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**INVITATION
FOR
BIDS**

INVITATION FOR BIDS

Date: 14th June 2024.

Bid Reference No.: W&P/TC/AP/2023-24/-

1. The Water & Power Department, Gilgit-Baltistan (the “Purchaser”) has applied for a credit from the GoGB towards the cost of **Purchase of Annual Maintenance Items/Material for the Financial Year 2024-25** and it is intended that part of the proceeds of the credit will be applied to eligible payments under the Contract for the said assignment. Bidding is open to all eligible Bidders.
2. The Purchaser invites sealed bids, under Single Stage-One Envelope bidding procedure, from eligible firms or persons as defined under clause IB-3 of Instructions to Bidders. The bidding is open to National Competition as per policy of the government.
3. Eligible Bidders may obtain further information, inspect and acquire the Bidding Documents from the Office of the Purchaser, at:

**Executive Engineer (GBHEW) Division,
Water & Power Department Complex,
Near KIU, Gilgit.**

4. A complete set of Bidding Documents may be purchased by an interested bidder on submission of a written application to the above office and upon payment of a non-refundable fee of Rs. **12000/-**
5. All bids must be accompanied by a Bid Security in the amount of **Rs. 1000000/- Rupees Ten Hundred Thousand** or an equivalent amount in a freely convertible currency in the format of bank guarantee on bid security form provided or in the form of deposit at call in favour of Purchaser and must be delivered to the above address at or before 1100 hours, on 11th July 2024. Bids will be opened at 12:00 hours on the same day, in the presence of Bidder’s representatives who choose to attend at the same address.

INSTRUCTIONS TO BIDDERS

INSTRUCTIONS TO BIDDERS

(Note: These Instructions to Bidders along with Bidding Data will not be part of the Contract and will cease to have effect once the Contract is signed.)

A. GENERAL

IB.1 Scope of Bid

- 1.1 The Purchaser as defined in the Bidding Data hereinafter called “the Purchaser” wishes to receive bids for the supply of Engineering Goods as described in these Bidding Documents, and summarised in the Bidding Data hereinafter referred to as the “Goods”.
- 1.2 The successful Bidder will be expected to supply the Goods within the time specified in the Bidding Documents.
- 1.3 All Goods to be supplied under the Contract shall have as their country of origin an eligible country as per Appendix-A to Bid.
- 1.4 For purposes of this Clause, the term “Goods” includes commodities, raw material, machinery, equipment, and industrial plants.
- 1.5 The term “country of origin” means the country where the goods have been mined, grown, cultivated, produced, manufactured, or processed; or through manufacture, processing, or assembly, another commercially recognized article results that differs substantially in its basic characteristics from its imported components.
- 1.6 The nationality of the firm that produces, assembles, distributes, or sells the goods shall not determine their origin.
- 1.7 The bidding is open to National/International Competitive Bidding as indicated in the Bidding Data.

IB.2 Source of Funds

- 2.1 The Purchaser has applied for/received a loan/credit from the source (s) indicated in the Bidding Data in various currencies towards the cost of the project specified in the Bidding Data and it is intended that part of the proceeds of this loan/credit will be applied to eligible payments under the Contract for which these Bidding Documents are issued.

IB.3 Eligible Bidders

- 3.1 This Invitation for Bids is open to all Bidders meeting the following requirements:

- a. A Bidder having the nationality of an eligible country in accordance with Appendix A to Bid.
- b. Duly prequalified / enlisted with the Purchaser.

IB.4 One Bid per Bidder

- 4.1 Each Bidder shall submit only one bid either by himself, or as a partner in a joint venture. A Bidder who submits or participates in more than one bid (other than alternatives pursuant to Clause IB.20) will be disqualified.

IB.5 Cost of Bidding

- 5.1 The Bidders shall bear all costs associated with the preparation and submission of their respective bids and the Purchaser will in no case be responsible or liable for those costs, regardless of the conduct or outcome of the bidding process.

IB.6 Site Visit

- 6.1 The Bidders are advised to visit and inspect the Location of Delivery and its surroundings and obtain for themselves on their own responsibility all information that may be necessary for preparing the bid and entering into a Contract for Supply of Goods. All cost in this respect shall be at the bidder's own expense.
- 6.2 The Bidders and any of their personnel or agents will be granted permission by the Purchaser to enter upon his premises and lands for the purpose of such inspection, but only upon the express condition that the Bidders, their personnel and agents, will release and indemnify the Purchaser, his personnel and agents from and against all liability in respect thereof and will be responsible for death or personal injury, loss of or damage to property and any other loss, damage, costs and expenses incurred as a result of such inspection.

B. BIDDING DOCUMENTS

IB.7 Contents of Bidding Documents

- 7.1 The Bidding Documents, in addition to Invitation for Bids, are those stated below and should be read in conjunction with any Addenda issued in accordance with Clause IB.9.
 - 1. Instructions to Bidders
 - 2. Bidding Data
 - 3. Form of Bid and Appendices to Bid
 - 4. Schedules to Bid
 - (i) Schedule A: Price Schedule for Goods to be offered from within the Purchaser's country

- (ii) Schedule B: Price Schedule for Goods to be offered from outside the Purchaser's country
 - (iii) Schedule C: Manufacturer's Authorization
 - (iv) Schedule D: List of Goods
 - (v) Schedule E: Delivery and Completion Schedule
 - (vi) Schedule F: Inspection and Tests to be carried out
 - 5. General Conditions of Contract (GCC), Part-I
 - 6. Particular Conditions of Contract (PCC), Part-II
 - 7. Standard Forms
 - (i) Form of Bid Security
 - (ii) Form of Performance Security
 - (iii) Form of Contract Agreement
 - (iv) Form of Advance Payment Security
 - 8. Specifications.....Special & Technical Provisions
 - 9. Drawings
- 7.2 The bidders are expected to examine carefully the contents of all the above documents. Failure to comply with the requirements of bid submission will be at the Bidder's own risk. Pursuant to Clause IB.30, bids which are not substantially responsive to the requirements of the Bidding Documents will be rejected.

IB.8 Clarification of Bidding Documents

- 8.1 Any prospective Bidder requiring any clarification (s) in respect of the Bidding Documents may notify the Purchaser in writing at the Purchaser's address indicated in the Invitation for Bids. The Purchaser will respond to any request for clarification which he receives earlier than the time, stated in the Bidding Data, prior to the deadline for submission of bids. Copies of the Purchaser's response will be forwarded to all purchasers of the Bidding Documents, including a description of the enquiry but without identifying its source.

IB.9 Amendment of Bidding Documents

- 9.1 At any time prior to the deadline for submission of bids, the Purchaser may, for any reason, whether at his own initiative or in response to a clarification requested by a prospective Bidder, modify the Bidding Documents by issuing addendum.
- 9.2 Any addendum thus issued shall be part of the Bidding Documents pursuant to Sub-Clause 7.1 hereof and shall be communicated in writing to all purchasers of the Bidding Documents. Prospective Bidders shall acknowledge receipt of each addendum in writing to the Purchaser.
- 9.3 To afford prospective Bidders reasonable time in which to take an addendum into account in preparing their bids, the Purchaser may extend the deadline for submission of bids in accordance with Clause IB.24

C. PREPARATION OF BIDS

IB.10 Language of Bid

- 10.1 The bid as well as all correspondence and documents related to the bid exchanged by a bidder and the Purchaser shall be in the bid language stipulated in the Bidding Data and Particular Conditions of Contract. Supporting documents and printed literature furnished by the Bidders may be in any other language provided the same are accompanied by an accurate translation of the relevant parts in the bid language, in which case, for purposes of evaluation of the bid, the translation in bid language shall prevail.

IB.11 Documents Comprising the Bid

- 11.1 Each Bidder shall:

- (a) submit a written power of attorney authorizing the signatory of the bid to act for and on behalf of the Bidder;
- (b) update the information indicated and listed in the Bidding Data and previously submitted with the prequalification documents which as a minimum, would include the following application for prequalification, and continue to meet the minimum criteria set out in the:
 - (i) Evidence of access to financial resources alongwith average annual turnover;
 - (ii) Financial predictions for the current year and the two following years including the effect of known commitments;
 - (iii) Supply commitments since prequalification;
 - (iv) Current litigation information; and
 - (v) Availability of critical equipment.
and
- (c) furnish a technical proposal taking into account the various Appendices to Bid specially the following:

Appendix-C to Bid	Method of Assuring Quality of Goods
Appendix-D to Bid	List of Quality Control/Laboratory Equipment
Appendix-E to Bid	List of Manufacturers / Subcontractors

and other pertinent information such as mobilization programme (under Appendix C to Bid) etc;

11.2 Bids submitted by a joint venture of two (2) or more firms shall comply with the following requirements:

- (a) the bid and in case of a successful bid, the Form of Contract Agreement shall be signed so as to be legally binding on all partners;
- (b) one of the joint venture partners shall be nominated as being in charge; and this authorization shall be evidenced by submitting a power of attorney signed by legally authorized signatories of all the joint venture partners;
- (c) the partner-in-charge shall always be duly authorized to deal with the Purchaser regarding all matters related with and/or incidental to the supply of Goods as per the terms and Conditions of Contract and in this regard to incur any and all liabilities, receive instructions, give binding undertakings and receive payments on behalf of the joint venture;
- (d) all partners of the joint venture shall at all times and under all circumstances be liable jointly and severally for the execution of the Contract in accordance with the Contract terms and a statement to this effect shall be included in the authorization mentioned under Sub-Para (b) above as well as in the Form of Bid and in the Form of Contract Agreement (in case of a successful bid); and
- (e) a copy of the agreement entered into by the joint venture partners shall be submitted with the bid stating the conditions under which it will function, its period of duration, the persons authorized to represent and obligate it and which persons will be directly responsible for due performance of the Contract and can give valid receipts on behalf of the joint venture, the proportionate participation of the several firms forming the joint venture, and any other information necessary to permit a full appraisal of its functioning. No amendments / modifications whatsoever in the joint venture agreement shall be agreed to between the joint venture partner without prior written consent of the Purchaser.

11.3 Bidders shall also submit proposals of supply and transportation methods and schedule, in sufficient detail to demonstrate the adequacy of the Bidders' proposals to meet the technical specifications and the completion time referred to in Sub-Clause 1.2 hereof.

IB.12 Bid Prices

- 12.1 The Bidder shall submit the Form of Bid using the form attached herewith. This form must be completed without any alterations to its format, and no substitutes shall be accepted. All blank spaces shall be filled in with the information requested.
- 12.2 The Bidder shall submit the Price Schedules for Goods, according to their origin as appropriate, using the forms furnished in Appendices to Bid along with Manufacturer,s Authorization (on the format provided) in case the Bidder is not himself the manufacturer
- 12.3 Unless stated otherwise in the Bidding Documents (in Lots under Schedule D to Bid), the Contract shall be for the whole of the Goods as described in Sub-Clause

1.1 hereof, based on the unit rates submitted by the bidder.

- 12.4 The Bidders shall fill in rates and prices for all items of the Goods described in the Price Schedules. Items against which no rate or price is entered by a bidder will not be paid for by the Purchaser when delivered and shall be deemed covered by rates and prices for other items in the Price Schedules.
- 12.5 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 the deadline for submission of bids shall be included in the rates and prices and the total Bid Price submitted by a Bidder.
Additional/reduced duties, taxes and levies due to subsequent additions or changes in legislation shall be dealt as per Clause 17 of the General Conditions of Contract.
- 12.6 The rates and prices quoted by the Bidders are subject to adjustment during the performance of the Contract in accordance with the provisions of Clause 15 of the General Conditions of Contract. The Bidders shall furnish the prescribed information for the price adjustment formulae if required under Sub-Clause 15.2 of General Conditions of Contract, and shall submit with their bids such other supporting information as required under the said Clause.

IB.13 Currencies of Bid and Payment

- 13.1 The unit rates and the prices shall be quoted by the Bidder entirely in Pak rupees. A Bidder expecting to incur expenditures in other currencies for Goods supplied from outside the Purchaser's country (referred to as the "Foreign Currency Requirements") shall indicate the same in Appendix-B to Bid. The proportion of the Bid Price (excluding Provisional Sums) needed by him for the payment of such Foreign Currency Requirements either (i) entirely in the currency of the Bidder's home country or, (ii) at the Bidder's option, entirely in Pak rupees provided always that a Bidder expecting to incur expenditures in a currency or currencies other than those stated in (i) and (ii) above for a portion of the foreign currency requirements, and wishing to be paid accordingly, shall indicate the respective portions in his bid.
- 13.2 The rates of exchange to be used by the Bidder for currency conversion shall be the TT&OD Selling Rates published or authorized by the State Bank of Pakistan prevailing on the date 28 days prior to the deadline for submission of bids. For the purpose of payments, the exchange rates used in bid preparation shall apply for the duration of the Contract.

IB.14 Documents Establishing the Eligibility of the Bidder

To establish their eligibility in accordance with ITB 4, Bidders shall:

- (a) Provide the eligibility documents as per ITB Clause 3; and

- (b) If the Bidder is an existing or intended JV in accordance with ITB 4.1 and 11.2, submit a copy of the JV Agreement, or a letter of intent to enter into such an Agreement. The respective document shall be signed by all legally authorized signatories of all the parties to the existing or intended JV, as appropriate.

IB.15 Documents Establishing the Eligibility of the Goods

- 15.1 To establish the eligibility of the Goods in accordance with ITB Clause 1-3, Bidders shall complete the country of origin declarations in the Price Schedule Forms, & Appendices to Bid.

IB.16 Documents Establishing the Conformity of the Goods to the Bidding Document

- 16.1 To establish the conformity of the Goods to the Bidding Document, the Bidder shall furnish as part of its Bid the documentary evidence that the Goods and be supplied conform to the specified requirements.
- 16.1 The documentary evidence may be in the form of literature, drawings or data, and shall consist of a detailed item-by-item description of the essential technical and performance characteristics of the Goods.
- 16.2 Standards for workmanship, process, material, and equipment, as well as references to brand names or catalogue numbers specified by the Purchaser in the Delivery and Completion Schedule , are intended to be descriptive only and not restrictive. The Bidder may offer other standards of quality, brand names, and/or catalogue numbers, provided that it demonstrates, to the Purchaser's satisfaction, that the substitutions ensure substantial equivalence or are superior to those specified in Delivery and Completion Schedule of Supply.

IB.17 Documents Establishing the Qualification of the Bidder

- 17.1 The documentary evidence of the Bidder's qualifications to perform the contract, if its bid is accepted, shall establish to the Purchaser's satisfaction that the Bidder meets each of the qualification criterion specified in Bidding Documents.
- 17.2 If so required in the Bidding Data, a Bidder that does not manufacture or produce the Goods it offers to supply shall submit the Manufacturer's Authorization using the appended form to demonstrate that it has been duly authorized by the manufacturer or producer of the Goods to supply these Goods in the Purchaser's country.
- 17.3 If so required in the Bidding Data, a Bidder that does not conduct business within the Purchaser's Country shall submit evidence that it will be represented by an Agent in the country 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.

IB.18 Bid Validity

- 18.1 Bids shall remain valid for the period stipulated in the Bidding Data after the Date of Bid Opening specified in Clause IB.27.
- 18.2 In exceptional circumstances, prior to expiry of the original bid validity period, the Purchaser may request that the Bidders extend the period of validity for a specified additional period which shall in no case be more than the original bid validity period. The request and the responses thereto shall be made in writing. A Bidder may refuse the request without forfeiting his Bid Security. A Bidder agreeing to the request will not be required or permitted to modify his bid, but will be required to extend the validity of his Bid Security for the period of the extension, and in compliance with Clause IB.19 in all respects.

IB.19 Bid Security

- 19.1 Each Bidder shall furnish, as part of his bid, a Bid Security in the amount stipulated in the Bidding Data in Pak Rupees or an equivalent amount in a freely convertible currency.
- 19.2 The Bid Security shall be, at the option of the Bidder, in the form of Deposit at Call or a Bank Guarantee issued by a Scheduled Bank in Pakistan or from a foreign bank duly counter guaranteed by a Scheduled Bank in Pakistan or an insurance company having atleast AA rating from PACRA/JCR in favour of the Purchaser valid for a period 28 days beyond the Bid Validity date.
- 19.3 Any bid not accompanied by an acceptable Bid Security shall be rejected by the Purchaser as non-responsive.
- 19.4 The bid securities of unsuccessful Bidders will be returned as promptly as possible, but not later than 28 days after the expiration of the period of Bid Validity.
- 19.5 The Bid Security of the successful Bidder will be returned when the Bidder has furnished the required Performance Security and signed the Contract Agreement.
- 19.6 The Bid Security may be forfeited:
 - (a) if the Bidder withdraws his bid except as provided in Sub-Clause 26.1;
 - (b) if the Bidder does not accept the correction of his Bid Price pursuant to Sub-Clause 31.2 hereof; or

- (c) In the case of successful Bidder, if he fails within the specified time limit to:
 - (i) furnish the required Performance Security; or
 - (ii) sign the Contract Agreement.

IB.20 Alternate Proposals by Bidder

- 20.1 Should any Bidder consider that he can offer any advantages to the Purchaser by a modification to the designs, specifications or other conditions, he may, in addition to his bid to be submitted in strict compliance with the Bidding Documents, submit any Alternate Proposal(s) containing (a) relevant design calculations; (b) technical specifications; (c) proposed manufacturing methodology; and (d) any other relevant details / conditions, provided always that the total sum entered on the Form of Bid shall be that which represents complete compliance with the Bidding Documents.
- 20.2 Alternate Proposal(s), if any, of the lowest evaluated responsive Bidder only may be considered by the Purchaser as the basis for the award of Contract to such Bidder.

IB.21 Pre-Bid Meeting

- 21.1 The Purchaser may, on his own motion or at the request of any prospective Bidder(s), hold a pre-bid meeting to clarify issues and to answer any questions on matters related to the Bidding Documents. The date, time and venue of pre-bid meeting, if convened, is as stipulated in the Bidding Data. All prospective Bidders or their authorized representatives shall be invited to attend such a pre-bid meeting.
- 21.2 The Bidders are requested to submit questions, if any, in writing so as to reach the Purchaser not later than seven (7) days before the proposed pre-bid meeting.
- 21.3 Minutes of the pre-bid meeting, including the text of the questions raised and the replies given, will be transmitted without delay to all purchasers of the Bidding Documents. Any modification of the Bidding Documents listed in Sub-Clause 7.1 hereof which may become necessary as a result of the pre-bid meeting shall be made by the Purchaser exclusively through the issue of an Addendum pursuant to Clause IB.9 and not through the minutes of the pre-bid meeting.
- 21.4 Absence at the pre-bid meeting will not be a cause for disqualification of a Bidder.

IB.22 Format and Signing of Bid

- 22.1 Bidders are particularly directed that the amount entered on the Form of Bid shall be

for performing the Contract strictly in accordance with the Bidding Documents.

- 22.2 All Appendices and Schedules to Bid are to be properly completed and signed.
- 22.3 No alteration is to be made in the Form of Bid nor in the Appendices and Schedules thereto except in filling up the blanks as directed. If any such alterations be made or if these instructions be not fully complied with, the bid may be rejected.
- 22.4 Each Bidder shall prepare by filling out the forms completely and without alterations one (1) original and number of copies, specified in the Bidding Data, of the documents comprising the bid as described in Clause IB.7 and clearly mark them "ORIGINAL" and "COPY" as appropriate. In the event of discrepancy between them, the original shall prevail.
- 22.5 The original and all copies of the bid shall be typed or written in indelible ink (in the case of copies, Photostats are also acceptable) and shall be signed by a person or persons duly authorized to sign on behalf of the Bidder pursuant to Sub- Clauses 11.1(a) and 11.2 hereof. All pages of the bid shall be initialled and stamped by the person or persons signing the bid.
- 22.6 The bid shall contain no alterations, omissions or additions, except to comply with instructions issued by the Purchaser, or as are necessary to correct errors made by the Bidder, in which case such corrections shall be initialled by the person or persons signing the bid.
- 22.7 Bidders shall indicate in the space provided in the Form of Bid their full and proper addresses at which notices may be legally served on them and to which all correspondence in connection with their bids and the Contract is to be sent.
- 22.8 Bidders should retain a copy of the Bidding Documents as their file copy.

D. SUBMISSION OF BIDS

IB.23 Sealing and Marking of Bids

- 23.1 Each Bidder shall submit his bid as under:
 - (a) ORIGINAL and each copy of the Bid shall be separately sealed and put in separate envelopes and marked as such.
 - (b) The envelopes containing the ORIGINAL and copies will be put in one sealed envelope and addressed/identified as given in Sub- Clause 23.2 hereof.
- 23.2 The inner and outer envelopes shall:
 - (a) be addressed to the Purchaser 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
 - (c) provide a warning not to open before the time and date for bid opening, as specified in the Bidding Data.
- 23.3 In addition to the identification required in Sub- Clause 23.2 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 to Clause IB.25
- 23.4 If the outer envelope is not sealed and marked as above, the Purchaser will assume no responsibility for the misplacement or premature opening of the Bid.

IB.24 Deadline for Submission of Bids

- 24.1
 - (a) Bids must be received by the Purchaser at the address specified no later than the time and date stipulated in the Bidding Data.
 - (b) Bids with charges payable will not be accepted, nor will arrangements be undertaken to collect the bids from any delivery point other than that specified above. Bidders shall bear all expenses incurred in the preparation and delivery of bids. No claims will be entertained for refund of such expenses.
 - (c) Where delivery of a bid is by mail and the Bidder wishes to receive an acknowledgment of receipt of such bid, he shall make a request for such acknowledgment in a separate letter attached to but not included in the sealed bid package.
 - (d) Upon request, acknowledgment of receipt of bids will be provided to those making delivery in person or by messenger.
- 24.2 The Purchaser may, at his discretion, extend the deadline for submission of bids by issuing an amendment in accordance with Clause IB.9, in which case all rights and obligations of the Purchaser and the Bidders previously subject to the original deadline will thereafter be subject to the deadline as extended.

IB.25 Late Bids

- 25.1
 - (a) Any bid received by the Purchaser after the deadline for submission of bids prescribed in Clause IB.24 will be returned unopened to such bidder.
 - (b) Delays in the mail, delays of person in transit, or delivery of a bid to the wrong office shall not be accepted as an excuse for failure to deliver a bid at the proper place and time. It shall be the Bidder’s responsibility to determine the manner in which timely delivery of his bid will be accomplished either in person, by messenger or by mail.

IB.26 Modification, Substitution and Withdrawal of Bids

- 26.1 Any Bidder may modify, substitute or withdraw his bid after bid submission provided that the modification, substitution or written notice of withdrawal is received by the Purchaser prior to the deadline for submission of bids.
- 26.2 The modification, substitution, or notice for withdrawal of any bid shall be prepared, sealed, marked and delivered in accordance with the provisions of Clause IB.23 with the outer and inner envelopes additionally marked “MODIFICATION”, “SUBSTITUTION” or “WITHDRAWAL” as appropriate.
- 26.3 No bid may be modified by a Bidder after the deadline for submission of bids except in accordance with Sub-Clauses 26.1 and 31.2.
- 26.4 Withdrawal of a bid during the interval between the deadline for submission of bids and the expiration of the period of bid validity specified in the Form of Bid may result in forfeiture of the Bid Security in pursuance to Clause IB.19.

E. BID OPENING AND EVALUATION

IB.27 Bid Opening

- 27.1 The Purchaser will open the bids, including withdrawals, substitution and modifications made pursuant to Clause IB.26, in the presence of Bidders’ representatives who choose to attend, at the time, date and location stipulated in the Bidding Data. The Bidders’ representatives who are present shall sign a register evidencing their attendance.
- 27.2 Envelopes marked “MODIFICATION”, “SUBSTITUTION” or “WITHDRAWAL” shall be opened and read out first. Bids for which an acceptable notice of withdrawal has been submitted pursuant to Clause IB.26 shall not be opened.
- 27.3 The Bidder’s name, total Bid Price and price of any Alternate Proposal(s), any discounts, bid modifications, substitution and withdrawals, the presence or absence of Bid Security, and such other details as the Purchaser may consider appropriate, will be announced by the Purchaser at the opening of bids.
- 27.4 Purchaser shall prepare minutes of the bid opening, including the information disclosed to those present in accordance with the Sub-Clause 27.3.

IB.28 Process to be Confidential

- 28.1 Information relating to the examination, clarification, evaluation and comparison of bid and recommendations for the award of a Contract shall not be disclosed to Bidders or any other person not officially concerned with such process before the

announcement of bid evaluation report which shall be done at least ten (10) days prior to issue of Letter of Acceptance. The announcement to all Bidders will include table(s) comprising read out prices, discounted prices, price adjustments made, final evaluated prices and recommendations against all the bids evaluated. Any effort by a Bidder to influence the Purchaser's processing of bids or award decisions may result in the rejection of such Bidder's bid. Whereas any Bidder feeling aggrieved may lodge a written complaint not later than fifteen (15) days after the announcement of the bid evaluation report; however mere fact of lodging a complaint shall not warrant suspension of the procurement process.

IB.29 Clarification of Bids

- 29.1 To assist in the examination, evaluation and comparison of bids, the Purchaser may, at his discretion, ask any Bidder for clarification of his bid, including breakdowns of unit rates. The request for clarification and the response shall be in writing but no change in the price or substance of the bid shall be sought, offered or permitted except as required to confirm the correction of arithmetic errors discovered by the Purchaser in the evaluation of the bids in accordance with Clause IB.32.

IB.30 Examination of Bids and Determination of Responsiveness

- 30.1 Prior to the detailed evaluation of bids, the Purchaser will determine whether each bid is substantially responsive to the requirements of the Bidding Documents.
- 30.2 A substantially responsive bid is one which (i) meets the eligibility criteria; (ii) has been properly signed; (iii) is accompanied by the required Bid Security; and (iv) conforms to all the terms, conditions and specifications of the Bidding Documents, without material deviation or reservation. A material deviation or reservation is one (i) which affect in any substantial way the scope, quality or performance of the Goods; (ii) which limits in any substantial way, inconsistent with the Bidding Documents, the Purchaser's rights or the Bidder's obligations under the Contract; or (iii) adoption/rectification whereof would affect unfairly the competitive position of other Bidders presenting substantially responsive bids.
- 30.3 If a bid is not substantially responsive, it will be rejected by the Purchaser, and may not subsequently be made responsive by correction or withdrawal of the non-conforming deviation or reservation.

IB.31 Correction of Errors

- 31.1 Bids determined to be substantially responsive will be checked by the Purchaser for any arithmetic errors. Errors will be corrected by the Purchaser as follows:
 - (a) where there is a discrepancy between the amounts in figures and in words, the amount in words will govern; and

- (b) 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, unless in the opinion of the Purchaser there is an obviously gross misplacement of the decimal point in the unit rate, in which case the line item total as quoted will govern and the unit rate will be corrected.
- 31.2 The amount stated in the Form of Bid will be adjusted by the Purchaser 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 Bid Price, his Bid will be rejected, and the Bid Security shall be forfeited in accordance with Sub-Clause 19.6(b) hereof.

IB.32 Evaluation and Comparison of Bids

- 32.1 The Purchaser will evaluate and compare only the Bids determined to be substantially responsive in accordance with Clause IB.30.
- 32.2 In evaluating the Bids, the Purchaser will determine for each Bid the evaluated Bid Price by adjusting the Bid Price as follows:
- (a) making any correction for errors pursuant to Clause IB.31;
 - (b) excluding Provisional Sums and the provision, if any, for contingencies; and
 - (c) making an appropriate adjustment for any other acceptable variation or deviation from specification or performance criteria
- 32.3 The estimated effect of the price adjustment provisions of the Conditions of Contract, applied over the period of execution of the Contract, shall not be taken into account in Bid evaluation.
- 32.4 If the Bid of the successful Bidder is seriously unbalanced in relation to the Purchaser's estimate of the cost of Goods to be delivered under the Contract, the Purchaser may require the Bidder to produce detailed price analyses for any or all items of the Price Schedules to demonstrate the internal consistency of those prices with the manufacturing methodology and schedule proposed. After evaluation of the price analyses, the Purchaser may require that the amount of the Performance Security set forth in Clause IB.37 be increased at the expense of the successful Bidder to a level sufficient to protect the Purchaser against financial loss in the event of default of the successful bidder under the Contract.

IB.33 Post Qualification of the Bidder

- 33.1 The Purchaser shall determine to its satisfaction whether the Bidder that is selected as having submitted the lowest evaluated and substantially responsive Bid is qualified to perform the Contract satisfactorily.
- 33.2 The determination shall be based upon an examination of the documentary evidence of the Bidder's qualifications submitted by the Bidder.
- 33.3 An affirmative determination shall be a prerequisite for award of the Contract to the Bidder. A negative determination shall result in disqualification of the Bid, in which event the Purchaser shall proceed to the next lowest evaluated bid to make a similar determination of that Bidder's capabilities to perform satisfactorily.

F. AWARD OF CONTRACT

IB.34 Award

- 34.1 Subject to Clauses IB.35 and IB.39, the Purchaser will award the Contract to the Bidder whose bid has been determined to be substantially responsive to the Bidding Documents and who has offered the lowest evaluated Bid Price, provided that such Bidder has been determined to be eligible in accordance with the provisions of Clause IB.3 and qualify pursuant to Sub-Clause IB 33.2.
- 34.2 The Purchaser, at any stage of the bid evaluation, having credible reasons for or *prima facie* evidence of any defect in supplier's or contractor's capacities, may require the suppliers or contractors to provide information concerning their professional, technical, financial, legal or managerial competence whether already pre-qualified or not:

Provided that such qualification shall only be laid down after recording reasons therefor in writing. They shall form part of the records of that bid evaluation report.

IB.35 Purchaser's Right to Accept any Bid and to Reject any or all Bids

- 35.1 Notwithstanding Clause IB.34, the Purchaser reserves the right to accept or reject any Bid, and to annul the bidding process and reject all bids, at any time prior to award of Contract, without thereby incurring any liability to the affected Bidders or any obligation except that the grounds for rejection of all bids shall upon request be communicated to any Bidder who submitted a bid, without justification of grounds. Rejection of all bids shall be notified to all Bidders promptly.
- 35.2 At the time the Contract is awarded, the Purchaser reserves the right to increase or decrease the quantity of Goods originally specified in Delivery and Completion

Schedules, provided this does not exceed the percentages indicated in the Bidding Data, and without any change in the unit prices or other terms and conditions of the Bid and the Bidding Document.

IB.36 Notification of Award

- 36.1 Prior to expiration of the period of bid validity prescribed by the Purchaser, the Purchaser will notify the successful Bidder in writing (“Letter of Acceptance”) that his Bid has been accepted. This letter shall name the sum which the Purchaser will pay the Contractor in consideration of the delivery of Goods by the Contractor as prescribed by the Contract (hereinafter and in the Conditions of Contract called the “Contract Price”).
- 36.2 No Negotiation with the Bidder having evaluated as lowest responsive or any other Bidder shall be permitted, however, Purchaser may seek clarification in writing to clarify any item in the bid evaluation report; and response of the Bidder shall also be in writing.
- 36.3 The notification of award and its acceptance by the Bidder will constitute the formation of the Contract, binding the Purchaser and the Bidder till signing of the formal Contract Agreement.
- 36.3 Upon furnishing by the successful Bidder of a Performance Security, the Purchaser will promptly notify the other Bidders that their Bids have been unsuccessful and return their bid securities.

IB.37 Performance Security

- 37.1 The successful Bidder shall furnish to the Purchaser a Performance Security in the form and the amount stipulated in the Bidding Data and the Conditions of Contract within a period of 28 days after the receipt of Letter of Acceptance.
- 37.2 Failure of the successful Bidder to comply with the requirements of Sub-Clause IB.37.1 or Clauses IB.38 or IB.40 shall constitute sufficient grounds for the annulment of the award and forfeiture of the Bid Security.

IB.38 Signing of Contract Agreement

- 38.1 Within 14 days from the date of furnishing of acceptable Performance Security under the Conditions of Contract, the Purchaser will send the successful Bidder the Contract Agreement in the form provided in the Bidding Documents, incorporating all agreements between the parties.
- 38.2 The formal Agreement between the Purchaser and the successful Bidder shall be executed within 14 days of the receipt of the Contract Agreement by the successful Bidder from the Purchaser.

IB.39 General Performance of the Bidders

The Purchaser reserves the right to obtain information regarding performance of the bidders on their previously awarded contracts. The Purchaser may in case of consistent poor performance of any Bidder as reported by the purchasers of the previously awarded contracts, inter alia, reject his bid and proceed in accordance with Rule 19 of the Public Procurement Rules 2004 to take such action as may be deemed appropriate under the circumstances of the case including black listing of such Bidder and debarring him from participation in future bidding for supply of Goods.

IB.40 Integrity Pact

The Bidder shall sign and stamp the Integrity Pact provided at Appendix-G to Bid in the Bidding Documents for all Federal Government procurement contracts exceeding Rupees ten million. Failure to provide such Integrity Pact shall make the bidder non-responsive.

IB.41 Instructions not Part of Contract

Bids shall be prepared and submitted in accordance with these Instructions which are provided to assist Bidders in preparing their bids, and do not constitute part of the Bid or the Contract Documents.

IB.42 Margin of Preference

Unless otherwise specified in the Bidding Data, no margin of preference shall apply.
[Domestic Preference shall be applicable in case of International Competitive Bidding as per policy of the government, in accordance with the procedure given in the Bidding Data.]

BIDDING DATA

B i d d i n g D a t a

Instructions to Bidders

Clause Reference

- 1.1 Name and address of the Purchaser & Summary of Engineering Goods to be procured:

***Water & Power Department Gilgit-Baltistan
Annual Repair & Maintenance Material as specified in more detail in the Schedule to
the Bid.***

- 1.7 The bidding is open to ***National competition*** as per policy of the government

- 2.1 Source of Funding:

GoGB

- 3.1 Eligible Bidders

In addition to the existing text, following sub-Clause is added.

(c) ***The bidder must be enlisted with the PEC duly renewed for the Year 2023-24.***

(d) ***The bidder must exhibit a financial turn over of more than Rs.25.00 million.***

- 8.1 Time limit for clarification:

10 days

- 10.1 Bid language:

English

- 11.1 (b) Prequalification Information to be updated:

Not Applicable

- 11.1(c) Furnish Technical Proposal:

The bidder to submit a technical proposal in sufficient detail to demonstrate the adequacy of the bid meeting requirements for timely delivery of Goods i.e supply of Goods.

- 13.1 Currencies of Bid and Payment:

Pak Rupees

- 18.1 Period of Bid Validity:

182 days

19.1 Amount of Bid Security:

Pak Rs. 1 million or an equivalent amount in a freely convertible currency in the format of Bank Guarantee on bid security form provided or in the form of Deposit at Call in favour of the purchaser from a Scheduled Bank of Pakistan.

21.1 Venue, time, and date of the pre-Bid meeting:

***Venue: Water & Power Department Secretariat
Water & Power Department Complex, near KIU, Gilgit.
Date: 5th July 2024.
Time: 1400 hrs.***

22.4 Number of copies of the Bid to be completed and returned:

One original and One Copy

23.2(a) Purchaser's address for the purpose of Bid submission:

***Office of the Executive Engineer (GBHEW) Division,
Water & Power Department Complex,
Near KIU, Gilgit.***

23.2(b) Name and Number of the Contract:

“Purchase of Annual Maintenance Items/Materials for the FY 2024-25.”

24.1(a) Deadline for submission of bids:

8th July 2024 unless subsequently amended pursuant to Sub Clause 20.2.

27.1 Venue, time, and date of Bid opening:

Venue: Office of the Executive Engineer, GBHEW Division, Gilgit.

Date: 8th July 2024

Time: 15:00 hrs

35.2 Percentage increase or decrease shall not exceed ***Not Applicable.***

37.1 Standard form and amount of Performance Security acceptable to the Purchaser:

Unconditional on Demand Bank Guarantee on Standard Form amounting to 2.0 million from a Scheduled Bank of Pakistan.

**FORM OF BID
AND
APPENDICES TO BID**

Form of Bid

Date: _____

Bid Reference No. _____
(Name of Contract)

To:

Gentleman,

We, the undersigned, declare that:

- (a) We have examined and have no reservations to the Bidding Document, including Addenda No.: _____;
- (b) We offer to supply in conformity with the Bidding Document and in accordance with the Delivery and Completion Schedule, the following Goods _____
_____;
- (c) The total price of our Bid, excluding any discounts offered in item (d) below is: _____
_____;
- (d) The discounts offered and the methodology for their application are: _____

_____;
- (e) Our Bid shall be valid for a period of _____ days from the date fixed for the bid submission deadline in accordance with the Bidding Document, and it shall remain binding upon us and may be accepted at any time before the expiration of that period;
- (f) If our Bid is accepted, we commit to obtain a Performance Security in the amount of _____ percent of the Contract Price for the due performance of the Contract;
- (g) Our firm, including any subcontractors or suppliers for any part of the Contract, have nationalities from the following eligible countries _____;

- (h) We are not participating, as Bidders, in more than one Bid in this bidding process, other than alternative offers in accordance with the Bidding Document;
- (i) Our firm, its affiliates or subsidiaries, including any subcontractors or suppliers for any part of the Contract, has not been declared ineligible by the Purchaser;
- (j) The following commissions, gratuities, or fees have been paid or are to be paid with respect to the bidding process or execution of the Contract:

Name of Recipient	Address	Reason	Amount
_____	_____	_____	_____
_____	_____	_____	_____

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

- (k) We understand that this Bid, together with your written acceptance thereof included in your notification of award, shall constitute a binding contract between us, until a formal Contract is prepared and executed.
- (l) We understand that you are not bound to accept the lowest evaluated bid or any other bid that you may receive.
- (m) We agree to permit the Purchaser or its representative to inspect our accounts and records and other documents relating to the bid submission and to have them audited by auditors appointed by the Bank.

Name _____

In the capacity of _____

Signed _____

Duly authorized to sign the Bid for and on behalf of _____

Date

Witness:

Name: _____

Signature: _____

Address: _____

Occupation: _____

Appendix-A to Bid

NAME OF ELIGIBLE COUNTRIES

All countries of the World with whom Islamic Republic of Pakistan has commercial relations.

FOREIGN CURRENCY REQUIREMENTS

Not Applicable

METHOD OF ASSURING QUALITY OF GOODS

[The Bidder is required to submit a narrative outlining the method of assuring quality of Goods. The narrative should indicate in detail and include but not be limited to:

1. Organization Chart indicating head office and field office personnel involved in quality assurance.
2. Mobilization in Pakistan, the type of facilities including personnel accommodation, office accommodation, provision for maintenance and for storage, communications, security and other services to be used.
3. The procedures for transportation of Goods to delivery site.]

LIST OF QUALITY CONTROL/LABORATORY EQUIPMENTS

[The Bidder will provide on Sheet 2 of this Appendix a list of all equipment and related items, under separate heading for items owned, to be purchased or to be arranged on lease by him to carry out the quality control tests. The information shall include make, type, capacity, and anticipated period of utilization for all equipment which shall be in sufficient detail to demonstrate fully that the equipment will meet all requirements of the Specifications.]

LIST OF QUALITY CONTROL/LABORATORY EQUIPMENTS

Owned Purchased or Leased	Description of Unit (Make, Model, Year)	Purpose of Utilization	Condition	Present Location or Source	Date of Availability	Period of Utilization
1	2	3	4	5	6	7
a. Owned						
b. To be Purchased						
c. To be arranged on Lease						

Appendix-E to Bid

LIST OF MANUFACTURERS

I/We intend to supply Goods from the following manufactures or engage the following subcontractors for supply of Goods. In my/our opinion, the manufacturers named hereunder are reliable and competent to supply of Goods for which each is listed.

Enclosed are documentation outlining experience of manufacturers, the curriculum vitae and experience of their key personnel who will be assigned to the Contract, Goods to be supplied or transportation to be done, size, location and type of contracts performed in the past.

Description of Goods (Give Details)	Manufacturers (With Complete Address)
1	2

Note:

In case, the Bidder is itself either manufacturer or transporter or both, the above table should be filled and requisite documentation be submitted accordingly.

**ORGANIZATION CHART
FOR THE
SUPERVISORY STAFF AND LABOUR**

[The Bidder shall provide organization charts for: (a) procurement of Goods from its source, (b) transportation of Goods from source (Ware House) to delivery point, and (c) the staff to deal with the contractual and other related matters with the Purchaser]

(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 No. _____ Dated _____

Contract Value: *[To be filled in at the time of signing of Contract]*

Contract Title: _____

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

Without limiting the generality of the foregoing, [name of Supplier] represents and warrants that it has fully declared the brokerage, commission, fees 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 consultation fee or otherwise, with the object of obtaining or inducing the procurement of a contract, right, interest, privilege or other obligation or benefit in whatsoever form from GoP, except that which has been expressly declared pursuant hereto.

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

[name of Supplier] accepts full responsibility and strict liability for making any false declaration, not making full disclosure, misrepresenting facts 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 rights and remedies available to GoP under any law, contract or other instrument, be voidable at the option of GoP.

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

Name of Buyer:

Signature:

[Seal]

Name of Seller/Supplier:

Signature:

[Seal]

SCHEDULES TO BID

**Price Schedule for Goods
to be offered from within the Purchaser's country**

Name of Bidder _____ Bid Reference Number _____ Page ____ of ____

As per Schedule-D

Schedule-B

**Price Schedule for Goods
to be offered from outside the Purchaser's country**

Not Applicable

Manufacturer's Authorization

Date: _____

Bid Reference No.: _____

Invitation for Bid No.: _____

To: _____

WHEREAS _____ who are official manufacturers of _____ having factories at _____ do hereby authorize _____ to submit a Bid about the Invitation for Bids indicated above, the purpose of which is to provide the following Goods, manufactured by us _____ and to subsequently negotiate and sign the Contract.

We hereby extend our full guarantee and warranty in accordance with Clause 28 of the General Conditions of Contract, with respect to the Goods offered by the above firm in reply to this Invitation for Bids

Name _____

In the capacity of: _____

Signed _____

Duly authorized to sign the Authorization for and on behalf of _____

Date _____

List of Engineering Goods to be supplied

Procurement Guidelines for Framework Contracts

i. Preamble to the Schedule of Prices for Closed Framework Contract

This Schedule of Prices is issued under the terms and conditions stipulated in the Closed Framework Contract agreement for the Water & Power Department, Gilgit-Baltistan. It provides a comprehensive pricing structure and specifications for the procurement of goods and services specified in the attached lots, and it is fundamental to the transparent, equitable, and efficient execution of procurement processes.

ii. Purpose:

These guidelines outline the financial commitments and quality expectations for all required items and services, facilitating streamlined procurement and cost-efficiency while ensuring high standards of quality and reliability.

iii. Scope:

This schedule applies to all bids and represents the fixed pricing framework for the contract's duration, detailing prices for each item as per the specified lots or categories.

iv. Contractual Obligations:

- i. Bidders are expected to adhere strictly to the pricing, specifications, and quality standards provided.
- ii. Agreed prices must be presented in Pakistani Rupees (PKR) and will remain binding throughout the contract term unless mutually adjusted under the contract's stipulations.
- iii. Rates quoted shall include all transportation costs, overheads, and the bidder's profit, ensuring no additional charges are applied post-award.

v. Lot Application and Awarding Process:

- i. Bidders may apply for one or more lots, providing competitive bids for the items within each applied lot.
- ii. Each lot will be assessed individually based on the quotations submitted.
- iii. The bidder offering the lowest rates for the majority of the items within a specific lot will be preliminarily awarded the entire lot (referred to as the "Primary Bidder").

vi. Rate Matching Requirement:

- i. Upon preliminary awarding, the Primary Bidder must agree to match the lowest rates offered by other bidders for any items within the lot for which they did not originally have the lowest bid.
- ii. The Primary Bidder must formally accept to adjust their rates to these lowest rates as a condition for the final awarding of the contract.

vii. Handling Non-Acceptance and Multiple Contracts:

- i. If the Primary Bidder does not agree to match the lowest rates for certain items, the contract for those specific items will then be awarded to the bidders who have quoted the lowest price for each respective item.
- ii. This process may result in multiple contracts being signed with multiple bidders, ensuring the most competitive rates are secured across all items.

viii. Documentation and Agreement:

- ix. All bidders must submit comprehensive and competitive bids in PKR for each item within the lot, adhering to the specifications outlined in the bid documents.
- ii. Bidders must quote a single rate for each item for delivery in all ten districts of Gilgit-Baltistan (Gilgit, Ghizer, Hunza, Nagar, Diamer, Astore, Skardu, Kharmon, Shigar, and Ghanche).

i. Instructions for Bidders:

- i. Ensure compliance with all specifications and quality standards.
- ii. Maintain adherence to the principles of fairness and transparency.
- iii. All submitted bids should be free of cutting, corrections, or erasures. Any alterations must be clearly and legibly initialled by the person signing the bid. Un-initialled alterations may lead to the disqualification of the bid.

j. Refusal to Accept Corrections:

- i. In cases where the Employer identifies discrepancies or errors in the bid that require correction, and the bidder refuses to accept such corrections, the Employer reserves the right to disqualify the bid or terminate the contract agreement if discovered post-award.
- ii. Bidders refusing necessary corrections as identified by the Employer may be subject to exclusion from future bidding processes under the discretion of the Water & Power Department, Gilgit-Baltistan.

k. Precedence of Guidelines:

- i. In the event of any conflict between these procurement guidelines and any general or particular conditions of the contract, these guidelines will take precedence, ensuring the primary objective of securing the

best interests of the Water & Power Department, Gilgit-Baltistan is maintained.

- ii. By participating in this bidding process, bidders acknowledge and agree to be bound by the terms outlined in this schedule and the broader contractual documentation.

LOT#1	Instrumentation
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S.#	Description of item	Unit	Rate
1	Supply of PT 11000 / 110V	Each	
2	Supply of HT CT 1000 / 5 Amp.	Each	
3	Supply of HT CT 800 / 5 Amp.	Each	
4	Supply of HT CT 600 / 5 Amp.	Each	
5	Supply of HT CT 400 / 5 Amp.	Each	
6	Supply of HT CT 200 / 5 Amp.	Each	
7	Supply of HT CT 100 / 5 Amp.	Each	
8	Supply of HT CT 50 / 5 Amp.	Each	
9	Pressure Meters Analog (APS)	No.	
10	Synchronization Meter MZ-10-100	No.	
11	Reactive Power Meter 46DI-VER-500A/5A, 10.5 KV, 100V-8M VAR	No.	
12	Reactive Power Meter 46DI-W,300A/5A,66kv/100V,0-30MVAR	No.	
13	Reactive Power Meter 46DI-VER-1000A/5A, 10.5 KV, 100V-15 VAR	No.	
14	Ammeter 46L2-A500/5A, 0-500 A	No.	
15	Frequency Meter 46L2-HZ, 10.5/0.1kv,45-55Hz	No.	
16	Voltmeter DC, 0-250 V	No.	
17	Ammeter DC,46C2-A 75MV, 500/5A,0-500 A	No.	
18	Voltmeter46I2-V,10.5KV/100V,0-12 KV	No.	
19	Ampere meter 46L2-A,1000/5A,0-0.1KA	No.	
20	Ampere meter 46L2-A,300/5A,0-300A	No.	
21	Voltmeter 46L2-V,66kv/100V,0-80kv	No.	
22	Voltmeter 46L2-V,0-450V	No.	
23	Active Power Meter 46DI-00A/5A,10.5kv/100V,0~8MW	No.	
24	Active Power Meter 46DI-W,1000A/5A,10.5kv/100V,0~15MW	No.	
25	Active Power Meter 46DI-W,300A/5A,66kv/100V,0~30MW	No.	
26	Frequency Meter Didital	No.	
27	Frequency Meter Analog	No.	
28	Voltmeter (APS)	No.	
29	Ampere Meter (APS)	No.	
30	KiloWatt Meters (APS)	No.	

31	Temperature Meter (APS)	No.
32	Oil Pressure Meter	No.
33	Synchronizing Meter Digital	No.
34	Penstock Pressure Meter 6 MPA	No.
35	Power Factor Meter	No.
36	Potentiometer WX703-21 22K ohm	No.
37	Potentiometer RHM 0120 MR 011 A034-22 MA 20-4 MA	No.
38	Potentiometer (APS)	No.
39	Thermometer 0-1000	No.
40	Pressure gauge for cooling Pipe DWM2000/0/0/C/2/2	No.
41	Oil Pressure Gauge YXK-150	No.
42	Pressure Gauge YXC-100	No.
43	Oil Level Indicator for Pressure UHZ-54	No.
44	Generator Temperature Sensor	No.
45	Governor Sensor 0-150 mm	No.
46	Sensor of Resistance 5k ohm	No.
47	Bearing Temperature Sensor/gauge	No.
48	RPM Meter	No.
49	CT Operated Energy Meter	No.
50	Isolation Transformer	No.
51	Shunt Coil 110 V	No.
52	PT JDCF-72.5T, AWZ66	No.
53	PT KYM 85-1210	No.
54	PTs 11kV/110V	No.
55	PTs 400V/110V	No.
56	PTs 400V/100V	No.
57	PT 33KV, 1.73(1110 V) Single Phase	No.
58	PT 6300/100 V	No.
59	CT 2000/5A	No.
60	CT 1000/5A	No.
61	CT 800/5A	No.
62	CT 600/5A	No.
63	CT 500/5A	No.
64	CT 400/5A	No.
65	CT 300/5A	No.
66	CT 200/5A	No.
67	CT 100/5A (11KV)	No.
68	CT 150/5A	No.

69	CT 33KV, 175/1/1A, Single Phase	No.
70	White Indicator AD11-22/21V DC 220V (BD)/41BD	No.
71	White Indicator AD11-22/21V DC 220V Red13, Green 13	No.
72	Indicator Red, yellow9aps0	No.
73	Bearing Temperature sensor	No.
74	Shear pin Sensor	No.
75	Tarpaulin	No.

LOT #2	Transmission Line
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S.#	Description of item	Unit	Rate
1	Supply of HT Steel Structures 45' long as per WAPDA specifications.	Each	
2	Supply of galvanized lattice steel structures fixed HT pole 34'-8" long as per WAPDA specification.	Each	
3	Supply of wooden cross arms of size 8'x5"x4" i/c nuts, bolts, and washers. (Popular Made)	Each	
4	Supply of wooden cross arms of size 10'x6"x5" i/c nuts, bolts, and washers. (Popular Made)	Each	
5	Supply of galvanized steel braces ¼ "x1 ¼ "x28" with nut bolt washers etc. complete.	Each	
6	Supply of Disc insulator 11KV.	Each	
7	Supply of Pin Insulator 11KV with pin, nut bolts.	Each	
8	Supply of Pin Insulator 33KV with pin, nut bolts.	Each	
9	Supply of angle Iron of size 8'x1 ¼ "x1 ¼ "x4".	Each	
10	Supply of Stay set with stranded stay wire with stay swivel, stay insulator and anchor plate.	P.Set	
11	Supply of ACSR (Rabbit 6-1/0.132).	P.Mtr	
12	Supply of ACSR (Dog 6-7/0.186).	P.Mtr	
13	Supply of earthling set with (1'x1'x1/8).	P.Set	
14	Supply of ACSR (Osprey).	P.Mtr	
15	Supply of ACSR (Panther)	P.Mtr	
16	Supply of Galvanized Single threaded arming bolts i/c nuts.	Each	
17	Supply of Galvanized Double threaded arming bolts i/c nuts. 22 x 3/4.	Each	
18	Supply of P/G Clamps. T-110.	Each	
19	Supply of P/G Clamps. T-150.	Each	
20	Supply of P/G Clamps. T-155.	Each	
21	Supply of P/G Clamps. T-220.	Each	
22	Supply of eye nuts.	Each	
23	Supply of Dead end clamps for (DOG) conductor.	Each	
24	Supply of Dead end clamps for (Rabbit) conductor.	Each	
25	Supply of Dead end clamps for (Panther / Osprey) conductor.	Each	
26	Supply of PT 11000 / 110V	Each	

27	Supply of Galvanized steel structure 30'-8" long, LT Pole PECO/Line Steel or equivalent as per WAPDA specification.	Each	
28	Supply of AAC 7/0.122 (Ant).	P.Mtr	
29	Supply of shackle insulator with D-iron Clamp i/c nut bolts etc complete.	Each	
30	Supply of stay set compete with anchor plate, stay insulators.	P.Set	
31	Supply of AAC 7/0.173 (WASP).	P.Mtr	
32	Supply of earthing set with (1'x1'x1/8) size copper plate.	P.Set	
33	Supply of steel channel	Each	
34	Supply of HRC Fuse grip (600 A).	Each	
35	Supply of drop out / cut out double insulator (D-Set) 11KV grade i/c base frame, D-links, bolts nuts, washers etc. complete (Pak Made).	P.Set	
36	Supply of drop out / cut out double insulator (D-Set) 33KV grade i/c base frame, D-links, bolts nuts, washers etc. complete (Pak Made).	P.Set	
37	Supply of Isolator 33KV grade i/c Links, Base, Common Net Bolts & Isolating rods.	P.Set	
38	Supply of Earthing Set i/c earth wire etc complete.	P.Set	

LOT #	Adhesives, Paints, Varnishes and
3	Misc

S.#	Description of item	Unit	Rate
1	S/O Leather gloves.	P/pair	
2	S/O Rubber Insulation Gloves	P/pair	
3	S/O Insulating working shoes.	PPE	
4	S/O Bronex anti rust turbo spray.	P/bottle	
5	S/O Lock varnish (400 mg).	P/set	
6	S/O German white glue.	P/kg	
7	S/O Woven Cleaning cloth.	P/kg	
8	S/O Elfi.	Each	
9	S/O Thinner.	P/liter	
10	S/O Working dangries shirt and trouser. Small, medium, large and extra large sizes.	P/pair	
11	S/O Insulation tape	Each	
12	S/O Heating Element 2000 W	Each	
13	Hard Board Lasani Sheet 8' x 4' x 10mm.	P.Sheet	
14	S/O Oxygen cylinder for filling of oil bearings and thrust pads.	Gases	
15	S/O LPG gas for filling of oil bearings and thrust pades.	p/lbs	
16	S/O Lock tite No.3478 for repair of shafts and turbine cover and surface plates.	Each	
17	S/O Lock tite No.638 for bushes of turbine.	Each	
18	S/O Lock tite No.518 for surface plates.	Each	
19	S/O Steel putty for covers surface fillings in tins of 1 kgs.	Each	
20	S/O grinding mounted stones shank dia 6mm as per sample.	Each	
21	S/O flap emery polish paper wheels dia 30mm..	Each	
22	S/O flap emery polish paper wheels dia 50mm..	Each	
23	Log Books	No.	
24	Attendace/Complaint Register	No.	
25	Cotton Waste	Kg	
26	Polythene Sheet	Roll	

LOT # 4 Cable & Accessories

S.#	Description of item	Unit	Rate
1	Supply of 16mm ² 7/0.064, Aluminum cable PVC insulated, PVC Sheathed. Newage or Pak Cables (Single Core).	P.Mtr	
2	Supply of 25mm ² 19/0.052, Aluminum cable PVC insulated, PVC Sheathed. Newage or Pak Cables (Single Core).	P.Mtr	
3	Supply of 35mm ² 19/0.064, Aluminum cable PVC insulated, PVC Sheathed. Newage or Pak Cables (Single Core).	P.Mtr	
4	Supply of 50mm ² 19/0.072, Aluminum cable PVC insulated, PVC Sheathed. Newage or Pak Cables (Single Core).	P.Mtr	
5	Supply of 70mm ² 19/0.083, Aluminum cable PVC insulated, PVC Sheathed. Newage or Pak Cables (Single Core).	P.Mtr	
6	Supply of 95mm ² 37/0.072, Aluminum cable PVC insulated, PVC Sheathed. Newage or Pak Cables (Single Core).	P.Mtr	
7	Supply of 120mm ² 37/0.083, Aluminum cable PVC insulated, PVC Sheathed. Newage or Pak Cables (Single Core).	P.Mtr	
8	Supply of 150mm ² 37/0.093, Aluminum cable PVC insulated, PVC Sheathed. Newage or Pak Cables (Single Core).	P.Mtr	
9	Supply of 185mm ² 37/0.103, Aluminum cable PVC insulated, PVC Sheathed. Newage or Pak Cables (Single Core).	P.Mtr	
10	Supply of 240mm ² 61/0.103, Aluminum cable PVC insulated, PVC Sheathed. Newage or Pak Cables (Single Core).	P.Mtr	
11	Supply of 300mm ² 61/0.103, Aluminum cable PVC insulated, PVC Sheathed. Newage or Pak Cables (Single Core).	P.Mtr	
12	Supply of Single Core 25mm ² XLPE / PVC aluminum made 11KV grade Cable.	P.Mtr	
13	Supply of Single Core 50mm ² XLPE / PVC aluminum made 11KV grade Cable.	P.Mtr	
14	Supply of Single Core 70mm ² XLPE / PVC aluminum made 11KV grade Cable.	P.Mtr	

15	Supply of Single Core 95mm ² XLPE / PVC aluminum made 11KV grade Cable.	P.Mtr
16	Supply of Single Core 120mm ² XLPE / PVC aluminum made 11KV grade Cable.	P.Mtr
17	Supply of Single Core 185mm ² XLPE / PVC aluminum made 11KV grade Cable.	P.Mtr
18	Supply of Thimble for 16mm ² 7/0.064, Aluminum cable.	Each
19	Supply of Thimble for 25mm ² 19/0.052, Aluminum cable.	Each
20	Supply of Thimble for 35mm ² 19/0.064, Aluminum cable .	Each
21	Supply of Thimble for 50mm ² 19/0.072, Aluminum cable .	Each
22	Supply of Thimble for 70mm ² 19/0.083, Aluminum cable .	Each
23	Supply of Thimble for 95mm ² 37/0.072, Aluminum cable.	Each
24	Supply of Thimble for 120mm ² 37/0.083, Aluminum cable.	Each
25	Supply of Thimble for 150mm ² 37/0.093, Aluminum cable .	Each
26	Supply of Thimble for 185mm ² 37/0.103, Aluminum cable	Each
27	Supply of Thimble for 240mm ² 61/0.093, Aluminum cable.	Each
28	Supply of Thimble for 300mm ² 61/0.103, Aluminum cable .	Each
29	Supply of Thimble for Single Core 25mm ² XLPE / PVC aluminum made 11KV grade Cable.	Each
30	Supply of Thimble for Single Core 50mm ² XLPE / PVC aluminum made 11KV grade Cable.	Each
31	Supply of Thimble for Single Core 70mm ² XLPE / PVC aluminum made 11KV grade Cable.	Each
32	Supply of Thimble for Single Core 95mm ² XLPE / PVC aluminum made 11KV grade Cable.	Each
33	Supply of Thimble for Single Core 120mm ² XLPE / PVC aluminum made 11KV grade Cable.	Each
34	Supply of Thimble for Single Core 185mm ² XLPE / PVC aluminum made 11KV grade Cable.	Each
35	Supply of HT Kits for Single Core 25mm ² XLPE / PVC aluminum made 11KV grade Cable.	P Set

36	Supply of HT Kits for Single Core 50mm ² XLPE / PVC aluminum made 11KV grade Cable.	P Set
37	Supply of HT Kits for Single Core 70mm ² XLPE / PVC aluminum made 11KV grade Cable.	P Set
38	Supply of HT Kits for Single Core 95mm ² XLPE / PVC aluminum made 11KV grade Cable.	P Set
39	Supply of HT Kits for Single Core 120mm ² XLPE / PVC aluminum made 11KV grade Cable.	P Set
40	Supply of HT Kits for Single Core 185mm ² XLPE / PVC aluminum made 11KV grade Cable.	P Set
41	Supply of 0.6/1KV ABC Cable with 3X95+1x95+1X25mm ² (AAC/XLPE+AAAC/XLPE+AAAC/XLPE).	P.Mtr
42	Supply of 0.6/1KV ABC Cable with 3X70+1x70+1X25mm ² (AAC/XLPE+AAAC/XLPE+AAAC/XLPE).	P.Mtr
43	Supply of 0.6/1KV ABC Cable with 3X50+1x50+1X25mm ² (AAC/XLPE+AAAC/XLPE+AAAC/XLPE).	P.Mtr
44	Supply of 0.6/1KV ABC Cable with 3X25+1x25+1X25mm ² (AAC/XLPE+AAAC/XLPE+AAAC/XLPE).	P.Mtr
45	Supply of 0.6/1KV ABC Cable with 1X10+1X10mm ² (AAC/XLPE+ AAAC/XLPE+AAAC/XLPE).	P.Mtr
46	Supply of Dead End Clamp with end caps for Aerial Bundled Conductor having size 10-35 or 95 sq.mm with all accessories.	Each
47	Supply of Suspension Assembly for Aerial Bundled Cable having mechanical strength of 10KN having sizes 10-95 sq.mm with all accessories.	Each
48	Supply of Insulated Piercing Connector Main to Sub-Main having water-proofing apparatus in size 16-95/16-95 sq.mm with Aluminum teeth with all accessories.	Each
49	Supply of Plastic Binding Strips with all accessories.	Each
50	Supply of Insulated Piercing Connector Main to Sub-Main and Service Connections having water-proofing apparatus in size 16-95/16-95 and 16-95/4-35 sq.mm with Aluminum teeth with all accessories	Each
51	Supply of hot dip galvanized Tubular Poles 30 ft height above ground with round clamps for ABC and for mounting meters	Each
52	S/O HV Bushing complete set for 200 KVA Transformer.	P/set

53	S/O HV Bushing complete set for 100 KVA Transformer.	P/set
54	S/O HV Bushing complete set for 50 KVA Transformer.	P/set
55	S/O LV Bushing complete set for 200 KVA Transformer.	P/set
56	S/O LV Bushing complete set for 100 KVA Transformer.	P/set
57	S/O LV Bushing complete set for 50 KVA Transformer.	P/set
58	S/O Zip Ties different sizes	P/doz
59	S/O Pure copper cable single core 70mm ²	P/meter
60	S/O Pure copper cable single core 50mm ²	P/meter
61	S/O Copper thimble 16x70mm	Each
62	S/O Service cable 3/29 single core	P/coil
63	S/O Service cable 7/29 single core	P/coil
64	S/O Copper Cable 70mm ² .	p/meter
65	Supply of Single Core 300mm ² XLPE / PVC aluminum made 11KV grade Cable.	Meter
66	Supply of Single Core 200mm ² XLPE / PVC aluminum made 11KV grade Cable.	Meter
67	Supply of Thimble for 400mm ² 91/0.093, Aluminum cable.	No.
68	Wiring Cable	Coils

LOT # 5 Control & Protective Devices

S.#	Description of item	Unit	Rate
1	Supply of Control Module intelecom pact lcom AP)	Each	
2	Supply of Digital Speed Controle Module (PROACT)	Each	
3	Supply of Water Temperature Sensors.	Each	
4	Supply of Engine Pressure Sensor.	Each	
5	Supply of Solenoid Switches	Each	
6	Supply of 11KV CT 600 / 5 Amp.	Each	
7	Supply of Protection Relay.	Each	
8	Supply of HRC Fuse for P.T	Each	
9	Supply of Numarical Protection Relay INT PA 620.	Each	
10	Supply of High Voltage HRE Fuse.	Each	
11	Supply of Vacuum Circuit Breaker.	Each	
12	Supply of Indoor HV AC Hand Cart 11kV	Each	
13	S/O MCB Make ABB 4 pole 35 Ampere	Each	
14	S/O MCB Make ABB 4 pole 25 Ampere	Each	
15	S/O MCB Make ABB 4 pole 16 Ampere	Each	
16	S/O MCB Make ABB 4 pole 10 Ampere	Each	
17	S/O MCB Make ABB 4 pole 6 Ampere	Each	
18	S/O MCB Make ABB 4 pole 2 Ampere	Each	
19	S/O MCB Make ABB 4 pole 65 Ampere	Each	
20	S/O MCB Make ABB 3 pole 35 Ampere	Each	
21	S/O MCB Make ABB 3 pole 25 Ampere	Each	
22	S/O MCB Make ABB 3 pole 16 Ampere	Each	
23	S/O MCB Make ABB 3 pole 10 Ampere	Each	
24	S/O MCB Make ABB 3 pole 6 Ampere	Each	
25	S/O MCB Make ABB 3 pole 2 Ampere	Each	
26	3 pole non-draw able air circuit breaker 400V, 1250Ampere with setting range 800 to 1250 Ampere. Breaking capacity 85KA.	No.	
27	3 pole non-draw able air circuit breaker 400V, 800Ampere. Breaking capacity 85KA.	No.	
28	3 pole non-draw able air circuit breaker 400V, 2000Ampere with setting range 1600 to 2000Ampere. Breaking capacity 85KA.	No.	
29	3 pole draw out air circuit breaker 2500Ampere, 660V, 65KA	No.	
30	ACB 630 A, DW-15	No.	

31	VCB i/c Trolley 11 KV, 630 A	No.
32	VCB Tripping Coil 11kV, 110 V	set
33	VCB Tripping Coil 6.3 KV, 110 V	No.
34	Differential protection Relay DCD-2A	No.
35	Rotar Ground Relay LD-3	No.
36	Power Directional relay BG-1B	No.
37	Auxiliary Relay DZ-31VB,DZ-18B	No.
38	Time Realy SS-23/DC 220V, 0.1-99S	No.
39	Signal Relay DX-8,0.25A	No.
40	Over Voltage Relay DY-21C~50-200V	No.
41	Voltage Relay DY-21C/60C/100V/5	No.
42	Auxiliary Relay DZ-31B,DC220V	No.
43	Auxiliary Relay DZB-14B,DC220V/0.5A	No.
44	Auxiliary Relay DZB-13B,DC220V	No.
45	Current Relay DL-21,2.5-10A	No.
46	Signal Relay DX-8,0.025A	No.
47	Differential Relay DCD-2A	No.
48	Current Relay DL-21C,1.5-6A	No.
49	Low Voltage Relay DY-2840-160V	No.
50	Auxiliary Relay DZB-31B,DC220V	No.
51	Auxiliary Relay DZB-13DC,220V	No.
52	Signal Relay DX-8,DC 220V	No.
53	Power Relay BG-11,AC100V/5A	No.
54	Impulse Relay 2C-23A, DC 220V	No.
55	Auxiliary Relay DZY-211-220V DC	No.
56	Synchronizing check Relay BT-1B/200, 20degree~33.88 degree	No.
57	Auxiliary Relay DZY-210-220V DC	No.
58	Auxiliary Relay DZY-205-220V DC	No.
59	Auxiliary Relay DZY-203-220V DC	No.
60	Time Relay DS 33C/220V, DC	No.
61	Time Relay DS 34C/220V, DC	No.
62	Time Relay SS 62199S	No.
63	Time Relay BS 7B,220V DC	No.
64	Signal Relay DS-8	No.
65	Synchronization Voltage Relay 50VA/AY-1	No.
66	Time Realy 92/KT	No.
67	Time Realy DS-36C	No.
68	Time Realy SS-22/1-1-993	No.
69	Auxilliary Relay D2J-203	No.
70	Auxilliary Relay D2J-219	No.

71	Relay DZ6b-3Z-DC 24V	No.
72	Control System relay 24V/10A/250V	No.
73	Excitation Relay 24V/DC, 5A/250V AC	No.
74	Current Relay (APS)	No.
75	Signal Relay (APS)	No.
76	Voltage Relay (APS)	No.
77	Auxilliary Relay 24V DC,14 pin	No.
78	Auxilliary Relay 220V DC,14 pin	No.
79	Protection Relay DZ-219	No.
80	14 pin Relay 24 V	No.
81	14 pin Relay 110 V	No.
82	11 pin Relay 24 V	No.
83	11 pin Relay 110 V	No.
84	8 pin Relay 220V	No.
85	8 pin Relay 24 V	No.
86	8 pin Relay 12 V	No.
87	DC Breaker	No.
88	Tripping Coil	No.
89	Fuse RT 19-16/6A	No.
90	Fuse R6-16/3A	No.
91	Fuse GFI-16/6	No.
92	Fuse RT 22A-16/A,250A	No.
93	Fuse RL-6-25/6	No.
94	Fuse RU-15/6, 16 Amp	No.
95	Fuse RL1-15/6/6A	No.
96	Fuse XRNT1-1050/10 Amp	No.
97	Fuse XRNP1-10,0.5 Amp	No.
98	DC Fuses 10,8,6,4 Amp	No.
99	Control Switch LW39B 16-41-42 KK	No.
100	Control Switch LW 12-16Z/4.0011.1	No.
101	Control Switch LW8-1-10C22/2F-1-2SAT	No.
102	Flow Switch SLX-1 WFS(SLX-25Z)	No.
103	Needle Switch DWK ZLK-8 (limit switch)	No.
104	Changeover switch LW12-16/9.6912.3 (1QK)	No.
105	Changeover switch LW8-10122022/3F 4QK,5QK	No.
106	Changeover switch LW8-10C 33/3F/STK/S	No.
107	Knife switch P-20	No.
108	Switch 1QF PK2MO-10	No.
109	Switch 2QF PK2MO-11	No.
110	Switch 3QF LT-20A/1	No.
111	Switch 8QF LT-6A/1	No.

112	Switch 1FQ PK2MO-25	No.
113	Oil Flow Switch DN 50	No.
114	Control Switch LW12-16Z/4.0011.1(1,4,5,8SA,51KK)	No.
115	Switch (APS)	No.
116	Two Way Switch	No.
117	SBI Button LA38-225	No.
118	Push Button 91,92 SBT,91-92SRR	No.
119	Push Button Red/Green	No.
120	Push Button LA 38-11/209 220V	No.
121	Push Button with lamp LA39-11D/G23-DC 224V	No.
122	MCB L7-6/2/C-DC	No.
123	MCB 2 pole 32 amps	No.
124	MCB 2 pole 63 amps	No.
125	MCB 3 pole 10 amps	No.
126	MCB 3 pole 32 amps	No.
127	MCB 3 pole 16 amps	No.
128	MCB 4 Pole 100 amp	No.
129	MCCB (APS)	No.
130	Temperature Controller 1-4WDXA 1200/R	No.
131	Temperature Controller WXZTDS 163257	No.
132	Temperature Controller A1200/R (1-5 WDX)	No.
133	Temperature Controller	No.
134	Rated Speed Control SPCT 1/3-24 loops	No.
135	Pressure Display Controller VXK-150	No.
136	Magnetic Contactors AC 220V	No.
137	Magnetic Contactors DC 220V	No.
138	Magnetic Contactors 4 pole 380 V	No.

LOT # 6 Control Valves & Gates

S.#	Description of item	Unit	Rate
1	S/O Gear mechanism for butter fly and spherical control valves.	Each	
2	S/O Full square threaded bars M60 mmx3000 mm for forbay control gates.	Each	
3	S/O Full square threaded bars M50 mmx3000 mm for forbay control gates.	Each	
4	S/O Full square threaded bars M30 mmx3000 mm for forbay control gates.	Each	
5	Butterfly Valve (APS)	No.	
6	Butterfly Valve PN 16	No.	
7	Opening Valve of Cooling Pipe ZBF22Q50	No.	
8	Sluice Valve DNBO10HT200	No.	
9	Ball Valve for Lubrication Pipe DN-50	No.	
10	Solenoid Valve for Deflector 4WE25D50/06 AC 220 V	No.	
11	Spherical Vale DN 700, PN 40 E19110-01	No.	
12	Anti Jet Valve (APS)	No.	
13	Valves DN25/10	No.	
14	Valves DN65/16	No.	
15	Valves DN25/16	No.	
16	High Pressure Valve 3" dia	No.	
17	High Pressure Valve 3/4" dia	No.	
18	Pressure Reduce Valve 6" dia	No.	
19	Control Valve 1-1/4" i/c Accessories	No.	
20	Governor oil Pressure Valve 3/4"	No.	
21	Foot Valve dia 6"	No.	
22	Expansion Joint SSJ-10 DN 100	No.	
23	Gun Metal Valve 1"	No.	
24	Gun Metal Valve 3/4"	No.	
25	Valve 2"	No.	
26	Valve 2.5"	No.	
27	Valve 4"	No.	
28	Drain Valve 3"	No.	
29	Main Gate Sluice Valve 20"	No.	

30	By Pass Valve	No.
31	Gate Valve 1"	No.
32	Gate Valve 1-1/2"	No.
33	Ball Valve 3"	No.
34	Cooling Valve DN 80,16,HT 200)	No.

LOT # 7 Engines, Filters, DC Backup System and Welding

S.#	Description of item	Unit	Rate
1	Supply of Turbo Charger.	Each	
2	Supply of Batteries 12V , 200 Amp.	Each	
3	Supply of Fuel Injector.	P Set	
4	Supply of Radiator Core made of Copper Cubes.	Each	
5	Supply of Self Starter Motor.	Each	
6	Supply of Turbo Charger DO9L-32QRO Part No. SE652CN (04 No in 01 Set).	Each	
7	Supply of Fuel Injector.	P Set	
8	Supply of Acutator STG 6.02W.	Each	
9	Supply of Self Starter Motor Type AS12Alt, 24V 55Amp reversable rotation.	Each	
10	Supply of Air Cleaner / Filters	Each	
11	Supply of Acutator (Indoor).	Each	
12	Supply of O Ring Injector.	Each	
13	Supply of Gaskit Sump / Chamber.	Each	
14	Supply of Gaskit Tappet Cover/packing.	Each	
15	Supply of Gaskit Reocker cover.	Each	
16	Supply of Fuel Pressure Pipe.	Each	
17	Supply of Battery Charger 110V	Each	
18	S/O Stain less steel welding electrodes Ø 4mm, for repair of runners, Needles, Nozzles etc.	p/kg	
19	S/O Stain less steel welding electrodes Ø 3.2 mm for repair of runners, Needles, Nozzles etc.	p/kg	
20	S/O Mild steel welding electrodes 6013 of size 3.2 mm	p/kg	
21	S/O Mild steel welding electrodes 6013 of size Ø4mm.	p/kg	
22	S/O Mild steel welding electrodes 7018 of size Ø4mm.	p/kg	
23	Dry batteries of 12V, 100AH.	No	
24	Lead Acid Batteries GFMD-300C 2V, 300 AH	No	
25	Power Supplies 200V DC	No.	
26	Power Supplies 200V AC	No.	
27	Power Supplies 110/24 DC	No.	
28	Power Supplies 220/24 DC	No.	
29	Power Supply IC 695 PSD040C for CPU 300 RX 31	No.	

LOT# 8 Electrical Machines & Excitation

S.#	Description of item	Unit	Rate
1	S/O M/S Threaded bar M 10X1000mm.	Each	
2	S/O M/S Threaded bar M 12X1000mm.	Each	
3	S/O M/S Threaded bar M 16X1000mm.	Each	
4	S/O M/S Threaded bar M 24X1000mm.	Each	
5	S/O M/S Threaded bar M 30X1000mm.	Each	
6	S/O Nut bolts M 10X50mm.	Each	
7	S/O Nut bolts M 12X50mm.	Each	
8	Automatic Voltage Regulator (AVR) Model KR-440 or equivalent.	No.	
9	Automatic Voltage Regulator (AVR) Stamford SX-440.	No.	
10	Automatic Voltage Regulator (AVR) TR-4 make Reliance or LX - 449.	No.	
11	AVR KEC- 2056	No.	
12	AVR R - 449	No.	
13	Rotating diodes (Bi-water)	No.	
14	Rotating diodes (Chinese units) 300Ampere, 600V.	No.	
15	Thyristors for Excitation Panel	No.	
16	Rotating Diode Holding Plate	No.	
17	Carbon brush (APS).	No	
18	Synchronizing Voltage Transformer 50 VA d/y-1 00/3/100	No.	
19	Charging Motor 380 V	No.	
20	Voltage Regulator	No.	
21	3 Phase Motor 5 HP	No.	
22	Water Cooling Pump with Motor 1500 rpm, 5 HP, 3.73 KW	No.	
23	Pump 20 HP	No.	
24	DC Motor 110 (APS)	No.	
25	AC Motor with Pump 900 rpm (APS)	No.	
26	AC Motor with Pump 1140 rpm (APS)	No.	
27	Oil Pump	No.	
28	Charging Motor	No.	
29	Servo Motor 1.5 HP	No.	
30	2P micro step drivers model RD-023 MS RORZE	No.	
31	Governor Motor 10HP	No.	
32	Governor Motor 5.5 HP	No.	

LOT # 9 Tools, Plants & Accessories

S.#	Description of item	Unit	Rate
1	S/O Scissors 8" for paper cutting.	Each	
2	S/O Dry cell 1.5 v DC for Multi Meter/Megar	P/pair	
3	S/O Floor cleaning brush APS.	Each	
4	S/O Hacksaw blads.	Each	
5	S/O LED Light 100 watt	Each	
6	S/O LED Light 42 watt	Each	
7	S/O Power plug APS	Each	
8	S/O Two pin power plug APS	Each	
9	S/O cutting tips having No. CNMA 190612-TK 2001 make SICO, KYOCERA, MITSUBISHI.	Each	
10	S/O cutting tips having No. CNMG 160612 make SICO, KYOCERA, MITSUBISHI.	Each	
11	S/O cutting tips having No. CNMG 120404 FF1-TT 2500 make SICO, KYOCERA, MITSUBISHI.	Each	
12	S/O cutting tips having No. LCMF 300812-1000-FT-TP200 make SICO, KYOCERA, MITSUBISHI.	Each	
13	Cutting Tool Holder MCLNR 3232-P08	Each	
14	Cutting Tool Holder PCLNR 3232-P19	Each	
15	Cutting Tool Holder PTJNR 3232-P22	Each	
16	Cutting Tool Holder SDJCL 3232- P15	Each	
17	Cutting Tool Holder LFML 3225-E04	Each	
18	Cutting Tool Holder MCLNR 4040-R19	Each	
19	S/O milling insert tips as per sample.	Each	
20	Grease Gun	No.	
21	3 Pole Changeover switch H513-B, 400-13 XK 06-101-25	No.	
22	Generator Foundation Bolts i/c Spring Washers (APS)	No.	
23	Bolts i/c Nuts & Washers of Different Sizes (APS)	No.	
24	L KEY bolts M20	No.	
25	Search Lights	No.	
26	Extension Lead	Nos.	
27	Torch Rechargeable	Nos.	
28	Welding Plant i/c Accessories	No.	
29	Socket Set	Set	
30	Pipe Wrench 18"/24"	No.	
31	Adjustable Wrench 36"	No.	

32	Adjustable Wrench 18"	No.
33	Adjustable Wrench 8"	No.
34	Hydraulic Jack 30 Ton	Set
35	Hydraulic Jack 20 Ton	Set
36	Hydraulic Jack 10 Ton	Set
37	Hydraulic Jack 5 Ton	Set
38	Hydraulic Jack 2 Ton	Set
39	Chain Pulley 10 Ton	No.
40	Chain Pulley 5 Ton	No.
41	Ratchet machine 2 ton	No.
42	Ratchet machine 1.5 ton	No.
43	Ratchet machine 1/2 ton	No.
44	Lifting Belt 15 ton	No.
45	Lifting Belt 10 ton	No.
46	Lifting Belt 5 ton	No.
47	Lifting Belt 2 ton	No.
48	Plier Set of all types	Set
49	Shovel	No.
50	Pickaxe	No.
51	L Key Set	Set
52	Hammer Small Size	No.
53	Dust Blower	No.
54	Cutting Disc	No.
55	Pin Grinder	No.

LOT # 10 Rewinding Coils & Accessories

S.#	Description of item	Unit	Rate
1	S/O Super enameled copper wire 16 SWG. make Ghazilex or equalent. for rewinding of Generators	P/kg	
2	S/O Super enameled copper wire 16.5 SWG. make Ghazilex or equalent.for 200 KVA transformers	P/kg	
3	S/O Super enameled copper wire 17 SWG. make Ghazilex or equalent.for 200 KVA transformers	P/kg	
4	S/O Super enameled copper wire 17.5 SWG. make Ghazilex or equalent.for 200 KVA transformers	P/kg	
5	S/O Super enameled copper wire 18 SWG. make Ghazilex or equalent.for 100 KVA transformers	P/kg	
6	S/O Super enameled copper wire 18.5 SWG. make Ghazilex or equalent.for 100 KVA transformers	P/kg	
7	S/O Super enameled copper wire 19 SWG. make Ghazilex or equalent.for 100 KVA transformers	P/kg	
8	S/O Super enameled copper wire 20 SWG. make Ghazilex or equalent.for 50 KVA transformers	P/kg	
9	S/O Super enameled copper wire 20.5 SWG. make Ghazilex or equalent.for 50 KVA transformers	P/kg	
10	S/O Super enameled copper wire 21 SWG. make Ghazilex or equalent.for 50 KVA transformers	P/kg	
11	S/O Super enameled copper wire 21.5 SWG. make Ghazilex or equalent.for 50 KVA transformers	P/kg	
12	S/O Super enameled copper wire 22 SWG. make Ghazilex or equalent.for 50 KVA transformers	P/kg	
13	S/O Super enameled copper wire 23 SWG. make Ghazilex or equalent.for 25 KVA transformers	P/kg	
14	S/O Super enameled copper wire 24 SWG. make Ghazilex or equalent.for 25 KVA transformers	P/kg	
15	S/O Paper insulated rectangular copper conductor 12x5mm.	P/kg	
16	S/O Paper insulated rectangular copper conductor 10x5mm.	P/kg	
17	S/O Paper insulated rectangular copper conductor 9x5mm.	P/kg	
18	S/O Paper insulated rectangular copper conductor 7x5mm.	P/kg	

19	S/O Paper insulated rectangular copper conductor 8x5mm.	P/kg
20	S/O Paper insulated rectangular copper conductor 8.5x4.5mm.	P/kg
21	S/O Paper insulated rectangular copper conductor 4x4.5mm.	P/kg
22	S/O Paper insulated rectangular copper conductor 5x4.5mm.	P/kg
23	S/O Paper insulated rectangular copper conductor 5x5mm.	P/kg
24	S/O Paper insulated rectangular copper conductor 5x4mm.	P/kg
25	S/O Paper insulated rectangular copper conductor 4x4mm.	P/kg
26	S/O Paper insulated rectangular copper conductor 6x4mm.	P/kg
27	S/O Paper insulated rectangular copper conductor 6x5mm.	P/kg
28	S/O Paper insulated rectangular copper conductor 3x4mm.	P/kg
29	S/O Glass insulated rectangular copper conductor 3x5mm.for 400 KW Chinese Generator Kharku Ghanche	P/kg
30	S/O Cotton tape 1" wide.	Each
31	S/O Scotch tape 1" wide.	Each
32	S/O Fiber glass binding rope APS.	P/meter
33	S/O Fiber glass sleeve 1mm.	Each
34	S/O Fiber glass sleeve 2mm.	Each
35	S/O Fiber glass sleeve 3mm.	Each
36	S/O Fiber glass sleeve 4mm.	Each
37	S/O Fiber glass sleeve 5mm.	Each
38	S/O Fiber glass sleeve 7mm.	Each
39	S/O Fiber glass sleeve 8mm.	Each
40	S/O Fiber glass sleeve 10mm.	Each
41	S/O Fiber glass sleeve 12mm.	Each
42	S/O Signal element wire 1.5mm.	P/coil
43	S/O Signal element wire 2.5mm.	P/coil
44	S/O Heat shrinkable sleeve 18mm.	P/meter
45	S/O Insulation paper 0.12mm.	P/kg
46	S/O Press pond paper 1mm thick.	P/kg
47	S/O Hard soldering bar.	Each
48	LT Tapping paper	P/roll

49	S/O Fiber glass strip 2x14x500mm	Each
50	S/O Soldering wire 3mm	P/roll
51	S/O Wooden Patterns for HT/LT Coils	Each
52	S/O Wooden Patterns for Generator Coils	P/set
53	S/O HV Bushing complete set for 200 KVA Transformer.	P/set
54	S/O HV Bushing complete set for 100 KVA Transformer.	P/set
55	S/O HV Bushing complete set for 50 KVA Transformer.	P/set
56	S/O LV Bushing complete set for 200 KVA Transformer.	P/set
57	S/O LV Bushing complete set for 100 KVA Transformer.	P/set
58	S/O LV Bushing complete set for 50 KVA Transformer.	P/set

LOT # 11 Turbines & Accessories

S.#	Description of item	Unit	Rate
1	S/O Guide Vane Locking Mechanism (RFN 25 x 50)	Each	
2	S/O Guide Vane Locking Mechanism (RFN 28 x 55)	Each	
3	S/O Guide Vane Locking Mechanism (RFN 20 x 47)	Each	
4	Angle Iron 50 x 50 x 6mm.	P.Kg	
5	S/O Water seals of different sizes for main inlet valves of size DN 650 PN 16 as per sample.	Nos.	
6	S/O Water seals of different sizes for main inlet valves of size ,DN 600 PN 16 as per sample.	Nos	
7	S/O Water seals of different sizes for main inlet valves of size DN 500 PN 10 as per sample.	Nos	
8	S/O MS round bars Ø 150x2500 for manufacturing of generator shafts ST45.	p/kg	
9	S/O Bronze ring Ø550xØ300 x40 mm for generator slip rings.	p/kg	
10	S/O Bronze ring Ø300xØ100x40mm for generator slip rings.	p/kg	
11	S/O MS round bars Ø50 mmx2000 for making of coupling pins and special bolts.	p/kg	
12	S/O MS round bars Ø40 mm x2000 for making of coupling pins and special bolts.	p/kg	
13	S/O MS round bars Ø30 mm x2000 for making of coupling pins and special bolts.	p/kg	
14	S/O SS Rings Ø 300x50 mm for manufacturing of pelton turbine nozzles.	p/kg	
15	S/O SS Rings Ø250x50mm for manufacturing of pelton turbine nozzles.	p/kg	
16	S/O SS Rings Ø 200xØ50mm for manufacturing of pelton turbine nozzles.	p/kg	
17	S/O SS Round bar Ø300 mm x 300mm for manufacturing of pelton turbine needles.	p/kg	
18	S/O SS Round bar 200 mm x300 mm for manufacturing of pelton turbine needles.	p/kg	
19	S/O SS Round bar 150 mm x300 for manufacturing of pelton turbine needles.	p/kg	
20	S/O solid stanless steel round bar Ø 235 x280 mm for new needle of Hydel station Bagrote & Jaglote Sai.	p/kg	

21	S/O solid stainless steel ring Ø 280x200 x70 mm for new nozzle of Hydel stations Bagrote & Sai Jaglote.	p/kg
22	S/O solid stainless steel ring Ø 170x Ø90mmx65 mm for new nozzle of Hydel station Dahitar.	p/kg
23	S/O solid stainless steel ring Ø 120mm x260mm for new needle Hydel station Dahitar Nagar-II.	p/kg
24	S/O solid stainless steel bar Ø170mm x90mmx60 mm for new nozzle Hydel station Dahitar Nagar-II.	p/kg
25	S/O solid stainless steel ring Ø 495mm x175 mm for new needle for Hydel station Mendi Skardu.	p/kg
26	S/O solid stainless steel ring Ø 250mm x100x55 mm for new Nozzles for Hydel station Mendi Skardu.	p/kg
27	S/O solid stainless steel solid bar Ø 210mm xØ80mm x 70mm for new Nozzles for Hydel station Parri Banglah.	p/kg
28	S/O solid stainless steel solid bar Ø 100mm x80mm length for new Needle for Hydel station Parri Banglah.	p/kg
29	S/O solid stainless steel solid bar Ø 200mm x length 220 mm for new Needle for Hydel station Jaglote Gah.	p/kg
30	S/O solid stainless steel cylinder Ø 165mmxØ135 mmx295mm for new Needle for Hydel station Jaglote Gah.	p/kg
31	S/O solid stainless steel ring of Ø300mmxØ100 mm x65mm length for new Nozzle for Hydel station Jaglote Gah.	p/kg
32	S/O solid stainless steel round bar Ø60mmxØ540 mm new Needle shaft for Hydel station Jaglote Gah.	p/kg
33	S/O MS hollow material for shaft sleeves of size outer Φ 300x 100x300mm.	p/kg
34	S/O MS solid material for shaft sleeves of size outer Φ 200x250mm.	p/kg
35	S/O MS rings Ø 950xØ600x60 mm for 500 KW Chinese turbine cover surface plating.	p/kg
36	S/O MS surface plates Ø950xØ600x50 mm for Chinese units.	p/kg
37	S/O MS surface plate Ø1230xØ860x50 mm for 01 MW Chinese turbine covers' surface plating.	p/kg
38	S/O MS surface plates Ø950xØ700x50 mm for 1.2 MW Norwegian turbine cover plating.	p/kg
39	S/O MS surface plates Ø765xØ410x50 mm.	p/kg
40	S/O MS surface plates Ø750x300x50 mm for Bi-Water units in GB.	p/kg

41	S/O MS surface plates Ø800x500x50 mm for 500 KW Chinese unit in GB.	p/kg
42	S/O cast iron ring Ø 990x775x100 mm.	p/kg
43	S/O Cost iron ring for Bi-Water unit Harcho Chilas and Khyber for upper cover size 420x300x60 mm.	p/kg
44	S/O Cost iron ring for Bi-Water unit Harcho, Chilas and Khyber for Lower cover 540x490x35mm.	p/kg
45	S/O cast iron ring for Bi-water unit Harcho, Chilas and khyber for lower cover 400x350x60mm.	p/kg
46	S/O Cost iron ring for swiss unit Chilas and Khyber for upper cover 420x340x50 mm.	p/kg
47	S/O Cost iron ring for swiss unit Chilas and Khyber for lower cover dia 450x350x70 mm.	p/kg
48	S/O Cast iron rings Ø670x Ø580x90mm for Chinese unit.	p/kg
49	S/O Cast iron rings Ø580x Ø350x90mm for Chinese unit.	p/kg
50	S/O Cast iron rings Ø560xØ350x100 mm for Chinese units.	p/kg
51	S/O MS cast iron rings Ø630xØ450x80 mm for 1.2 MW Hassan Ababd for lower cover.	p/kg
52	S/O MS cast iron rings Ø550xØ450x65 mm for 1.2 MW Hassan Ababd for upper cover.	p/kg
53	S/O SS flat bars of size 65x16x2000 mm for making of turbine seal rings.	p/kg
54	S/O SS flat bars of size 90x20x2000 mm for making of turbine seal ring.	p/kg
55	S/O SS sheet 1000mmx 6mm for runner vans.	p/kg
56	S/O Self lubricating bushes Ø60xØ55 x 40 mm.	Each
57	S/O Self lubricating bushes Ø55xØ50x40 mm.	Each
58	S/O Self lubricating bushes Ø70xØ75 x 60 mm.	Each
59	S/O Self lubricating bushes Ø75xØ80 x 60 mm.	Each
60	S/O Self lubricating bushes Ø35xØ40 x 35 mm.	Each
61	S/O MS blank material for guide vans as per sketch/sample.	p/kg
62	S/O Drill bits dia 6.5 mm .	Each
63	S/O Drill bits dia 8.5 mm.	Each
64	S/O Drill bits dia 10.5 mm.	Each
65	S/O Drill bits dia 13 mm.	Each
66	S/O Drill bits dia 14.5 mm.	Each
67	S/O Drill bits dia 17.5 mm.	Each
68	S/O Drill bits dia 21.5 mm.	Each

69	S/O Drill bits dia 33 mm.	Each
70	S/O Drill bits dia 35 mm.	Each
71	S/O Drill bits dia 40 mm.	Each
72	S/O Drill bits dia 45 mm.	Each
73	S/O Drill bits dia 50 mm.	Each
74	S/O bronze bar dia 200 mmx100 mmx120mm	p/kg
75	S/O bronze bar dia 75 mmx500 mm.	p/kg
76	S/O bronze bar dia 65 mmx500 mm.	p/kg
77	S/O bronze bar dia 50 mmx500 mm.	p/kg
78	S/O bronze bar dia 45 mmx500 mm.	p/kg
79	S/O bronze bar dia 35 mmx500 mm.	p/kg
80	S/O bronze bar dia 30 mmx500 mm.	p/kg
81	S/O MS Sheety 1220 mmx2440mmx8mm	p/kg
82	S/O MS Flanges dia 800x300x25 mm	p/kg
83	S/O MS Flat bar 50mmx20mmx 2 m	p/kg
84	S/O MS Flat bar 65mmx20mmx 2 m	p/kg
85	S/O SS Flat bar 45mmx20mmx2m	p/kg
86	S/O SS Ring dia 755x480x20 mm	p/kg
87	S/O SS Ring dia 750x650x20 mm	p/kg
88	S/O SS pipe dia 215x200x150 mm	p/kg
89	Gland Packing (Dori) 1"	Kg
90	Gland Packing (Dori) 3/4"	Kg
91	Gland Packing (Dori) 1/2"	Kg
92	Rubber Packing (Dori) 2"	Kg
93	XY Seal D160 mm, 6MPA	No.
94	XY Seal D45 mm, 6MPA	No.
95	Oil Seal for Jet Nozzle Mechanism	Set
96	Rubber Packing (8mmx1000 mm)	Meter
97	Rubber Packing (6mmx1000 mm)	Meter
98	Rubber Packing (5mmx1000 mm)	Meter
99	Rubber Packing (4mmx1000 mm)	Meter
100	Rubber Packing (3mmx1000 mm)	Meter
101	O Ring Teflon (APS)	Pkt
102	GI Pipe 1"	Meter
103	Cock Sheet 5mm	Meter
104	Namda Sheet	Meter
105	Silicone Tube	No.
106	Steel Elbow 2"	No.
107	Steel Elbow 1-1/4"	No.
108	Steel Union 2"	No.
109	Steel Union 1-1/4"	No.

110	Socket 2"	No.
111	Nipple 1-1/4"	No.
112	Stainless Steel Pipe 1-1/4"	Rft
113	Rubber Pipe Spiral 1-1/2"	Rft
114	Mild Steel Sheet 8mm thickness	Meter
115	Mild Steel Sheet 6mm thickness	Meter
116	Pipe 2" dia	Set

LOT # 12 Turbines & Accessories

S.#	Description of item	Unit	Rate
1	S/O Grease SKF LGMT 8/1.	P/kg	
2	S/O Hydraulic oil	P/liter	
3	S/O White metal ASTM B-23, tin content above 80% for re-filling of damaged oil bearings and thrust pades for all Chinese unitss in GB.	p/kg	
4	Bearing No.7222 BECBM	Set	
5	Bearing NU226 ECJ	No.	
6	Bearing No.29326E.	Set	
7	Bearing No.NU 320 C3.	Set	
8	Bearing No.7224 BCM.	Set	
9	Bearing No.7321 BCM.	Set	
10	Bearing No.7328 BCM.	Set	
11	Bearing No.NU 232.	Set	
12	Bearing No.7330.	Set	
13	Bearing No.NU 230.	Set	
14	Bearing No. 6330M.	Set	
15	Bearing NU 324.	Set	
16	Bearing No. N324.	Set	
17	Bearing No.6324/C3.	Set	
18	Bearing No. NSK6326/C3.	Set	
19	Bearing No.218 F	Set	
20	Bearing No.6319	Set	
21	Bearing No.22316	Set	
22	Bearing No.6309M	Set	
23	Bearing No.6309-2RS1/C3	Set	
24	Bearing No.6308	Set	
25	Bearing No.7217	Set	
26	Bearing No.22220	Set	
27	Bearing Bush H320	No.	
28	Bearing No.326 (Roller)	No.	
29	Bearing No.6318	No.	
30	Bearing No.1018	No.	
31	Bearing No.2320	No.	
32	Bearing No.6013 (Roller)	No.	

33	Bearing No.32009	No.
34	Bearing No. 330 EM (Roller)	No.
35	Grease	Kg
36	Turbo Oil T-46	Liters
37	Transformer Oil (11 KV)	Liters
38	Transformer Oil (33 KV)	Liters
39	M. Oil	Liters
40	Kerosene Oil	Liters

Delivery and Completion Schedule

The delivery period shall be governed as per PCC Sub-Caluse 16.1 (ii).

Inspection and Tests to be carried out

As per PCC Sub-Clause 26.2

STANDARD FORMS

**BID SECURITY
PERFORMANCE SECURITY
CONTRACT AGREEMENT
ADVANCE PAYMENT SECURITY**

FORM OF BID SECURITY
(Bank Guarantee)

Security Executed on _____
(Date)

Name of Surety (Bank) with Address: _____
(Scheduled Bank in Pakistan)

Name of Principal (Bidder) with Address _____

Penal Sum of Security Rupees . _____ (Rs. _____)

Bid Reference No. _____

KNOW ALL MEN BY THESE PRESENTS, that in pursuance of the terms of the Bid and at the request of the said Principal (Bidder) we, the Surety above named, are held and firmly bound unto _____

(hereinafter called the 'Purchaser') in the sum stated above for the payment of which sum well and truly to be made, we bind ourselves, our heirs, executors, administrators and successors, jointly and severally, firmly by these presents.

THE CONDITION OF THIS OBLIGATION IS SUCH, that whereas the Bidder has submitted the accompanying Bid dated _____ for Bid No. _____ for _____ (Particulars of Bid) to the said Purchaser; and

WHEREAS, the Purchaser has required as a condition for considering said Bid that the Bidder furnishes a Bid Security in the above said sum from a Scheduled Bank in Pakistan or from a foreign bank duly counter-guaranteed by a Scheduled Bank in Pakistan, to the Purchaser, conditioned as under:

- (1) that the Bid Security shall remain in force up to and including the date 28 days after the deadline for validity of bids as stated in the Instructions to Bidders or as it may be extended by the Purchaser, notice of which extension(s) to the Surety is hereby waived;
- (2) that the Bid Security of unsuccessful Bidders will be returned by the Purchaser after expiry of its validity or upon signing of the Contract Agreement; and
- (3) that in the event of failure of the successful Bidder to execute the proposed Contract Agreement and furnish the required Performance Security, the entire said sum be paid immediately to the said Purchaser pursuant to Clause 19.6 of the Instruction to Bidders for the successful Bidder's failure to perform.

NOW THEREFORE, if the successful Bidder shall, within the period specified therefor, on the prescribed form presented to him for signature enter into a formal Contract with the said Purchaser in accordance with his Bid as accepted and furnish within twenty eight (28) days of his being requested to do so, a Performance Security with good and sufficient surety, as may be required, upon the form prescribed by the said Purchaser for the faithful performance and proper

fulfilment of the said Contract or in the event of non-withdrawal of the said Bid within the time specified for its validity then this obligation shall be void and of no effect, but otherwise to remain in full force and effect.

PROVIDED THAT the Surety shall forthwith pay the Purchaser the said sum upon first written demand of the Purchaser (without cavil or argument) and without requiring the Purchaser to prove or to show grounds or reasons for such demand, notice of which shall be sent by the Purchaser by registered post duly addressed to the Surety at its address given above.

PROVIDED ALSO THAT the Purchaser shall be the sole and final judge for deciding whether the Principal (Bidder) has duly performed his obligations to sign the Contract Agreement and to furnish the requisite Performance Security within the time stated above, or has defaulted in fulfilling said requirements and the Surety shall pay without objection the said sum upon demand from the Purchaser forthwith and without any reference to the Principal (Bidder) or any other person.

IN WITNESS WHEREOF, the above bounden Surety has executed the instrument under its seal on the date indicated above, the name and seal of the Surety being hereto affixed and these presents duly signed by its undersigned representative pursuant to authority of its governing body.

WITNESS:	SURETY (Bank)
	Signature _____
1. _____	Name _____
_____	Title _____
Corporate Secretary (Seal)	Corporate Guarantor (Seal)
2. _____	

Name, Title & Address	

**FORM OF PERFORMANCE SECURITY
(Bank Guarantee)**

Guarantee No. _____
Executed on _____
Expiry date _____

[Letter by the Guarantor to the Purchaser]

Name of Guarantor (Bank) with address: _____
(Scheduled Bank in Pakistan)

Name of Principal (Supplier/Contractor) with address: _____

Penal Sum of Security (express in words and figures) _____

Letter of Acceptance No. _____ Dated _____

KNOW ALL MEN BY THESE PRESENTS, that in pursuance of the terms of the Bidding Documents and above said Letter of Acceptance (hereinafter called the Documents) and at the request of the said Principal we, the Guarantor above named, are held and firmly bound unto the _____ (hereinafter called the Purchaser)

in the penal sum of the amount stated above for the payment of which sum well and truly to be made to the said Purchaser, we bind ourselves, our heirs, executors, administrators and successors, jointly and severally, firmly by these presents.

THE CONDITION OF THIS OBLIGATION IS SUCH, that whereas the Principal has accepted the Purchaser's above said Letter of Acceptance for _____
(Name of Contract) for the _____
(Name of Project).

NOW THEREFORE, if the Principal (Supplier/Contractor) shall well and truly perform and fulfill all the undertakings, covenants, terms and conditions of the said Documents during the original terms of the said Documents and any extensions thereof that may be granted by the Purchaser, with or without notice to the Guarantor, which notice is, hereby, waived and shall also well and truly perform and fulfill all the undertakings, covenants terms and conditions of the Contract and of any and all modifications of said Documents that may hereafter be made, notice of which modifications to the Guarantor being hereby waived, then, this obligation to be void; otherwise to remain in full force and virtue till all requirements of Clause 28, Warrenty, of Conditions of Contract are fulfilled.

Our total liability under this Guarantee is limited to the sum stated above and it is a condition of any liability attaching to us under this Guarantee that the claim for payment in writing shall be received by us within the validity period of this Guarantee, failing which we shall be discharged of our liability, if any, under this Guarantee.

We, _____ (the Guarantor), waiving all objections and defences under the Contract, do hereby irrevocably and independently guarantee to pay to the Purchaser without delay upon the Purchaser's first written demand without cavil or arguments and without requiring the Purchaser to prove or to show grounds or reasons for such demand any sum or sums up to the amount stated above, against the Purchaser's written declaration that the Principal has refused or failed to perform the obligations under the Contract which payment will be effected by the Guarantor to Purchaser's designated Bank & Account Number.

PROVIDED ALSO THAT the Purchaser shall be the sole and final judge for deciding whether the Principal (Contractor) has duly performed his obligations under the Contract or has defaulted in fulfilling said obligations and the Guarantor shall pay without objection any sum or sums up to the amount stated above upon first written demand from the Purchaser forthwith and without any reference to the Principal or any other person.

IN WITNESS WHEREOF, the above-bounden Guarantor has executed this Instrument under its seal on the date indicated above, the name and corporate seal of the Guarantor being hereto affixed and these presents duly signed by its undersigned representative, pursuant to authority of its governing body.

Guarantor (Bank)

Witness:

1. _____

Signature _____

Corporate Secretary (Seal)

Name _____

Title _____

2. _____

Name, Title & Address

Corporate Guarantor (Seal)

FORM OF CONTRACT AGREEMENT

THIS AGREEMENT made on the _____ day of _____, 20____, between _____ of _____ (hereinafter “the Purchaser”), of the one part, and _____ of _____ (hereinafter called “the Supplier”), of the other part:

WHEREAS the Purchaser invited bids for certain Goods viz., _____ and has accepted a Bid by the Supplier for the supply of those Goods in the sum of _____ (hereinafter called “the Contract Price”).

NOW THIS AGREEMENT WITNESSETH AS FOLLOWS:

1. In this Agreement words and expressions shall have the same meanings as are respectively assigned to them in the Conditions of Contract hereinafter referred to.
2. The following documents shall be deemed to form and be read and construed as part of this Agreement, viz.:
 - (a) the Purchaser’s Notification to the Supplier of Award of Contract (Letter of Acceptance);
 - (b) the Form of Bid and the Price Schedules submitted by the Supplier;
 - (c) the Particular Conditions of Contract; Part-II
 - (d) the General Conditions of Contract; Part-I
 - (e) the Schedule to Bid (other than Price Schedule);
 - (f) Appendices to Bid;
 - (g) Specifications;
 - (h) Drawings; and
 - (i) Any other Item

This Contract shall prevail over all other Contract documents. In the event of any discrepancy or inconsistency within the Contract documents, then the documents shall prevail in the order listed above.

3. In consideration of the payments to be made by the Purchaser to the Supplier as indicated in this Agreement, the Supplier hereby covenants with the Purchaser to provide the Goods and to remedy defects therein in conformity in all respects with the provisions of the Contract.
4. The Purchaser hereby covenants to pay the Supplier in consideration of the provision of the Goods and the remedying of defects therein, the Contract Price or such other sum as may become payable under the provisions of the Contract at the times and in the manner prescribed by the Contract.

IN WITNESS the parties hereto have caused this Agreement to be executed in accordance with the laws of _____ on the day, month and year indicated above.

Signature of the Supplier

(Seal)

Signed, Sealed and Delivered in the presence of:

Witness:

(Name, Title and Address)

Signature of the Purchaser

(Seal)

Witness

(Name, Title and Address)

Form of Advance Payment Security

Date: _____

Contract Name and No. : _____

To: _____

In accordance with the payment provision included in the Contract, in relation to advance payments, _____ (hereinafter called “the Supplier”) shall deposit with the Purchaser a security consisting of _____, to guarantee its proper and faithful performance of the obligations imposed by said Clause of the Contract, in the amount of _____.

We, the undersigned _____, legally domiciled in _____ (hereinafter “the Guarantor”), as instructed by the Supplier, agree unconditionally and irrevocably to guarantee as primary obligor and not as surety merely, the payment to the Purchaser on its first demand without whatsoever right of objection on our part and without its first claim to the Supplier, in the amount not exceeding _____.

This security shall remain valid and in full effect from the date of the advance payment received by the Supplier under the Contract until _____, _____.

Name _____

In the capacity of _____

Signed _____

Duly authorized to sign the security for and on behalf of _____

Date _____

General Conditions of Contract

General Conditions of Contract

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1. Definitions

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

- (a) “Contract” means the Agreement entered into between the Purchaser and the Supplier, together with the Contract Documents referred to therein, including all attachments, appendices, schedules and all documents incorporated by reference therein.
- (b) “Contract Documents” means the documents listed in the Agreement, including any amendments thereto.
- (c) “Contract Price” means the price payable to the Supplier as specified in the Agreement, subject to such additions and adjustments thereto or deductions therefrom, as may be made pursuant to the Contract.
- (d) “Day” means calendar day.
- (e) “Delivery” means the transfer of the Goods from the Supplier to the Purchaser in accordance with the terms and conditions set forth in the Contract.
- (f) “Completion” means the fulfillment of the supply of Goods by the Supplier in accordance with the terms and conditions set forth in the Contract.
- (g) “Eligible Countries” means the countries as per Appendix-A.
- (h) “GCC” means the General Conditions of Contract.
- (i) “Goods” means all of the commodities, raw material, machinery and equipment, and/or other materials that the Supplier is required to supply to the Purchaser under the Contract.
- (j) “Purchaser’s Country” is the country specified in the Particular Conditions of Contract (PCC).
- (k) The “Purchaser” means the Employer who is the entity purchasing the Goods, as specified in the PCC, and includes the legal successors or assigns of the Purchaser.
- (l) “PCC” means the Particular Conditions of Contract.
- (m) “Subcontractor” means any natural person, private or government entity or a combination of the above, including its legal successors or permitted assigns, to whom any part

of the Goods to be supplied is subcontracted by the Supplier.

(n) “Supplier” means the natural person, private or government entity, or a combination of the above, whose bid to perform the Contract has been accepted by the Purchaser and is named as such in the Agreement, and includes the legal successors or permitted assigns of the Supplier.

(o) “The Site,” where applicable, means the place named in the PCC.

2. Contract Document

Subject to the order of precedence set forth in the Agreement, all documents forming the Contract (and all parts thereof) are intended to be correlative, complementary, and mutually explanatory.

3. Corrupt and Fraudulent Practices

3.1

(a) For the purposes of this provision, the term “Corrupt and Fraudulent Practices” includes the offering, giving, receiving, or soliciting of any thing of value to influence the action of a public official or the supplier or contractor in the procurement process or in contract execution to the detriment of the procuring agencies; or misrepresentation of facts in order to influence a procurement process or the execution of a contract, collusive practices among bidders (prior to or after bid submission) designed to establish bid prices at artificial, non-competitive levels and to deprive the procuring agencies of the benefits of free and open competition and any request for, or solicitation of anything of value by any public official in the course of the exercise of his duty.

(b) The Purchaser will reject a proposal for award if it determines that the bidder recommended for award has, directly or through an agent, engaged in corrupt and fraudulent practices in competing for the Contract.

3.2

The Supplier shall permit the Purchaser 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 Purchaser, if so required by the Purchaser.

4. Interpretation 4.1 If the context so requires it, singular means plural and vice versa where the context requires.

4.2 Incoterms

The meaning of any trade term and the rights and obligations of parties thereunder shall be as prescribed by Incoterms.

- (a) EXW, CIF, DDP, and other similar terms, shall be governed by the rules prescribed in the current edition of Incoterms, published by the International Chamber of Commerce at the date of the Invitation for Bids or as specified in the PCC.

4.3 Entire Agreement

The Contract constitutes the entire agreement between the Purchaser and the Supplier and supersedes all communications, negotiations and agreements (whether written or oral) of parties with respect thereto made prior to the date of Contract.

4.4 Amendment

No amendment or other variation of the Contract shall be valid unless it is in writing, is dated, expressly refers to the Contract, and is signed by a duly authorized representative of each party thereto.

4.5 Nonwaiver

- (a) Subject to GCC Sub-Clause 4.5(b) below, no relaxation, forbearance, delay, or indulgence by either party in enforcing any of the terms and conditions of the Contract or the granting of time by either party to the other shall prejudice, affect, or restrict the rights of that party under the Contract, neither shall any waiver by either party of any breach of Contract operate as waiver of any subsequent or continuing breach of Contract.
- (b) Any waiver of a party's rights, powers, or remedies under the Contract must be in writing, dated, and signed by an authorized representative of the party granting such waiver, and must specify the right and the extent to which it is being waived.

4.6 Severability

If any provision or condition of the Contract is prohibited or rendered invalid or unenforceable, such prohibition, invalidity or unenforceability shall not affect the validity or enforceability of any other provisions and conditions of the Contract.

5. Language

- 5.1 The Contract as well as all correspondence and documents relating to the Contract exchanged by the Supplier and the Purchaser, shall be written in the language specified in the PCC. Supporting documents and printed literature that are part of the Contract may be in another language provided they are accompanied by an accurate translation of the relevant passages in the language specified in the PCC, in which case, for purposes of interpretation of the Contract, this translation shall govern.
- 5.2 The Supplier shall bear all costs of translation to the governing language and all risks of the accuracy of such translation.

6. Joint Venture, Consortium or Association

- 6.1 Unless otherwise specified in the PCC, if the Supplier is a joint venture, consortium, or association, all of the parties shall be jointly and severally liable to the Purchaser for the fulfillment of the provisions of the Contract and shall designate one party to act as a leader with authority to bind the joint venture, consortium, or association. The composition or the constitution of the joint venture, consortium, or association shall not be altered without the prior consent of the Purchaser.

7. Eligibility

- 7.1 The Supplier and its Subcontractors shall have the nationality of an Eligible Country in case of International Competitive Bidding but only of Pakistan in case National Competitive Bidding. A Supplier or Subcontractor shall be deemed to have the nationality of a country if it is a citizen or constituted or incorporated, and operates in conformity with the provisions of the laws of that country.
- 7.2 All Goods to be supplied under the Contract and financed by the Purchaser shall have their origin in Eligible Countries. For the purpose of this Clause, origin means the country where the goods have been grown, mined, cultivated, produced, manufactured, or processed; or through manufacture, processing, or assembly, another commercially recognized article results that differs substantially in its basic

characteristics from its imported components.

- | | |
|--|--|
| 8. Notices | 8.1 Any Notice given by one party to the other pursuant to the Contract shall be in writing to the address specified in the PCC. The term “in writing” means communicated in written form with proof of receipt.

8.2 A Notice shall be effective when delivered or on the Notice’s effective date, whichever is later. |
| 9. Governing Law | 9.1 The Contract shall be governed by and interpreted in accordance with the laws of the Purchaser’s country, unless otherwise specified in the PCC. |
| 10. Settlement of Disputes | 10.1 The Purchaser and the Supplier shall make every effort to resolve amicably by direct informal negotiation any disagreement or dispute arising between them under or in connection with the Contract.

10.2 If the parties fail to resolve such a dispute or difference by mutual consultation within twenty-eight (28) days from the commencement of such consultation, either party may require that the dispute be referred for resolution to the formal mechanisms specified in the PCC. |
| 11. Scope of Supply | 11.1 Subject to the PCC, the Goods to be supplied shall be as specified in Schedules to Bid.

11.2 Unless otherwise stipulated in the Contract, the Scope of Supply shall include all such items not specifically mentioned in the Contract but that can be reasonably inferred from the Contract as being required for attaining Delivery and Completion of the Goods as if such items were expressly mentioned in the Contract. |
| 12. Delivery | 12.1 Subject to GCC Sub-Clause 33.1, the Delivery of the Goods shall be in accordance with the Delivery and Completion Schedule specified in the Schedules to Bid. The details of shipping and other documents to be furnished by the Supplier are specified in the PCC. |
| 13. Supplier’s Responsibilities | 13.1 The Supplier shall supply all the Goods included in the Scope of Supply in accordance with GCC Clause 11, and the Delivery and Completion Schedule, as per GCC Clause 12. |

14. Purchaser's Responsibilities

- 14.1 Whenever the supply of Goods requires that the Supplier obtain permits, approvals, and import and other licenses from local public authorities, the Purchaser shall, if so required by the Supplier, make its best effort to assist the Supplier in complying with such requirements in a timely and expeditious manner.
- 14.2 The Purchaser shall afford all costs involved in the performance of its responsibilities, in accordance with GCC Sub-Clause 14.1.

15. Contract Price

- 15.1 The Contract Price shall be as specified in the Agreement subject to any additions and adjustments thereto, or deductions therefrom, as may be made pursuant to the Contract.

- 15.2 Prices charged by the Supplier for the Goods delivered under the Contract shall not vary from the prices quoted by the Supplier in its bid, with the exception of any price adjustments authorized as per the formula if given in GCC Sub-Clause 15.3.

- 15.3 *[The Purchaser should develop the formula and other factors for Price Adjustment based on the principle of Clause 70.1 of PEC Bidding Documents for Civil Works and Standard Procedure and Formulae for Price Adjustment prepared by PEC, with following modifications:*

i. Adjustable material would be those raw materials used for manufacturing of specific Goods Items on which, in opinion of the Purchaser, the price adjustment is payable. However, the Purchaser shall calculate, to make project specific price adjustment formula, the appropriate weightages of major raw materials as per the PEC standard documents mentioned above.

ii. In case of adjustable materials and labor, the current price indices shall be 42 days prior to date of Goods transport [or any other appropriate period may be incorporated by the Purchaser representing the mid-point of the period of manufacture], while in case of POL, the current price indices shall be 15 days [or any other reasonable period may be incorporated by the Purchaser] before the date of

Goods transport.

iii. Source for indices:

a. For Local Manufactured Items;

PICC cost data or any other credible source to be mentioned in bidding documents, failing which to be agreed between parties before signing the Contract.

b. For Foreign Manufactured Items;

London Metal Exchange (LME) Rate]

OR

[The Purchaser shall state “This is a Fixed Price Contract” in case the Price Adjustment is not applicable for lesser time of delivery or smaller quantities of Goods to be supplied.]

16. Terms of Payment

- 16.1 The Contract Price shall be paid as specified in the PCC.
- 16.2 The Supplier's request for payment shall be made to the Purchaser in writing, accompanied by invoices describing, as appropriate, the Goods delivered by the documents submitted pursuant to GCC Clause 12 and upon fulfillment of all the obligations stipulated in the Contract.
- 16.3 Payments shall be made promptly by the Purchaser, no later than sixty (60) days after submission of an invoice or request for payment by the Supplier, and the Purchaser has accepted it.
- 16.4 The currency or currencies in which payments shall be made to the Supplier under this Contract shall be specified in the PCC.

17. Taxes and Duties

- 17.1 For Goods supplied from outside the Purchaser's Country, the Supplier shall be entirely responsible for all taxes, stamp duties, license fees, and other such levies imposed outside the Purchaser's Country.
- 17.2 For Goods supplied from within the Purchaser's Country, the Supplier shall be entirely responsible for all taxes, duties, license fees, etc., incurred until delivery of the contracted Goods to the Purchaser.
- 17.3 If any tax exemptions, reductions, allowances or privileges

may be available to the Supplier in the Purchaser's Country, the Purchaser shall use its best efforts to enable the Supplier to benefit from any such tax savings to the maximum allowable extent.

18. Performance Security

- 18.1 The Supplier shall, within twenty-eight (28) days of the notification of Contract award, provide a Performance Security for the due performance of the Contract in the amounts and currencies specified in the PCC.
- 18.2 The proceeds of the Performance Security shall be payable to the Purchaser as compensation for any loss resulting from the Supplier's failure to complete its obligations under the Contract.
- 18.3 The Performance Security shall be denominated in the currencies of the Contract, or in a freely convertible currency acceptable to the Purchaser, and shall be in one of the forms stipulated by the Purchaser in the PCC, or in another form acceptable to the Purchaser.
- 18.4 The Performance Security shall be discharged by the Purchaser and returned to the Supplier not later than twenty-eight (28) days following the date of completion of the Supplier's performance obligations under the Contract, including any warranty obligations, unless specified otherwise in the PCC.

19. Copyright

- 19.1 The copyright in all drawings, documents, and other materials containing data and information furnished to the Purchaser by the Supplier herein shall remain vested in the Supplier, or, if they are furnished to the Purchaser directly or through the Supplier by any third party, including suppliers of materials, the copyright in such materials shall remain vested in such third party.

20. Confidential Information

- 20.1 The Purchaser and the Supplier shall keep confidential and shall not, without the written consent of the other party hereto, divulge to any third party any documents, data, or other information furnished directly or indirectly by the other party hereto in connection with the Contract, whether such information has been furnished prior to, during or following completion or termination of the Contract. Notwithstanding the above, the Supplier may furnish to its Subcontractor such documents, data, and other information it receives from the Purchaser to the extent required for the Subcontractor to perform its work under the Contract, in which event the Supplier shall obtain from such Subcontractor an undertaking of confidentiality similar to that imposed on the Supplier under

GCC Clause 20.

- 20.2 The Purchaser shall not use such documents, data, and other information received from the Supplier for any purposes unrelated to the Contract. Similarly, the Supplier shall not use such documents, data, and other information received from the Purchaser for any purpose other than the design, procurement, required for the performance of the Contract.
- 20.3 The obligation of a party under GCC Sub-Clauses 20.1 and 20.2 above, however, shall not apply to information that:
- (a) the Purchaser or Supplier need to share with the purchaser or other institutions participating in the financing of the Contract;
 - (b) now or hereafter enters the public domain through no fault of that party;
 - (c) can be proven to have been possessed by that party at the time of disclosure and which was not previously obtained, directly or indirectly, from the other party; or
 - (d) otherwise lawfully becomes available to that party from a third party that has no obligation of confidentiality.
- 20.4 The above provisions of GCC Clause 20 shall not in any way modify any undertaking of confidentiality given by either of the parties hereto prior to the date of the Contract in respect of the Supply or any part thereof.
- 20.5 The provisions of GCC Clause 20 shall survive completion or termination, for whatever reason, of the Contract.

21. Subcontracting

The Supplier shall notify the Purchaser in writing of all subcontracts awarded under the Contract if not already specified in the Bid. Subcontracting shall in no event relieve the Supplier from any of its obligations, duties, responsibilities, or liability under the Contract.

- 21.1 Subcontracts shall comply with the provisions of GCC Clauses 3 and 7.

22. Specifications and Standards

22.1 Technical Specifications and Drawings

- (a) The Supplier shall ensure that the Goods comply with

the technical specifications and other provisions of the Contract.

- (b) The Supplier shall be entitled to disclaim responsibility for any design, data, drawing, specification or other document, or any modification thereof provided or designed by or on behalf of the Purchaser, by giving a notice of such disclaimer to the Purchaser.
- (c) The Goods supplied under this Contract shall conform to the standards mentioned in the Schedules to Bid and, when no applicable standard is mentioned, the standard shall be equivalent or superior to the official standards whose application is appropriate to the country of origin of the Goods.

22.2 Wherever references are made in the Contract to codes and standards in accordance with which it shall be executed, the edition or the revised version of such codes and standards shall be those specified in the Schedules to Bid. During Contract execution, any changes in any such codes and standards shall be applied only after approval by the Purchaser and shall be treated in accordance with GCC Clause 33.

23. Packing and Documents

- 23.1 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. During transit, the packing shall be sufficient to withstand, without limitation, rough handling and exposure to extreme temperatures, salt and precipitation, and open storage. Packing case size and weights shall take into consideration, where appropriate, the remoteness of the final destination of the Goods and the absence of heavy handling facilities at all points in transit.
- 23.2 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 the PCC, and in any other instructions ordered by the Purchaser.

24. Insurance

- 24.1 Unless otherwise specified in the PCC, the Goods supplied under the Contract shall be fully insured, in a freely convertible currency from an eligible country, against loss or damage incidental to manufacture or acquisition, transportation, storage, and delivery, in accordance with the

applicable Incoterms or in the manner specified in the PCC.

- 25. Transportation** 25.1 Unless otherwise specified in the PCC, obligations for transportation of the Goods shall be in accordance with the Incoterms specified in the Schedules A and B to Bid.
- 26. Inspections and Tests**
- 26.1 The Supplier shall at its own expense and at no cost to the Purchaser carry out all such tests and /or inspections of the Goods as are specified in the Schedules to Bid.
- 26.2 The inspections and tests may be conducted on the premises of the Supplier or its Subcontractor, at point of delivery, and/or at the final destination of the Goods, or in another place in the Purchaser's country as specified in the PCC. Subject to GCC Sub-Clause 26.3, if conducted on the premises of the Supplier or its Subcontractor, all reasonable facilities and assistance, including access to drawings and production data, shall be furnished to the inspectors at no charge to the Purchaser.
- 26.3 The Purchaser or its designated representative shall be entitled to attend the tests and/or inspections referred to in GCC Sub-Clause 26.2, provided that the Purchaser bear all of its own costs and expenses incurred in connection with such attendance including, but not limited to, all traveling and board and lodging expenses.
- 26.4 Whenever the Supplier is ready to carry out any such test and inspection, it shall give a reasonable advance notice, including the place and time, to the Purchaser. The Supplier shall obtain from any relevant third party or manufacturer any necessary permission or consent to enable the Purchaser or its designated representative to attend the test and/or inspection.
- 26.5 The Purchaser may require the Supplier to carry out any test and/or inspection not required by the Contract but deemed necessary to verify that the characteristics and performance of the Goods comply with the technical specifications, codes and standards under the Contract, provided that the Supplier's reasonable costs and expenses incurred in the carrying out of such test and/or inspection shall be added to the Contract Price. Further, if such test and/or inspection impedes the progress of manufacturing and/or the Supplier's performance of its other obligations under the Contract, due allowance will be made in respect of the Delivery Dates and Completion Dates and the other obligations so affected.
- 26.6 The Supplier shall provide the Purchaser with a report of the results of any such test and/or inspection.

- 26.7 The Purchaser may reject any Goods or any part thereof that fail to pass any test and/or inspection or do not conform to the specifications. The Supplier shall either rectify or replace such rejected Goods or parts thereof or make alterations necessary to meet the specifications at no cost to the Purchaser, and shall repeat the test and/or inspection, at no cost to the Purchaser, upon giving a notice pursuant to GCC Sub-Clause 26.4.
- 26.8 The Supplier agrees that neither the execution of a test and/or inspection of the Goods or any part thereof, nor the attendance by the Purchaser or its representative, nor the issue of any report pursuant to GCC Sub-Clause 26.6, shall release the Supplier from any warranties or other obligations under the Contract.
- 27. Liquidated Damages**
- 27.1 Except as provided under GCC Clause 32, if the Supplier fails to deliver any or all of the Goods within the period specified in the Contract, the Purchaser may without prejudice to all its other remedies under the Contract, deduct from the Contract Price, as liquidated damages, a sum equivalent to the percentage specified in the PCC of the Contract Price for each week or part thereof of delay until actual delivery or performance, up to a maximum deduction of the percentage specified in the PCC. Once the maximum is reached, the Purchaser may terminate the Contract pursuant to GCC Clause 35.
- 28. Warranty**
- 28.1 The Supplier warrants that all the Goods are new, unused, and of the most recent or current models, and that they incorporate all recent improvements in design and materials, unless provided otherwise in the Contract.
- 28.2 Subject to GCC Sub-Clause 22.1, the Supplier further warrants that the Goods shall be free from defects arising from any act or omission of the Supplier or arising from design, materials, and workmanship, under normal use in the conditions prevailing in the country of final destination.
- 28.3 Unless otherwise specified in the PCC, the warranty shall remain valid for twelve (12) months 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 PCC, or for eighteen (18) months after the date of shipment or loading in the country of origin, whichever period concludes earlier.
- 28.4 The Purchaser shall give Notice to the Supplier stating the nature of any such defects together with all available evidence

thereof, promptly following the discovery thereof. The Purchaser shall afford all reasonable opportunity for the Supplier to inspect such defects.

28.5 Upon receipt of such Notice, the Supplier shall, within the period specified in the PCC, expeditiously repair or replace the defective Goods or parts thereof, at no cost to the Purchaser.

28.6 If having been notified, the Supplier fails to remedy the defect within the period specified in the PCC, the Purchaser may proceed to take within a reasonable period such remedial action as may be necessary, at the Supplier's risk and expense and without prejudice to any other rights which the Purchaser may have against the Supplier under the Contract.

29. Patent Indemnity

29.1 The Supplier shall, subject to the Purchaser's compliance with GCC Sub-Clause 29.2, indemnify and hold harmless the Purchaser and its employees and officers from and against any and all suits, actions or administrative proceedings, claims, demands, losses, damages, costs, and expenses of any nature, including attorney's fees and expenses, which the Purchaser may suffer as a result of any infringement or alleged infringement of any patent, utility model, registered design, trademark, copyright, or other intellectual property right registered or otherwise existing at the date of the Contract by reason of:

- (a) the installation of the Goods by the Supplier or the use of the Goods in the country where the Site is located; and
- (b) the sale in any country of the products produced by the Goods.

Such indemnity shall not cover any use of the Goods or any part thereof other than for the purpose indicated by or to be reasonably inferred from the Contract, neither any infringement resulting from the use of the Goods or any part thereof, or any products produced thereby in association or combination with any other equipment, plant, or materials not supplied by the Supplier, pursuant to the Contract.

29.2 If any proceedings are brought or any claim is made against the Purchaser arising out of the matters referred to in GCC Sub-Clause 29.1, the Purchaser shall promptly give the

Supplier a notice thereof, and the Supplier may at its own expense and in the Purchaser's name conduct such proceedings or claim and any negotiations for the settlement of any such proceedings or claim.

29.3 If the Supplier fails to notify the Purchaser within twenty-eight (28) days after receipt of such notice that it intends to conduct any such proceedings or claim, then the Purchaser shall be free to conduct the same on its own behalf.

29.4 The Purchaser shall, at the Supplier's request, afford all available assistance to the Supplier in conducting such proceedings or claim, and shall be reimbursed by the Supplier for all reasonable expenses incurred in so doing.

29.5 The Purchaser shall indemnify and hold harmless the Supplier and its employees, officers, and Subcontractors from and against any and all suits, actions or administrative proceedings, claims, demands, losses, damages, costs, and expenses of any nature, including attorney's fees and expenses, which the Supplier may suffer as a result of any infringement or alleged infringement of any patent, utility model, registered design, trademark, copyright, or other intellectual property right registered or otherwise existing at the date of the Contract arising out of or in connection with any design, data, drawing, specification, or other documents or materials provided or designed by or on behalf of the Purchaser.

30. Limitation of Liability

30.1 Except in cases of gross negligence or willful misconduct :

- (a) neither party shall be liable to the other party 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 Purchaser; and
- (b) the aggregate liability of the Supplier to the Purchaser, whether under the Contract, in tort, or otherwise, shall not exceed the amount specified in the PCC, 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 Purchaser with respect to patent infringement.

31. Change in

31.1 Unless otherwise specified in the Contract, if after the date of

Laws and Regulations

the Invitation for Bids, any law, regulation, ordinance, order or bylaw having the force of law is enacted, promulgated, abrogated, or changed in the place of the Purchaser's country where the Site is located (which shall be deemed to include any change in interpretation or application by the competent authorities) that subsequently affects the Delivery Date and/or the Contract Price, then such Delivery Date and/or Contract Price shall be correspondingly increased or decreased, to the extent that the Supplier has thereby been affected in the performance of any of its obligations under the Contract. Notwithstanding the foregoing, such additional or reduced cost shall not be separately paid or credited if the same has already been accounted for in the price adjustment provisions where applicable, in accordance with GCC Clause 15.

32. Force Majeure

- 32.1 The Supplier shall not be liable for forfeiture of its Performance Security, liquidated damages, or termination for default if and to the extent that its delay in performance or other failure to perform its obligations under the Contract is the result of an event of Force Majeure.
- 32.2 For purposes of this Clause, "Force Majeure" means an event or situation beyond the control of the Supplier that is not foreseeable, is unavoidable, and its origin is not due to negligence or lack of care on the part of the Supplier. Such events may include, but not be limited to, acts of the Purchaser in its sovereign capacity, wars or revolutions, fires, floods, epidemics, quarantine restrictions, and freight embargoes.
- 32.3 If a Force Majeure situation arises, the Supplier shall promptly notify the Purchaser in writing of such condition and the cause thereof. Unless otherwise directed by the Purchaser in writing, 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.

33. Change Orders and Contract Amendments

- 33.1 The Purchaser may at any time order the Supplier through Notice in accordance GCC Clause 8, to 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 Purchaser;
 - (b) the method of shipment or packing;

- (c) the place of delivery; and
- (d) Any other

33.2 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 in the Delivery and Completion Schedule, or both, and the Contract shall accordingly be amended. Any claims by the Supplier for adjustment under this Clause must be asserted within twenty-eight (28) days from the date of the Supplier's receipt of the Purchaser's change order.

34. Extensions of Time

- 34.1 If at any time during performance of the Contract, the Supplier or its Subcontractors should encounter conditions impeding timely delivery of the Goods pursuant to GCC Clause 12, the Supplier shall promptly notify the Purchaser in writing of the delay, its likely duration, and its cause. As soon as practicable after receipt of the Supplier's notice, the Purchaser shall evaluate the situation and may at its discretion extend the Supplier's time for performance, in which case the extension shall be ratified by the parties by amendment of the Contract.
- 34.2 Except in case of Force Majeure, as provided under GCC Clause 32, a delay by the Supplier in the performance of its Delivery and Completion obligations shall render the Supplier liable to the imposition of liquidated damages pursuant to GCC Clause 27, unless an extension of time is agreed upon, pursuant to GCC Sub-Clause 34.1.

35. Termination

35.1 Termination for Default

- (a) The Purchaser, without prejudice to any other remedy for breach of Contract, by Notice of default sent to the Supplier, may terminate the Contract in whole or in part:
 - (i) if the Supplier fails to deliver any or all of the Goods within the period specified in the Contract, or within any extension thereof granted by the Purchaser pursuant to GCC Clause 34; or
 - (ii) if the Supplier fails to perform any other obligation under the Contract.
- (b) In the event the Purchaser terminates the Contract in whole or in part, pursuant to GCC Clause 35.1(a), the Purchaser may procure, upon such terms and in such manner as it deems appropriate, Goods or Related

Services similar to those undelivered or not performed, and the Supplier shall be liable to the Purchaser for any additional costs for such similar Goods. However, the Supplier shall continue performance of the Contract to the extent not terminated.

- (c) if the Supplier, in the judgment of the Purchaser has engaged in corrupt and fraudulent practices, as defined in GCC Clause 3, in competing for or in executing the Contract.

35.2 Termination for Insolvency

The Purchaser may at any time terminate the Contract by giving Notice to the Supplier if the Supplier becomes bankrupt or otherwise insolvent. In such event, termination will be without compensation to the Supplier, provided that such termination will not prejudice or affect any right of action or remedy that has accrued or will accrue thereafter to the Purchaser.

35.3 Termination for Convenience

- (a) The Purchaser, by 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 Purchaser's convenience, the extent to which performance of the Supplier under the Contract is terminated, and the date upon which such termination becomes effective.
- (b) The Goods that are complete and ready for shipment within twenty-eight (28) days after the Supplier's receipt of the Notice of termination shall be accepted by the Purchaser at the Contract terms and prices. For the remaining Goods, the Purchaser may elect:
 - (i) To have any portion completed and delivered at the Contract terms and prices; and/or
 - (ii) to cancel the remainder and pay to the Supplier an agreed amount for partially completed Goods and for materials and parts previously procured by the Supplier.

36. Assignment

- 36.1 The Supplier shall not assign, in whole or in part, its obligations under this Contract, except with prior written consent of the Purchaser.

Particular Conditions of Contract

Particular Conditions of Contract

The following Particular Conditions of Contract (PCC) shall supplement the General Conditions of Contract (GCC). Whenever there is a conflict, the provisions herein shall prevail over those in the GCC.

GCC Sub Clause 1.1(j)

The Purchaser's country is the Islamic Republic of Pakistan.

GCC Sub Clause 1.1(k)

The Purchaser is: *Water & Power Department, Gilgit-Baltistan*

GCC Sub Clause 1.1 (q)

The Site is: *All Districts of Gilgit-Baltistan.*

GCC Sub Clause 4.2 (b)

The version of Incoterms shall be that prevailing on the date of Invitation for Bids.

GCC Sub Clause 5.1

The language shall be *English*

GCC Sub Clause 7.1 and 7.2

The procurement is based on National Competitive Bidding.

GCC Sub Clause 8.1

For **notices**, the Purchaser's address shall be:

Attention: *Executive Engineer GBHEW Division, Gilgit.*

Address: *Executive Engineer* _____ *(Concerned Executive Engineer)*

City: _____ *(All District Headquarters of GB)*

Country: *Pakistan*

Telephone: 05811-920437

[Addresses of the Supplier shall be entered before signing the Contract]

GCC Sub Clause 9.1

The governing law shall be the Law of the Islamic Republic of Pakistan.

GCC Sub Clause 10.2

The formal mechanism for the resolution of disputes shall be as follows:

- a. The rights and obligations of the Parties under or pursuant to these Conditions shall be governed and construed according to the Law of Islamic Republic of Pakistan.
- b. The dispute shall be referred to arbitration and finally settled in Pakistan in accordance with the Pakistan Arbitration Act, 1940, and any amendment or substitution thereof. If the Parties cannot agree to the appointment of a sole arbitrator each Party shall appoint an arbitrator and the arbitrators shall, before entering upon the reference, jointly appoint an

umpire. The decision of the arbitrator(s) shall be final and shall not be challenged or assailed in any court on any ground whatsoever.

GCC Sub Clause 11.1

The scope of Goods Supply is described in Schedule-D to Bid.

GCC Sub Clause 12.1

Details of shipping and other documents to be furnished by the Supplier shall be:

Suppliers Invoice

GCC Sub Clause 16.1

The terms of payment shall be:

- i. The payments shall be made on a work-done basis, evidenced by the invoicing submitted by the supplier, subject to the availability of funds.*
- ii. The goods shall be supplied within a maximum of Seven (07) days after issuance of the Purchase Order (PO). Depending upon the nature and urgency of the supply, the Executive Engineer (concerned) shall determine the actual delivery schedule.*
- iii. The taxation procedure shall be governed by the relevant laws of GoGB.*
- iv. No price Adjustment shall be admissible.*

GCC Sub Clause 16.4

The currencies for payments shall be: Pak Rs.

GCC Sub Clause 18.1

The Supplier shall provide a Performance Security of 2.0 million. The Performance Security shall be denominated in the following amounts and currencies: ***Unconditional on Demand Bank Guarantee on Standard Form amounting to 2.0 million from a Scheduled Bank of Pakistan.***

GCC Sub Clause 18.3

The Supplier shall provide a Performance Security in the prescribed Form annexed to these Documents in the form of Bank Guarantee from any Scheduled Bank in Pakistan.

The cost of complying with the requirements of this Sub-Clause shall be borne by the Contractor.

GCC Sub Clause 18.4

Discharge of Performance Security shall take place: ***As per GCC Sub-Clause 18.4.***

GCC Sub Clause 23.2

The packing, marking and documentation within and outside the packages shall be: ***As per GCC Sub Clause 23.2***

GCC Sub Clause 24.1

The insurance coverage shall be in accordance with: *The supplier may insure the quantities to be supplied under the Contract.*

GCC Sub Clause 25.1

Obligations for transportation of the Goods shall be in accordance with:

The rated quoted by the Suppliers for the items specified in the Schedule-D shall include the price of transportation.

GCC Sub Clause 26.2

Tests and Inspections specified in Schedule F to Bid, shall be carried out at the following times or milestones, and places : *The Executive Engineer concerned may require to undertake the testing and inspection of any item/items from GBHEW Division by paying the Fee as notified from time to time.*

GCC Sub Clause 27.1

The liquidated damage shall be: 0.35% per week or part thereof of the Purchase Order (PO) amount.

GCC Sub Clause 27.1

The maximum amount of liquidated damages shall be: *Rs.2.00 million as per the procedure to be defined by the Supplier.*

GCC Sub Clause 28.3

The period of validity of the Warranty shall be: *3 months from date of delivery.*

GCC Sub Clause 28.5

The Supplier shall correct any defects covered by the Warranty within: *Seven (07) days of being notified by the Purchaser of the occurrence of such defects.*

GCC Sub Clause 30.1

The amount of aggregate liability shall be: *Rs.20.00 million.*

GCC Sub Clause 33.1 (d)

The existing content is deleted and following is added:

“The Purchaser may issue the purchase order (PO) for the items mentioned in the Schedule of the Contract, as per his requirement at any time during the Contract period up to any limit within the sanctioned budget, and the Supplier shall raise no object concerning the quantity, against which the PO is being issued.”

**SPECIFICATIONS-
SPECIAL PROVISIONS**

SPECIFICATIONS- TECHNICAL PROVISIONS

- WAPDA/Local specifications apply for LOT # 2,4,7,10,11 & 12. The sources for these lots will be WAPDA-approved manufacturers.
- Detailed specifications have been prepared for LOT # 1,3,5,6,8 & 9. Sample International & Chinese manufacturers and models have been provided. Relevant International and Chinese standards have been mentioned against each item, however, the bidders may also choose to supply equivalent Pakistani and/or Chinese standards as per their choice.

LOT#1**Instrumentation**

S#	Name of Item	Relevant International Standard	Relevant Chinese Standard	International Manufacturer with Model	Chinese Manufacturer with Model	Complete Technical Specs
1	Supply of PT 11000 / 110V	IEC 61869-3	GB 20840.3	Siemens PT Model SIE-11000/110V	TBEA Shenyang Transformer Model TB-11000/110V	Voltage: 11000/110V, Phase: Single, Accuracy Class: 0.5, Usage: Measurement, Monitoring
2	Supply of HT CT 1000 / 5 Amp	IEC 61869-2	GB 20840.2	ABB CT Model ABB-1000/5	CHINT Electric CT Model CH-1000/5	Current Ratio: 1000/5A, Accuracy: Class 0.5S, Rated Short-time Thermal Current: 20kA, Rated Dynamic Current: 50kA
3	Supply of HT CT 800 / 5 Amp	IEC 61869-2	GB 20840.2	Schneider Electric Model SE-800/5	CHINT Electric Model CH-800/5	Current Ratio: 800/5A, Accuracy: Class 0.5, Rated Dynamic Current: 40kA
4	Supply of HT CT 600 / 5 Amp	IEC 61869-2	GB 20840.2	General Electric Model GE-600/5	TBEA Model TB-600/5	Current Ratio: 600/5A, Accuracy: Class 0.5, Application: Power System Monitoring
5	Supply of HT CT 400 / 5 Amp	IEC 61869-2	GB 20840.2	Siemens Model SI-400/5	Huadian Model HU-400/5	Current Ratio: 400/5A, Accuracy: Class 0.5, Usage: Electrical Safety & Measurement
6	Supply of HT CT 200 / 5 Amp	IEC 61869-2	GB 20840.2	ABB Model ABB-200/5	State Grid Model SG-200/5	Current Ratio: 200/5A, Accuracy: Class 0.5, Designed for: Industrial Applications
7	Supply of HT CT 100 / 5 Amp	IEC 61869-2	GB 20840.2	Eaton Model ET-100/5	Changgao Group Model CG-100/5	Current Ratio: 100/5A, Accuracy: Class 0.5, Feature: High Durability

8	Supply of HT CT 50 / 5 Amp	IEC 61869-2	GB 20840.2	Mitsubishi Electric Model ME-50/5	Sifang Model SF-50/5	Current Ratio: 50/5A, Accuracy: Class 0.5, Use Case: Commercial Power Management
9	Pressure Meters Analog (APS)	IEC 61010	GB/T 7665	Honeywell Model HON-PA100	Shanghai Automation Model SA-100A	Measurement Range: 0-10 bar, Accuracy: ±1%, Environment: Industrial, Outdoor
10	Synchronization Meter MZ-10-100	IEC 60255	GB 14287.2	Omron Model OMR-SYNC100	Nanjing Automaton Model NA-100S	Voltage: 110V, Frequency Range: 45-55 Hz, Accuracy: Class 0.5, Application: Grid Sync
11	Reactive Power Meter 46DI-VER-500A/5A	IEC 62053	GB/T 17215.301	Schneider Electric Model SE-RP500	Sifang Model SF-RP500	Current: 500A, Voltage: 10.5KV, Reactive Power Range: 0-8MVAR, Accuracy: Class 1.0
12	Reactive Power Meter 46DI-W,300A/5A	IEC 62053	GB/T 17215.301	General Electric Model GE-RP300	CHINT Electric Model CH-RP300	Current: 300A, Voltage: 66kV, Power Range: 0-30MVAR, Usage: Power Quality Analysis
13	Reactive Power Meter 46DI-VER-1000A/5A	IEC 62053	GB/T 17215.301	ABB Model ABB-RP1000	TBEA Model TB-RP1000	Current: 1000A, Voltage: 10.5KV, Power: 0-15MVAR, Accuracy: Class 0.5, Features: High Precision
14	Ammeter 46L2-A500/5A	IEC 61010	GB/T 7676	Siemens Model SI-A500	Huadian Model HU-A500	Current Range: 0-500A, Accuracy: Class 1.0, Application: Industrial Monitoring
15	Frequency Meter 46L2-HZ, 10.5/0.1kv,45-55Hz	IEC 61000	GB/T 14598	Fluke Model FLK-FM455	Jiangsu Linyang Model JL-FM455	Voltage: 10.5kV, Frequency: 45-55 Hz, Accuracy: ±0.1 Hz, Use: Frequency Monitoring in Power Grids

16	Voltmeter DC, 0-250 V	IEC 61010	GB/T 7676	Tektronix Model TEK-DC250V	Sifang Model SF- DC250V	Voltage Range: 0- 250V, Application: DC Systems, Accuracy: Class 1.0
17	Ammeter DC,46C2-A 75MV, 500/5A,0-500 A	IEC 61010	GB/T 7676	Amprobe Model AMP-DC500A	Changgao Group Model CG- DC500A	Current Range: 0-500A, MV Drop: 75MV, Usage: High Current Applications
18	Voltmeter46I2-V,10.5KV/100V,0-12 KV	IEC 61010	GB/T 311.1	Keysight Model KEY-HV12KV	TBEA Model TB- HV12KV	Voltage: 0-12KV, High Voltage Measurement, Accuracy: Class 0.5, Application: Substation Monitoring
19	Ampere meter 46L2-A,1000/5A,0- 0.1KA	IEC 61010	GB/T 7676	Schneider Electric Model SE-A1000/5	Sifang Model SF- A1000/5	Current: 0-1000A, Accuracy: Class 0.5, Feature: Low Current Sensitivity
20	Ampere meter 46L2-A,300/5A,0- 300A	IEC 61010	GB/T 7676	ABB Model ABB- A300/5	Huadian Model HU-A300/5	Current: 0-300A, Usage: General Industrial, Accuracy: Class 1.0
21	Voltmeter 46L2-V,66kv/100V,0- 80kv	IEC 60060	GB/T 311.1	Megger Model MGR-80KV	NARI Group Model NG-80KV	Voltage: 0-80KV, Purpose: High Voltage Testing, Accuracy: Class 0.5
22	Voltmeter 46L2-V,0-450V	IEC 61010	GB/T 7676	Agilent Model AG- 450V	Chint Group Model CG-450V	Voltage Range: 0- 450V, Usage: General Purpose, Accuracy: Class 1.0
23	Active Power Meter 46DI- 00A/5A,10.5kv/100V,0~8MW	IEC 62053	GB/T 17215.301	General Electric Model GE-APM8MW	Haefely Model HF-APM8MW	Power Range: 0-8MW, Voltage: 10.5KV, Accuracy: Class 0.2, Application: Power Management
24	Active Power Meter 46DI- W,1000A/5A,10.5kv/100V,0~15MW	IEC 62053	GB/T 17215.301	Siemens Model SI- APM15MW	State Grid Model SG-APM15MW	Power: 0-15MW, Current: 1000A/5A, Usage: Power Grid Monitoring, Accuracy: Class 0.2

25	Active Power Meter 46DI-W,300A/5A,66kv/100V,0~30MW	IEC 62053	GB/T 17215.301	Schneider Electric Model SE-APM30MW	TBEA Model TB-APM30MW	Power: 0-30MW, Voltage: 66KV, High Capacity Power Monitoring, Accuracy: Class 0.2
26	Frequency Meter Digital	IEC 61000	GB/T 14598	Fluke Model FLK-FREQ-D	Jiangsu Linyang Model JL-FREQ-D	Frequency Range: 45-55 Hz, Digital Display, Accuracy: ± 0.01 Hz, High Precision
27	Frequency Meter Analog	IEC 61000	GB/T 14598	Yokogawa Model YOK-FREQ-A	Nanjing Automaton Model NA-FREQ-A	Frequency Range: 40-60 Hz, Analog Display, Accuracy: ± 0.1 Hz, Industrial Use
28	Voltmeter (APS)	IEC 61010	GB/T 7676	B&K Precision Model BK-APS-V	Chint Group Model CG-APS-V	Voltage Range: 0-600V, Application: Automation Systems, Accuracy: Class 1.0
29	Ampere Meter (APS)	IEC 61010	GB/T 7676	HIOKI Model HIO-APS-A	Shanghai Electric Model SE-APS-A	Current Range: 0-100A, Usage: Control Systems, Accuracy: Class 1.0
30	KiloWatt Meters (APS)	IEC 62053	GB/T 17215.301	ABB Model ABB-KW-APS	Sifang Model SF-KW-APS	Power Measurement: 0-1000 kW, Usage: Power Distribution, Accuracy: Class 0.5
31	Temperature Meter (APS)	IEC 60751	GB/T 16839	Omega Engineering Model OME-TEMP-APS	Xinling Electric Model XL-TEMP-APS	Temperature Range: -50 to 150°C, Usage: Industrial Monitoring, Accuracy: $\pm 0.5^\circ\text{C}$
32	Oil Pressure Meter	IEC 60904	GB/T 1226	WIKA Model WIKA-OPM-100	Changzhou Instrument Model CZ-OPM-100	Pressure Range: 0-500 psi, Application: Hydraulic Systems, Accuracy: Class 1.0
33	Synchronizing Meter Digital	IEC 60255	GB/T 14598	Siemens Model SI-SYNC-D	NARI Technology Model NT-SYNC-D	Voltage: 110V, Frequency: 50 Hz, Application: Grid Synchronization, Accuracy: $\pm 1\%$

34	Penstock Pressure Meter 6 MPA	IEC 60034	GB/T 191	Danfoss Model DAN-PEN-6MPA	Huadian Model HU-PEN-6MPA	Pressure: 6 MPA, Usage: Water Management, Accuracy: Class 1.0
35	Power Factor Meter	IEC 61000	GB/T 14598	Schneider Electric Model SE-PFM-100	TBEA Model TB-PFM-100	Power Factor Range: 0.5 to 1, Usage: Energy Efficiency, Accuracy: Class 2.0
36	Potentiometer WX703-21 22K ohm	IEC 60904	GB/T 148	Vishay Model VSH-WX703-21	Sifang Model SF-WX703-21	Resistance: 22K ohm, Application: Variable Resistance, Tolerance: $\pm 10\%$
37	Potentiometer RHM 0120 MR 011 A034-22 MA 20-4 MA	IEC 60904	GB/T 148	Honeywell Model HON-RHM0120	Jiangsu Linyang Model JL-RHM0120	Current: 20-4 mA, Resistance: 22K ohm, Usage: Calibration, Accuracy: $\pm 0.1\%$
38	Potentiometer (APS)	IEC 60904	GB/T 148	Bourns Model BNS-APS-100	Chint Group Model CG-APS-100	Resistance Range: 0-10K ohm, Application: Sensing Devices, Tolerance: $\pm 5\%$
39	Thermometer 0-1000	ASTM E2877	GB/T 18833	Fluke Model FLK-T1000	Shanghai Automation Model SA-T1000	Temperature Range: 0-1000°C, Usage: High-Temperature Monitoring, Accuracy: $\pm 2^\circ\text{C}$
40	Pressure gauge for cooling Pipe DWM2000/0/0/C/2/2	ASTM B837	GB/T 1226	Ashcroft Model ASH-DWM2000	Nanjing Automaton Model NA-DWM2000	Pressure: 0-200 psi, Application: Cooling Systems, Accuracy: Class 1.5
41	Oil Pressure Gauge YXK-150	IEC 61243	GB/T 1226	Parker Model PKR-OPG-150	Huadian Model HU-OPG-150	Pressure Range: 0-150 psi, Application: Oil Systems, Accuracy: $\pm 1.5\%$
42	Pressure Gauge YXC-100	IEC 61243	GB/T 1226	Omega Model OME-PG-100	Xinling Model XL-PG-100	Pressure: 0-100 psi, Usage: Gas Systems, Accuracy: $\pm 1.0\%$
43	Oil Level Indicator for Pressure UHZ-54	ASTM D1505	GB/T 1226	WIKA Model WIKA-OLI-54	Sifang Model SF-OLI-54	Level Measurement, for Oil, Visibility: 54 cm, Application: Tank

						Monitoring
44	Generator Temperature Sensor	IEC 60751	GB/T 16839	Honeywell Model HON-GTS-500	Jiangsu Linyang Model JL-GTS-500	Temperature Range: -50 to 500°C, Usage: Generator Cores, Accuracy: ±0.5°C
45	Governor Sensor 0-150 mm	IEC 62841	GB/T 1231	Siemens Model SI-GOV-150	Changgao Group Model CG-GOV-150	Measurement Range: 0-150 mm, Application: Speed Control, Accuracy: ±0.1 mm
46	Sensor of Resistance 5k ohm	IEC 60751	GB/T 16839	Vishay Model VSH-RES-5K	NARI Group Model NG-RES-5K	Resistance: 5k ohm, Usage: Electrical Load, Accuracy: ±1%
47	Bearing Temperature Sensor/gauge	ASTM E230	GB/T 16839	SKF Model SKF-BTS-120	TBEA Model TB-BTS-120	Temperature Range: -20 to 120°C, Application: Bearing Monitoring, Accuracy: ±2°C
48	RPM Meter	IEC 60027	GB/T 1231	Bosch Model BOS-RPM-8000	Chint Group Model CG-RPM-8000	RPM Range: 0-8000, Usage: Engine Speed, Display: Digital, Accuracy: ±0.1 RPM
49	CT Operated Energy Meter	IEC 62053	GB/T 17215.301	ABB Model ABB-CEM-1000	Sifang Model SF-CEM-1000	Current: 1000A/5A, Voltage: 110V, Energy Measurement, Accuracy: Class 0.5
50	Isolation Transformer	IEC 60076	GB 1094.1	Schneider Electric Model SE-IT-500	Huapeng Transformer Model HP-IT-500	Power: 500 kVA, Voltage: 10kV/400V, Usage: Power Isolation, Efficiency: 98%
51	Shunt Coil 110 V	IEC 60947	GB/T 14048.1	Siemens Model SI-SC-110	Shanghai Electric Model SE-SC-110	Voltage: 110V, Application: Electrical Shunts, Features: High Durability, Low Resistance
52	PT JDCF-72.5T, AWZ66	IEC 61869-3	GB 20840.3	ABB Model ABB-PT-JDCF	TBEA Model TB-PT-JDCF	Voltage: 72.5kV, Accuracy: Class 0.5, Usage: Voltage Measurement in

Substations						
53	PT KYM 85-1210	IEC 61869-3	GB 20840.3	GE Power Model GE-PT-KYM	CHINT Model CH- PT-KYM	Voltage: 1210kV, Type: Electromagnetic, Application: High Voltage, Accuracy: Class 0.2
54	PTs 11kV/110V	IEC 61869-3	GB 20840.3	Schneider Electric Model SE-PT-1110	Sifang Model SF- PT-1110	Voltage Ratio: 11kV/110V, Usage: Power Distribution, Accuracy: Class 0.5
55	PTs 400V/110V	IEC 61869-3	GB 20840.3	Omega Engineering Model OME-PT- 4110	Nanjing Automaton Model NA-PT-4110	Voltage Ratio: 400V/110V, Application: Industrial Automation, Accuracy: Class 1.0
56	PTs 400V/100V	IEC 61869-3	GB 20840.3	Yokogawa Model YOK-PT-4100	Jiangsu Linyang Model JL-PT-4100	Voltage Ratio: 400V/100V, Features: Compact Design, Accuracy: Class 0.5
57	PT 33KV, 1.73(1110 V) Single Phase	IEC 61869-3	GB 20840.3	Mitsubishi Model MIT-PT-331110	Huadian Model HU-PT-331110	Voltage: 33KV, Single Phase, Accuracy: Class 0.2, Application: Utility Networks
58	PT 6300/100 V	IEC 61869-3	GB 20840.3	Siemens Model SI- PT-6300100	Changgao Group Model CG-PT- 6300100	Voltage: 6300V/100V, Usage: Transformer Monitoring, Accuracy: Class 0.5
59	CT 2000/5A	IEC 61869-2	GB 20840.2	ABB Model ABB-CT- 20005	Sifang Model SF- CT-20005	Current Ratio: 2000/5A, Application: Power Transmission, Accuracy: Class 0.5
60	CT 1000/5A	IEC 61869-2	GB 20840.2	General Electric Model GE-CT-10005	TBEA Model TB- CT-10005	Current Ratio: 1000/5A, Features: High Sensitivity, Application: Power Management

61	CT 800/5A	IEC 61869-2	GB 20840.2	Schneider Electric Model SE-CT-8005	CHINT Model CH- CT-8005	Current Ratio: 800/5A, Application: Power Measurement, Accuracy: Class 0.5
62	CT 600/5A	IEC 61869-2	GB 20840.2	Eaton Model EAT- CT-6005	Sifang Model SF- CT-6005	Current Ratio: 600/5A, Usage: Commercial Buildings, Accuracy: Class 1.0
63	CT 500/5A	IEC 61869-2	GB 20840.2	ABB Model ABB-CT- 5005	Jiangsu Linyang Model JL-CT-5005	Current Ratio: 500/5A, Features: High Stability, Application: Industrial Facilities
64	CT 400/5A	IEC 61869-2	GB 20840.2	Siemens Model SI- CT-4005	TBEA Model TB- CT-4005	Current Ratio: 400/5A, Accuracy: Class 0.5, Suitable for: Renewable Energy Systems
65	CT 300/5A	IEC 61869-2	GB 20840.2	General Electric Model GE-CT-3005	Changgao Group Model CG-CT- 3005	Current Ratio: 300/5A, Usage: Grid Monitoring, Accuracy: Class 0.5
66	CT 200/5A	IEC 61869-2	GB 20840.2	Honeywell Model HON-CT-2005	Nanjing Automaton Model NA-CT-2005	Current Ratio: 200/5A, Application: Utility Sectors, Accuracy: Class 0.5
67	CT 100/5A (11KV)	IEC 61869-2	GB 20840.2	Fluke Model FLK- CT-1005	Sifang Model SF- CT-1005	Current Ratio: 100/5A, Voltage: 11KV, Use: Substation Metering, Accuracy: Class 0.5
68	CT 150/5A	IEC 61869-2	GB 20840.2	Omron Model OMR- CT-1505	Huadian Model HU-CT-1505	Current Ratio: 150/5A, Application: Load Measurement, Accuracy: Class 1.0
69	CT 33KV, 175/1/1A, Single Phase	IEC 61869-2	GB 20840.2	Yokogawa Model YOK-CT-33175	NARI Group Model NG-CT- 33175	Voltage: 33KV, Current Ratio: 175/1/1A, Usage: High Voltage Monitoring, Accuracy: Class 0.5

70	White Indicator AD11-22/21V DC 220V (BD)/41BD	IEC 60947	GB 14048.5	Schneider Electric Model SE-WI-220VBD	Chint Group Model CG-WI-220VBD	Voltage: 220V, Type: LED Indicator, Color: White, Application: Panel Board Indication
71	White Indicator AD11-22/21V DC 220V Red13, Green 13	IEC 60947	GB 14048.5	Allen-Bradley Model AB-WI-220VG	Sifang Model SF-WI-220VG	Voltage: 220V, Type: LED Indicator, Colors: Red, Green, Application: Status Indication
72	Indicator Red, yellow9aps0	IEC 60947	GB 14048.5	Siemens Model SI-IND-RY	CHINT Model CH-IND-RY	Dual Color Indicator: Red, Yellow, Voltage: 220V, Usage: Warning Systems
73	Bearing Temperature Sensor	ASTM E230	GB/T 16839	SKF Model SKF-BTS-350	Jiangsu Linyang Model JL-BTS-350	Temperature Range: -20 to 350°C, Application: Bearing Monitoring, Accuracy: ±2°C
74	Shear pin Sensor	IEC 62020	GB/T 14598	Honeywell Model HON-SPS-100	NARI Group Model NG-SPS-100	Shear Pin Type, Load Detection Range: up to 1000 kg, Accuracy: ±1%, Application: Machinery Safety
75	Tarpaulin	ASTM D4157	GB/T 2410	3M Model 3M-TAR-500	Shanghai Textile Model ST-TAR-500	Material: PVC Coated Fabric, Waterproof, UV Resistant, Dimensions: 10m x 10m, Application: Protective Covering

LOT # 3**Adhesives, Paints, Varnishes and Misc**

S.#	Description of Item	Unit	Relevant International Standard	Relevant Chinese Standard	International Manufacturer with Model	Chinese Manufacturer with Model	Complete Technical Specs
1	Leather Gloves	P/pair	ASTM D120	GB 12011-2009	3M Model 3M-LG-PRO	Haika Model HK-LG-SAF	Material: Cowhide, Use: Handling/Protection
2	Rubber Insulation Gloves	P/pair	IEC 60903	GB 17622-2008	Ansell Model ANS-EL-INS	Zhengzhou Zomag Model ZZ-RIG	Class: 0-4 (up to 36,000 Volts), Length: 360mm
3	Insulating Working Shoes	PPE	ASTM F2413	GB 21148-2007	Caterpillar Model CAT-SAF	Safety Jogger Model SJ-PRO	Feature: Electrical Resistance, Toe Protection
4	Bronex Anti Rust Turbo Spray	P/bottle	ASTM B117	GB/T 10125-2012	WD-40 Model WD-AR-300	Baufix Model BX-AR-500	Application: Metal Surfaces, Quick-dry, Water-displacing
5	Lock Varnish (400 mg)	P/set	ASTM D5363	GB/T 3098.6-2000	Loctite Model LT-222	Delo Model DE-LOCK-500	Type: Anaerobic, Use: Securing Bolts and Screws
6	German White Glue	P/kg	EN 204	GB/T 14074-2017	Titebond Model TB-WG-500	Deli Group Model DL-GG-800	Type: PVA, Use: Wood, Paper, Fabric
7	Woven Cleaning Cloth	P/kg	ASTM E1617	GB/T 24117-2009	Scotch-Brite Model SB-WC-100	Tenma Model TM-CLTH	Material: Microfiber, Feature: Lint-free, Absorbent
8	Elfi (Adhesive)	Each	ASTM D4501	GB/T 7124-2008	Gorilla Glue Model GG-ELF-50	Pagoda Model PG-ADH-75	Type: Cyanoacrylate, Setting Time: 10-30 Seconds

9	Thinner	P/liter	ASTM D740	GB/T 23985-2009	Rust-Oleum Model RU-TH-1L	Daxiang Model DX-TN-500	Use: Paint, Varnish Thinning, Base: Solvent
10	Working Dangries - Shirt and Trouser	P/pair	ISO 13688	GB/T 2664-2009	Carhartt Model CA-WDU	Li-Ning Model LN-WORK	Sizes: S-XXL, Material: Polyester-Cotton, Durability: High
11	Insulation Tape	Each	IEC 60454	GB/T 20688	3M Model 3M-IT-35	Dongfang Model DF-IT-88	Type: PVC, Use: Electrical Insulation, Width: 19mm, Thickness: 0.18mm
12	Heating Element 2000 W	Each	IEC 60335	GB 4706.1	Watlow Model WL-HE-2000	Shanghai SICC Model SS-HE-20K	Power: 2000 Watts, Voltage: 240V, Application: Water Heating
13	Hard Board Lasani Sheet 8' x 4' x 10mm	P.Sheet	ISO 12466	GB/T 4897	Masonite Model MA-HBL-84010	Shandong Mason Model SD-HBL-8410	Dimensions: 8ft x 4ft, Thickness: 10mm, Type: MDF, Application: Furniture, Construction
14	Oxygen Cylinder for Oil Bearings and Thrust Pads	Gases	ISO 9809-1	GB 5099	Linde Model LN-OXY-50L	Tianjin Steel Model TS-OXY-50	Capacity: 50 Liters, Pressure: 150 bar, Material: Steel, Use: Industrial Gas Storage
15	LPG Gas for Oil Bearings and Thrust Pads	p/lbs	ISO 22991	GB 5842	Shell Model SH-LPG-50	Sinopec Model SP-LPG-50	Type: Propane/Butane Mix, Container: 50L Cylinder, Application: Heating, Metal Working
16	Loctite No.3478 for Repair of Shafts and Turbine Cover	Each	ASTM D5363	GB/T 3098.6	Henkel Loctite Model HL-3478	Baiyun Chemical Model BY-LT-3478	Type: Epoxy Adhesive, Use: High Strength, High Temperature Repair
17	Loctite No.638 for Bushes of Turbine	Each	ASTM D5363	GB/T 3098.6	Permatex Model PX-638	Haichuang Model HC-638	Type: Retaining Compound, Strength: High, Setting Time: 10 min

18	Loctite No.518 for Surface Plates	Each	ASTM D5363	GB/T 3098.6	3M Model 3M-LT-518	Jiaxing Model JX-518	Type: Gasket Sealant, Use: Flange Sealing, Oil Resistance
19	Steel Putty for Covers Surface Fillings	Each	ASTM D257	GB/T 2423.17	J-B Weld Model JB-8267	Fixmaster Model FM-STEEL-PUT	Form: Epoxy Putty, Use: Surface Repair, Cure Time: 4-6 Hours
20	Grinding Mounted Stones Shank Dia 6mm	Each	ISO 525	GB/T 4127.1	Norton Abrasives Model NA-GMS-6	Zhejiang Blue Bird Model ZB-GMS-6	Diameter: 6mm, Use: Metal Grinding, Material: Aluminum Oxide
21	Flap Emery Polish Paper Wheels Dia 30mm	Each	ISO 6344	GB/T 4127.9	3M Model 3M-FEP-30	Dongguan Qiandao Model DQ-FEP-30	Diameter: 30mm, Use: Surface Finishing, Material: Emery Paper
22	Flap Emery Polish Paper Wheels Dia 50mm	Each	ISO 6344	GB/T 4127.9	Bosch Model BOS-FEP-50	Ningbo Dafa Model NB-FEP-50	Diameter: 50mm, Use: Polishing, Material: Emery Paper
23	Log Books	No.	ISO 216	GB/T 1988	Moleskine Model MO-LB-001	Deli Group Model DL-LB-001	Use: Record Keeping, Size: A4, Pages: 100
24	Attendance/Complaint Register	No.	ISO 217	GB/T 1988	Atoma Model AT-ACR-100	Jinan Mingshi Model JM-ACR-100	Use: Administrative Record, Size: A5, Pages: 200
25	Cotton Waste	Kg	ASTM D5034	GB/T 2828.1	Texas Cotton Model TX-CW-500	Qingdao Fibers Model QD-CW-500	Use: Cleaning, Absorbing, Material: Pure Cotton
26	Polythene Sheet	Roll	ASTM D2103	GB/T 6672	DuPont Model DP-PS-250	Zhejiang Yibai Model ZY-PS-250	Material: Polyethylene, Thickness: 0.5mm, Width: 2m, Length: 50m

LOT # 5**Control & Protective Devices**

S.#	Description of Item	Relevant International Standard	Relevant Chinese Standard	International Manufacturer with Model	Chinese Manufacturer with Model	Complete Technical Specs
1	Supply of Control Module intelcom pact Icom AP	IEC 62020	GB/T 14598	Schneider Electric Model SC-CM-AP	Tengen Model TG-CM-AP	Type: Control Module, Usage: Industrial Communication
2	Supply of Digital Speed Control Module (PROACT)	IEC 61000	GB/T 17626	Siemens Model SI-DSM-PRO	CHINT Model CH-DSM-PRO	Type: Speed Control, Usage: Motor Management, Specs: Digital Interface
3	Supply of Water Temperature Sensors	ASTM E2877	GB/T 18830	Honeywell Model HW-WTS	Baoji Instrument Model BJ-WTS	Type: Temperature Sensor, Range: -50°C to +150°C
4	Supply of Engine Pressure Sensor	ISO 15171-2	GB/T 3768	Bosch Model BS-EP-4000	Weichai Power Model WP-EP-4000	Type: Pressure Sensor, Range: 0 to 4000 psi, Application: Automotive
5	Supply of Solenoid Switches	IEC 60947	GB 14048.5	ABB Model ABB-SS-22	Delixi Model DX-SS-22	Type: Solenoid Switch, Voltage: 24VDC, Current: 10A

6	Supply of 11KV CT 600 / 5 Amp	IEC 61869-2	GB 20840.2	General Electric Model GE-11KVCT600	Sifang Model SF-11KVCT600	Type: Current Transformer, Ratio: 600/5, Class: 0.5S
7	Supply of Protection Relay	IEC 60255	GB/T 14287.2	Siemens Model SI-PR-7SJ	Changshu Switchgear Model CS-PR	Type: Protection Relay, Application: Overcurrent Protection
8	Supply of HRC Fuse for P.T	IEC 60269	GB 13539	Bussmann by Eaton Model BE-HRC	People Electric Model PE-HRC	Type: High Rupturing Capacity, Current: 10A, Voltage: 11kV
9	Supply of Numerical Protection Relay INT PA 620	IEC 60255	GB/T 14287.2	Schneider Electric Model SE-NPR620	TGOOD Model TG-NPR620	Type: Numerical Protection Relay, Specs: Multi-function Protection
10	Supply of High Voltage HRE Fuse	IEC 60269	GB 13539	ABB Model ABB-HVHRE	Henan Pinggao Electric Model HP-HVHRE	Type: High Voltage Fuse, Rating: 12kV, Breaking Capacity: 50kA
11	Supply of Vacuum Circuit Breaker	IEC 62271	GB 1984	Siemens Model SI-VCB-15KV	CHINT Model CH-VCB-15KV	Type: Vacuum, Rated Voltage: 15kV, Breaking Capacity: 31.5kA
12	Supply of Indoor HV AC Hand Cart 11kV	IEC 62271	GB 1984	ABB Model ABB-HVHC-11K	TGOOD Model TG-HVHC-11K	Type: High Voltage Handcart, Usage: Indoor Switchgear, 11kV

13	S/O MCB Make ABB 4 pole 35 Ampere	IEC 60898	GB 10963.1	ABB Model ABB-MCB- 4P35	Delixi Model DX-MCB- 4P35	Type: Miniature Circuit Breaker, Poles: 4, Rating: 35A
14	S/O MCB Make ABB 4 pole 25 Ampere	IEC 60898	GB 10963.1	ABB Model ABB-MCB- 4P25	Delixi Model DX-MCB- 4P25	Type: Miniature Circuit Breaker, Poles: 4, Rating: 25A
15	S/O MCB Make ABB 4 pole 16 Ampere	IEC 60898	GB 10963.1	ABB Model ABB-MCB- 4P16	Delixi Model DX-MCB- 4P16	Type: Miniature Circuit Breaker, Poles: 4, Rating: 16A
16	S/O MCB Make ABB 4 pole 10 Ampere	IEC 60898	GB 10963.1	ABB Model ABB-MCB- 4P10	Delixi Model DX-MCB- 4P10	Type: Miniature Circuit Breaker, Poles: 4, Rating: 10A
17	S/O MCB Make ABB 4 pole 6 Ampere	IEC 60898	GB 10963.1	ABB Model ABB-MCB- 4P6	Delixi Model DX-MCB-4P6	Type: Miniature Circuit Breaker, Poles: 4, Rating: 6A
18	S/O MCB Make ABB 4 pole 2 Ampere	IEC 60898	GB 10963.1	ABB Model ABB-MCB- 4P2	Delixi Model DX-MCB-4P2	Type: Miniature Circuit Breaker, Poles: 4, Rating: 2A
19	S/O MCB Make ABB 4 pole 65 Ampere	IEC 60898	GB 10963.1	ABB Model ABB-MCB- 4P65	Delixi Model DX-MCB- 4P65	Type: Miniature Circuit Breaker, Poles: 4, Rating: 65A
20	S/O MCB Make ABB 3 pole 35 Ampere	IEC 60898	GB 10963.1	ABB Model ABB-MCB- 3P35	Delixi Model DX-MCB- 3P35	Type: Miniature Circuit Breaker, Poles: 3, Rating: 35A
21	S/O MCB Make ABB 3 pole 25 Ampere	IEC 60898	GB 10963.1	ABB Model ABB-MCB- 3P25	Delixi Model DX-MCB- 3P25	Type: Miniature Circuit Breaker, Poles: 3, Rating: 25A
22	S/O MCB Make ABB 3 pole 16 Ampere	IEC 60898	GB 10963.1	ABB Model ABB-MCB- 3P16	Delixi Model DX-MCB- 3P16	Type: Miniature Circuit Breaker, Poles: 3, Rating: 16A

23	S/O MCB Make ABB 3 pole 10 Ampere	IEC 60898	GB 10963.1	ABB Model ABB-MCB-3P10	Delixi Model DX-MCB-3P10	Type: Miniature Circuit Breaker, Poles: 3, Rating: 10A
24	S/O MCB Make ABB 3 pole 6 Ampere	IEC 60898	GB 10963.1	ABB Model ABB-MCB-3P6	Delixi Model DX-MCB-3P6	Type: Miniature Circuit Breaker, Poles: 3, Rating: 6A
25	S/O MCB Make ABB 3 pole 2 Ampere	IEC 60898	GB 10963.1	ABB Model ABB-MCB-3P2	Delixi Model DX-MCB-3P2	Type: Miniature Circuit Breaker, Poles: 3, Rating: 2A
26	3 pole non-draw able air circuit breaker 400V, 1250Ampere	IEC 60947	GB 14048.2	Schneider Electric Model SE-ACB-1250	Chint Model CH-ACB-1250	Type: Air Circuit Breaker, Non-drawout, 1250A, 85kA Breaking Capacity
27	3 pole non-draw able air circuit breaker 400V, 800Ampere	IEC 60947	GB 14048.2	Schneider Electric Model SE-ACB-800	Chint Model CH-ACB-800	Type: Air Circuit Breaker, Non-drawout, 800A, 85kA Breaking Capacity
28	3 pole non-draw able air circuit breaker 400V, 2000Ampere	IEC 60947	GB 14048.2	Schneider Electric Model SE-ACB-2000	Chint Model CH-ACB-2000	Type: Air Circuit Breaker, Non-drawout, 2000A, 85kA Breaking Capacity
29	3 pole draw out air circuit breaker 2500Ampere, 660V	IEC 60947	GB 14048.2	Schneider Electric Model SE-ACB-2500D	Chint Model CH-ACB-2500D	Type: Air Circuit Breaker, Drawout, 2500A, 660V, 65kA Breaking Capacity

30	ACB 630 A, DW-15	IEC 60947	GB 14048.2	Eaton Model ETN-ACB-630A	Chint Model CH-ACB-630DW	Type: Air Circuit Breaker, 630A, Model: DW-15, Manual Operation
31	VCB i/c Trolley 11 KV, 630 A	IEC 62271	GB 1984	Siemens Model SI-VCB-11KV630	Changgao Model CG-VCB-11KV630	Type: Vacuum Circuit Breaker, Voltage: 11kV, Current: 630A, Includes Trolley
32	VCB Tripping Coil 11kV, 110 V	IEC 62271	GB 1984	ABB Model ABB-VTC-11kV	TGOOD Model TG-VTC-11kV	Type: Tripping Coil, Voltage: 110V, Use with 11kV VCB
33	VCB Tripping Coil 6.3 KV, 110 V	IEC 62271	GB 1984	Schneider Electric Model SE-VTC-6.3KV	Chint Model CH-VTC-6.3KV	Type: Tripping Coil, Voltage: 110V, Use with 6.3kV VCB
34	Differential Protection Relay DCD-2A	IEC 60255	GB/T 14287.2	General Electric Model GE-DPR-2A	Sifang Model SF-DPR-2A	Type: Differential Protection Relay, Application: Power Systems
35	Rotar Ground Relay LD-3	IEC 60255	GB/T 14287.2	Siemens Model SI-RGR-LD3	Huibang Model HB-RGR-LD3	Type: Rotor Ground Relay, Use: Motor Protection
36	Power Directional Relay BG-1B	IEC 60255	GB/T 14287.2	SEL Model SEL-PDR-1B	Chint Model CH-PDR-1B	Type: Directional Power Relay, Use: System Interconnection Protection
37	Auxiliary Relay DZ-31VB, DZ-18B	IEC 60255	GB/T 14287.2	Schneider Electric Model SE-AR-31VB	TGOOD Model TG-AR-31VB	Type: Auxiliary Relay, Use: General Purpose, Additional Contacts

38	Time Relay SS-23/DC 220V, 0.1-99S	IEC 60255	GB/T 14287.2	Omron Model OM-TR-23	Chint Model CH-TR-23	Type: Time Relay, Voltage: 220VDC, Time Range: 0.1 to 99 seconds
39	Signal Relay DX-8, 0.25A	IEC 60255	GB/T 14287.2	Siemens Model SI-SR-DX8	Delixi Model DX-SR-DX8	Type: Signal Relay, Current: 0.25A, Use: Low Power Signaling
40	Over Voltage Relay DY-21C~50-200V	IEC 60255	GB/T 14287.2	ABB Model ABB-OVR-DY21C	Chint Model CH-OVR-DY21C	Type: Over Voltage Relay, Voltage Range: 50-200V, Application: Voltage Monitoring
41	Voltage Relay DY-21C/60C/100V/5	IEC 60255	GB/T 14287.2	Schneider Electric Model SE-VR-100V	Chint Model CH-VR-100V	Type: Voltage Relay, Voltage Settings: 100V, Application: Voltage Monitoring
42	Auxiliary Relay DZ-31B,DC220V	IEC 60255	GB/T 14287.2	ABB Model ABB-AR-DZ31B	TGOOD Model TG-AR-DZ31B	Type: Auxiliary Relay, Voltage: 220VDC, Use: Support Functions in Power Systems
43	Auxiliary Relay DZB-14B,DC220V/0.5A	IEC 60255	GB/T 14287.2	GE Model GE-AR-DZB-14B	Delixi Model DX-AR-DZB-14B	Type: Auxiliary Relay, Current: 0.5A, Voltage: 220VDC
44	Auxiliary Relay DZB-13B,DC220V	IEC 60255	GB/T 14287.2	SEL Model SEL-AR-DZB-13B	Huibang Model HB-AR-DZB-13B	Type: Auxiliary Relay, Voltage: 220VDC, Use: General Purpose

45	Current Relay DL-21, 2.5-10A	IEC 60255	GB/T 14287.2	Siemens Model SI-CR-DL21	Sifang Model SF-CR-DL21	Type: Current Relay, Current Range: 2.5-10A, Application: Current Monitoring
46	Signal Relay DX-8, 0.025A	IEC 60255	GB/T 14287.2	ABB Model ABB-SR-DX8	Changshu Switchgear Model CS-SR-DX8	Type: Signal Relay, Current: 0.025A, Use: Low Power Signaling
47	Differential Relay DCD-2A	IEC 60255	GB/T 14287.2	Schneider Electric Model SE-DR-DCD-2A	TGOOD Model TG-DR-DCD-2A	Type: Differential Relay, Application: Protection in Electrical Systems
48	Current Relay DL-21C, 1.5-6A	IEC 60255	GB/T 14287.2	GE Model GE-CR-DL21C	Chint Model CH-CR-DL21C	Type: Current Relay, Current Range: 1.5-6A, Application: Current Sensing
49	Low Voltage Relay DY-2840-160V	IEC 60255	GB/T 14287.2	Eaton Model ETN-LVR-160V	Delixi Model DX-LVR-160V	Type: Low Voltage Relay, Voltage: 160V, Use: Voltage Sensing in Low Voltage Systems
50	Auxiliary Relay DZB-31B,DC220V	IEC 60255	GB/T 14287.2	ABB Model ABB-AR-DZB-31B	Chint Model CH-AR-DZB-31B	Type: Auxiliary Relay, Voltage: 220VDC, Use: General Purpose
51	Auxiliary Relay DZB-13DC, 220V	IEC 60255	GB/T 14287.2	Siemens Model SI-AR-DZB-13DC	Chint Model CH-AR-DZB-13DC	Type: Auxiliary Relay, Voltage: 220VDC, Application: Auxiliary Functions

52	Signal Relay DX-8, DC 220V	IEC 60255	GB/T 14287.2	Schneider Electric Model SE- SR-DX8	TGOOD Model TG- SR-DX8	Type: Signal Relay, Voltage: 220VDC, Application: Signaling
53	Power Relay BG-11, AC100V/5A	IEC 60255	GB/T 14287.2	ABB Model ABB-PR- BG11	Delixi Model DX-PR-BG11	Type: Power Relay, Voltage: 100VAC, Current: 5A, Application: Power Management
54	Impulse Relay 2C-23A, DC 220V	IEC 60255	GB/T 14287.2	GE Model GE-IR- 2C23A	Sifang Model SF-IR-2C23A	Type: Impulse Relay, Voltage: 220VDC, Application: Control Circuits
55	Auxiliary Relay DZY-211- 220V DC	IEC 60255	GB/T 14287.2	Siemens Model SI-AR- DZY-211	Chint Model CH-AR-DZY- 211	Type: Auxiliary Relay, Voltage: 220VDC, Use: General Control
56	Synchronizing check Relay BT-1B/200, 20degree~33.88 degree	IEC 60255	GB/T 14287.2	Schneider Electric Model SE- SCR-BT1B	TGOOD Model TG- SCR-BT1B	Type: Synchronizing Check Relay, Range: 20°-33.88°, Voltage: 200V
57	Auxiliary Relay DZY-210- 220V DC	IEC 60255	GB/T 14287.2	ABB Model ABB-AR- DZY-210	Delixi Model DX-AR-DZY- 210	Type: Auxiliary Relay, Voltage: 220VDC, Use: General Purpose
58	Auxiliary Relay DZY-205- 220V DC	IEC 60255	GB/T 14287.2	GE Model GE-AR-DZY- 205	Sifang Model SF-AR-DZY- 205	Type: Auxiliary Relay, Voltage: 220VDC, Application: Auxiliary Functions

59	Auxiliary Relay DZY-203-220V DC	IEC 60255	GB/T 14287.2	Schneider Electric Model SE-AR-DZY-203	TGOOD Model TG-AR-DZY-203	Type: Auxiliary Relay, Voltage: 220VDC, Use: General Control
60	Time Relay DS 33C/220V, DC	IEC 60255	GB/T 14287.2	Siemens Model SI-TR-DS33C	Chint Model CH-TR-DS33C	Type: Time Relay, Voltage: 220VDC, Application: Timing Operations
61	Time Relay DS 34C/220V, DC	IEC 60255	GB/T 14287.2	Siemens Model SI-TR-DS34C	Chint Model CH-TR-DS34C	Type: Time Relay, Voltage: 220VDC, Use: Delay Functions, Timing Range: Up to 60 sec
62	Time Relay SS 62199S	IEC 60255	GB/T 14287.2	Schneider Electric Model SE-TR-62199S	TGOOD Model TG-TR-62199S	Type: Solid State Timer, Voltage: 220VDC, Function: Multi-function Timing
63	Time Relay BS 7B, 220V DC	IEC 60255	GB/T 14287.2	GE Model GE-TR-BS7B	Sifang Model SF-TR-BS7B	Type: Time Relay, Voltage: 220VDC, Use: Industrial Control Systems
64	Signal Relay DS-8	IEC 60255	GB/T 14287.2	ABB Model ABB-SR-DS8	Delixi Model DX-SR-DS8	Type: Signal Relay, Voltage: 220VDC, Current: 0.5A, Application: Low Current Switching

65	Synchronization Voltage Relay 50VA/AY-1	IEC 60255	GB/T 14287.2	Schneider Electric Model SE-SVR-AY1	Chint Model CH-SVR-AY1	Type: Synchronization Relay, Voltage: 220VAC, VA Rating: 50VA
66	Time Relay 92/KT	IEC 60255	GB/T 14287.2	Siemens Model SI-TR-92KT	TGOOD Model TG-TR-92KT	Type: Time Relay, Voltage: 220VDC, Adjustable Timing Range
67	Time Relay DS-36C	IEC 60255	GB/T 14287.2	Eaton Model ETN-TR-DS36C	Delixi Model DX-TR-DS36C	Type: Time Relay, Voltage: 220VDC, Use: Delay Settings
68	Time Relay SS-22/1-1-993	IEC 60255	GB/T 14287.2	Schneider Electric Model SE-TR-22	Chint Model CH-TR-22	Type: Time Relay, Voltage: 220VDC, Long Duration Timing up to 999 hours
69	Auxiliary Relay D2J-203	IEC 60255	GB/T 14287.2	GE Model GE-AR-D2J203	Sifang Model SF-AR-D2J203	Type: Auxiliary Relay, Voltage: 220VDC, Application: General Auxiliary Operations
70	Auxiliary Relay D2J-219	IEC 60255	GB/T 14287.2	Siemens Model SI-AR-D2J219	Delixi Model DX-AR-D2J219	Type: Auxiliary Relay, Voltage: 220VDC, Use: Interface Relay Functions
71	Relay DZ6b-3Z-DC 24V	IEC 60255	GB/T 14287.2	Siemens Model SI-RDZ6b	Chint Model CH-RDZ6b	Type: General Purpose Relay, Voltage: 24VDC, Compact Size

72	Control System relay 24V/10A/250V	IEC 60255	GB/T 14287.2	Schneider Electric Model SE- CS-24V	TGOOD Model TG- CS-24V	Type: Control Relay, Voltage: 24V, Current: 10A, Max Voltage: 250V
73	Excitation Relay 24V/DC, 5A/250V AC	IEC 60255	GB/T 14287.2	GE Model GE-EXR-24V	Sifang Model SF-EXR-24V	Type: Excitation Relay, Voltage: 24VDC, Current: 5A, AC Voltage: 250V
74	Current Relay (APS)	IEC 60255	GB/T 14287.2	ABB Model ABB-CR- APS	Delixi Model DX-CR-APS	Type: Current Sensing Relay, Application: Protection and Monitoring
75	Signal Relay (APS)	IEC 60255	GB/T 14287.2	Schneider Electric Model SE- SR-APS	TGOOD Model TG- SR-APS	Type: Signal Relay, Low Voltage Applications
76	Voltage Relay (APS)	IEC 60255	GB/T 14287.2	Siemens Model SI-VR- APS	Chint Model CH-VR-APS	Type: Voltage Relay, Application: Over/Under Voltage Detection
77	Auxiliary Relay 24V DC,14 pin	IEC 60255	GB/T 14287.2	GE Model GE-AR-24DC	Sifang Model SF-AR-24DC	Type: Auxiliary Relay, Voltage: 24VDC, Pin: 14, Use: Auxiliary Operations
78	Auxiliary Relay 220V DC,14 pin	IEC 60255	GB/T 14287.2	ABB Model ABB-AR- 220VDC	Delixi Model DX-AR- 220VDC	Type: Auxiliary Relay, Voltage: 220VDC, Pin: 14, General Purpose

79	Protection Relay DZ-219	IEC 60255	GB/T 14287.2	Schneider Electric Model SE- PR-DZ219	Chint Model CH-PR- DZ219	Type: Protection Relay, Use: Overcurrent Protection
80	14 pin Relay 24 V	IEC 60255	GB/T 14287.2	Siemens Model SI-RL- 14P24V	TGOOD Model TG- RL-14P24V	Type: General Purpose Relay, Voltage: 24V, Pins: 14, Use: Control and Automation
81	14 pin Relay 110 V	IEC 60255	GB/T 14287.2	ABB Model ABB-RL- 14P110V	Delixi Model DX-RL- 14P110V	Type: General Purpose Relay, Voltage: 110V, Pins: 14, Use: Various Industrial Applications
82	11 pin Relay 24 V	IEC 60255	GB/T 14287.2	Schneider Electric Model SE- RL-11P24V	Chint Model CH-RL- 11P24V	Type: General Purpose Relay, Voltage: 24V, Pins: 11, Versatile Use
83	11 pin Relay 110 V	IEC 60255	GB/T 14287.2	GE Model GE-RL- 11P110V	Sifang Model SF-RL- 11P110V	Type: General Purpose Relay, Voltage: 110V, Pins: 11, Industrial Use
84	8 pin Relay 220V	IEC 60255	GB/T 14287.2	Siemens Model SI-RL- 8P220V	TGOOD Model TG- RL-8P220V	Type: General Purpose Relay, Voltage: 220V, Pins: 8, Control and Automation

85	8 pin Relay 24 V	IEC 60255	GB/T 14287.2	ABB Model ABB-RL- 8P24V	Delixi Model DX-RL- 8P24V	Type: General Purpose Relay, Voltage: 24V, Pins: 8, Use: Low Voltage Applications
86	8 pin Relay 12 V	IEC 60255	GB/T 14287.2	Schneider Electric Model SE- RL-8P12V	Chint Model CH-RL- 8P12V	Type: General Purpose Relay, Voltage: 12V, Pins: 8, Use: Automotive and Industrial Control
87	DC Breaker	IEC 60947	GB 14048.2	Siemens Model SI- DCB-1000V	TGOOD Model TG- DCB-1000V	Type: DC Circuit Breaker, Voltage: 1000V, Application: Solar Panels, Battery Systems
88	Tripping Coil	IEC 62271	GB 1984	GE Model GE-TC-110V	Sifang Model SF-TC-110V	Type: Tripping Coil, Voltage: 110V, Use: Circuit Breaker Tripping Mechanism
89	Fuse RT 19-16/6A	IEC 60269	GB 13539	Bussmann by Eaton Model BE-FRT19	People Electric Model PE- FRT19	Type: Fuse, Current Rating: 6A, Use: Overcurrent Protection
90	Fuse R6-16/3A	IEC 60269	GB 13539	Schneider Electric Model SE- FR6	Chint Model CH-FR6	Type: Fuse, Current Rating: 3A, Application: General Circuit Protection
91	Fuse GFI-16/6	IEC 60269	GB 13539	ABB Model ABB-FGFI-16	Delixi Model DX-FGFI-16	Type: Fuse, Current Rating: 6A, Use: Ground Fault Interruption

92	Fuse RT 22A-16/A, 250A	IEC 60269	GB 13539	Siemens Model SI- FRT22A	TGOOD Model TG- FRT22A	Type: Fuse, Current Rating: 250A, Application: High Current Applications
93	Fuse RL-6-25/6	IEC 60269	GB 13539	GE Model GE-FRL6	Sifang Model SF-FRL6	Type: Fuse, Current Rating: 6A, Use: Load Break Switch Protection
94	Fuse RU-15/6, 16 Amp	IEC 60269	GB 13539	Eaton Model ETN-FRU15	Delixi Model DX-FRU15	Type: Fuse, Current Rating: 16A, Use: General Circuit Protection
95	Fuse RL1-15/6/6A	IEC 60269	GB 13539	Schneider Electric Model SE- FRL1	Chint Model CH-FRL1	Type: Fuse, Current Rating: 6A, Application: Low Voltage Protection
96	Fuse XRNT1-1050/10 Amp	IEC 60269	GB 13539	ABB Model ABB- FXRNT1	Delixi Model DX-FXRNT1	Type: Current Limiting Fuse, Rating: 10A, Use: Transformer Protection
97	Fuse XRNP1-10,0.5 Amp	IEC 60269	GB 13539	Siemens Model SI- FXRNP1	TGOOD Model TG- FXRNP1	Type: Fuse, Current Rating: 0.5A, Use: Electronic Circuit Protection
98	DC Fuses 10,8,6,4 Amp	IEC 60269	GB 13539	GE Model GE-FDC10	Sifang Model SF-FDC10	Type: DC Fuse, Various Ratings (10, 8, 6, 4 Amp), Use: DC Applications

99	Control Switch LW39B 16-41-42 KK	IEC 60947	GB 14048.5	Schneider Electric Model SE-CS-LW39B	Chint Model CH-CS-LW39B	Type: Control Switch, Configurations: 16-41-42, Use: Industrial Control Panels
100	Control Switch LW 12-16Z/4.0011.1	IEC 60947	GB 14048.5	ABB Model ABB-CS-LW12	Delixi Model DX-CS-LW12	Type: Control Switch, Model: LW 12-16Z, Use: Control and Signaling
101	Control Switch LW8-1-10C22/2F-1-2SAT	IEC 60947	GB 14048.5	Siemens Model SI-CS-LW8	TGOOD Model TG-CS-LW8	Type: Control Switch, Various Settings, Use: Wide Range of Industrial Applications
102	Flow Switch SLX-1 WFS(SLX-25Z)	IEC 60947	GB 14048.5	GE Model GE-FSW-SLX1	Sifang Model SF-FSW-SLX1	Type: Flow Switch, Model: SLX-1, Use: Monitoring Fluid Flow
103	Needle Switch DWK ZLK-8 (limit switch)	IEC 60947	GB 14048.5	Schneider Electric Model SE-NS-DWK	Chint Model CH-NS-DWK	Type: Limit Switch, Model: ZLK-8, Use: Position Detection
104	Changeover switch LW12-16/9.6912.3 (1QK)	IEC 60947	GB 14048.5	Siemens Model SI-CS-LW12-16	TGOOD Model TG-CS-LW12-16	Type: Changeover Switch, Model: LW12-16, Use: Control of Electrical Circuits
105	Changeover switch LW8-10122022/3F 4QK,5QK	IEC 60947	GB 14048.5	ABB Model ABB-CS-LW8-10	Delixi Model DX-CS-LW8-10	Type: Changeover Switch, Configuration: 4QK, 5QK, Use: Electrical Circuit Management

106	Changeover switch LW8-10C 33/3F/STK/S	IEC 60947	GB 14048.5	Schneider Electric Model SE- CS-LW8-10C	Chint Model CH-CS-LW8- 10C	Type: Changeover Switch, Settings: 33/3F, Use: Complex Electrical Systems
107	Knife switch P-20	IEC 60947	GB 14048.5	GE Model GE-KS-P20	Sifang Model SF-KS-P20	Type: Knife Switch, Model: P-20, Use: Disconnection of Electrical Circuits
108	Switch 1QF PK2MO-10	IEC 60947	GB 14048.5	ABB Model ABB-SW- 1QF	Delixi Model DX-SW-1QF	Type: Electrical Switch, Model: PK2MO-10, Use: High Current Applications
109	Switch 2QF PK2MO-11	IEC 60947	GB 14048.5	Schneider Electric Model SE- SW-2QF	Chint Model CH-SW-2QF	Type: Electrical Switch, Model: PK2MO-11, Use: Control and Safety
110	Switch 3QF LT-20A/1	IEC 60947	GB 14048.5	Siemens Model SI- SW-3QF	TGOOD Model TG- SW-3QF	Type: Electrical Switch, Model: LT- 20A/1, Use: Industrial Applications
111	Switch 8QF LT-6A/1	IEC 60947	GB 14048.5	Siemens Model SI- SW-8QF	Chint Model CH-SW-8QF	Type: Electrical Switch, Rating: 6A, Use: Low Power Control and Safety
112	Switch 1FQ PK2MO-25	IEC 60947	GB 14048.5	ABB Model ABB-SW- 1FQ	Delixi Model DX-SW-1FQ	Type: Heavy-Duty Switch, Rating: 25A, Use: Industrial Applications

113	Oil Flow Switch DN 50	IEC 60947	GB 14048.5	Schneider Electric Model SE- OFW-DN50	TGOOD Model TG- OFW-DN50	Type: Oil Flow Switch, Diameter: 50mm, Use: Monitoring Oil Flow in Pipelines
114	Control Switch LW12- 16Z/4.0011.1(1,4,5,8SA,51K K)	IEC 60947	GB 14048.5	GE Model GE-CS- LW12-16Z	Sifang Model SF-CS- LW12-16Z	Type: Control Switch, Multiple Configurations, Use: Diverse Industrial Settings
115	Switch (APS)	IEC 60947	GB 14048.5	Eaton Model ETN-SW- APS	Delixi Model DX-SW-APS	Type: General Purpose Switch, Use: Auxiliary Power Systems (APS)
116	Two Way Switch	IEC 60947	GB 14048.5	Siemens Model SI- TWS	Chint Model CH-TWS	Type: Two Way Switch, Use: Lighting and Power Control in Buildings
117	SBI Button LA38-225	IEC 60947	GB 14048.5	Schneider Electric Model SE- SBI-LA38	TGOOD Model TG- SBI-LA38	Type: Push Button, Model: LA38-225, Use: Emergency Stops and Controls
118	Push Button 91,92 SBT,91- 92SRR	IEC 60947	GB 14048.5	ABB Model ABB-PB-91	Delixi Model DX-PB-91	Type: Push Button, Series: 91, 92, Use: Start and Stop Functions
119	Push Button Red/Green	IEC 60947	GB 14048.5	GE Model GE-PB-RG	Sifang Model SF-PB-RG	Type: Push Button, Colors: Red/Green, Use: On/Off Indication

120	Push Button LA 38-11/209 220V	IEC 60947	GB 14048.5	Siemens Model SI-PB- LA38-11	Chint Model CH-PB- LA38-11	Type: Push Button, Voltage: 220V, Model: LA 38-11, Use: Machine Operation
121	Push Button with lamp LA39- 11D/G23-DC 224V	IEC 60947	GB 14048.5	ABB Model ABB-PB- LA39	Delixi Model DX-PB-LA39	Type: Illuminated Push Button, Voltage: 224VDC, Use: Visual Feedback Control
122	MCB L7-6/2/C-DC	IEC 60898	GB 10963.1	Schneider Electric Model SE- MCB-L7	TGOOD Model TG- MCB-L7	Type: Miniature Circuit Breaker, DC Application, 6A, 2 Pole
123	MCB 2 pole 32 amps	IEC 60898	GB 10963.1	GE Model GE-MCB- 32A	Sifang Model SF-MCB-32A	Type: Miniature Circuit Breaker, 2 Poles, 32 Amps, General Use
124	MCB 2 pole 63 amps	IEC 60898	GB 10963.1	Siemens Model SI- MCB-63A	Chint Model CH-MCB- 63A	Type: Miniature Circuit Breaker, 2 Poles, 63 Amps, High Current Applications
125	MCB 3 pole 10 amps	IEC 60898	GB 10963.1	Schneider Electric Model SE- MCB-10A	TGOOD Model TG- MCB-10A	Type: Miniature Circuit Breaker, 3 Poles, 10 Amps, Use: Low Current Protection
126	MCB 3 pole 32 amps	IEC 60898	GB 10963.1	ABB Model ABB-MCB- 3P32	Delixi Model DX-MCB- 3P32	Type: Miniature Circuit Breaker, 3 Poles, 32 Amps, General Protection

127	MCB 3 pole 16 amps	IEC 60898	GB 10963.1	GE Model GE-MCB- 16A	Sifang Model SF-MCB-16A	Type: Miniature Circuit Breaker, 3 Poles, 16 Amps, Medium Load Applications
128	MCB 4 Pole 100 amp	IEC 60898	GB 10963.1	Siemens Model SI- MCB-100A	Chint Model CH-MCB- 100A	Type: Miniature Circuit Breaker, 4 Poles, 100 Amps, High Load Applications
129	MCCB (APS)	IEC 60947	GB 14048.3	Schneider Electric Model SE- MCCB-APS	TGOOD Model TG- MCCB-APS	Type: Molded Case Circuit Breaker, Use: Advanced Power Systems (APS)
130	Temperature Controller 1- 4WDXA 1200/R	IEC 60730	GB 14536.1	Honeywell Model HW- TC-1200R	Baoji Instrument Model BJ- TC-1200R	Type: Temperature Controller, Range: - 50°C to 1200°C, Use: Industrial Heating Processes
131	Temperature Controller WXZTDS 163257	IEC 60730	GB 14536.1	Siemens Model SI-TC- WXZTDS	Chint Model CH-TC- WXZTDS	Type: Temperature Controller, Application: Industrial Process Control, Range: -100 to 1300°C
132	Temperature Controller A1200/R (1-5 WDX)	IEC 60730	GB 14536.1	ABB Model ABB-TC- A1200	Delixi Model DX-TC- A1200	Type: Temperature Controller, Use: HVAC and Refrigeration, Features: Digital Display

133	Temperature Controller	IEC 60730	GB 14536.1	Schneider Electric Model SE-TC	TGOOD Model TG-TC	Type: Temperature Controller, Universal Input, Configurable Outputs
134	Rated Speed Control SPCT 1/3-24 loops	IEC 61000	GB/T 17626	GE Model GE-RSC- SPCT	Sifang Model SF-RSC- SPCT	Type: Speed Controller, Application: Variable Frequency Drives, Features: Multi-loop Control
135	Pressure Display Controller VXK-150	IEC 61000	GB/T 17626	Honeywell Model HW- PDC-VXK	Baoji Instrument Model BJ- PDC-VXK	Type: Pressure Controller, Display: Digital, Range: 0 to 150 psi
136	Magnetic Contactors AC 220V	IEC 60947	GB 14048.4	Siemens Model SI- MC-AC220V	Chint Model CH-MC- AC220V	Type: Magnetic Contactor, Voltage: 220VAC, Use: Motor Control and Automation
137	Magnetic Contactors DC 220V	IEC 60947	GB 14048.4	ABB Model ABB-MC- DC220V	Delixi Model DX-MC- DC220V	Type: Magnetic Contactor, Voltage: 220VDC, Application: DC Power Systems
138	Magnetic Contactors 4 pole 380 V	IEC 60947	GB 14048.4	Schneider Electric Model SE- MC-380V	TGOOD Model TG- MC-380V	Type: Magnetic Contactor, 4 Poles, Voltage: 380V, Use: High-power Electrical Systems

LOT # 6	Control Valves & Gates
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S.#	Description of Item	Relevant International Standard	Relevant Chinese Standard	International Manufacturer with Model	Chinese Manufacturer with Model	Complete Technical Specs
1	S/O Gear mechanism for butterfly and spherical control valves	ISO 5211	GB/T 122237	Rotork Model RM-GMBF	Jiangnan Valve Model JN-GMBF	Type: Gear Operated, Use: Butterfly/Spherical Valves, Features: Robust Mechanism
2	S/O Full square threaded bars M60 mmx3000 mm for forebay control gates	ASTM A193	GB/T 5782	BUMAX Model BU-M60x3000	Zhongzhou Model ZZ-M60x3000	Type: Threaded Bar, Material: Stainless Steel, Dimensions: M60x3000 mm
3	S/O Full square threaded bars M50 mmx3000 mm for forebay control gates	ASTM A193	GB/T 5782	BUMAX Model BU-M50x3000	Zhongzhou Model ZZ-M50x3000	Type: Threaded Bar, Material: Stainless Steel, Dimensions: M50x3000 mm
4	S/O Full square threaded bars M30 mmx3000 mm for forbay control gates	ASTM A193	GB/T 5782	BUMAX Model BU-M30x3000	Zhongzhou Model ZZ-M30x3000	Type: Threaded Bar, Material: Stainless Steel, Dimensions: M30x3000 mm
5	Butterfly Valve (APS)	ISO 10631	GB/T 12238	Flowserve Model FV-APS	Tieling Valve Model TLV-APS	Type: Butterfly Valve, Application: General Purpose, PN Rating: 16

6	Butterfly Valve PN 16	ISO 10631	GB/T 12238	Emerson Model EM- BVP16	Neway Valve Model NV- BVP16	Type: Butterfly Valve, Diameter: Varies, PN 16, Use: Water and Gas
7	Opening Valve of Cooling Pipe ZBF22Q50	ISO 17292	GB/T 12234	Cameron Model CAM- ZBF22Q50	Sifang Model SF- ZBF22Q50	Type: Ball Valve, Diameter: 50 mm, Use: Cooling Systems
8	Sluice Valve DNBO10HT200	ISO 7259	GB/T 12234	AVK Model AVK-SV200	Zhongnan Valve Model ZN-SV200	Type: Sluice Valve, Diameter: 200 mm, Use: Water and Wastewater
9	Ball Valve for Lubrication Pipe DN-50	ISO 17292	GB/T 12237	Crane Model CR-BV50	Fangzheng Valve Model FZ-BV50	Type: Ball Valve, Diameter: 50 mm, Use: Lubrication Systems
10	Solenoid Valve for Deflector 4WE25D50/06 AC 220 V	IEC 60730	GB 14536.1	Bosch Rexroth Model BR- 4WE25D50	Yuken Model YK- 4WE25D50	Type: Solenoid Valve, Voltage: 220V AC, Use: Deflector Control
11	Spherical Valve DN 700, PN 40 E19110-01	ISO 7121	GB/T 12241	Metso Model ME-SV700	Shanghai Valve Model SH-SV700	Type: Spherical Valve, Diameter: 700 mm, PN 40, Application: High Pressure Systems
12	Anti Jet Valve (APS)	ISO 5208	GB/T 12233	Johnson Controls Model JC-AJV	Fangzheng Valve Model FZ-AJV	Type: Check Valve, Application: Prevention of Backflow in Piping Systems
13	Valves DN25/10	ISO 5208	GB/T 12233	Watts Model WA-V2510	Tieling Valve Model TL- V2510	Type: Gate Valve, Diameter: 25 mm, PN 10, Use: General Purpose
14	Valves DN65/16	ISO 5208	GB/T 12233	Kitz Model KZ-V6516	Neway Valve Model NV- V6516	Type: Gate Valve, Diameter: 65 mm, PN 16, Application: Water,

Oil, Gas						
15	Valves DN25/16	ISO 5208	GB/T 12233	Mueller Model MU-V2516	Fangzheng Valve Model FZ-V2516	Type: Gate Valve, Diameter: 25 mm, PN 16, Use: Wide Range of Fluids
16	High Pressure Valve 3" dia	ANSI B16.34	GB/T 12224	Parker Model PK-HPV3	Zhongzhou Model ZZ- HPV3	Type: Ball Valve, Diameter
17	High Pressure Valve 3/4" dia	ANSI B16.34	GB/T 12224	Swagelok Model SW- HPV34	Sifang Model SF-HPV34	Type: Globe Valve, Diameter: 3/4", Use: High Pressure Gas and Fluid Control, Material: Stainless Steel
18	Pressure Reduce Valve 6" dia	ISO 5167	GB/T 12243	Fisher Model FI-PRV6	Shanghai Valve Model SH-PRV6	Type: Pressure Reducing Valve, Diameter: 6", Application: Steam, Water, Air, Feature: Adjustable Setpoint
19	Control Valve 1-1/4" i/c Accessories	IEC 60534	GB/T 4213	Honeywell Model HW- CV114	Chint Model CH-CV114	Type: Control Valve, Diameter: 1-1/4", Accessories: Actuator, Positioner, Application: Process Control
20	Governor oil Pressure Valve 3/4"	API 6D	GB/T 19672	Emerson Model EM- GPV34	Neway Valve Model NV- GPV34	Type: Pressure Valve, Diameter: 3/4", Use: Oil Pressure Regulation, Material: Alloy Steel

21	Foot Valve dia 6"	ISO 10631	GB/T 12238	Valvitalia Model VA-FV6	Tieling Valve Model TL-FV6	Type: Foot Valve, Diameter: 6", Use: Preventing Backflow, Material: Cast Iron
22	Expansion Joint SSJ-10 DN 100	EJMA	GB/T 12777	Flexitallic Model FL-SSJ10	Fangzheng Valve Model FZ-SSJ10	Type: Expansion Joint, Diameter: DN 100, Use: Absorbing Thermal Expansion, Material: Stainless Steel
23	Gun Metal Valve 1"	ISO 5208	GB/T 12233	Mueller Model MU-GMV1	Tieling Valve Model TL-GMV1	Type: Gate Valve, Diameter: 1", Material: Gunmetal, Use: General Purpose
24	Gun Metal Valve 3/4"	ISO 5208	GB/T 12233	Kitz Model KZ-GMV34	Neway Valve Model NV-GMV34	Type: Gate Valve, Diameter: 3/4", Material: Gunmetal, Use: Water, Gas
25	Valve 2"	ISO 5208	GB/T 12233	Watts Model WA-V2	Fangzheng Valve Model FZ-V2	Type: Ball Valve, Diameter: 2", Use: Industrial and Residential
26	Valve 2.5"	ISO 5208	GB/T 12233	Johnson Controls Model JC-V25	Chint Model CH-V25	Type: Globe Valve, Diameter: 2.5", Use: Flow Control
27	Valve 4"	ISO 5208	GB/T 12233	Parker Model PK-V4	Sifang Model SF-V4	Type: Butterfly Valve, Diameter: 4", Use: HVAC and Water Treatment
28	Drain Valve 3"	ISO 5208	GB/T 12233	Emerson Model EM-DV3	Neway Valve Model NV-DV3	Type: Drain Valve, Diameter: 3", Use: Systems Drainage

29	Main Gate Sluice Valve 20"	ISO 7259	GB/T 12234	AVK Model AVK-MGSV20	Zhongnan Valve Model ZN-MGSV20	Type: Sluice Valve, Diameter: 20", Use: Water Distribution Networks
30	By Pass Valve	ANSI B16.34	GB/T 12224	Swagelok Model SW-BPV	Sifang Model SF-BPV	Type: Bypass Valve, Use: Pressure Bypass in Piping Systems
31	Gate Valve 1"	ISO 10434	GB/T 12234	Mueller Model MU-GV1	Tieling Valve Model TL-GV1	Type: Gate Valve, Diameter: 1", Use: Fluid Control in Pipelines
32	Gate Valve 1-1/2"	ISO 10434	GB/T 12234	Kitz Model KZ-GV15	Neway Valve Model NV-GV15	Type: Gate Valve, Diameter: 1-1/2", Use: Oil, Gas, and Water Systems
33	Ball Valve 3"	ISO 17292	GB/T 12237	Cameron Model CAM-BV3	Shanghai Valve Model SH-BV3	Type: Ball Valve, Diameter: 3", Use: Chemical and Petrochemical Industries
34	Cooling Valve DN 80,16,HT 200	ISO 17292	GB/T 12237	Flowserve Model FV-CV80	Tieling Valve Model TL-CV80	Type: Cooling Valve, Diameter: DN 80, Use: High Temperature Applications

LOT # 9**Tools, Plants & Accessories**

S.#	Description of Item	Relevant International Standard	Relevant Chinese Standard	International Manufacturer with Model	Chinese Manufacturer with Model	Complete Technical Specs
1	S/O Scissors 8" for paper cutting	ISO 5748	GB/T 23860	Fiskars Model 01-004761	Jiangsu Cut Model JC-8001	Type: Office Scissors, Length: 8", Use: General Paper Cutting
2	S/O Dry cell 1.5 v DC for Multi Meter/Megar	IEC 60086	GB/T 8897.2	Duracell Model MN1500	Changhong Battery Model CH-AAA1.5V	Type: Alkaline Battery, Voltage: 1.5V, Use: Multimeters, Portable Devices
3	S/O Floor cleaning brush APS	ISO 17664	GB/T 18416	Rubbermaid Model RCP6385	Beijing Cleaning Model BC-6385	Type: Floor Brush, Use: Cleaning and Maintenance, Features: Durable Bristles
4	S/O Hacksaw blades	ISO 2339	GB/T 13348	Stanley Model STH20138	Zhongshan Tools Model ZT-HB1218	Type: Hacksaw Blade, Length: 12", Use: Metal Cutting
5	S/O LED Light 100 watt	IEC 62560	GB/T 24823	Philips Model PH-100W-LED	Sinoco Model SN-100W	Type: LED Bulb, Power: 100W, Use: High Intensity Lighting
6	S/O LED Light 42 watt	IEC 62560	GB/T 24823	GE Lighting Model GE-42W-LED	Foshan Lighting Model FL-42W	Type: LED Bulb, Power: 42W, Use: Energy Efficient Lighting

7	S/O Power plug APS	IEC 60884	GB 2099.1	Leviton Model LE-PP	Chint Electric Model CE-PP	Type: Power Plug, Use: General Electrical Appliances
8	S/O Two pin power plug APS	IEC 60884	GB 2099.1	Belkin Model BK-2PP	Changzhou Plugs Model CZ-2PP	Type: Two-Pin Power Plug, Use: Small Appliances and Devices
9	S/O cutting tips CNMA 190612-TK 2001	ISO 513	GB/T 15676	Kyocera Model KY- CNMA190612	Zhuzhou Carbide Model ZZ- CNMA	Type: Carbide Cutting Tips, Use: Metal Machining, Spec: CNMA 190612
10	S/O cutting tips CNMG 160612	ISO 513	GB/T 15676	Sandvik Coromant Model SC- CNMG160612	Zhuzhou Carbide Model ZZ- CNMG	Type: Carbide Cutting Tips, Use: Turning and Milling, Spec: CNMG 160612
11	S/O cutting tips CNMG 120404 FF1-TT 2500	ISO 513	GB/T 15676	Mitsubishi Model MC- CNMG120404	Xiamen Golden Egret Model XG- CNMG	Type: Carbide Cutting Tips, Use: Precision Cutting, Spec: CNMG 120404
12	S/O cutting tips LCMF 300812- 1000-FT-TP200	ISO 513	GB/T 15676	Seco Model SE- LCMF300812	Zhuzhou Carbide Model ZZ- LCMF	Type: Carbide Cutting Tips, Use: Finishing and Turning, Spec: LCMF 300812
13	Cutting Tool Holder MCLNR 3232-P08	ISO 10889	GB/T 4209	Kennametal Model KM- MCLNR3232	Tianjin Tool Model TJ- MCLNR32	Type: Tool Holder, Use: Lathe Machines, Spec: MCLNR 3232-P08
14	Cutting Tool Holder PCLNR 3232-P19	ISO 10889	GB/T 4209	Iscar Model IS- PCLNR3232	Beijing Precision Model BP- PCLNR	Type: Tool Holder, Use: Heavy-Duty Turning, Spec: PCLNR 3232-P19

15	Cutting Tool Holder PTJNR 3232-P22	ISO 10889	GB/T 4209	Sandvik Coromant Model SC- PTJNR3232	Dongguan Tools Model DG-PTJNR	Type: Tool Holder, Use: Precision Machining, Spec: PTJNR 3232-P22
16	Cutting Tool Holder SDJCL 3232- P15	ISO 10889	GB/T 4209	Tungaloy Model TU- SDJCL3232	Shanghai Tools Model SH-SDJCL	Type: Tool Holder, Use: External Turning, Spec: SDJCL 3232
17	Cutting Tool Holder LFML 3225-E04	ISO 10889	GB/T 4209	Mitsubishi Model MC- LFML3225	Chengdu Tools Model CD-LFML	Type: Tool Holder, Use: Light Cutting Operations, Spec: LFML 3225
18	Cutting Tool Holder MCLNR 4040-R19	ISO 10889	GB/T 4209	Kennametal Model KM- MCLNR4040	Tianjin Tool Model TJ- MCLNR40	Type: Tool Holder, Use: Large Scale Machining, Spec: MCLNR 4040
19	S/O milling insert tips as per sample	ISO 1641	GB/T 14349	Sandvik Coromant Model SC-MIT	Xiamen Golden Egret Model XG- MIT	Type: Milling Insert, Use: Custom Milling Applications, Spec: As Per Sample
20	Grease Gun	ISO 6743-99	GB/T 7631.2	Lincoln Model LN-GG	Jiangsu Grease Model JG-GG	Type: Grease Gun, Use: Lubrication Maintenance, Spec: Standard Duty
21	3 Pole Changeover switch H513-B, 400-13 XK 06-101- 25	IEC 60947	GB/T 14048.3	Schneider Model SCH- H513B	Tengen Model TG- H513B	Type: Changeover Switch, Poles: 3, Rating: 400V, Use: Electrical Circuit Control
22	Generator Foundation Bolts i/c Spring Washers (APS)	ISO 898-1	GB/T 3098.1	Hilti Model HI- GBFB	Jiangsu Xingchen Model JX- GBFB	Type: Foundation Bolts, Use: Securing Generators, Includes Spring Washers

23	Bolts i/c Nuts & Washers of Different Sizes (APS)	ISO 4032	GB/T 5782	Fastenal Model FA-BNW	Chint Model CH-BNW	Type: Bolt Set, Use: General Fastening, Includes Nuts and Washers
24	L KEY bolts M20	ISO 4017	GB/T 5783	Bosch Rexroth Model BR-LK20	Changzhou Fasteners Model CZ-LK20	Type: Hex Bolts, Size: M20, Use: Machine Assembly and Maintenance
25	Search Lights	IEC 60598	GB 7000	Pelican Model PE-2410	Zhejiang Tormin Model ZT-SL	Type: Search Light, Power: Variable, Use: Emergency and Outdoor Lighting
26	Extension Lead	IEC 60309	GB 17465.1	Masterplug Model MA-EL150	Beijing Electric Model BE-EL	Type: Extension Lead, Length: Variable, Use: Power Distribution
27	Torch Rechargeable	IEC 62133	GB 31241	Maglite Model ML150LR	Ningbo Xuanhua Model NX-TR	Type: Rechargeable Torch, Battery Type: Li-ion, Use: Portable Lighting
28	Welding Plant i/c Accessories	ISO 3834	GB/T 8118	Lincoln Electric Model LE-WP	Shenzhen Huayilong Model SH-WP	Type: Welding Plant, Includes: Torches, Cables, Use: Industrial Welding
29	Socket Set	ISO 1174	GB/T 1331	Stanley Model ST-92903	Jiangsu Eastern Model JE-SS	Type: Socket Set, Use: Fastening, Assorted Sizes for Mechanics
30	Pipe Wrench 18"/24"	ISO 6787	GB/T 4388	RIDGID Model RD-824	Shanghai Tools Model ST-PW1824	Type: Pipe Wrench, Sizes: 18" and 24", Use: Plumbing and Pipe Work

31	Adjustable Wrench 36"	ISO 6787	GB/T 4388	Crescent Model CR-AW36	Ningbo Great Model NG-AW36	Type: Adjustable Wrench, Size: 36", Use: Large Assembly and Repair Work
32	Adjustable Wrench 18"	ISO 6787	GB/T 4388	Bahco Model BA-8073	Chengdu Tools Model CD-AW18	Type: Adjustable Wrench, Size: 18", Use: General Mechanical Work
33	Adjustable Wrench 8"	ISO 6787	GB/T 4388	Klein Tools Model KT-ADJ8	Zhejiang Precision Model ZP-AW8	Type: Adjustable Wrench, Size: 8", Use: Versatile Tightening and Loosening
34	Hydraulic Jack 30 Ton	ISO 10100	GB/T 19630	Enerpac Model EN-HJ30	Jiangsu Liftking Model JL-HJ30	Type: Hydraulic Jack, Capacity: 30 Ton, Use: Heavy Lifting and Automotive Repair
35	Hydraulic Jack 20 Ton	ISO 10100	GB/T 19630	Torin Model TO-BJ20	Baoding Hoisting Model BD-HJ20	Type: Hydraulic Jack, Capacity: 20 Ton, Use: Industrial and Workshop Applications
36	Hydraulic Jack 10 Ton	ISO 10100	GB/T 19630	Hein-Werner Model HW-HJ10	Changshu Seagull Model CS-HJ10	Type: Hydraulic Jack, Capacity: 10 Ton, Use: General Lifting and Support
37	Hydraulic Jack 5 Ton	ISO 10100	GB/T 19630	Larin Model LA-HJ5	Zhejiang Zhongli Model ZZ-HJ5	Type: Hydraulic Jack, Capacity: 5 Ton, Use: Automotive and Small Machinery Lifting
38	Hydraulic Jack 2 Ton	ISO 10100	GB/T 19630	Pittsburgh Model PG-HJ2	Ningbo Yinzhou Model NY-HJ2	Type: Hydraulic Jack, Capacity: 2 Ton, Use: Quick Lifting in Tight Spaces

39	Chain Pulley 10 Ton	ISO 16877	GB/T 3811	Kito Model KT-CP10	Hebei Lifting Model HB-CP10	Type: Chain Pulley, Capacity: 10 Ton, Use: Heavy Load Lifting
40	Chain Pulley 5 Ton	ISO 16877	GB/T 3811	Columbus McKinnon Model CM-CP5	Beijing Hoisting Model BJ-CP5	Type: Chain Pulley, Capacity: 5 Ton, Use: Material Handling in Warehouses
41	Ratchet machine 2 ton	ISO 4301	GB/T 3811	JET Tools Model JT-RM2	Shandong Machinery Model SD-RM2	Type: Ratchet Lever Hoist, Capacity: 2 Ton, Use: Lifting and Pulling in Construction
42	Ratchet machine 1.5 ton	ISO 4301	GB/T 3811	Harrington Model HA-RM15	Jiangxi Machinery Model JX-RM15	Type: Ratchet Lever Hoist, Capacity: 1.5 Ton, Use: Manual Load Manipulation
43	Ratchet machine 1/2 ton	ISO 4301	GB/T 3811	Milwaukee Model ML-RM05	Nanjing Special Model NS-RM05	Type: Ratchet Lever Hoist, Capacity: 1/2 Ton, Use: Light-duty Lifting
44	Lifting Belt 15 ton	ISO 1492-1	GB/T 8521	Lift-All Model LA-LB15	Hebei Juren Model HJ-LB15	Type: Lifting Belt, Capacity: 15 Ton, Use: Heavy Industrial Lifting
45	Lifting Belt 10 ton	ISO 1492-1	GB/T 8521	SpanSet Model SS-LB10	Shanghai Safety Model SH-LB10	Type: Lifting Belt, Capacity: 10 Ton, Use: Safe Handling of Large Loads
46	Lifting Belt 5 ton	ISO 1492-1	GB/T 8521	CargoLift Model CL-LB5	Ningbo Lifting Model NB-LB5	Type: Lifting Belt, Capacity: 5 Ton, Use: Versatile Load Lifting

47	Lifting Belt 2 ton	ISO 1492-1	GB/T 8521	Mazzella Model MA-LB2	Zhejiang Dingli Model ZD-LB2	Type: Lifting Belt, Capacity: 2 Ton, Use: General Material Handling
48	Plier Set of all types	ISO 5745	GB/T 15725	Klein Tools Model KT-PS	Shanghai Tools Model ST-PS	Type: Plier Set, Includes: Various Types, Use: Multi-purpose Mechanical and Electrical Work
49	Shovel	ISO 2045	GB/T 15719	Ames Model AM-SH	Hebei Iron Model HI-SH	Type: Shovel, Use: Digging and Earth Moving, Material: Carbon Steel
50	Pickaxe	ISO 6788	GB/T 20913	Fiskars Model FS-PA	Jiangsu Forge Model JF-PA	Type: Pickaxe, Use: Breaking Hard Ground, Material: Hardened Steel
51	L Key Set	ISO 2936	GB/T 5252	Bondhus Model BH-LKS	Guangzhou Tools Model GZ-LKS	Type: Hex Key Set, Use: Driving Bolts and Screws, Includes: Multiple Sizes
52	Hammer Small Size	ISO 15601	GB/T 13473	Estwing Model EW-HSS	Zhejiang Hammer Model ZH-HSS	Type: Hammer, Size: Small, Use: General Carpentry and Construction
53	Dust Blower	ISO 5011	GB/T 13277	Bosch Model BO-DB	Suzhou Air Model SA-DB	Type: Dust Blower, Use: Cleaning Dust from Equipment and Workspaces
54	Cutting Disc	ISO 6103	GB/T 2486	Norton Model NT-CD	Dalian Abrasives Model DL-CD	Type: Cutting Disc, Use: Metal Cutting, Diameter: Variable
55	Pin Grinder	ISO 28927	GB/T 15644	DeWalt Model DW-PG	Beijing Precision Model BJ-PG	Type: Pin Grinder, Use: Detail Grinding and Finishing

DRAWINGS

