



NATIONAL POWER CORPORATION

SUPPLEMENTAL / BID BULLETIN NO. 2
to the Bid Documents for the:

**SUPPLY AND DELIVERY OF SPARE PARTS AT BALONGBONG HYDROELECTRIC
POWER PLANT UNDER PR NO. S1-BHP23-010 / PB230725-CM00193**

07 SEPTEMBER 2023

All prospective bidders and authorized copy holders of the Bid Documents of the above - mentioned project are hereby advised of the changes in the Bid Documents, to wit:

A. BID DOCUMENTS:

- Please see the following provisions in the attached revised Bid Document:
- Attachment 1
 - Item No. 1 Scope of Bid in Section II – Instructions to Bidders (page II-ITB-1)
 - Item No. 5.3 in Section III – Bid Data Sheet (page III-BDS-1)
 - Item No. 10.4 in Section III – Bid Data Sheet (page III-BDS-1)
 - Item No. TS-2.0 Scope of Works in Part I of Section VI – Technical Specifications (pages VI-TS-1 to VI-TS-2)
 - Item No. TS-5.0 Drawings and Documents to be Submitted in Part I of Section VI – Technical Specifications (pages VI-TS-3)
 - Item No. 1.0 Spare Parts Data in Part II of Section VI – Technical Specifications (pages VI-TDS-2 to VI-TDS-3)
 - Section VIII – Schedule of Requirements

B. BID SUBMISSION / OPENING:

| FROM | TO |
|--------------------------------|---|
| POSTPONED UNTIL FURTHER NOTICE | <u>19 SEPTEMBER 2023</u> <u>KANAO ROOM</u> <u>9:30 AM</u> |

All other terms and conditions shall remain the same.

For the information and guidance of all authorized copy holders of the Terms of Reference (TOR) and prospective bidders.

For the Bids and Awards Committee:

ATTY. MELCHOR P. RIDULME
Vice President, Office of the Legal Counsel and
Chairman, Bids and Awards Committee



NATIONAL POWER CORPORATION
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Quezon City 1100, Philippines
Tel. Nos. (632) 8921-3541 to 80 • Fax No. (632) 8921-2468
Website: www.napocor.gov.ph



ATTACHMENT 1

| ITEM NO. | DESCRIPTION/SPECIFICATION | QTY | U/M | UNIT PRICE | TOTAL PRICE |
|-----------------|---|------------|------------|-------------------|---------------------|
| 1 | Ammeter, 400A max 60HZ, MC03820156, GL2 CT 400/5, GBT7676-98 window type, analog | 4 | PC | 5,250.00 | 21,000.00 |
| 2 | Contactator, magnetic, SC-N1 thermal overload relay (240V,20A 3 PHASE,60Hz) | 2 | PC | 54,000.00 | 108,000.00 |
| 3 | Gauge, oil pressure with switch model no.JB957-67, YX-150,220-380V, 10VA | 4 | PC | 15,000.00 | 60,000.00 |
| 4 | Insulator, post, bus bar, 15KV, indoor (busbar 3/16 in thickness x 2in width) | 8 | PC | 18,750.00 | 150,000.00 |
| 5 | Meter, power factor,F96-COS 0.5-1-0.5 3 CLASS 60HZ OR GL2, GB776-76, 5A 100V | 3 | PC | 7,000.00 | 21,000.00 |
| 6 | Pump oil pressure 3PH, 4KW, 1705RPM type JD3-11254TH (HYDRAULIC 220/380V), 15.08/8.72 A | 1 | SET | 200,000.00 | 200,000.00 |
| 7 | Relay , 24V AC COIL, 5A SWITCHING CURRENT, 2PDT, MY4 | 1 | PC | 25,000.00 | 25,000.00 |
| 8 | Relay, switch off ZJ3-3A, 110V, 60HZ, 10A | 1 | PC | 54,000.00 | 54,000.00 |
| 9 | Relay, overcurrent DL-24-C 110V, 10A, 50-60Hz | 3 | PC | 18,000.00 | 54,000.00 |
| 10 | Relay, undervoltage DY-28-C 60HZ, 100V | 3 | PC | 18,000.00 | 54,000.00 |
| 11 | Relay, auxiliary, control supply relay, 110VDC, 2A, DZS-12B | 3 | PC | 18,000.00 | 54,000.00 |
| 12 | Relay, auxiliary instantaneous OC relay, 100VDC DXM-2A, 0.075A | 3 | PC | 18,000.00 | 54,000.00 |
| 13 | Relay, auxiliary, start/stop failure, 110VDC, 2A, DZ-31B | 3 | PC | 18,000.00 | 54,000.00 |
| 14 | Relay, power delay DZB-15B, 110V, 2A | 3 | PC | 18,000.00 | 54,000.00 |
| 15 | Relay, time delay DS-22/C 110VDC | 3 | PC | 18,000.00 | 54,000.00 |
| 16 | Sensor modular linear displacement transmitter KTR11 125m lin. ±0.05% .5kΩ Date/SR: ZON1226/002 | 2 | PC | 100,000.00 | 200,000.00 |
| 17 | Switch, rotary selector for voltmeter: 3 X 2.5 function: off, L1-L2, L2-L3, L3 L1 readings VI-500V, 16A, JB/DQ 4312-88, Xk06-001-3417 | 5 | PC | 8,000.00 | 40,000.00 |
| 18 | Breaker, circuit oil (OCB)/vacuum (VCB), 3 phase 12kV 630A, indoor (including installation and retrofitting if VCB) | 1 | UNIT | 1,418,000.00 | 1,418,000.00 |
| 19 | Surge arrester, 15KV 10KA, silicon/porcelain type, indoor | 1 | UNIT | 1,200,000.00 | 1,200,000.00 |
| | <i>x-x-x nothing follows x-x-x</i> | | | | 3,875,000.00 |

SECTION II – INSTRUCTIONS TO BIDDERS

1. Scope of Bid

The National Power Corporation (NPC or NAPOCOR) wishes to receive Bids for the **SUPPLY AND DELIVERY OF SPARE PARTS AT BALONGBONG HYDROELECTRIC POWER PLANT**, with identification number **PR NO. S1-BHP23-010**.

The Procurement Project (referred to herein as "Project") is composed of nineteen (19) items and shall be awarded to one (1) Bidder in one complete contract, the details of which are described in Section VI (Technical Specifications).

2. Funding Information

2.1. The GOP through the source of funding as indicated below for CY 2023 in the amount of **₱3,875,000.00**.

2.2. The source of funding is the Corporate Operating Budget of the National Power Corporation.

3. Bidding Requirements

The Bidding for the Project shall be governed by all the provisions of RA No. 9184 and its 2016 revised IRR, including its Generic Procurement Manuals and associated policies, rules and regulations as the primary source thereof, while the herein clauses shall serve as the secondary source thereof.

Any amendments made to the IRR and other GPPB issuances shall be applicable only to the ongoing posting, advertisement, or **IB** by the BAC through the issuance of a supplemental or bid bulletin.

The Bidder, by the act of submitting its Bid, shall be deemed to have verified and accepted the general requirements of this Project, including other factors that may affect the cost, duration and execution or implementation of the contract, project, or work and examine all instructions, forms, terms, and project requirements in the Bidding Documents.

4. Corrupt, Fraudulent, Collusive, and Coercive Practices

The Procuring Entity, as well as the Bidders and Suppliers, shall observe the highest standard of ethics during the procurement and execution of the contract. They or through an agent shall not engage in corrupt, fraudulent, collusive, coercive, and obstructive practices defined under Annex "I" of the 2016 revised IRR of RA No. 9184 or other integrity violations in competing for the Project.

5. Eligible Bidders

5.1. Only Bids of Bidders found to be legally, technically, and financially capable will be evaluated.

SECTION III - BID DATA SHEET

| ITB Clause | |
|-------------------|---|
| 5.3 | <p>For this purpose, contracts similar to the Project shall be: Supply and Delivery of Mechanical and/or Electrical Parts/Components/Equipment for Hydroelectric Power Plants.</p> <p>The Single Largest Completed Contract (SLCC) as declared by the bidder shall be verified and validated to ascertain such completed contract. Hence, bidders must ensure access to sites of such projects/equipment to NPC representatives for verification and validation purposes during post-qualification process.</p> <p>It shall be a ground for disqualification, if verification and validation cannot be conducted for reasons attributable to the Bidder.</p> |
| 7.1 | <p>Subcontracting may be allowed on transport, local/non-skilled labor under the supervision of the Bidder. The Bidder shall not be relieved from any liability or obligation that may arise from the performance of the Subcontractor.</p> |
| 10.4 | <p>The list of on-going contracts (Form No. NPCSF-GOODS-02) shall be supported by the following documents for each on-going contract to be submitted during Post-Qualification:</p> <ol style="list-style-type: none"> 1. Contract/Purchase Order and/or Notice of Award 2. Certification coming from the project owner/client that the performance is satisfactory as of the bidding date <p>The bidder shall declare in this form all his on-going government and private contracts including contracts where the bidder (either as individual or as a Joint Venture) is a partner in a Joint Venture agreement other than his current joint venture where he is a partner. Non declaration will be a ground for disqualification of bid.</p> <p>The Statement of the bidder's Single Largest Completed Contract (SLCC) similar to the contract to be bid (Form No. NPCSF-GOODS-03) shall be supported by the following documents to be submitted during Bid Opening:</p> <ol style="list-style-type: none"> 1. Certificate of Acceptance; or Certificate of Completion; or Official Receipt(O.R); or Sales Invoice <p>Any single bidder/s who already procured/secured the bidding documents but want to avail the Joint Venture Agreement (JVA) shall inform the BAC in writing prior to the bid opening for records and documentation purposes.</p> |

Section VI - Technical Specifications

Part I - Technical Specifications

TS-1.0 GENERAL

This specification covers the features and technical requirements for the **SUPPLY AND DELIVERY OF SPARE PARTS AT BALONGBONG HYDROELECTRIC POWER PLANT.**

All supplied spare parts shall be new and unused. They shall be suitable for the intended purpose and shall comply with all applicable regulations, quality, and dimension standards.

The Supplier shall accept full responsibility for his work including documentation, preparation for shipment, inspection, warranty provisions and compliance with the applicable codes and standards and the requirements of this Specification.

TS-2.0 SCOPE OF WORKS

The scope of work shall cover the **SUPPLY AND DELIVERY OF SPARE PARTS AT BALONGBONG HYDROELECTRIC POWER PLANT.**

Schedule of Requirements of Spare Parts

| ITEM | DESCRIPTION | QTY. |
|------|---|-------|
| 1 | Ammeter, 400A max 60HZ, MC03820156, GL2 CT 400/5, GBT7676-98 window type, analog | 4 PC |
| 2 | Contactor, magnetic, SC-N1 thermal overload relay (240V,20A 3 PHASE,60Hz) | 2 PC |
| 3 | Gauge, oil pressure with switch model no. JB957-67, YX-150,220-380V, 10VA | 4 PC |
| 4 | Insulator, post, bus bar, 15KV, indoor (busbar 3/16 in thickness x 2in width) | 8 PC |
| 5 | Meter, power factor, F96-COS 0.5-1-0.5 3 CLASS 60HZ OR GL2, GB776-76, 5A 100V | 3 PC |
| 6 | Pump oil pressure 3PH, 4KW, 1705RPM type JD3-11254TH (HYDRAULIC 220/380V), 15.06/8.72 A | 1 SET |
| 7 | Relay, 24V AC COIL, 5A SWITCHING CURRENT, 2PDT, MY4 | 1 PC |
| 8 | Relay, switch off ZJ3-3A, 110V, 60HZ, 10A | 1 PC |
| 9 | Relay, overcurrent DL-24-C 110V, 10A, 50-60Hz | 3 PC |
| 10 | Relay, undervoltage DY-28-C 60HZ, 100V | 3 PC |
| 11 | Relay, auxiliary, control supply relay, 110VDC, 2A, DZS-12B | 3 PC |
| 12 | Relay, auxiliary instantaneous OC relay, 100VDC DXM-2A, 0.075A | 3 PC |
| 13 | Relay, auxiliary, start/stop failure, 110VDC, 2A, DZ-31B | 3 PC |

| ITEM | DESCRIPTION | QTY. |
|------|--|--------|
| 14 | Relay, power delay DZB-15B, 110V, 2A | 3 PC |
| 15 | Relay, time delay DS-22/C 110VDC | 3 PC |
| 16 | Sensor modular linear displacement transmitter KTR11 125m lin. ±0.05% .5kΩ Date/SR: ZON1226/002 | 2 PC |
| 17 | Switch, rotary selector for voltmeter: 3 X 2.5 function: off, L1-L2, L2-L3, L3-L1 readings VI-500V, 16A, JB/DQ 4312- 88, Xk06-001-3417 | 5 PC |
| 18 | Breaker, circuit oil (OCB)/vacuum (VCB), 3 phase 12kV 630A, indoor (including installation and retrofitting if VCB) | 1 UNIT |
| 19 | Surge arrester, 15KV 10KA, silicon/porcelain type, indoor | 1 UNIT |

TS-3.0 DELIVERY PERIOD AND LOCATION

The delivery period shall be **ONE HUNDRED TWENTY (120) CALENDAR DAYS** reckoned from receipt of Notice to Proceed.

The spare parts shall be delivered to **Balongsong HPP, Sitio Balongsong, Brgy. Sibacungan, Bato, Catanduanes.**

The Supplier shall be responsible for visiting the site and take particular reference to its accessibility, means of communication and transportation, and all other factors that could hamper the smooth execution of the contract.

Any and/or all expenses arising through the lack of knowledge or understanding regarding the existing conditions of the site shall be the responsibility of the Supplier and no additional payment thereof shall be made by NPC.

TS-4.0 ACCEPTANCE CRITERIA

The Supplier shall perform at his own expense all inspection required to ensure adequacy of design, material, workmanship and conformance of the supplied spare parts to the requirements of the specifications and standards.

Necessary inspections at the place of delivery shall also be conducted with the presence of NPC representative.

Upon arrival of spare parts at delivery site, NPC and the Supplier or their authorized representatives, shall jointly verify the spare parts following the steps below:

- a. Inspection and verification of the packing list;
- b. Visual inspection of the condition of the packing and its surfaces; and
- c. Partial opening of the crates and plastic sheet protection of spare parts to verify the content and its physical condition and to check pilferage or damage during shipment and storage.

A record shall be prepared carefully noting all eventual shortages, defects or damages, signed by the Supplier and concurred by NPC. All shortages and damages noted shall be immediately replaced by the Supplier at his own cost and shall ensure the timely delivery of replacement without affecting the agreed overall contract implementation schedule.

Acceptance certificate shall be issued only after all the required inspection and verification are satisfactorily conducted and performed.

If any spare part fails to pass the inspection, NPC may at his own judgment, direct the Supplier to replace the spare parts.

TS-5.0 DRAWINGS AND DOCUMENTS TO BE SUBMITTED

- a. To be submitted with the bid
 - a.1 Completely filled-out Technical Data Sheets.
- b. To be submitted before/ during delivery of spare parts
 - b.1 "Certificate of Origin" from the Manufacturer.
 - b.2 "Warranty" Certificate for one (1) year against factory defects/workmanship.

TS-6.0 GUARANTEE

The Supplier shall guarantee the replacement of the supplied spare parts at his own expense against defect in design, workmanship and materials for a period of one (1) year after acceptance by NPC.

The Supplier shall submit a Warranty Certificate (at least 1 year) effective from the date of acceptance by NPC.

PART II – TECHNICAL DATA SHEETS

**SUPPLY AND DELIVERY OF SPARE PARTS AT BALONGBONG
HYDROELECTRIC POWER PLANT**

1. The Bidder shall complete this technical data sheet and submit the filled-up form with the technical proposal. The Bidder shall use continuation sheets as necessary for any other additional information keeping to the format shown herein or by reproducing the same.
2. NPC reserves the right to reject Bids without proper and/or specific data and information as required herein.
3. The data required are technical features and characteristics of the Equipment/Component/Parts to be provided by the bidder. Bidder's proposal shall at least be equal or superior to the requirements specified by NPC.

1.0 SPARE PARTS DATA

| ITEM | DESCRIPTION | NPC REQUIREMENTS | | SUPPLIER'S DATA | |
|------|---|------------------|-------|-----------------|-----|
| | | PART NO. | QTY. | MODEL NO. | QTY |
| 1 | Ammeter, 400A max 60HZ, MC03820156, GL2 CT 400/5, GBT7676-98 window type, analog | | 4 PC | | |
| 2 | Contact, magnetic, SC-N1 thermal overload relay (240V,20A 3 PHASE,60Hz) | | 2 PC | | |
| 3 | Gauge, oil pressure with switch model no. JB957-67, YX-150,220-380V, 10VA | | 4 PC | | |
| 4 | Insulator, post, bus bar, 15KV, indoor (busbar 3/16 in thickness x 2in w) | | 8 PC | | |
| 5 | Meter, power factor, F96-COS 0.5-1-0.5 3 CLASS 60HZ OR GL2, GB776-76, 5A 100V | | 3 PC | | |
| 6 | Pump oil pressure 3PH, 4KW, 1705RPM type JD3-11254TH (HYDRAULIC 220/380V), 15.06/8.72 A | | 1 SET | | |
| 7 | Relay, 24V AC COIL, 5A SWITCHING CURRENT, 2PDT, MY4 | | 1 PC | | |
| 8 | Relay, switch off ZJ3-3A, 110V, 60HZ, 10A | | 1 PC | | |
| 9 | Relay, overcurrent DL-24-C 110V, 10A, 50-60Hz | | 3 PC | | |
| 10 | Relay, undervoltage DY-28-C 60HZ, 100V | | 3 PC | | |
| 11 | Relay, auxiliary, control supply relay, 110VDC, 2A, DZS-12B | | 3 PC | | |

SECTION VI – TECHNICAL SPECIFICATIONS

| | | | | | |
|----|---|--|--------|--|--|
| 12 | Relay, auxiliary instantaneous OC relay, 100VDC DXM-2A, 0.075A | | 3 PC | | |
| 13 | Relay, auxiliary, start/stop failure, 110VDC, 2A, DZ-31B | | 3 PC | | |
| 14 | Relay, power delay DZB-15B, 110V, 2A | | 3 PC | | |
| 15 | Relay, time delay DS-22/C 110VDC | | 3 PC | | |
| 16 | Sensor modular linear displacement transmitter KTR11 125m lin. ±0.05% .5kΩ Date/SR: ZON1226/002 | | 2 PC | | |
| 17 | Switch, rotary selector for voltmeter: 3 X 2.5 function: off, L1-L2, L2-L3, L3-L1 readings VI-500V, 16A, JB/DQ 4312-88, Xk06-001-3417 | | 5 PC | | |
| 18 | Breaker, circuit oil (OCB)/vacuum (VCB), 3 phase 12kV 630A, indoor (including installation and retrofitting if VCB) | | 1 UNIT | | |
| 19 | Surge arrester, 15KV 10KA, silicon/porcelain type, indoor | | 1 UNIT | | |

Name of Bidder

Name and Signature of
Authorized Representative

Signature

Standard Form Number: NPCSF-GOODS-03

The Statement of the bidder's Single Largest Completed Contract (SLCC) similar to the contract to be bid

Business Name : _____
Business Address : _____

| Name of Contract | a. Owner's Name b. Address c. Telephone Nos. | Nature of Work | Contractor's Role | | a. Amount at Award b. Amount at Completion c. Duration | a. Date Awarded b. Contract Effectivity c. Date Completed |
|------------------|--|----------------|-------------------|---|--|---|
| | | | Description | % | | |
| | | | | | | |

- Notes: 1. The bidder must state only one (1) Single Largest Completed Contract (SLCC) similar to the contract to be bid.
2. Supporting documents such as the following: Certificate of Acceptance; or Certificate of Completion; or Official Receipt (O.R); or Sales Invoice for the contract stated above shall be submitted during Bid Opening.

Submitted by : _____
(Printed Name & Signature)
Designation : _____
Date : _____

Section VII - SCHEDULE OF REQUIREMENTS
(Bid Price Schedule)
SUPPLY AND DELIVERY OF SPARE PARTS AT BALONGBONG HYDROELECTRIC POWER PLANT

| ITEM NO. | DESCRIPTION | QTY.- UNIT | C O D E | UNIT PRICE FOR GOODS AND RELATED SERVICES TO BE SUPPLIED AND DELIVERED | | | | | TOTAL PRICE |
|--------------|--|------------|---------|--|--|---|--|---|---|
| | | | | Total Price of Goods Delivered up to Philippine Port (Phil. Peso)+ | Import Duties & other Levies Imposed by Phil. Govt. (Phil. Peso) | Value Added Tax and other Taxes Imposed by Phil. Govt. (Phil. Peso) | Local Transport from Port to Delivery Site (Phil. Peso)< | Total Unit Price (Phil. Peso) (E+F+G+H) | Local Currency (Phil. Peso) (J = I x C) |
| (A) | (B) | (C) | (D) | (E) | (F) | (G) | (H) | (I) | (J) |
| 1 | Ammeter, 400A max 60HZ, MC03820156, GL2 CT 400/5, GBT7676-98 window type, analog | 4 | PC | | | | | | |
| 2 | Contact, magnetic, SC-N1 thermal overload relay (240V, 20A 3 PHASE, 60Hz) | 2 | PC | | | | | | |
| 3 | Gauge, oil pressure with switch model no. JB957-67, YX-150, 220-380V, 10VA | 4 | PC | | | | | | |
| 4 | Insulator, post, bus bar, 15KV, indoor (busbar 3/16 in thickness x 2 in w) | 8 | PC | | | | | | |
| 5 | Meter, power factor, F96-CDS 0.5-1-0.5 3 CLASS 60HZ OR GL2, GB776-76, 5A 100V | 3 | PC | | | | | | |
| 6 | Pump oil pressure 3PH, 4KW, 1705RPM type JD3-11254TH (HYDRAULIC 220/380V), 15.06/8.72 A | 1 | SET | | | | | | |
| 7 | Relay, 24V AC COIL, 5A SWITCHING CURRENT, 2PDT, MY4 | 1 | PC | | | | | | |
| 8 | Relay, switch off ZJ3-3A, 110V, 60HZ, 10A | 1 | PC | | | | | | |
| 9 | Relay, overcurrent DL-24-C 110V, 10A, 50-60Hz | 3 | PC | | | | | | |
| 10 | Relay, undervoltage DY-28-C 60HZ, 100V | 3 | PC | | | | | | |
| 11 | Relay, auxiliary, control supply relay, 110VDC, 2A, DZS-12B | 3 | PC | | | | | | |
| 12 | Relay, auxiliary instantaneous DC relay, 100VDC DXM-2A, 0.075A | 3 | PC | | | | | | |
| 13 | Relay, auxiliary, start/stop failure, 110VDC, 2A, DZ-31B | 3 | PC | | | | | | |
| 14 | Relay, power delay DZB-15B, 110V, 2A | 3 | PC | | | | | | |
| 15 | Relay, time delay DS-22/C 110VDC | 3 | PC | | | | | | |
| 16 | Sensor modular linear displacement transmitter KTR11 125m in. ±0.05% .5kΩ Date/SR: ZDN1226/002 | 2 | PC | | | | | | |
| 17 | Switch, rotary selector for voltmeter: 3 X 2.5 function: off, L1, L2, L2-L3, L3-L1 readings V1-500V, 16A, JB/OQ 4312-68, XK06-001-3417 | 5 | PC | | | | | | |
| 18 | Breaker, circuit oil (OCB)/Vacuum (VCB), 3 phase 12kV 630A, indoor (including installation and retrofitting if VCB) | 1 | UNIT | | | | | | |
| 19 | Surge arrester, 15KV 10KA, silicon/porcelain type, indoor | 1 | UNIT | | | | | | |
| TOTAL | | | | | | | | | P _____ |
| | | | | | | | | (Amount in Words) | |

- * Bidders shall enter a code representing the Country of Origin of all Imported equipment, materials and accessories
- + Cost of equipment, freight, insurance, etc. up to Phil. port of entry
- < Unit Price for Local Transportation, insurance and other local costs incidental to delivery of the goods from the Phil port of entry to final delivery site

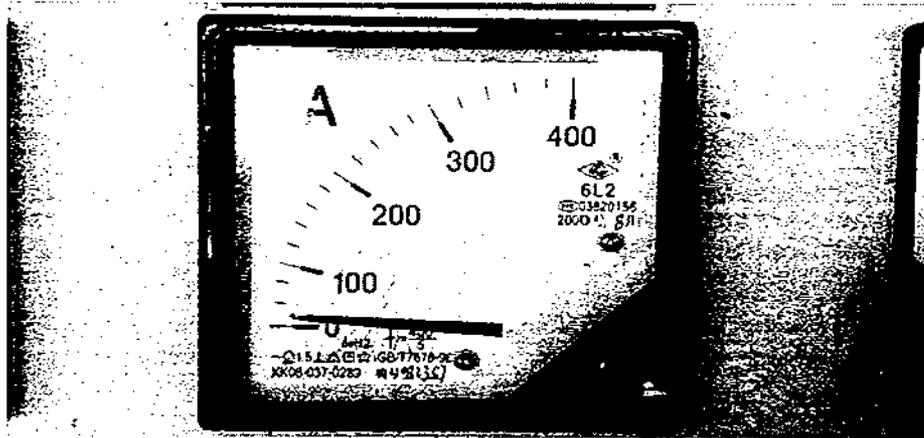
Note: Final delivery site of spare parts shall be at NPC-Balongsong Hydroelectric Power Plant, Brgy. Sibacungan, Sitio Balongsong, Bato, Catanduanes

| Code | Country of Origin |
|------|-------------------|
| | |
| | |
| | |

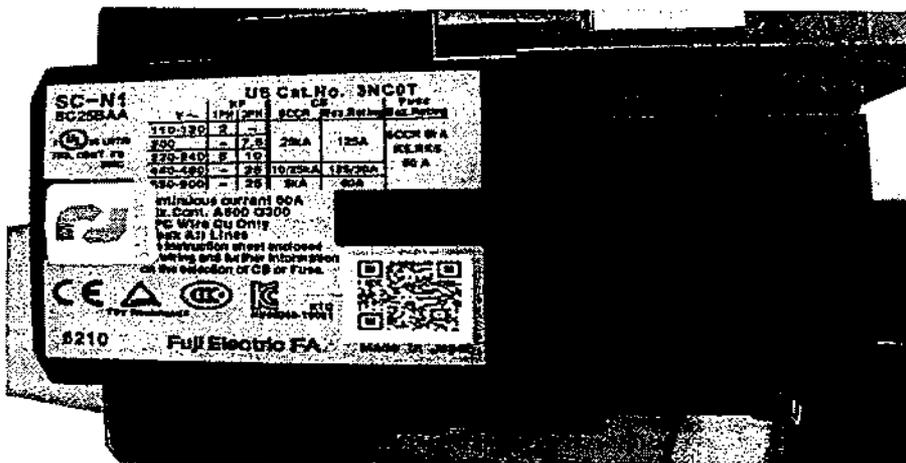
Name of Bidder: _____
Signature of Bidder: _____

SPARE PARTS

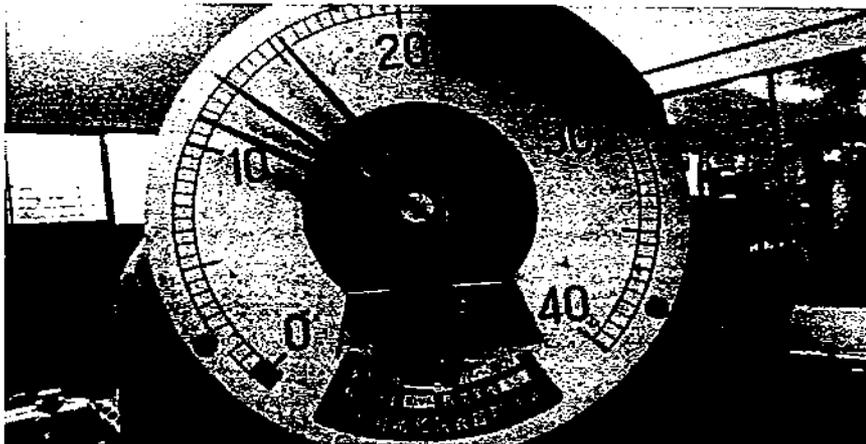
1. Ammeter, 400A max 60HZ, MC03820156, GL2 CT 400/5, GBT7676-98 window type, analog



2. Contactor, magnetic, SC-N1 thermal overload relay (240V,20A 3 PHASE,60Hz)



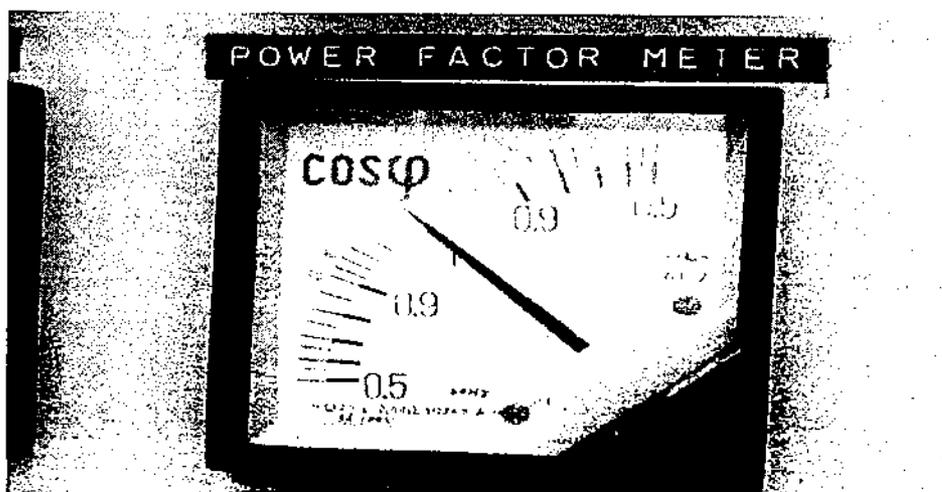
3. Gauge, oil pressure with switch model no. JB957-67, YX-150,220-380V, 10VA



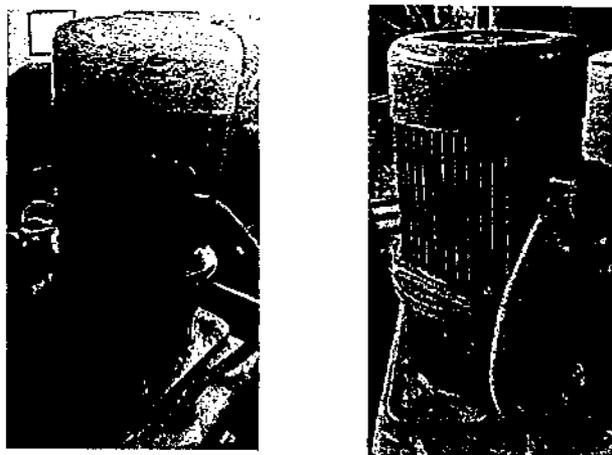
4. Insulator, post, bus bar, 15KV, indoor (busbar 3/16 in thickness x 2in w)



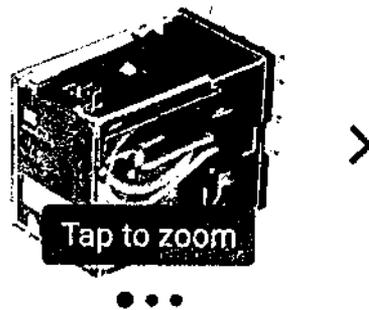
5. Meter, power factor, F96-COS 0.5-1-0.5 3 CLASS 60HZ OR GL2, GB776-76, 5A 100V



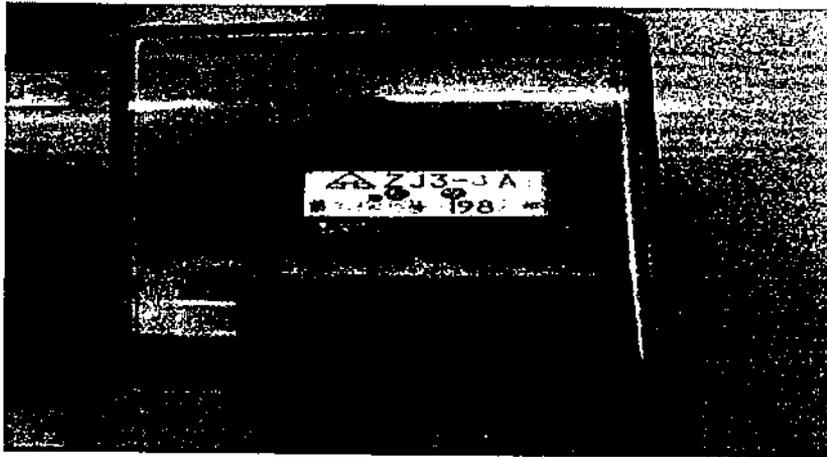
6. Pump oil pressure 3PH, 4KW, 1705RPM type JD3-11254TH (HYDRAULIC 220/380V), 15.06/8.72 A



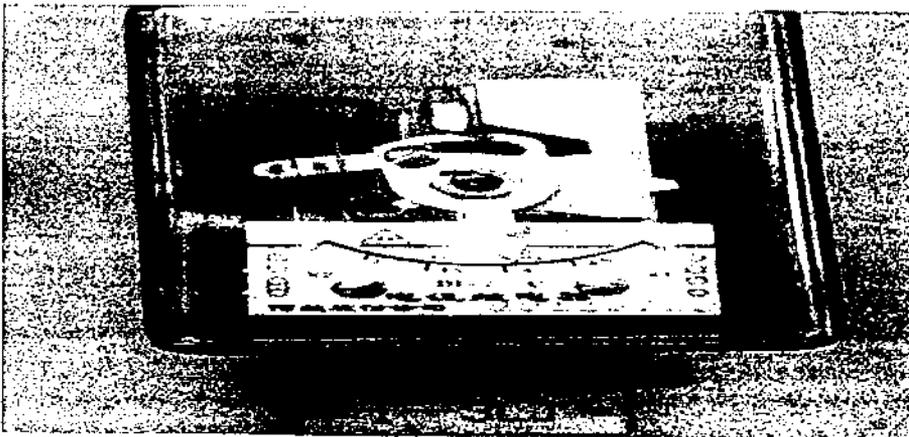
7. Relay, 24V AC COIL, 5A SWITCHING CURRENT, 2PDT, MY4



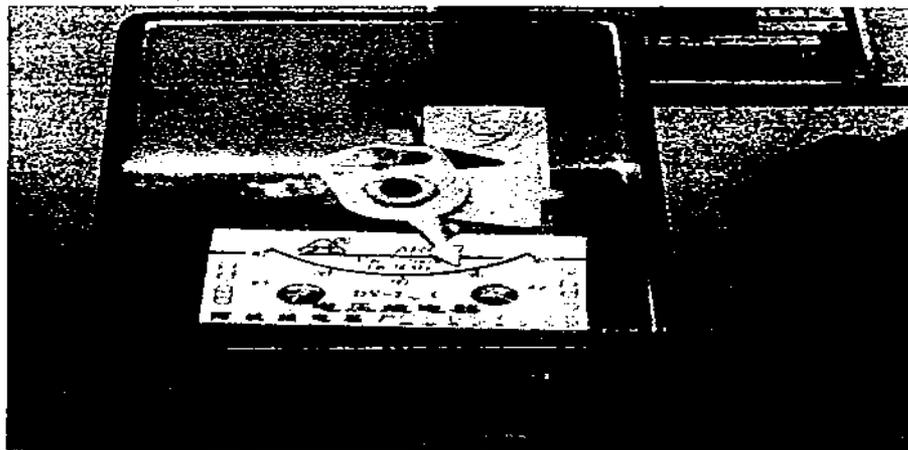
8. Relay, switch off ZJ3-3A, 110V, 60HZ, 10A



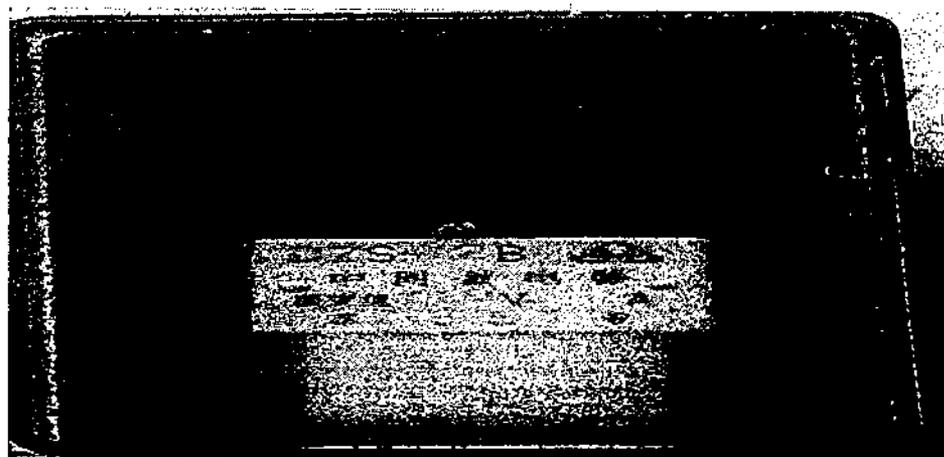
9. Relay, overcurrent DL-24-C 110V, 10A, 50-60Hz



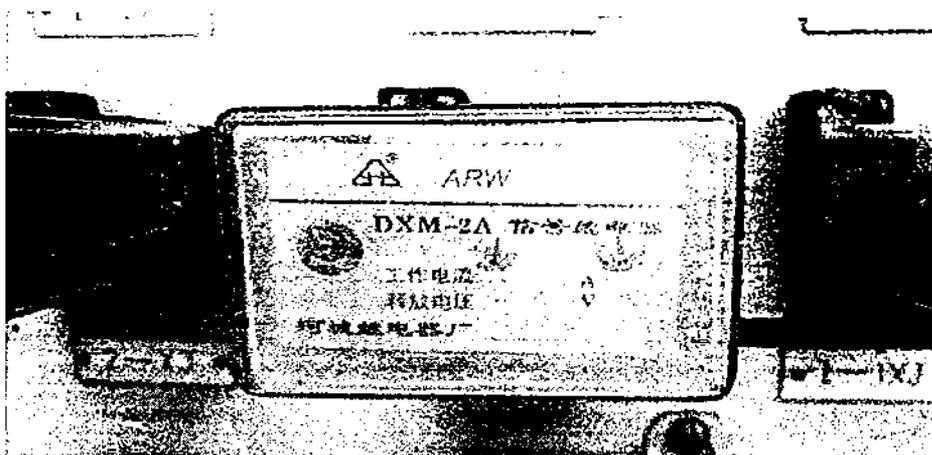
10. Relay, undervoltage DY-28-C 60HZ, 100V



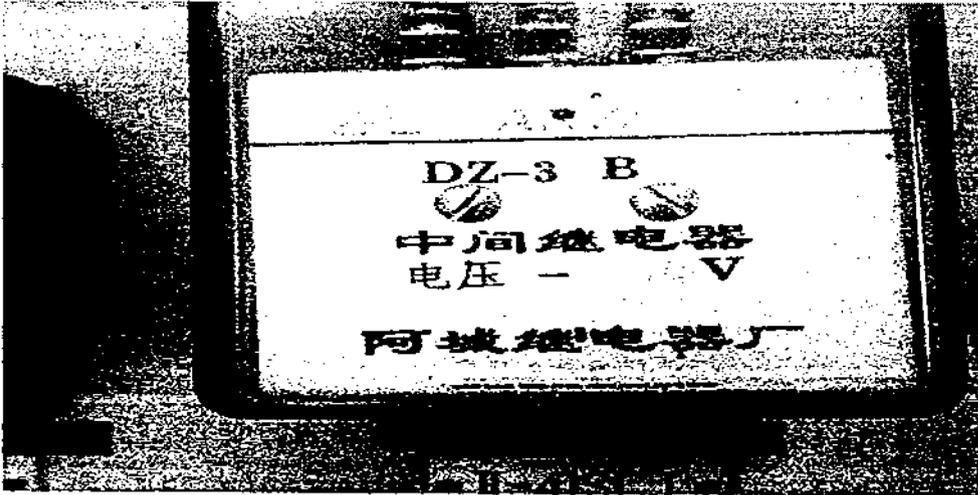
11. Relay, auxiliary, control supply relay, 110VDC, 2A, DZS-12B



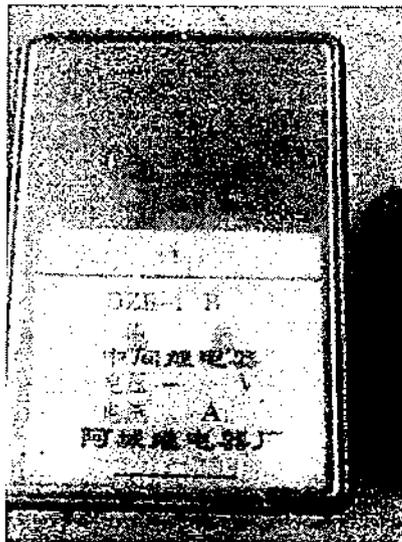
12. Relay, auxiliary instantaneous OC relay, 100VDC DXM-2A, 0.075A



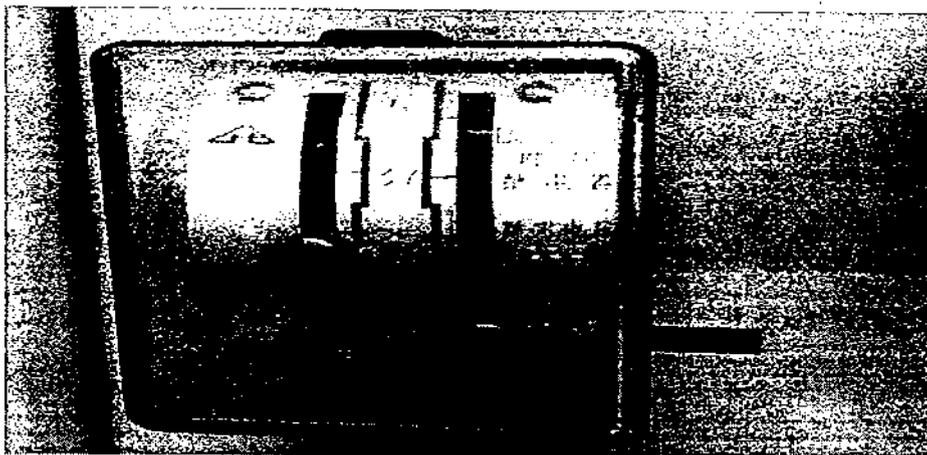
13. Relay, auxiliary, start/stop failure, 110VDC, 2A, DZ-31B



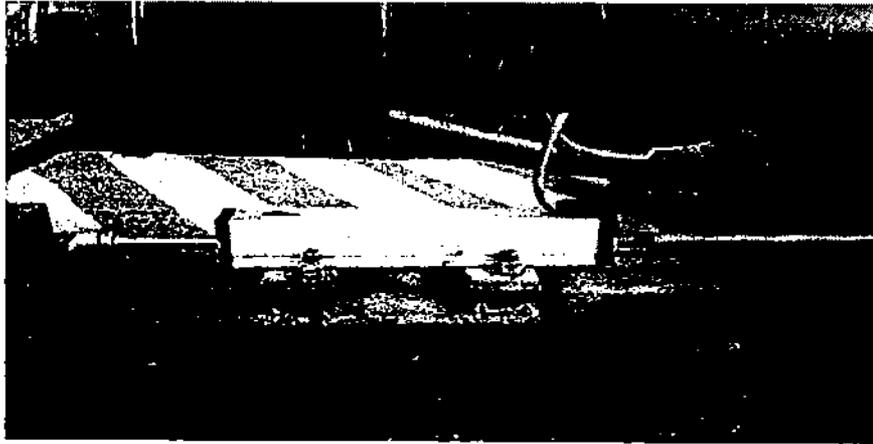
14. Relay, power delay DZB-15B, 110V, 2A



15. Relay, time delay DS-22/C 110VDC



16. Sensor modular linear displacement transmitter KTR11 125m lin. $\pm 0.05\%$.5k Ω
Date/SR: ZON1226/002



17. Switch, rotary selector for voltmeter: 3 X 2.5 function: off, L1-L2, L2-L3, L3-L1
readings VI-500V, 16A, JB/DQ 4312-88, Xk06-001-3417



18. Breaker, circuit oil (OCB)/Vacuum (VCB), 3 phase 12kV 630A, indoor (including installation and retrofitting if VCB)



19. Surge arrester, 15KV 10KA, silicon/porcelain type, indoor

