completed works. In case the provision in civil works for installation of above electrical works are not made or made incorrect, the same shall be rectified by the Contractor at his own cost and to the satisfaction of Engineer.
The contractor shall be responsible for routing the trunking on-site after co-ordination with all other services. Final measurements shall be made by the contractor prior to release of the trunking for fabrication. Complete site installation including alignments, joints, meggering etc. must be certified by the manufacturer's representative and signed off by Contractor and Vendor prior to offering the installation for commissioning.
Bus-bar trunking shall be preferably installed in such a way that plugs are side mounted to permit practical use of all plug-in openings.
The Bus-bar trunking system shall be supported throughout the entire length as per manufacturer's requirements to withstand its own weight and abnormal forces created on short circuit conditions/seismic conditions. However, the spacing between hangers/supports of bus-bar trunking shall not exceed 6 feet for horizontal runs and 10 feet for vertical runs.
Bus-bars expansion fittings shall be provided at all building expansion joints and for long lengths as recommended by the manufacturer. Spring type hangers shall be used for fixing of Bus-bar trunking when they run vertically. Purpose made fittings, supports and accessories should be used throughout the installation.
Fire barriers, when installed shall prevent fire, smoke and hot gasses passing into the next story and according to Civil Defense regulations.
Bus-bar trunking should be covered with plastic envelope until building is clean and the Bus-bars are ready to be tested and energized.

TESTING INSPECTION AND COMMISSIONING

The tests to be carried out in accordance to International Standards and in presence Engineer and owner at Manufacturer's factory. Test report shall be provided and shall include but not necessarily be limited to:

1. Inspect physical and mechanical condition.
2. Inspect anchorage, alignment and grounding.
3. Prior to system commissioning, perform all Electrical tests including:
    - Insulation Resistance Test
    - Dielectric Voltage Withstand Test
    - Contact Resistance Test
    - Thermal Imaging Test

LIST OF RECOMMENDED MANUFACTURERS

(to be signed by the Bidder)

1. Brand Names

Equipment and materials specified with brand names have been provided to establish a standard of performance and do not necessarily indicate a preference for a particular manufacturer or material.

The names of manufacturers given below are to indicate the level of quality and performance anticipated by the Employer / Procuring Agency. Other makes may be accepted provided that the quality and performance of such equipment, in the sole opinion of the Employer / Procuring Agency, are at least equal to or better than the equipment offered by the recommended manufacturer listed hereunder.

2. **List of Manufacturers Recommended**

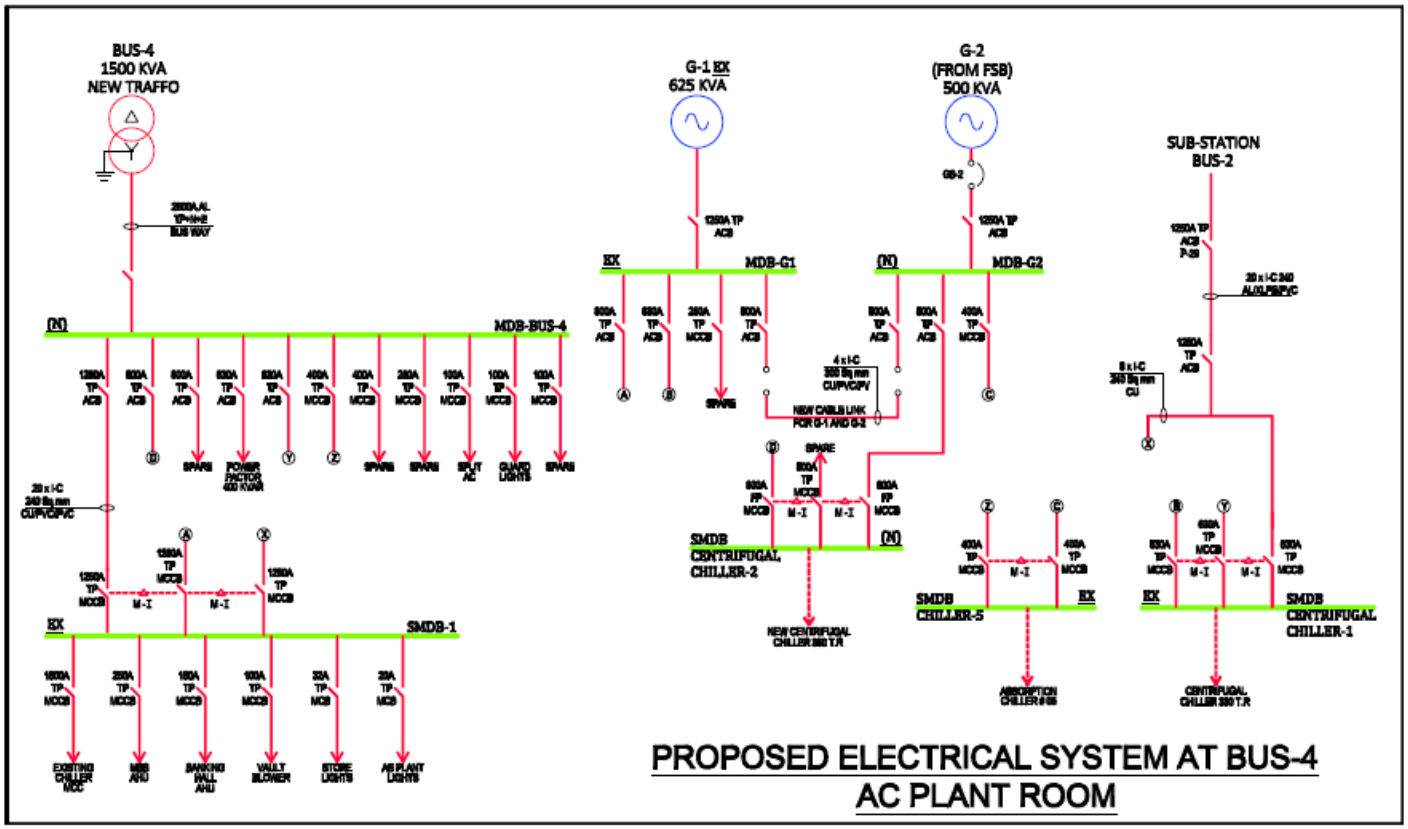
The acceptance of equipment/ materials offered by these manufacturers will be subject to compliance of offered models/ materials with the specifications, capacity and/ or performance requirements.

All other items not included in the list hereunder will be approved by the Employer / Procuring Agency in accordance to their compliance with the specifications, capacity and/ or performance requirements.

Onus lies with the Contractor / supplier for establishing the genuineness of any material/ product.

Product	List of recommended manufacturer
Transformer	PEL, Transfopower, Siemens, OR approved equivalent
Low Voltage Cables	Pakistan Cables, Fast Cables, Newage Cables OR approved equivalent
LV Panels, Distribution Boards	Hussain and Co. , Unique Engineering, HRA Switchgears Libra Engineering, RA Engineering , OR approved equivalent
LV Circuit Breakers: ACB and MCCB	ABB, Schneider, GE, OR approved equivalent
Busway / Bus Tie Ducts	Schneider, Pogliano, locally fabricated as per standards OR approved equivalent
Power Factor Relays	Nokian, Circuitor, Lovato OR approved equivalent
Current Transformer	Rivalco, Saci, Circuitor, OR approved equivalent

DRAWINGS


BUS-4
1500 KVA
NEW TRAFFO
(N)
MDB-BUS-4
EX
SMDB-1
G-1 EX
625 KVA
MDB-G1
G-2
(FROM FSB)
500 KVA
(N)
MDB-G2
SUB-STATION
BUS-2
SMDB
CENTRIFUGAL
CHILLER-2
SMDB
CHILLER-5
SMDB
CENTRIFUGAL
CHILLER-1
PROPOSED ELECTRICAL SYSTEM AT BUS-4
AC PLANT ROOM

Contractor's Representative and Key Personnel

MINIMUM MANDATORY STAFF: The Contractor shall arrange all requisite resources for timely completion of project as per provisions given in the Bidding Documents.

Following is the list of Minimum Mandatory Staff Requirement & Equipment to be deployed at site by the Contractor as and when required by the Engineer till completion of the Project. In case Contractor fails to deploy any of the following personnel, the Engineer will deduct the amount mentioned at column (E) for the respective personnel. However, the deduction of the amount does not relieve the Contractor to deploy the minimum staff at site and shall not prejudice Engineer / Employer from any other remedy defined in the Contract.

Designation	***Nos.***	***Minimum Qualification***	***Min. Relevant Working Experience***	***Minimum Amount to be deducted per month per person in case the personnel is not deployed at site (Rs.)***
(A)	***(B)***	***(C)***	***(D)***	***(E)***
Site Supervisors (Electrical)	01	DAE Electrical/ B-Tech	08 years	120,000/-

Authorized Signature and official Seal: _____

Name: _____

Date: _____

SECTION VI – STANDARD FORMS FOR (Single Stage Two Envelope Procedure)

Table of Forms

Sr. No.	From No.	Description	Proposal Part
1.	Form T1	Bidder Information Form	Technical Proposal
2.	Form T2	Declaration for Ultimate Beneficial Owners Information	Technical Proposal
3.	Form T3	Letter of Bid – Technical Proposal	Technical Proposal
4.	Form T4	Undertaking	Technical Proposal
5.	Form T5.1	Manufacturer's Authorization Form	Technical Proposal
6.	Form T5.2	Distributor's Authorization Form	Technical Proposal
7.	Form T6	Form of Bid Security	Technical Proposal
8.	Form T7	S2 Form	

Form T1 – Bidder Information Form

[The Bidder shall fill in this Form in accordance with the instructions indicated below. No alterations to its format shall be permitted and no substitutions shall be accepted.]

IFB No: ED/PROC-HOK/223440/2025/248
Title: Allied Electrical Works for Supply, Installation, Testing & Commissioning of 350 TR Water Cooled Centrifugal Chiller Works at Main AC Plant, SBP Karachi
Bidder:

1. Bidder's Name *[insert Bidder's legal name]*
2. Bidder's actual or intended country of registration: *[insert actual or intended country of registration]*
3. Bidder's year of registration: *[insert Bidder's year of registration]*
4. Bidder's Address in country of registration: *[insert Bidder's legal address in country of registration]*
5. Bidder's Authorized Representative Information Name: *[insert Authorized Representative's name]* Address: *[insert Authorized Representative's Address]* Telephone/Fax numbers: *[insert Authorized Representative's telephone/fax numbers]* Email Address: *[insert Authorized Representative's email address]*
6. Attached are copies of original documents of *[check the box(es) of the attached documents]* ☐ Articles of Incorporation (or equivalent documents of constitution or association), and/or documents of registration of the legal entity named above. ☐ Establishing that the Bidder is not under the supervision of the Procuring Agency 7. Included are the organizational chart, a list of Board of Directors, and the beneficial ownership.

Form T2 - Declaration for Ultimate Beneficial Owners Information

(Applicable for Procurement of Rs. 50 M or Above)

IFB No: ED/PROC-HOK/223440/2025/248
Title: Allied Electrical Works for Supply, Installation, Testing & Commissioning of 350 TR Water Cooled Centrifugal Chiller Works at Main AC Plant, SBP Karachi
Bidder:

Declaration of Ultimate Beneficial Owners Information for Public Procurement Contracts

1. Name:
2. Father's Name/Spouse's Name:
3. CNIC/NICOP/Passport no:
4. Nationality:
5. Residential address:
6. Email address:
7. Date on which shareholding, control or interest acquired in the business:
8. In case of indirect shareholding, control or interest being exercised through intermediary companies, entities or other legal persons or legal arrangements in the chain of ownershipor control, following additional particulars to be provided:

1	2	3	4	5	6	7	8	9	10
Name	Legal form (Company/Limited Liability Partnership/Association of Persons/Single Member Company/ Partnership Firm/ Trust/Any other individual, body corporate (to be specified))	Date of incorporation/ registration	Name of registering authority	Business Address	Country	Email address	Percentage of shareholding, control or interest of BO in the legal person or legal arrangement	Percentage of shareholding, control or interest of legal person or legal arrangement in the Company	Identity of Natural Person who ultimately owns or controls the legal person or arrangement

9. Information about the Board of Directors (details shall be provided regarding number of shares in the capital of the company as set opposite respective names).

1	2	3	4	5	6	7	8
Name and surname (InBlock Letters)	CNIC No. (in case of foreigner ,Passport No)	Father's/ Husband's Name in full	Current Nationality	Any other Nationality (ies)	Occupation	Residential address infull or the registered/ principal office address for a subscriber other thannatural person	Number of shares taken by each subscriber (in figures and words)
Total number of shares taken (in figures and words)							

10. Any other information incidental to or relevant to Beneficial Owner(s).

Form T3 – Letter of Bid (Technical Proposal)

Date of this Bid submission: ----------
IFB No.: *ED/PROC-HOK/223440/2025/248*
Title of Procurement: Allied Electrical Works for Supply, Installation, Testing & Commissioning of 350 TR Water Cooled Centrifugal Chiller Works at Main AC Plant, SBP Karachi

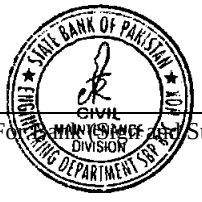
To: SBP Banking Service Corporation

We, the undersigned Bidder, hereby submit our Bid, in two parts, namely:

(a) The Technical Proposal, and
(b) The Financial Proposal.

In submitting our Bid we make the following declarations:

(a) **No reservations:** We have examined and have no reservations to the bidding document, including addenda issued in accordance with Instructions to Bidders (ITB 9);
(b) **Eligibility**: We meet the eligibility requirements and have no conflict of interest in accordance with ITB 3;
(c) **Bid/Proposal-Securing Declaration**: We have not been suspended nor declared ineligible by the Procuring Agency based on execution of a Bid Securing Declaration or Proposal Securing Declaration in the Procuring Agency's country in accordance with ITB 4;
(d) **Conformity:** We offer to supply in conformity with the bidding document and in accordance with the Delivery Schedules specified in the Schedule of Requirements;
(e) **Bid Validity Period**: Our Bid shall be valid for the period specified in **BDS 17.1** (as amended, if applicable) from the date fixed for the Bid submission deadline specified in **BDS 23.1** (as amended, if applicable), and it shall remain binding upon us, and may be accepted at any time before the expiration of that period;
(f) **Performance Security**: If our Bid is accepted, we commit to obtain a performance security in accordance with the bidding document;
(g) **One Bid per Bidder**: We are not submitting any other Bid(s) as an individual Bidder, and we are not participating in any other bid(s) as a Joint Venture member or as a subcontractor, and meet the requirements, other than Alternative Bids submitted in accordance with **ITB 19**;
(h) **Suspension and Debarment**: We, along with any of our subcontractors, suppliers, consultants, manufacturers, or service providers for any part of the contract, are not subject to, and not controlled by any entity or individual that is subject to, a temporary suspension or a debarment imposed by the Procuring Agency. Further, we are not ineligible under Pakistan laws;
(i) **State-owned enterprise or institution**: [*select the appropriate option and delete the other*] [*We are not a state-owned enterprise or institution*] / [*We are a state-owned enterprise or institution but meet the requirements of*]; _____
(j) **Binding Contract**: We understand that this Bid, together with your written acceptance thereof included in your Letter of Acceptance, shall constitute a binding contract between us, until a formal contract is prepared and executed;
(k) **Not Bound to Accept**: We understand that you are not bound to accept the Most Advantageous Bid or any other Bid that you may receive; and
(l) **Fraud and Corruption**: We hereby certify that we have taken steps to ensure that no person acting for us, or on our behalf, engages in any type of Fraud and Corruption.



Form T4 – Undertaking

IFB No: ED/PROC-HOK/223440/2025/248/248
Title: Allied Electrical Works for Supply, Installation, Testing & Commissioning of 350 TR Water Cooled Centrifugal Chiller Works at Main AC Plant, SBP Karachi
Bidder:

UNDERTAKING

1. I/We hereby confirm and declare that I/We***,*** ***[the Bidder]***, has/have not been declared in-eligible or debarred, blacklisted/sanctioned by any Federal or Provincial Government Department, National Counter Terrorism Authority (NACTA), Agency, Organization or Autonomous Body anywhere in Pakistan or fraudulent practices, or no failure to perform with SBP.
2. That I / We have not been convicted, by a final judgment of a Court of Law or relevant Professional Statuary Body, of any offence involving professional conduct;
3. That I / We have obtained all information regarding all applicable Taxes and conform the requirements thereof at my / our own responsibility and have included the same in the quoted Bid Price. The quoted Bid Price also includes the cost of accepting the general risks / liabilities and obligations set forth or implied in the Contract. I / We understand and agree that the Employer will entertain no claim at any later stage on this account
4. That I / We have visited and examined the Site of Works and its surroundings and have obtained all information which is necessary for preparing the bid and entering into a Contract. I / We understand and agree that the Employer will entertain no claim at any later stage on this account.
5. That payments in favor of the bidder is never suspended in accordance with the judgment of a court of law other than a judgment declaring bankruptcy and resulting (in accordance with the national laws) in the total or partial loss of the right to administer and dispose of its property;
6. No legal proceedings have been instituted against us involving an order suspending payments and which has resulted, in accordance with the national laws, in a declaration of bankruptcy or in any other situation entailing the total or partial loss of the right to administer and dispose of the property;
7. I/We, M/s ----------, understand and agree unconditionally that in case I/We, M/s fail to abide by the above undertaking or any of terms of the Contract, the Client/ SBP BSC shall be at liberty to terminate the Contract without prejudice to any other rights / remedy available in the Contract.

Form T5.1 – Manufacturer's Authorization Form (NOT Applicable)

*[The Bidder shall require the Manufacturer to fill in this Form in accordance with the instructions indicated. This letter of authorization should be on the letterhead of the Manufacturer and should be signed by a person with the proper authority to sign documents that are binding on the Manufacturer. The Bidder shall include it in its Bid, if so indicated in the **BDS.**]*

IFB No: ED/PROC-HOK/223440/2025/248

Title: Allied Electrical Works for Supply, Installation, Testing & Commissioning of 350 TR Water Cooled Centrifugal Chiller Works at Main AC Plant, SBP Karachi

Bidder: _____

To: *[SBP Banking Service Corporation]*

WHEREAS

We *[insert complete name of Manufacturer]*, who are official manufacturers of *[insert type of goods manufactured]*, having factories at [insert full address of Manufacturer's factories], do hereby authorize *[insert complete name of Bidder]* to submit a Bid the purpose of which is to provide the following Goods, manufactured by us *[insert name and or brief description of the Goods]*, and to subsequently negotiate and sign the Contract.

We hereby extend our full guarantee and warranty in accordance with Clause 18 of the General Conditions of Contract, with respect to the Goods offered by the above firm.

Signed: *[insert signature(s) of authorized representative(s) of the Manufacturer]*

Name: *[insert complete name(s) of authorized representative(s) of the Manufacturer]*

Title: *[insert title]*

Dated on _____day of_____,_____*[insert date of signing]*

Form T5.2 – Distributor's Authorization Form (NOT Applicable)

[The Bidder shall require the Distributor to fill in this Form in accordance with the instructions indicated. This letter of authorization should be on the letterhead of the Distributor and should be signed by a person with the proper authority to sign documents that are binding on the Distributor.]

IFB No: ED/PROC-HOK/223440/2025/248

Title: Allied Electrical Works for Supply, Installation, Testing & Commissioning of 350 TR Water Cooled Centrifugal Chiller Works at Main AC Plant, SBP Karachi

Bidder: _____

To: *[SBP Banking Service Corporation]*

WHEREAS

We *[insert complete name of* official Distributor*]*, who are official Distributor of *[insert type of goods manufactured]*, having Distributor / office at [insert full address of Distributor], do hereby authorize *[insert complete name of Bidder]* to submit a Bid the purpose of which is to provide the following Goods, manufactured by _____ *[insert name and or brief description of the Goods]*, and to subsequently negotiate and sign the Contract.

We hereby extend our full guarantee and warranty in accordance with Clause 18 of the General Conditions of Contract, with respect to the Goods offered by the above firm.

Signed: *[insert signature(s) of authorized representative(s) of the Manufacturer]*

Name: *[insert complete name(s) of authorized representative(s) of the Manufacturer]*

Title: *[insert title]*

Dated on _____day of_____,_____*[insert date of signing]*

Form T6 – Form of Bid Security

(Bank Guarantee)
(NOT APPLICABLE)

[The bank shall fill in this Bank Guarantee Form in accordance with the instructions indicated.]

[Guarantor letterhead or SWIFT identifier code]

Beneficiary: SBP Banking Service Corporation

IFB No.: ED/PROC-HOK/223440/2025/248

Date: *[Insert date of issue]*

BID GUARANTEE No.: *[Insert guarantee reference number]*

Guarantor: *[Insert name and address of place of issue, unless indicated in the letterhead]*

We have been informed that_____*[insert name of the Bidder, which in the case of a joint venture shall be the name of the joint venture (whether legally constituted or prospective) or the names of all members thereof]* (hereinafter called "the Applicant") has submitted or will submit to the Beneficiary its Bid (hereinafter called "the Bid") for the execution of Allied Electrical Works for Supply, Installation, Testing & Commissioning of 350 TR Water Cooled Centrifugal Chiller Works at Main AC Plant, SBP Karachi under Request for Bids No. ED/PROC-HOK/223440/2025/248 ("the RFB").

Furthermore, we understand that, according to the Beneficiary's conditions, Bids must be supported by a Bid guarantee.

At the request of the Applicant, we, as Guarantor, hereby irrevocably undertake to pay the Beneficiary any sum or sums not exceeding in total an amount of _____ (_____) upon receipt by us of the Beneficiary's complying demand, supported by the Beneficiary's statement, whether in the demand itself or a separate signed document accompanying or identifying the demand, stating that either the Applicant:

(a) has withdrawn its Bid during the period of Bid validity set forth in the Applicant's Letter of Bid ("the Bid Validity Period"), or any extension thereto provided by the Applicant; or

(b) having been notified of the acceptance of its Bid by the Beneficiary during the Bid Validity Period or any extension thereto provided by the Applicant, (i) has failed to sign the contract agreement, or (ii) has failed to furnish the performance security, in accordance with the Instructions to Bidders ("ITB") of the Beneficiary's bidding document.

This guarantee will expire: (a) if the Applicant is the successful Bidder, upon our receipt of copies of the Contract agreement signed by the Applicant and the performance security issued to the Beneficiary in relation to such Contract agreement; or (b) if the Applicant is not the successful Bidder, upon the earlier of (i) our receipt of a copy of the Beneficiary's notification to the Applicant of the results of the Bidding process; or (ii) twenty-eight days after the end of the Bid Validity Period.

Consequently, any demand for payment under this guarantee must be received by us at the office indicated above on or before that date.

_____

[Signature(s)]

Note: All italicized text is for use in preparing this form and shall be deleted from the final product.

Form T7 – Form of Bid Securing Declaration

(NOT APPLICABLE)

The Bidder shall fill in this Form in accordance with the instructions indicated.]

Date: *[date (as day, month and year)]*
IFB No.: ED/PROC-HOK/223440/2025/248
Title: Allied Electrical Works for Supply, Installation, Testing & Commissioning of 350 TR Water Cooled Centrifugal Chiller Works at Main AC Plant, SBP Karachi

To: *[SBP Banking Service Corporation]*

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:

(a) have withdrawn our Bid during the period of Bid validity specified in the Letter of Bid; or

(b) having been notified of the acceptance of our Bid by the Procuring Agency during the period of Bid validity, (i) fail or refuse to sign the Contract; or (ii) fail or refuse to furnish the Performance Security (or guarantee), if required, in accordance with the ITB.

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 days after the expiration of our Bid.

Name of the Bidder***** _____

Name of the person duly authorized to sign the Bid on behalf of the Bidder****** _____

Title of the person signing the Bid _____

Signature of the person named above _____

Date signed _____ day of _____, _____

*****: In the case of the Bid submitted by joint venture specify the name of the Joint Venture as Bidder

**: Person signing the Bid shall have the power of attorney given by the Bidder attached to the Bid

Form T8 – S2 Form

	STATE BANK OF PAKISTAN **BANKING SERVICES CORPORATION** **Supplier Bank Account (IBAN) Details Form**	S-2

1. For Office use:

***Office/Deptt**					***Supplier No.**			**WHT Rate**
Supplier	**New**		**Update**		***Liability A/C**			
***Supplier Type**					***Prepayment A/C**			

2. Supplier Information

***Supplier Name**			
***Supplier NTN**		**CNIC No.**	
Supplier Address			
		Supplier City	
Contact No.		**Mobile**	
E-mail Address		**Fax No.**	

3. Bank Account Information

***Bank Name**					
***IBAN (24 Characters)**					
***Branch Type**	**Islamic**		**Commercial**		
***Title of Account**					***Supplier Stamp & Signature**

(For Office use only)

Forwarded By	**Verified By**	**Entered By (Supplier Mgt User)**
(Procurement Function)		

Date

Field marked with * are mandatory.
Information without complete Bank Account Details (IBAN) & NTN/ CNIC will not be accepted.
Any changes in Supplier's particulars should be conveyed immediately to SBP BSC. SBP BSC will not be responsible for credit into wrong account of supplier due to change in bank account details not conveyed to SBP BSC or delay in settlement of supplier's claims.

FINANCIAL PROPOSAL

Price Schedule

- - - - REFER TO VOLUME-II OF THE BIDDING DOCUMENTS - - - -

PART-B

SECTION VII – GENERAL CONDITIONS OF THE CONTRACT

SECTION VII – GENERAL CONDITIONS OF THE CONTRACT

1. Definitions

1.1. The following words and expressions shall have the meanings hereby assigned to them:

a) **"Authority"** means Public Procurement Regulatory Authority.

b) The "**Arbitrator"** is the person appointed with mutual consent of both the parties, to resolve contractual disputes as provided for in the General Conditions of the Contract **GCC Clause 31** hereunder.

c) The **"Contract**" means the agreement entered into between the Procuring Agency and the Supplier, as recorded in the Contract Form signed by the parties, including all attachments and appendices thereto and all documents incorporated by reference therein.

d) The "**Commencement Date"** is the date when the Supplier shall commence execution of the contract as specified in the **SCC.**

e) "**Completion**" means the fulfillment of the related services by the Supplier in accordance with the terms and conditions set forth in the contract.

f) **"Country of Origin"** means the countries and territories eligible under the PPRA Rules 2004 and its corresponding Regulations as further elaborated in the **SCC**.

g) The **"Contract Price"** is the price stated in the Letter of Acceptance and thereafter as adjusted in accordance with the provisions of the Contract.

h) **"Defective Goods"** are those goods which are below standards, requirements or specifications stated by the Contract.

i) **"Delivery"** means the transfer of the goods from the supplier equipment, machinery, and /or other materials which the Supplier is required to supply to the Procuring Agency under Contract.

j) **"Effective Contract date"** is the date shown in the Certificate of Contract Commencement issued by the Procuring Agency upon fulfillment of the conditions precedent stipulated in **GCC Clause 3.**

k) **"Procuring Agency"** means the person named as Procuring Agency in the **SCC** and the legal successors in title to this person, procuring the Goods and related service, as named in **SCC.**

l) **"Related Services"** means those services ancillary to the delivery of the Goods, such as transportation and insurance, and any other incidental services, such as installation, commissioning, provision of technical assistance, training, initial maintenance and other such obligations of the Supplier covered under the Contract.

m) **"GCC**" means the General Conditions of Contract contained in this section.

n) "**Intended Delivery Date"** is the date on which it is intended that the Supplier shall effect delivery as specified in the **SCC.**

o) **"SCC"** means the Special Conditions of Contract.

p) "**Supplier**" means the individual private or government entity or a combination of the above whose Bid to perform the contract has been accepted by the Procuring Agency and is named as such in the Contract Agreement, and includes the legal successors or permitted assigns of the supplier and shall be named in the **SCC**.

q) **"Project Name**" means the name of the project stated in **SCC**.

r) **"Day"** means calendar day.

s) **"Eligible Country"** means the countries and territories eligible for participation in accordance with the policies of the Federal Government.

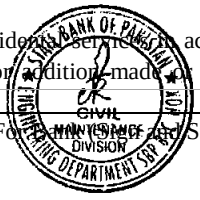
t) **"End User"** means the organization(s) where the goods will be used, as named in the **SCC**.

u) **"Origin"** means the place where the Goods were mined, grown, or produced or from which the Services are supplied. Goods are produced when, through manufacturing, processing, or substantial and major assembly of components, a commercially recognized new produce results that is substantially different in basic characteristics or in purpose or utility from its components.

v) "**Force** Majeure" means an unforeseeable event which is beyond reasonable control of either Party and which makes a Party's performance of its obligations under the Contract impossible or so impractical as to be considered impossible under the circumstances.

For the purposes of this Contract, **"Force Majeure"** means an event which is beyond the reasonable control of a Party, is not foreseeable, is unavoidable, and its origin is not due to negligence or lack of care on the part of a Party, and which makes a Party's performance of its obligations hereunder impossible or so impractical as reasonably to be considered impossible in the circumstances. and includes, but is not limited to, war, riots, civil disorder, earthquake, fire, explosion, storm, flood, epidemics, or other adverse weather conditions, strikes, lockouts or other industrial action (except where such strikes, lockouts or other industrial action are within the power of the Party invoking Force Majeure to prevent), confiscation or any other action by Government agencies.

w) **"Specification"** means the Specification of the Goods and performance of incidental services in accordance with the relevant standards included in the Contract and any modification or addition made or approved



	by the Procuring Agency. x) The Supplier's Bid is the completed Bid document submitted by the Supplier to the Procuring Agency.
2.Application and Interpretation	2.1 These General Conditions shall apply to the extent that they are not superseded by provisions of other parts of the Contract. 2.2 In interpreting these Conditions of Contract headings and marginal notes are used for convenience only and shall not affect their interpretations unless specifically stated; references to singular include the plural and vice versa; and masculine include the feminine. Words have their ordinary meaning under the language of the Contract unless specifically defined. 2.3 The documents forming the Contract shall be interpreted in the following order of priority: (1) Form of Contract, (2) Special Conditions of Contract, (3) General Conditions of Contract, (4) Letter of Acceptance, (5) Certificate of Contract Commencement (6) Specifications (7) Contractor's Bid, and (8) Any other document listed in the Special Conditions of Contract as forming part of the Contract.
3.Conditions Precedent	3.1 Having signed the Contract, it shall come into effect on the date on which the following conditions have been satisfied: 3.1.1 Submission of performance Security (or guarantee) in the form specified in the **SCC**; 3.1.2 Furnishing of Advance Payment Unconditional Guarantee. 3.2 If the Condition precedent stipulated on GCC Clause 3.1 is not met by the date specified in the SCC this contract shall not come into effect; 3.3 If the Procuring Agency is satisfied that each of the conditions precedent in this contract has been satisfied (except to the extent waved by him, but subject to such conditions as he shall impose in respect of such waiver) he shall promptly issue to the supplier a certificate of Contract commencement, which shall confirm the start date.
4. Governing Language	4.1 The Contract as all correspondence and documents relating to the contract exchanged by the Supplier and the Procuring Agency shall be written in the language specified in **SCC**. Subject to **GCC Clause 3.1**, the version of the Contract written in the specified language shall govern its interpretation.
5. Applicable Law	5.1 The contract shall be governed and interpreted in accordance with the laws of Pakistan, unless otherwise specified in SCC.
6. Country of Origin	6.1 The origin of Goods and Services may be distinct from the nationality of the Supplier.
7. Standards	48.1 The Goods supplied under this Contract shall conform to the standards mentioned in the Technical Specifications, and, when no applicable standard is mentioned, the American Standards (such as ACI, IEEE, ASME, etc.) or the Pakistani standards such as PSQCA such standards shall be the latest issued by the concerned institution.
8. Use of Contract Documents and Information; Inspection and Audit by Government of Pakistan	8.1 The Supplier shall not, without the Procuring Agency's prior written consent, disclose the Contract, or any provision thereof, or any specification, plan, drawing, pattern, sample, or information furnished by or on behalf of the Procuring Agency in connection therewith, to any person other than a person employed by the Supplier in the performance of the Contract. Disclosure to any such employed person shall be made in confidence and shall extend only as far as may be necessary for purposes of such performance. 8.2 The Supplier shall not, without the Procuring Agency's prior written consent, make use of any document or information enumerated in GCC Clause 7.1 except for purposes of performing the Contract. 8.3 Any document, other than the Contract itself, enumerated in GCC Clause 7.1 shall remain the property of the Procuring Agency and shall be returned (all copies) to the Procuring Agency on completion of the Supplier's performance under the Contract if so required by the Procuring Agency. 8.4 The Supplier shall permit the Government of Pakistan or / and donor agencies involved in financing the project to inspect the Supplier's accounts and records relating to the performance of the Supplier and to have them audited by auditors appointed by the Government of Pakistan or / and the appropriate donor agencies, if so required by the Government of Pakistan or / and the appropriate donor agencies.
9. Patents and Copy Rights	9.1 The Supplier shall indemnify the Procuring Agency against all third-party claims of infringement of patent, trademark, or industrial design rights arising from use of the Goods or any part thereof in Pakistan. 9.2 The patent right in all drawings, documents, and other materials containing data and information furnished to the Procuring Agency by the Supplier herein shall remain vested in the supplier, or, if they are furnished to the Procuring Agency directly, or through the Supplier by any third party, including suppliers of materials, the patent right in such materials shall remain vested in such third party.
10. Performance Security (or Guarantee)	10.1 The Performance Security (or Guarantee) shall be provided to the Procuring Agency no later than the date specified in the Letter of Acceptance and shall be issued in an amount and form and by a bank or surety acceptable to the Procuring Agency, and denominated in the types and proportions of the currencies in

		which the Contract Price is payable as specified in the **SCC**.
	10.2	The proceeds of the Performance Security (or Guarantee) shall be payable to the Procuring Agency as compensation for any loss resulting from the Supplier's failure to complete its obligations under the Contract.
	10.3	The Performance Security (or Guarantee) shall be in one of the following forms a) A bank guarantee, an irrevocable letter of credit issued by a reputable bank, or in the form provided in the Bidding Documents or another form acceptable to the Procuring Agency; or b) A cashier's or certified check.
	10.4	The performance security (or guarantee) will be discharged by the Procuring Agency and returned to the Supplier 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**.
11. Inspection and Testing	11.1	The Procuring Agency or its representative shall have the right to inspect and /or to test the Goods to confirm their conformity to the Contract specifications at no extra cost to the Procuring Agency. **SCC** and the Technical Specifications shall specify what inspections and tests the Procuring Agency shall notify the Supplier in writing or in electronic forms that provide record of the content of communication, in a timely manner, of the identity of any representatives retained for these purposes.
	11.2	The inspections and tests may be conducted on the premises of the Supplier or its subcontractor(s), at point of delivery, and/or at the Goods' final destination. If conducted on the premises of the Supplier or its subcontractor(s), all reasonable facilities and assistance, including access to drawings and production data, shall be furnished to the inspectors at no charge to the Procuring Agency.
	11.3	Should any inspected or tested Goods fail to conform to the Specifications, the Procuring Agency may reject the Goods, and the Supplier shall replace the rejected Goods to meet specification requirements free of cost to the Procuring Agency.
	11.4	The Procuring Agency's right to inspect, test and, where necessary, reject Goods after the Goods' arrival in the Procuring Agency's country shall in no way be limited or eared by reason of the Goods having previously been inspected, tested, and passed by the Procuring Agency or its representative prior to the Goods' shipment from the country of origin.
	11.5	Nothing in **GCC Clause 10** shall in any way release the supplier from any warranty or other obligations under this Contract.
12. Packing	12.1	The supplier shall provide such packing of the Goods as is required to prevent their damage or deterioration during transit to their final destination, as indicated in the Contract. The packing shall be sufficient to withstand, without limitation, rough handling during transit and exposure to extreme temperatures, salt and precipitation during transit, and open storage. Packing case size and weights shall take into consideration, where appropriate, the remoteness of the Goods final destination and the absence of heavy handling facilities at all points in transit.
	12.2	The packing, marking, and documentation within and outside the packages shall comply strictly with such special requirements as shall be expressly provided for in the Contract, including additional requirements, if any, specified in **SCC**, and in any subsequent instructions ordered by the Procuring Agency.
13.Delivery and Documents	13.1	Delivery of the Goods shall be made by the Supplier in accordance with the terms specified in the Schedule of Requirements. The details of shipping and or other documents to be furnished by the Supplier as specified in **SCC**.
	13.2	For purposes of the Contract, "EXW", "FOB", "FCA", "CIF", "CIP," and other trade terms used to describe the obligations of the parties shall have the meanings assigned to them by the current edition of INCOTERMS published by the International Chamber of Commerce, Paris.
	13.3	Documents to be submitted by the Supplier are specified in **SCC**.
14.Insurance	14.1	The Goods supplied under the Contract shall be fully insured in a freely convertible currency against loss or damage incidental to manufacture or acquisition, transportation, storage, and delivery in the manner specified in the **SCC.**
15. Transportation	15.1	Where the Supplier is required under Contract to deliver the Goods FOB, transport of the Goods, up to and including the point of putting the Goods on board the vessel at the specified port of loading, shall be arranged and paid for by the Supplier, and the cost thereof shall be included in the Contract Price. Where the Supplier is required under the Contract to deliver the Goods FCA, transport of the Goods and delivery into the custody of the carrier at the place named by the Procuring Agency or other agreed point shall be arranged and paid for by the Supplier, and the cost thereof shall be included in the Contract Price.
	15.2	Where the Supplier is required under Contract to deliver the Goods CIF or CIP, transport of the Goods to the port of destination or such other named place of destination in Pakistan, as shall be specified in the Contract, shall be arranged and paid for by the Supplier, and the cost thereof shall be included in the Contract Price
	15.3	Where the Supplier is required under the Contract to transport the Goods to a specified place of destination within Pakistan, defined as the Project Site, transport to such place of destination in Pakistan, including insurance and storage, as shall be specified in the Contract, shall be arranged by the Supplier, and related costs shall be included in the Contract Price.

16. Related Services	16.1	The Supplier may be required to provide any or all of the following services, including additional services, if any, specified in **SCC**: a) Performance or supervision of on-site assembly, Installation Commissioning and/or start-up of the supplied Goods; b) Furnishing of tools required for assembly and/or maintenance of the supplied Goods; c) Furnishing of a detailed operations and maintenance manual for each appropriate unit of the supplied Goods; d) Performance or supervision or maintenance and/or repair of the supplied Goods, for a period of time agreed by the parties, provided that this service shall not relieve the Supplier of any warranty obligations under this Contract; and e) Training of the Procuring Agency's personnel, at the Supplier's plant and/or on-site, in assembly, start- up, operation, maintenance, and/or repair of the supplied Goods.
	16.2	Prices charged by the Supplier for related services, if not included in the Contract Price for the Goods, shall be agreed upon in advance by the parties and shall not exceed the prevailing rates charged to other parties by the Supplier for similar services.
17. Spare Parts	17.1	As specified in **SCC**, the Supplier may be required to provide any or all of the following materials, notifications, and information pertaining to spare parts manufactured or distributed by the Supplier: a) Such spare parts as the Procuring Agency may elect to purchase from the Supplier, provided that this election shall not relieve the Supplier of any warranty obligations under the Contract; and b) In the event of termination of production of the spare parts: i) advance notification to the Procuring Agency of the pending termination, in sufficient time to permit the Procuring Agency to procure needed requirements; and ii) following such termination, furnishing at no cost to the Procuring Agency, the blueprints, drawings, and specifications of the spare parts, if requested.
18. Warranty / Defect Liability Period	18.1	The Supplier warrants that the Goods supplied under the Contract are new, unused, of the most recent or current models and that they incorporate all recent improvements in design and materials unless provided otherwise in the Contract. The Supplier further warrants that all Goods supplied under this Contract shall have no defect, arising from design, materials, or workmanship (except when the design and/or material is required by the Procuring Agency, specifications) or from any act or omission of the Supplier, that may develop under normal use of the supplied Goods in the conditions prevailing in Pakistan.
	18.2	This warranty shall remain valid for a period specified in the **SCC** after the Goods, or any portion thereof as the case may be, have been delivered to and accepted at the final destination indicated in the Contract, or for a period specified in the **SCC** after the date of shipment from the port or place of loading in the source country, whichever period concludes earlier, unless specified otherwise in **SCC**.
	18.3	The Procuring Agency shall promptly notify the Supplier in writing or in electronic forms that provide record of the content of communication of any claims arising under this warranty.
	18.4	Upon receipt of such notice, the Supplier shall, within the period specified in SCC and with all reasonable speed, repair or replace the defective Goods or parts thereof, without costs to the Procuring Agency other than, where applicable, the cost of inland delivery of the repaired or replaced Goods or parts from EXW or the port or place of entry to entry to the final destination.
	18.5	If the Supplier, having been notified, fails to remedy the defect(s) within the period specified in **SCC**, the Procuring Agency may proceed to take such remedial action as may be necessary, at the Supplier's risk and expense and without prejudice to any other rights which the Procuring Agency may have against the Supplier under the Contract.
19. Payment	19.1	The method and conditions of payment to be made to the Supplier under this Contract shall be specified in **SCC**.
	19.2	The Supplier's request(s) for payment shall be made to the Procuring Agency in writing or in electronic forms that provide record of the content of communication, accompanied by an invoice describing, as appropriate, the Goods delivered and Services performed, and by documents submitted pursuant to **GCC Clause 13**, and upon fulfillment of other obligations stipulated in the Contract.
	19.3	Payments shall be made promptly by the Procuring Agency, within sixty (60) days after submission of an invoice or claim by the Supplier. If the Procuring Agency makes a late payment, the Supplier shall be paid interest on the late payment. Interest shall be calculated from the date by which the payment should have been made up to the date when the late payment is made at the rate as specified in the **SCC.**
	19.4	The currency or currencies in which payment is made to the Supplier under this Contract shall be specified in **SCC** subjectto the following general principle: payment will be made in the currency or currencies in which the payment has been requested in the Supplier's Bid.
	19.5	All payments shall be made in the currency or currencies specified in the **SCC** pursuant to **GCC Clause 19.4**
20. Prices	20.1	The contract price shall be as specified in the Contract Agreement Subject to any additions and adjustments thereto or deductions there from, as may be made pursuant to the Contract.

	20.2	Prices charged by the Supplier for Goods delivered and Services performed under the Contract shall not vary from the prices quoted by the Supplier in its Bid, with the exception of any price adjustments authorized in **SCC** or in the Procuring Agency's request for Bid Validity extension, as the case may be.
21. Change Orders	21.1	The Procuring Agency may at any time, by a written order given to the Supplier pursuant to **GCC** Clause **22,** make changes within the general scope of the Contract in any one or more of the following: a) Drawings, designs, or specifications, where Goods to be furnished under the Contract are to be specifically manufactured for the Procuring Agency; b) The method of shipment or packing; c) The place of delivery; and/or d) The Services to be provided by the Supplier.
	21.2	If any such change causes an increase or decrease in the cost of, or the time required for, the Supplier's performance of any provisions under the Contract an equitable adjustment shall be made in the Contract Price or delivery schedule, or both, and the Contract shall accordingly be amended. Any claims by the Supplier for adjustment under this clause must be asserted within thirty (30) days from the date of the Supplier's receipt of the Procuring Agency change order.
	21.3	Prices to be charged by the supplier for any related services that might be needed but which were not included in the Contract shall be agreed upon in advance by the Parties and shall not exceed the prevailing rates charged to other parties by the Supplier for similar services
22. Contract Amendments	22.1	Subject to **GCC Clause 20**, no variation in or modification of the terms of the Contract shall be made except by written amendment signed by the parties.
23. Assignment	23.1	Neither the Procuring Agency nor the Supplier shall assign, in whole or in part, obligations under this Contract, except with the prior written consent of the other party.
24. Sub-Contracts	24.1	The Supplier shall consult the Procuring Agency in the event of subcontracting under this contract if not already specified in the Bid. Subcontracting shall not alter the Supplier's obligations.
	24.2	Subcontracts must comply with the provision of GCC Clause 5.
25. Delays in the Supplier's Performance	25.1	Delivery of the Goods and performance of Services shall be made by the Supplier in accordance with the time schedule prescribed by the Procuring Agency in the Schedule of Requirements.
	25.2	If at any time during performance of the Contract, the Supplier or its subcontractor(s) should encounter conditions impeding timely delivery of the Goods and performance of Services, the Supplier shall promptly notify the Procuring Agency in writing or in electronic forms that provide record of the content of communication of the fact of the delay, its likely duration and its cause(s). As soon as practicable after receipt of the Supplier's notice, the Procuring Agency shall evaluate the situation and may at its discretion extend the Supplier's time for performance, with or without liquidated damages, in which case the extension shall be ratified by the parties by amendment of Contract.
	25.3	Except as provided under **GCC Clause 28**, a delay by the Supplier in the performance of its delivery obligations shall render the Supplier liable to the imposition of liquidated damages pursuant to **GCC Clause 26**, unless an extension of time is agreed upon pursuant to **GCC Clause 25.2** without the application of liquidated damages.
26. Liquidated Damages	26.1	Subject to **GCC Clause 28**, if the Supplier fails to deliver any or all of the Goods or to perform the Services within the period(s) specified in the Contract, the Procuring Agency shall, without prejudice to its other remedies under the Contract, deduct from the Contract Price, as liquidated damages, a sum equivalent to the percentage specified in **SCC** of the delivered price of the delayed Goods or unperformed Services for each week or part thereof of delay until actual delivery or performance, up to a maximum deduction of the performance security (or guarantee) specified in **SCC**. Once the said maximum is reached, the Procuring Agency may consider termination of the Contract pursuant to **GCC Clause 27.**
27. Termination for Default	27.1	The Procuring Agency or the Supplier, without prejudice to any other remedy for breach of Contract, by written notice of default sent to the concerned party may terminate the Contract if the other party causes a fundamental breach of the Contract.
	27.2	Fundamental breaches of Contract shall include, but shall not be limited to the following: a) the Supplier fails to deliver any or all of the Goods within the period(s) specified in the Contract, or within any extension thereof granted by the Procuring Agency pursuant to **GCC Clause 24**; or b) the Supplier fails to perform any other obligation(s) under the Contract; c) Supplier's failure to submit performance security (or guarantee) within the time stipulated in the **SCC;** d) the supplier has abandoned or repudiated the contract. e) the Procuring Agency or the Supplier is declared bankrupt or goes into liquidation other than for a reconstruction or amalgamation; f) a payment is not paid by the Procuring Agency to the Supplier after 84 days from the due date for payment; g) the Procuring Agency gives Notice that goods delivered with a defect is a fundamental breach of Contract and the Supplier fails to correct it within a reasonable period of time determined by the

		Procuring Agency; and h) if the Procuring Agency determines, based on the reasonable evidence, that the Supplier has engaged in corrupt, coercive, collusive, obstructive or fraudulent practices, in competing for or in executing the Contract. 27.3 For the purpose of this clause: **"Corrupt and Fraudulent Practice"** means the practices as described in Rule-2 (1) (f) of Public Procurement Rules-2004. 27.4 In the event the Procuring Agency terminates the Contract in whole or in part, pursuant to **GCC Clause 26.1,** the Procuring Agency may procure, upon such terms and in such manner as it deems appropriate, Goods or Services similar to those undelivered, and the Supplier shall be liable to the Procuring Agency for any excess costs for such similar Goods or Services. However, the Supplier shall continue performance of the Contract to the extent not terminated.
28. Termination for Force Majeure	28.1	Notwithstanding the provisions of **GCC Clauses 25, 26**, and 27, neither Party shall have any liability or be deemed to be in breach of the Contract for any delay nor is other failure in performance of its obligations under the Contract, if such delay or failure is a result of an event of Force Majeure. For purpose of this clause, **''Force Majeure''** means an event which is beyond the reasonable control of a Party, is not foreseeable, is unavoidable, and its origin is not due to negligence or lack of care on the part of a Party, and which makes a Party's performance of its obligations hereunder impossible or so impractical as reasonably to be considered impossible in the circumstances, and includes, but is not limited to, war, riots, civil disorder, earthquake, fire, explosion, storm, flood, epidemics, or other adverse weather conditions, strikes, lockouts or other industrial action (except where such strikes, lockouts or other industrial action are within the power of the Party invoking Force Majeure to prevent
	28.2	If a Party (hereinafter referred to as "the Affected Party") is or will be prevented from performing its substantial obligation under the contract by Force Majeure, it shall give a Notice to the other Party giving full particulars of the event and circumstance of Force Majeure in writing or in electronic forms that provide record of the content of communication of such condition and the cause thereof. Unless otherwise directed by the Procuring Agency in writing or in electronic forms that provide record of the content of communication, the Supplier shall continue to perform its obligations under the Contract as far as is reasonably practical, and shall seek all reasonable alternative means for performance not prevented by the Force Majeure event.
29. Termination for Insolvency	29.1	The Procuring Agency may at any time terminate the Contract by giving written notice to the Supplier if the Supplier becomes bankrupt or otherwise insolvent. In this event, termination will be without compensation to the Supplier, provided that such termination will not prejudice or affect any right of action or remedy which has accrued or will accrue thereafter to the Procuring Agency.
30. Termination for Convenience	30.1	The Procuring Agency, by written notice sent to the Supplier, may terminate the contract, in whole or in part, at any time for its convenience. The notice of termination shall specify that termination is for the Procuring Agency's convenience, the Contract is terminated, and the date upon which such termination becomes effective.
	30.2	The Goods that are complete and ready for shipment within thirty (30) days after the Supplier's receipt of notice of termination shall be accepted by the Procuring Agency at the Contract terms and price. For the remaining Goods, the Procuring Agency may elect: a) To have any portion completed and delivered at the Contract terms and prices; and / or b) To cancel the remainder and pay to the Supplier an agreed amount for partially completed Goods and Services and for materials and parts previously procured by the Supplier.
31. Disputes Resolutions	31.1	In the event of any dispute arising out of this contract, either party shall issue a notice of dispute to settle the dispute amicably. The parties hereto shall, within twenty-eight (28) days from the notice date, use their best efforts to settle the dispute amicably through mutual consultations and negotiation. Any unsolved dispute may be referred by either party to an arbitrator that shall be appointed by mutual consent of the both parties.
	31.2	After the dispute has been referred to the arbitrator, within 30 days, or within such other period as may be proposed by the Parties, the Arbitrator shall give its decision. The rendered decision shall be binding to the Parties.
32. Procedure for Disputes Resolutions	32.1	The arbitration shall be conducted in accordance with the arbitration procedure published by the Institution named and in the place shown in the **SCC**.
	32.2	The rate of the Arbitrator's fee and administrative costs of arbitration shall be borne equally by the Parties. The rates and costs shall be in accordance with the rules of the Appointing Authority. In conducting arbitration to its finality each party shall bear its incurred costs and expenses.
	32.3	The arbitration shall be conducted in accordance with the arbitration procedure published by the institution named and in the place shown in the **SCC**.
33. Replacement of Arbitrator	33.1	Should the Arbitrator resign or die, or should the Procuring Agency and the Supplier agree that the Arbitrator is not functioning in accordance with the provisions of the contract, a new Arbitrator shall be appointed by mutual

		consent of the both parties.
34. Limitation of Liability	34.1	Except in cases of criminal negligence or willful conduct, and in the case of infringement pursuant to **GCC Clause 8,** a) The supplier shall not be liable to the Procuring Agency, whether in contract, tort, or otherwise, for any indirect or consequential loss or damage, loss of use, loss of production, or loss of profits or interest costs, provided that this exclusion shall not apply to any obligation of the Supplier to pay liquidated damages to the Procuring Agency; and b) The aggregate liability of the Supplier to the Procuring Agency, whether under the Contract, in tort or otherwise, shall not exceed the total Contract Price, provided that this limitation shall not apply to the cost of repairing or replacing defective equipment or to any obligation of the Supplier to indemnify the Procuring Agency with respect to patent infringement.
35. Notices	35.1	Any notice given by one party to the other pursuant to this Contract shall be sent to the other party in writing or in electronic forms that provide record of the content of communication and confirmed in writing or in electronic forms that provide record of the content of communication to the other party's address specified in **SCC**.
	35.2	A notice shall be effective when delivered or on the notice's effective date, whichever is later.
36. Taxes and Duties	36.1	A foreign Supplier shall be entirely responsible for all taxes, stamp duties, license fees, and other such levies imposed outside Pakistan.
	36.2	If any tax exemptions, reductions, allowances or privileges may be available to the Supplier in Pakistan the Procuring Agency shall use its best efforts to enable the Supplier to benefit from any such tax savings to the maximum allowable extent.
	36.3	A local Supplier shall be entirely responsible for all taxes, duties, license fees, etc., incurred until delivery of the contracted Goods to the Procuring Agency.

SECTION VIII: SPECIAL CONDITIONS OF THE CONTRACT (SCC)

Special Conditions of Contract (SCC)

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

SCC Clause Number	GCC Clause Number	Amendments of, and Supplements to, Clauses in the GCC
		Definitions (GCC 1)
1.	1.1 (k)	The Procuring Agency is: SBP Banking Service Corporation
2.	1.1(p)	The Supplier is named as such in the Contract Agreement.
3.	1.1(q)	The title of the subject procurement or The Project is: Allied Electrical Works for Supply, Installation, Testing & Commissioning of 350 TR Water Cooled Centrifugal Chiller Works at Main AC Plant, SBP Karachi
		Application and Interpretations
4.	2.3	The documents forming the Contract shall be interpreted in the following order of priority: (1) Form of Contract, (2) Special Conditions of Contract, (3) General Conditions of Contract, (4) Letter of Acceptance, (5) Certificate of Contract Commencement (6) Bill of Quantities (7) Drawings (8) Specifications (9) Instruction to Bidders and Bid Data Sheet (10) Addendum (11) Contractor's Bid.
	Governing Language (GCC 4)	
5.	4.1	The Governing Language shall be: **English / Urdu**
		Applicable Law (GCC 5)
6.	5.1	The Applicable Law shall be: **Laws of Pakistan**
		Performance Security (or guarantee) (GCC 10)
7.	10.1	a. The amount of Performance Security (or guarantee), as a percentage of the Contract Price, shall be **10%** of the Contract Price state in the Letter of Acceptance / Award in favour of SBP-Banking Services Corporation. b. Notwithstanding anything contained in the Contract and / or applicable law the Performance Security shall be forfeited if the Supplier fails to perform its obligations under the Contract.
8.	10.4	a. The Performance Security (Guarantee) shall be in in the form of Pay Order / Demand Draft / unconditional Bank Guarantee enforceable in Pakistan as per Performance Security (Guarantee) form specified in the Bidding Documents. b. The Performance Security shall be valid till successful completion of Defect Liability Period / Warranty Period and will be released after successful expiry of Defect Liability Period / Warranty Period.
		Delivery and Documents (GCC Clause 13)
9.	13.1	**For Goods supplied from abroad: Not Applicable**
10.	13.3	**For Goods supplied from abroad: Not Applicable**

11.	14.1	**The Works** Amount of Cover: The sum stated in Letter of Acceptance plus fifteen percent 15%. **Contractor 's equipment** Amount of Cover: Full replacement Cost **Injury to Person and Damaged to Property including Third Party Insurance** Amount of Cover: I) As per workmen compensation act II) Contractor's all Risk including Third party III) damages to the Structure, stores if supplied by the Bank
		Warranty / Defect Liability Period (GCC Clause 18)
12.	18.2	Defect Liability Period shall be 365 days. Warranty period of parts is 365 days.
13.	18.4 & 18.5	The period for correction of defects in the Warranty Period is **<u>03 days.</u>**
		Payment (GCC Clause 19)
14.	19.1	**The payment shall be made in following stages:** **a) Advance Payment** Up to 15% to total Contract Price (excluding SLA if applicable) against bank guarantee from Scheduled Bank in Pakistan This Advance shall be recovered @ 50% of the amount of work done from Interim Payment Certificates (IPC) and shall be fully recovered at least one month before scheduled completion time. The validity of Mobilization Advance Guarantee shall be valid for 60 days beyond the work completion period. Such Guarantee may be progressively reduced to the balance amount of Mobilization Advance indicated in Interim Payment Certificates of the Engineer issued in accordance with this Clause after receipt and verification of the revised guarantee not less than the due amount of mobilization advance. **c. Payment for Supply of Material/Equipment:** Up to seventy-five percent (75%) of the supply part of the BOQ items will be paid against delivery of material/equipment on site, and upon production of Factory Test Reports / Warranties / Shipping documents/ Inspection Reports at Manufacturer's Facility (where applicable) and indemnity bond as per approved format. d. **Payment upon Installation, Testing and Commissioning**: Up to ninety percent (90%) of the supply and installation parts of BOQ items will be paid upon successful Testing & Commissioning. **e. Payment upon completion:** Ten percent (10%) amount of whole BOQ item i.e. Supply and Installation will be paid upon completion of the whole works, including punch list noted at commissioning time. The Supplier / Contractor shall submit testing and fitness certificate in compliance with safety standards. **f. Retention Money** 10% of the net payable amount from each bill (except Mobilization Advance) of the Contractor will be deducted as retention money. The retention money would be released as follows: i. 5% on Completion of the whole works, ii. Balance 5% after successful completion of the Defects Liability Period / Warranty Period.
15.	19.3	Rate to be used for paying the Supplier's interest on the late payment made by Procuring Agency shall be ***<u>(Not Applicable)</u>***
		Prices (GCC Clause 20)
16.	20.1	Prices shall be adjusted in accordance with provisions in the Attachment to SCC. ***<u>Not Applicable</u>***
		Liquidated Damages (GCC Clause 26)
17.	26.1	@ 0.1% of total completed works / day to a maximum of 10% of the total completed works.

	Procedure for Dispute Resolution (GCC Clause 32)	
18.	32.3	**Dispute Resolution** In case of a dispute arising between the Parties regarding the terms of or rights and obligations of the Parties under this Contract, if not resolved amicably, shall be settled by an arbitration in accordance with the Arbitration Act, 1940. The Place of Arbitration shall be **Karachi** and proceedings will be conducted in English / Urdu. Notwithstanding any reference to the arbitration herein, the parties shall continue to perform their respective obligations under the Contract unless they otherwise agree that the Procuring Agency shall pay the Supplier any monies due to the Supplier.
	Notices (GCC Clause 35)	
19.	35.1	**Director Engineering (A)** SBP Banking Service Corporation 1st Floor, Engineering Department, SBP-BSC Bolton Market Building, M.A. Jinnah Road Karachi Phone: (92-21)–32454122/05/71, Facsimile: (92-21)-99221176 Website: www.sbp.org.pk

SECTION IX: CONTRACT FORMS

Appendix 1 – Form of Contract

THIS AGREEMENT made the_____day of_____202__between *[name and address of Procuring Agency]* of Pakistan (hereinafter called "the Procuring Agency") of the one part and *[name of Supplier]* of *[city and country of Supplier]* (hereinafter called "the Supplier") of the other part:

WHEREAS the Procuring Agency invited Bids for certain goods and related services, viz., *[brief description of goods and services]* and has accepted a Bid by the Supplier for the supply of those goods and related 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:-

    a. This form of Contract;
    b. the Form of Bid and the Price Schedule submitted by the Bidder;
    c. the Schedule of Requirements;
    d. the Technical Specifications;
    e. the Special Conditions of Contract;
    f. the General Conditions of the Contract;
    g. the Procuring Agency's Letter of Acceptance (Notification of Award); and
    h. the Supplier's Letter of Acceptance
    i. Integrity Pact
    j. Performance Security (Guarantee) Form
    k. Certificates to Contract
    l. Addendum/Corrigendum, if any
    m. Instruction to Bidders and Bidding Data Sheet

3. In consideration of the payments to be made by the Procuring Agency to the Supplier as hereinafter mentioned, the Supplier hereby covenants with the Procuring Agency to provide the goods and 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 Supplier in consideration of the provision of the goods and related services 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 Supplier: ……

Appendix 2 – Integrity Pact

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

Contract Number: _____

Contract Value: _____

Contract Title _____

Date: _____

[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 State Bank of Pakistan (SBP-BSC) or any administrative subdivision or agency thereof or any other entity owned or controlled by it (SBP-BSC) 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 SBP-BSC, 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 SBP-BSC 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 SBP-BSC under any law, contract or other instrument, be voidable at the option of SBP-BSC.

Notwithstanding any rights and remedies exercised by SBP-BSC in this regard, [Name of Supplier] agrees to indemnify SBP-BSC for any loss or damage incurred by it on account of its corrupt business practices and further pay compensation to SBP-BSC 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 SBP-BSC.

_____ _____

[Buyer] [Seller/Supplier]

Appendix 3 – Performance Security (or guarantee) Form

To: SBP Banking Service Corporation

WHEREAS *[name of Supplier]* (hereinafter called "the Supplier") has undertaken, in pursuance of Contract No. *[reference number of the contract]* dated *[insert date]* to delivery *[description of goods and services] (*hereinafter called "the Contract").

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

AND WHEREAS we have agreed to give the Supplier a guarantee:

THEREFORE, WE hereby affirm that we are Guarantors and responsible to you, on behalf of the Supplier, 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 Supplier 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]

BIDDING DOCUMENTS

For

ALLIED ELECTRICAL WORKS FOR SUPPLY, INSTALLATION, TESTING & COMMISSIONING OF 350 TR WATER COOLED CENTRIFUGAL CHILLER WORKS AT MAIN AC PLANT, SBP KARACHI

Financial Proposal

Volume-II

Mar-25

STATE BANK OF PAKISTAN
CIVIL
MAINTENANCE
DIVISION

FINANCIAL PROPOSAL

Form F1 – Letter of Bid (Financial Proposal)

Date of this Bid submission: ----------
IFB No.: ED/PROC-HOK/223440/2025/248
Name of Project: Allied Electrical Works for Supply, Installation, Testing & Commissioning of 350 TR Water Cooled Centrifugal Chiller Works at Main AC Plant, SBP Karachi

To: [*SBP Banking Services Corporation*]
We, the undersigned Bidder, hereby submit the second part of our Bid, the Financial Proposal
In submitting our Financial Proposal, we make the following additional declarations:

(a) **Bid Validity Period**: Our Bid shall be valid for the period specified in BDS 17.1 (as amended, if applicable) from the date fixed for the bid submission deadline specified in BDS 23.1 (as amended, if applicable), and it shall remain binding upon us and may be accepted at any time before the expiration of that period;

(b) **Total Price:** The total price of our Bid, excluding any discounts offered in item below is:
In case of only one lot, the total price of the Bid is [*insert the total price of the bid* _____];
In case of multiple lots, the total price of each lot is [*insert the total price of each lot* _____];
In case of multiple lots, total price of all lots (sum of all lots) [*insert the total price of all lots* _____];

(c) **Discounts:** The discounts offered and the methodology for their application are: **NOT APPLICABLE**

(i) The discounts offered are: [*Specify in detail each discount offered*]

(ii) The exact method of calculations to determine the net price after application of discounts is shown below: [_____];

(d) **Commissions, gratuities and fees:** We have paid, or will pay the following commissions, gratuities, or fees with respect to the bidding process or execution of the Contract: [*insert complete name of each Recipient, its full address, the reason for which each commission or gratuity was paid and the amount and currency of each such commission or gratuity*].

Name of Recipient	Address	Reason	Amount

(If none has been paid or is to be paid, indicate "none.")

(e) **Binding Contract:** We understand that this Bid, together with your written acceptance thereof included in your Letter of Acceptance, shall constitute a binding contract between us, until a formal contract is prepared and executed.

Preamble

1. The Bill of Quantities shall be read in conjunction with the Conditions of Contract, Specifications and Drawings.

2. The quantities given in the Bill of Quantities are estimated and provisional, and are given to provide a common basis for bidding. The basis of payment will be the actual quantities of work executed and measured by the Contractor and verified by the Engineer and valued at the rates and prices entered in the priced Bill of Quantities, where applicable, and otherwise at such rates and prices as the Engineer may fix as per the Contract.

3. The rates and prices entered in the priced Bill of Quantities shall, except insofar as it is otherwise provided under the Contract include all costs of Contractor's labour, supervision, materials, execution, insurance, profit, taxes and duties, together with all general risks, liabilities and obligations set out or implied in the Contract. Furthermore, all duties, taxes and other levies payable by the Contractor under the Contract, or for any other cause, as on the date 28 days prior to deadline for submission of Bids, shall be included in the rates and prices and the total Bid Price submitted by the Bidder.

4. A rate or price shall be entered against each item in the priced Bill of Quantities, whether quantities are stated or not. The cost of items against which the Contractor will have failed to enter a rate or price shall be deemed to be covered by other rates and prices entered in the Bill of Quantities.

5. The whole cost of complying with the provisions of the Contract shall be included in the items provided in the priced Bill of Quantities, and where no items are provided, the cost shall be deemed to be distributed among the rates and prices entered for the related items of the Works.

6. General directions and description of work and materials are not necessarily repeated nor summarized in the Bill of Quantities. References to the relevant sections of the Bidding Documents shall be made before entering prices against each item in the priced Bill of Quantities.

7. Where there is a discrepancy between the unit rate and the line item total resulting from multiplying the unit rate by the quantity, the unit rate as quoted will govern, and the line total will be corrected accordingly.

8. Each cutting should be signed by the authorized person.

9. The brand names have been provided in order to establish a standard of performance and reliability. However, it does not indicate a preference for a particular brand. The bidder may propose other brands which can be accepted subject to necessary tests to establish equivalency.

10. Where packaging size of a sachet/packet/can/pack etc. is included in the description of item of BOQ, this packaging size is only for reference and does not indicate preference for any specific brand. The bidder may offer another packaging size with a margin or tolerance of no more than 15% of the specified size. However, the total quantity to be supplied must be equal to the cumulative quantity required in the BOQ item.

Bill of Quantities (BOQ)

SCHEDULE OF PRICES/BILL OF QUANTITIES (BOQ)

Sr No	Description	Qty	UOM	Unit Rate (Rs.) Incl. of taxes	Total Amount (Rs.)
1	**Section A - Medium Voltage (MV) Works**				
a	Supply and installation of Indoor termination kit for existing 3-C 95 sq.mm Al/XLPE /SWA/PVC 11kV existing MV cable at Transformer end. The termination kit should comprise all the installation accessories and complete in all respects as directed by Engineer In-charge	3	Nos.		
b	Complete servicing of MV breaker (Make: PEL, Trolley Type) & Programming/testing of existing protection relay (Make: Schneider P115) installed at the MV side. The work should include, replacement of CT's (Proposed CT ratio: 200/5A), control cables, indication lights, emergency push buttons, door locks, paint, complete in all respects as directed by Engineer In-charge.	1	Nos		
	Sub-Total of Section A carried forward to Summary				
2	**Section B - Transformer Works**				
a	Disconnection, dismantling of existing 1000kVA Oil Type Transformer, LV Panels, Fuel tanks and Power Cables. The work should include safe removal of transformer, LV panels, fuel; tanks and cables and its placement at Engineering Store or nearby location, complete in all respects as directed by Engineer In-charge	1	Job		
b	Supply of Oil Immersed, Transformer Rating 1500kVA, 11000/415V, 3Phase, Vector group Dyn11, Delta/star, 3xHV/4xLV Terminals, Ambient Temperature 50 Degree Celsius , ONAN, with breather, conservator, bucholz relay ,tap changer, bushing and bushing terminal boots, arching horns, temperature gauge, manufactured on IEC Standard and K-Electric approved specifications, including all mounting accessories etc. complete in all respect alongwith Factory Acceptance Test (FAT) in the presence of the Engineer In-charge	1	Nos		
c	Installing, Testing & Commissioning of 1500KVA Transformer mentioned in detail at Serial # 2(b). Cost should include safe mounting of transformer on pad/location, termination of MV & LV cables as per standard practices, complete earthing (body & circuit) protection works, cable tray/ladder fabrication, complete testing (on load & off load) and complete in all respects as per directions of Engineer In-charge	1	Job		
d	Supply, laying, testing and commissioning of wiring for bucholz relay, alarm control etc. for above mentioned (at Serial # 2(b) Transformer from transformer to MV Panel with 3x1C, 2.5 Sq.mm Cu/PVC cables in 25mm dia G.I conduit with all accessories, as per drawing and specification, complete in all respects	10	Mtr		
	Sub-Total of Section B carried forward to Summary				
3	**Section C - Bus Way**				

Sr No	Description	Qty	UOM	Unit Rate (Rs.) Incl. of taxes	Total Amount (Rs.)
a	Supply, of insulated, water proof (IP-54) Busway/Busbar Riser of 2500A TP+N+E, Aluminum [From Transformer to LT Panel] including flexible connection, bends, joints, bi-metallic flanges, hangers, clamps, Elbows and all mounting and fixing & termination accessories, designation labels at both ends etc. as per specifications and complying with standards, complete in all respect as directed by Engineer In-charge	8	Mtr		
b	Installation, Fabrication, Testing & Commissioning of Busway/Busbar Riser mentioned at Serial # 3(a). Cost should include complete installation and end to end termination as per standard practice and complete in all respects as per direction of Engineer In-charge	1	Nos		
	Sub-Total of Section C carried forward to Summary				
4	**Section D - Low Voltage (LV) Panels**				
a	Supply, Installation, Testing and Commissioning of Electric Distribution Panel **(Name: MDB - Bus-4)** , floor standing with RCC foundation pad 1ft high from FFL, finished 14/16 SWG MS sheet, front and back doors, drawing pocket, transparent sheet, powder coated paint of RAL 7032 approved color, moveable & lockable handles of suitable brand, flush type hinged door with Earthling braid consisting of danger plate with handle, complete internal power and control wiring, Breakers Safety Plates as per DB Gauge, fixing material nut bolts, Lugs, glands, suitable height, width & depth as per standards and with following components:-	1	Job		
	Incoming Side				
	• 1 Nos. 2500 Amp (Adjustable & Motorized) ACB Icu=66kA Ics=100% of Icu Three Pole (Provided by the Bank; Make ABB SACE Emax 2 ACB), The circuit breakers coordination settings is under the scope of the contractor)				
	• 1 No. Voltmeter + 1 No. Ammeter with required CT's and VT's for Voltage & Current Measurement				
	• 3 Nos. Indication Lights				
	• 3 Nos. 2 Amp SP MCB				
	Outgoing Side				
	• 01 Nos. 1250A ACB 66kA				
	• 01 Nos. 800A ACB 66kA				
	• 02 Nos. 630A ACB 50kA				
	• 02 Nos. 400A MCCB 50kA				
	• 01 Nos. 250A MCCB 50kA				
	• 03 Nos. 100A MCCB 50kA				
	All cable links/bus bar links must be as per outgoing load. All Circuit Breakers must be compact size, as per specifications and complying with standards, complete in all respect as directed by Engineer In-charge				
b	Supply, Installation, Testing and Commissioning of Electric Distribution Panel **(Name: SMDB - Centrifugal Chiller - 2)** , floor standing with RCC foundation pad 1ft high from FFL, with finished with 16/14SWG MS sheet, front and back doors, drawing pocket, transparent sheet, powder coated paint of RAL 7032 approved color, moveable & lockable handles of suitable brand, flush type hinged door with Earthling braid consisting of danger plate with handle, complete internal power and control wiring, MCCB Safety Plates as per DB Gauge, fixing	1	Job		

Sr No	Description	Qty	UOM	Unit Rate (Rs.) Incl. of taxes	Total Amount (Rs.)
	material nut bolts, Lugs, glands and with following components:-				
	Incoming Side				
	• 2 Nos. 800 Amp (Adjustable & Motorized) Four Pole MCCB Icu=50kA Ics=100% of Icu				
	• Space for 1x800A FP Circuit Breaker				
	• 6 Nos. Indication Lights				
	• 6 Nos. 2 Amp SP MCB				
	• Mechanical Interlocking between incoming breakers				
	Outgoing Side				
	•Busbar links for connecting of cables				
	•1 No. Voltmeter + 1 No. Ammeter with required CT's and VT's for Voltage & Current Measurement				
	All cable links/bus bar links must be as per outgoing load. All Circuit Breakers must be compact size, as per specifications and complying with standards, complete in all respect as directed by Engineer In-charge				
c	Supply, Installation, Testing and Commissioning of Electric Distribution Panel **(Name: MDB - G2 - 500kVA)** , floor standing floor standing with RCC foundation pad 1ft high from FFL, with finished with 16/14SWG MS sheet, front and back doors, drawing pocket, transparent sheet, powder coated paint of RAL 7032 approved color, moveable & lockable handles of suitable brand, flush type hinged door with Earthling braid consisting of danger plate with handle, complete internal power and control wiring, MCCB Safety Plates as per DB Gauge, fixing material nut bolts, Lugs, glands and with following components:-	1	Job		
	Incoming Side				
	• 01 Nos. 1250 Amp (Adjustable & Motorized) ACB Icu=66kA Ics=100% of Icu Three Pole				
	• 3 Nos. Indication Lights				
	• 3 Nos. 2 Amp SP MCB				
	•1 No. Voltmeter + 1 No. Ammeter with required CT's and VT's for Voltage & Current Measurement				
	Outgoing Side				
	• 02 Nos. 800A ACB 66kA				
	• 01 Nos. 400A MCCB 50kA				
	All cable links/bus bar links must be as per outgoing load. All Circuit Breakers must be compact size, as per specifications and complying with standards, complete in all respect as directed by Engineer In-charge				
d	Installation, Testing and Commissioning of **800A Three Pole ACB** (Provided by the Bank) in existing panels at AC Plant room (MDB-G1-625kVA) along with Copper Busbar links for connecting existing cables, The cost includes the safe de-termination of existing cables, Dismantling of old circuit breakers and installation of new circuit breakers with termination including lugs, Busbar links, glands, as per specifications and complying with standards, complete in all respect as directed by Engineer In-charge	1	Nos.		

Sr No	Description	Qty	UOM	Unit Rate (Rs.) Incl. of taxes	Total Amount (Rs.)
e	Installation, Testing & Commissioning of **1250A ACB** (Provided by the Bank, Make ABB SACE Emax 2 ACB) in existing panels in Substation and AC plant room along with Copper Busbar links for connecting existing cables, The cost includes the safe de-termination of existing cables, Dismantling of old circuit breakers and installation of new circuit breakers with termination including lugs, Busbar links, glands, as per specifications and complying with standards, complete in all respect as directed by Engineer In-charge	2	Nos		
f	Supply, installation, testing and commissioning of **400kVAR Power Factor Panel,** 400/415V including breakers with all the segmented capacitor banks, cable interconnections, indication lights, push buttons, power factor controller, display module, earthing braids, door locks, gaskets, as per specifications and complying with standards, complete in all respect as directed by Engineer In-charge	1	Nos.		
	Sub-Total of Section D carried forward to Summary				
5	**Section E - Low Voltage (LV) Cable Works**				
a	Installation, insulation testing and commissioning of 4 x 1-Core 240 sq.mm / 300 sq.mm Cu/PVC/PVC cables (provided by the Bank) using new and existing cable trays and trenches in appropriate size of PVC conduits as per the site condition. The job includes cost of all accessories including cost of PVC pipes, lugs (metallic, bi metallic, copper etc.), glands, lugs punching, re-installation and re-testing and commissioning with proper dressing with cable ties, nut bolts, taping etc. complete in all respects as directed by Engineer in charge	100	R.Mtr		
b	Supply, Installation, testing and commissioning of 8 x 1-C 300 sq.mm Al/XLPE/PVC Cables using new and existing cable trays and trenches in appropriate size of PVC conduits as per the site condition. The job includes cost of all accessories including cost of lugs (metallic, bi metallic, copper etc.), glands, lugs punching, re-installation and re-testing and commissioning with proper dressing with cable ties, nut bolts, taping etc. complete in all respects as directed by Engineer in charge	280	R.Mtr		
c	Supply, Installation, testing and commissioning of 1-C 70 sq.mm Al/XLPE/PVC Cables as ECC using new and existing cable trays and trenches in appropriate size of PVC conduits as per the site condition. The job includes cost of all accessories including cost of lugs (metallic, bi metallic, copper etc.), glands, lugs punching, re-installation and re-testing and commissioning with proper dressing with cable ties, nut bolts, taping etc. complete in all respects as directed by Engineer in charge	350	Mtr		
d	Supply, fabricating, erecting, fixing and installing of size 2ft x 1ft of base perforated Cable Tray with cover, fabricated with 14 SWG MS Sheet steel Hot dip Galvanized and 16 SWG MS Sheet steel Hot dip Galvanized cover, including all installation accessories (Hot Dip Galvanized) such as appropriate sizes and lengths of imported treaded MS rod, C-channel with complete accessories, angle iron supports and anchor Bolts including cutting, welding, jointing and necessary required hardware etc. for installation at ceiling and wall mounted both. Complete in all respect as shown in drawings and specification or as directed by the Engineer.	130	Mtr		

Sr No	Description	Qty	UOM	Unit Rate (Rs.) Incl. of taxes	Total Amount (Rs.)
e	Supply and laying of 300mm dia PVC Class-C pipe for LV Cables and Road crossing, buried in ground including excavation of trenches in hard / soft soil for laying of pipe, removal and reinstallation of pavers, cost including providing fresh sand (12" under and 12" above pipe), laying bricks on sand, warning tape and backfilling, compaction, concrete, plugging of pipe ends etc., as shown on drawing, complete in all respect and the entire satisfaction of the engineer and employer.	150	Mtr		
f	Supply and Construction of Manhole Size 3'-0" x 3'-0" x 3'-0" deep, 6"thick, concrete 1:2:4 ratio with 2' round heavy duty cast iron cover, 100% water proof, as per specification, complete in all respect.	5	Nos.		
	Sub-Total of Section E carried forward to Summary				
6	**Section F - Generator & Fuel Tank Works**				
a	Dismantling and shifting 500kVA generator from SBP BSC Faisalabad as specified by the Engineer and reinstallation in Karachi proposed place mentioned in the drawings. The job included all sort of dismantling of existing cables, pipes, etc. and re-installation, energization and re-commissioning the same at proposed location etc. The job also includes cost of transportation, insurance, Complete in all respect and as directed by the Engineer.	1	Job		
b	Construction of RCC foundation for 500KVA generator of size 14ft x 6ft from existing FFL over 24" high concrete pad (1:2:4) and stone soling 6'' thick including the cost of all materials, manpower, machinery tool and cost of Neoprene Sheet as anti-Vibration isolator etc. as per site conditions, Specifications & Drawings. Complete in all respects and as directed by Engineer In-charge.	1	Job		
c	Construction of RCC foundation for 3000 liters Fuel tank, 18" from existing FFL high concrete pad (1:2:4) and stone soling 6'' thick including the cost of all materials, MS supports for fuel tanks painted with red oxide paint and 2 coats of oil paint of approved color, as per site conditions, Specifications & Drawings. Complete in all respects and as directed by Engineer In-charge.	1	Job		
d	Relocation and installation of Existing Diesel Fuel tank (capacity: 3000 Liters) from Bolton market building to Main bank building complex and installation at designated pad/location. Cost should include arrangement of temporary tank for storage of existing fuel, safe dismantling of the tank, transportation charges between mentioned buildings, valves, all necessary fitting & fixing material used during re-installation and complete in all respects as per direction of Engineer In-Charge.	1	Job		
e	Relocation and installation of Existing Diesel Fuel tank (capacity: 2000 Liters) from Main bank building complex to Bolton Market Building and installation at designated pad/location. Cost should include arrangement of temporary tank for storage of existing fuel, safe dismantling of the tank, transportation charges between mentioned buildings, valves, all necessary fitting & fixing material used during re-installation and complete in all respects as per direction of Engineer In-Charge.	1	Job		

Sr No	Description	Qty	UOM	Unit Rate (Rs.) Incl. of taxes	Total Amount (Rs.)
f	Supply, installation, connections of black steel pipe / fitting of schedule 40 of appropriate size (1“) from storage tank adjacent to generator daily fuel tank both supply and return lines including cost of preparation of shop drawing, pumps, valves, sockets, elbow, filters and all necessary materials , compete in all respects.	60	Mtr		
g	Supply, installation & testing of earthing set comprising of Bore earthing up to water level (minimum 50ft), lime, salt & charcoal mixture, packed hard including excavation & perfect back filling. 50 mm dia uPVC pipe and copper wires up to test terminal and also providing, fixing & connection of 300mm x 50mm x 5mm Earth test terminal with brass nuts bolts & washer along with construction of RCC inspection chamber with heavy duty CI cover Lid and lock protection, The Contractor shall perform the earth resistance test as per relevant IEEE/IEC standards, the earthing resistance should be less than 4 ohms. complete in all respect as directed by engineer in-charge.	2	Jobs		
h	Raising of the floor level of transformer room of size 12 x 12 feet to the height of 36" from FFL including construction of steps and all associated civil works, complete in all respect as directed by Engineer In-charge	1	Job		
	Sub-Total of Section F carried forward to Summary				

	SUMMARY		
1	Section-A	Medium Voltage (MV) Works	
2	Section-B	Transformer Works	
3	Section-C	Bus Way	
4	Section-D	Low Voltage (LV) Panels	
5	Section-E	Low Voltage (LV) Cable Works	
6	Section-F	Generator & Fuel Tank Works	
GRAND TOTAL (Rs.)			

In words (Rs.): _____

_____Only