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INVITATION TO BID

Procurement of Power Transformer for Anutapura Hospital in Palu

ITB No.: ITB/UNDP/PETRA/87241/005/2019

Project: Sulawesi /Lombok Programme for Earthquake and Tsunami Infrastructure
Reconstructive Assistance (PETRA) Project

Country: Indonesia

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Dear Sir/Madam,

The United Nations Development Programme (UNDP) hereby invites you to submit a Bid to this Invitation to Bid (ITB) for the above-referenced subject.

Detailed Technical Specification as well as other requirements are listed in the ITB available on UNDP ATLAS e-Tendering system (<https://etendering.partneragencies.org>) **Event ID: 5024**

Your bid, should be submitted in accordance with the ITB requirements, through the UNDP ATLAS e-Tendering system and by the deadline indicated in <https://etendering.partneragencies.org>.

You are kindly requested to indicate whether your company intends to submit a Bid by clicking **"Accept Invitation"** but not later than **10 December 2019**. If this is not the case, UNDP would appreciate indicating your reason, for our records.

If you have not registered in the system before, you can register by logging in using:

Username: event.guest

Password: why2change

The step by step instructions for registration of bidders and quotation submission through the UNDP ATLAS e-Tendering system is available in the attached "Instructions Manual for the Bidders". Should you require any training on the UNDP ATLAS e-Tendering system or face any difficulties when registering your company or submitting your quotation, please send an email to yusef.millah@undp.org cc. martin.kurnia@undp.org

Please note that ATLAS has following minimum requirements for password:

1. Minimum length of 8 characters;
2. At least one capital letter; and
3. At least one number.

New proposer registering for the first time, the system will not accept any password that does not meet the above requirement, and thus registration cannot be completed.

For existing vendor whose current password does not meet the abovementioned password requirements, the system will prompt you to change your password upon signing in. Please change your password in accordance with the abovementioned password requirements to be able to login to the system.

The user guide and video are available to you in the UNDP public website in this link: <http://www.undp.org/content/undp/en/home/operations/procurement/business/procurement:notices/resources/>. You can also access the instruction from youtube with link: <https://www.youtube.com/watch?v=Trv1FX6reu8&feature=youtu.be>.

You are advised to use Internet Explorer (Version 10 or above) to avoid any incompatibility issues with the re-tendering system.

No hard copy or email submissions will be accepted by UNDP.

UNDP looks forward to receiving your Proposal and appreciate your interest to participate in UNDP procurement opportunities.

Yours sincerely,



Martin Kurnia
Head of Procurement

SECTION 1. LETTER OF INVITATION

The United Nations Development Programme (UNDP) hereby invites you to submit a Bid to this Invitation to Bid (ITB) for the above-referenced subject.

This ITB includes the following documents and the General Terms and Conditions of Contract which is inserted in the Bid Data Sheet:

- Section 1: This Letter of Invitation
- Section 2: Instruction to Bidders
- Section 3: Bid Data Sheet (BDS)
- Section 4: Evaluation Criteria
- Section 5: Schedule of Requirements and Technical Specifications
- Section 6: Returnable Bidding Forms
 - o Form A: Bid Submission Form
 - o Form B: Bidder Information Form
 - o Form C: Joint Venture/Consortium/Association Information Form
 - o Form D: Qualification Form
 - o Form E: Format of Technical Bid
 - o Form F: Price Schedule

If you are interested in submitting a Bid in response to this ITB, please prepare your Bid in accordance with the requirements and procedure as set out in this ITB and submit it by the Deadline for Submission of Bids set out in Bid Data Sheet.

Please acknowledge receipt of this ITB by sending an email to **galang.wijaya@undp.org**, indicating whether you intend to submit a Bid or otherwise. You may also utilize the "Accept Invitation" function in eTendering system, where applicable. This will enable you to receive amendments or updates to the ITB. Should you require further clarifications, kindly communicate with the contact person/s identified in the attached Data Sheet as the focal point for queries on this ITB.

UNDP looks forward to receiving your Bid and thank you in advance for your interest in UNDP procurement opportunities.

Issued by



Name: Sylvia Siska Indriani
Title: PETRA Procurement Analyst
Date: December 6, 2019

Approved by:



Name: Martin Kurnia
Title: Head of Procurement
Date: December 6, 2019

SECTION 2. INSTRUCTION TO BIDDERS

GENERAL PROVISIONS	
1. Introduction	<p>1.1 Bidders shall adhere to all the requirements of this ITB, including any amendments made in writing by UNDP. This ITB is conducted in accordance with the UNDP Programme and Operations Policies and Procedures (POPP) on Contracts and Procurement which can be accessed at https://popp.undp.org/SitePages/POPPBSUnit.aspx?TermID=254a9f96-b883-476a-8ef8-e81f93a2b38d</p> <p>1.2 Any Bid submitted will be regarded as an offer by the Bidder and does not constitute or imply the acceptance of the Bid by UNDP. UNDP is under no obligation to award a contract to any Bidder as a result of this ITB.</p> <p>1.3 UNDP reserves the right to cancel the procurement process at any stage without any liability of any kind for UNDP, upon notice to the bidders or publication of cancellation notice on UNDP website.</p> <p>1.4 As part of the bid, it is desired that the Bidder registers at the United Nations Global Marketplace (UNGM) website (www.ungm.org). The Bidder may still submit a bid even if not registered with the UNGM. However, if the Bidder is selected for contract award, the Bidder must register on the UNGM prior to contract signature.</p>
2. Fraud & Corruption, Gifts and Hospitality	<p>2.1 UNDP strictly enforces a policy of zero tolerance on proscribed practices, including fraud, corruption, collusion, unethical or unprofessional practices, and obstruction of UNDP vendors and requires all bidders/vendors observe the highest standard of ethics during the procurement process and contract implementation. UNDP's Anti-Fraud Policy can be found at http://www.undp.org/content/undp/en/home/operations/accountability/audit/office_of_audit_andinvestigation.html#anti</p> <p>2.2 Bidders/vendors shall not offer gifts or hospitality of any kind to UNDP staff members including recreational trips to sporting or cultural events, theme parks or offers of holidays, transportation, or invitations to extravagant lunches or dinners.</p> <p>2.3 In pursuance of this policy, UNDP:</p> <p>(a) Shall reject a bid if it determines that the selected bidder has engaged in any corrupt or fraudulent practices in competing for the contract in question;</p> <p>(b) Shall declare a vendor ineligible, either indefinitely or for a stated period, to be awarded a contract if at any time it determines that the vendor has engaged in any corrupt or fraudulent practices in competing for, or in executing a UNDP contract.</p> <p>2.4 All Bidders must adhere to the UN Supplier Code of Conduct, which may be found at http://www.un.org/depts/ptd/pdf/conduct_english.pdf</p>
3. Eligibility	<p>3.1 A vendor should not be suspended, debarred, or otherwise identified as ineligible by any UN Organization or the World Bank Group or any other international Organization. Vendors are therefore required to disclose to UNDP whether they are subject to any sanction or temporary suspension imposed by</p>

	<p>these organizations.</p> <p>3.2 It is the Bidder's responsibility to ensure that its employees, joint venture members, sub-contractors, service providers, suppliers and/or their employees meet the eligibility requirements as established by UNDP.</p>
4. Conflict of Interests	<p>4.1 Bidders must strictly avoid conflicts with other assignments or their own interests, and act without consideration for future work. Bidders found to have a conflict of interest shall be disqualified. Without limitation on the generality of the above, Bidders, and any of their affiliates, shall be considered to have a conflict of interest with one or more parties in this solicitation process, if they:</p> <ul style="list-style-type: none"> a) Are or have been associated in the past, with a firm or any of its affiliates which have been engaged by UNDP to provide services for the preparation of the design, specifications, Terms of Reference, cost analysis/estimation, and other documents to be used for the procurement of the goods and services in this selection process; b) Were involved in the preparation and/or design of the programme/project related to the goods and/or services requested under this ITB; or c) Are found to be in conflict for any other reason, as may be established by, or at the discretion of UNDP. <p>4.2 In the event of any uncertainty in the interpretation of a potential conflict of interest, Bidders must disclose to UNDP, and seek UNDP's confirmation on whether or not such conflict exists.</p> <p>4.3 Similarly, the Bidders must disclose in their Bid their knowledge of the following:</p> <ul style="list-style-type: none"> a) If the owners, part-owners, officers, directors, controlling shareholders, of the bidding entity or key personnel who are family members of UNDP staff involved in the procurement functions and/or the Government of the country or any Implementing Partner receiving goods and/or services under this ITB; and b) All other circumstances that could potentially lead to actual or perceived conflict of interest, collusion or unfair competition practices. <p>Failure to disclose such an information may result in the rejection of the Bid or Bids affected by the non-disclosure.</p> <p>4.4 The eligibility of Bidders that are wholly or partly owned by the Government shall be subject to UNDP's further evaluation and review of various factors such as being registered, operated and managed as an independent business entity, the extent of Government ownership/share, receipt of subsidies, mandate and access to information in relation to this ITB, among others. Conditions that may lead to undue advantage against other Bidders may result in the eventual rejection of the Bid.</p>
B. PREPARATION OF BIDS	
5. General Considerations	<p>5.1 In preparing the Bid, the Bidder is expected to examine the ITB in detail. Material deficiencies in providing the information requested in the ITB may result in rejection of the Bid.</p> <p>5.2 The Bidder will not be permitted to take advantage of any errors or omissions in the ITB. Should such errors or omissions be discovered, the Bidder must notify the UNDP accordingly.</p>

6. Cost of Preparation of Bid	6.1 The Bidder shall bear all costs related to the preparation and/or submission of the Bid, regardless of whether its Bid is selected or not. UNDP shall not be responsible or liable for those costs, regardless of the conduct or outcome of the procurement process.
7. Language	7.1 The Bid, as well as any and all related correspondence exchanged by the Bidder and UNDP, shall be written in the language (s) specified in the BDS.
8. Documents Comprising the Bid	8.1 The Bid shall comprise of the following documents and related forms which details are provided in the BDS: a) Documents Establishing the Eligibility and Qualifications of the Bidder; b) Technical Bid; c) Price Schedule; d) Bid Security, if required by BDS; e) Any attachments and/or appendices to the Bid.
9. Documents Establishing the Eligibility and Qualifications of the Bidder	9.1 The Bidder shall furnish documentary evidence of its status as an eligible and qualified vendor, using the Forms provided under Section 6 and providing documents required in those forms. In order to award a contract to a Bidder, its qualifications must be documented to UNDP's satisfaction.
10. Technical Bid Format and Content	10.1 The Bidder is required to submit a Technical Bid using the Standard Forms and templates provided in Section 6 of the ITB. 10.2 Samples of items, when required as per Section 5, shall be provided within the time specified and unless otherwise specified by the Purchaser, at no expense to the UNDP. If not destroyed by testing, samples will be returned at Bidder's request and expense, unless otherwise specified. 10.3 When applicable and required as per Section 5, the Bidder shall describe the necessary training programme available for the maintenance and operation of the equipment offered as well as the cost to the UNDP. Unless otherwise specified, such training as well as training materials shall be provided in the language of the Bid as specified in the BDS. 10.4 When applicable and required as per Section 5, the Bidder shall certify the availability of spare parts for a period of at least five (5) years from date of delivery, or as otherwise specified in this ITB.
11. Price Schedule	11.1 The Price Schedule shall be prepared using the Form provided in Section 6 of the ITB and taking into consideration the requirements in the ITB. 11.2 Any requirement described in the Technical Bid but not priced in the Price Schedule, shall be assumed to be included in the prices of other activities or items, as well as in the final total price.
12. Bid Security	12.1 A Bid Security, if required by BDS, shall be provided in the amount and form indicated in the BDS. The Bid Security shall be valid for a minimum of thirty (30) days after the final date of validity of the Bid. 12.2 The Bid Security shall be included along with the Bid. If Bid Security is required by the ITB but is not found in the Bid, the offer shall be rejected.

	<p>12.3 If the Bid Security amount or its validity period is found to be less than what is required by UNDP, UNDP shall reject the Bid.</p> <p>12.4 In the event an electronic submission is allowed in the BDS, Bidders shall include a copy of the Bid Security in their bid and the original of the Bid Security must be sent via courier or hand delivery as per the instructions in BDS.</p> <p>12.5 The Bid Security may be forfeited by UNDP, and the Bid rejected, in the event of any, or combination, of the following conditions:</p> <ul style="list-style-type: none"> a) If the Bidder withdraws its offer during the period of the Bid Validity specified in the BDS, or; b) In the event the successful Bidder fails: <ul style="list-style-type: none"> i. to sign the Contract after UNDP has issued an award; or ii. to furnish the Performance Security, insurances, or other documents that UNDP may require as a condition precedent to the effectivity of the contract that may be awarded to the Bidder.
13. Currencies	<p>13.1 All prices shall be quoted in the currency or currencies indicated in the BDS. Where Bids are quoted in different currencies, for the purposes of comparison of all Bids:</p> <ul style="list-style-type: none"> a) UNDP will convert the currency quoted in the Bid into the UNDP preferred currency, in accordance with the prevailing UN operational rate of exchange on the last day of submission of Bids; and b) In the event that UNDP selects a Bid for award that is quoted in a currency different from the preferred currency in the BDS, UNDP shall reserve the right to award the contract in the currency of UNDP's preference, using the conversion method specified above.
14. Joint Venture, Consortium or Association	<p>14.1 If the Bidder is a group of legal entities that will form or have formed a Joint Venture (JV), Consortium or Association for the Bid, they shall confirm in their Bid that : (i) they have designated one party to act as a lead entity, duly vested with authority to legally bind the members of the JV, Consortium or Association jointly and severally, which shall be evidenced by a duly notarized Agreement among the legal entities, and submitted with the Bid; and (ii) if they are awarded the contract, the contract shall be entered into, by and between UNDP and the designated lead entity, who shall be acting for and on behalf of all the member entities comprising the joint venture.</p> <p>14.2 After the Deadline for Submission of Bid, the lead entity identified to represent the JV, Consortium or Association shall not be altered without the prior written consent of UNDP.</p> <p>14.3 The lead entity and the member entities of the JV, Consortium or Association shall abide by the provisions of Clause 15 herein in respect of submitting only one Bid.</p> <p>14.4 The description of the organization of the JV, Consortium or Association must clearly define the expected role of each of the entities in the joint venture in delivering the requirements of the ITB, both in the Bid and the JV, Consortium or Association Agreement. All entities that comprise the JV, Consortium or Association shall be subject to the eligibility and qualification assessment by UNDP.</p> <p>14.5 A JV, Consortium or Association in presenting its track record and experience</p>

	<p>should clearly differentiate between:</p> <ul style="list-style-type: none"> a) Those that were undertaken together by the JV, Consortium or Association; and b) Those that were undertaken by the individual entities of the JV, Consortium or Association. <p>14.6 Previous contracts completed by individual experts working privately but who are permanently or were temporarily associated with any of the member firms cannot be claimed as the experience of the JV, Consortium or Association or those of its members, but should only be claimed by the individual experts themselves in their presentation of their individual credentials</p> <p>14.7 JV, Consortium or Associations are encouraged for high value, multi-sectoral requirements when the spectrum of expertise and resources required may not be available within one firm.</p>
15. Only One Bid	<p>15.1 The Bidder (including the individual members of any Joint Venture) shall submit only one Bid, either in its own name or as part of a Joint Venture.</p> <p>15.2 Bids submitted by two (2) or more Bidders shall all be rejected if they are found to have any of the following:</p> <ul style="list-style-type: none"> a) they have at least one controlling partner, director or shareholder in common; or b) any one of them receive or have received any direct or indirect subsidy from the other/s; or c) they have the same legal representative for purposes of this ITB; or d) they have a relationship with each other, directly or through common third parties, that puts them in a position to have access to information about, or influence on the Bid of another Bidder regarding this ITB process; e) they are subcontractors to each other's Bid, or a subcontractor to one Bid also submits another Bid under its name as lead Bidder; or some key personnel proposed to be in the team of one Bidder participates in more than one Bid received for this ITB process. This condition relating to the personnel, does not apply to subcontractors being included in more than one Bid.
16. Bid Validity Period	<p>16.1 Bids shall remain valid for the period specified in the BDS, commencing on the Deadline for Submission of Bids. A Bid valid for a shorter period may be rejected by UNDP and rendered non-responsive.</p> <p>16.2 During the Bid validity period, the Bidder shall maintain its original Bid without any change, including the availability of the Key Personnel, the proposed rates and the total price.</p>
17. Extension of Bid Validity Period	<p>17.1 In exceptional circumstances, prior to the expiration of the Bid validity period, UNDP may request Bidders to extend the period of validity of their Bids. The request and the responses shall be made in writing, and shall be considered integral to the Bid.</p> <p>17.2 If the Bidder agrees to extend the validity of its Bid, it shall be done without any change to the original Bid.</p> <p>17.3 The Bidder has the right to refuse to extend the validity of its Bid, in which case, the Bid shall not be further evaluated.</p>

18. Clarification of Bid (from the Bidders)	<p>18.1 Bidders may request clarifications on any of the ITB documents no later than the date indicated in the BDS. Any request for clarification must be sent in writing in the manner indicated in the BDS. If inquiries are sent other than specified channel, even if they are sent to a UNDP staff member, UNDP shall have no obligation to respond or confirm that the query was officially received.</p> <p>18.2 UNDP will provide the responses to clarifications through the method specified in the BDS.</p> <p>18.3 UNDP shall endeavour to provide responses to clarifications in an expeditious manner, but any delay in such response shall not cause an obligation on the part of UNDP to extend the submission date of the Bids, unless UNDP deems that such an extension is justified and necessary.</p>
19. Amendment of Bids	<p>19.1 At any time prior to the deadline of Bid submission, UNDP may for any reason, such as in response to a clarification requested by a Bidder, modify the ITB in the form of an amendment to the ITB. Amendments will be made available to all prospective bidders.</p> <p>19.2 If the amendment is substantial, UNDP may extend the Deadline for submission of Bid to give the Bidders reasonable time to incorporate the amendment into their Bids.</p>
20. Alternative Bids	<p>20.1 Unless otherwise specified in the BDS, alternative Bids shall not be considered. If submission of alternative Bid is allowed by BDS, a Bidder may submit an alternative Bid, but only if it also submits a Bid conforming to the ITB requirements. Where the conditions for its acceptance are met, or justifications are clearly established, UNDP reserves the right to award a contract based on an alternative Bid.</p> <p>20.2 If multiple/alternative bids are being submitted, they must be clearly marked as "Main Bid" and "Alternative Bid"</p>
21. Pre-Bid Conference	<p>21.1 When appropriate, a pre-bid conference will be conducted at the date, time and location specified in the BDS. All Bidders are encouraged to attend. Non-attendance, however, shall not result in disqualification of an interested Bidder. Minutes of the Bidder's conference will be disseminated on the procurement website and shared by email or on the e-Tendering platform as specified in the BDS. No verbal statement made during the conference shall modify the terms and conditions of the ITB, unless specifically incorporated in the Minutes of the Bidder's Conference or issued/posted as an amendment to ITB.</p>

C. SUBMISSION AND OPENING OF BIDS

22. Submission	<p>22.1 The Bidder shall submit a duly signed and complete Bid comprising the documents and forms in accordance with requirements in the BDS. The Price Schedule shall be submitted together with the Technical Bid. Bid can be delivered either personally, by courier, or by electronic method of transmission as specified in the BDS.</p> <p>22.2 The Bid shall be signed by the Bidder or person(s) duly authorized to commit the Bidder. The authorization shall be communicated through a document evidencing such authorization issued by the legal representative of the bidding entity, or a Power of Attorney, accompanying the Bid.</p> <p>22.3 Bidders must be aware that the mere act of submission of a Bid, in and of itself, implies that the Bidder fully accepts the UNDP General Contract Terms and Conditions.</p>
Hard copy (manual) submission	<p>22.4 Hard copy (manual) submission by courier or hand delivery allowed or specified in the BDS shall be governed as follows:</p> <p>a) The signed Bid shall be marked "Original", and its copies marked "Copy" as appropriate. The number of copies is indicated in the BDS. All copies shall be made from the signed original only. If there are discrepancies between the original and the copies, the original shall prevail.</p> <p>(b) The Technical Bid and Price Schedule must be sealed and submitted together in an envelope, which shall:</p> <ol style="list-style-type: none"> Bear the name of the Bidder; Be addressed to UNDP as specified in the BDS; and Bear a warning not to open before the time and date for Bid opening as specified in the BDS. <p>If the envelope with the Bid is not sealed and marked as required, UNDP shall assume no responsibility for the misplacement, loss, or premature opening of the Bid.</p>
Email and eTendering submissions	<p>22.5 Electronic submission through email or eTendering, if allowed as specified in the BDS, shall be governed as follows:</p> <ol style="list-style-type: none"> Electronic files that form part of the Bid must be in accordance with the format and requirements indicated in BDS; Documents which are required to be in original form (e.g. Bid Security, etc.) must be sent via courier or hand delivered as per the instructions in BDS. <p>22.6 Detailed instructions on how to submit, modify or cancel a bid in the eTendering system are provided in the eTendering system Bidder User Guide and Instructional videos available on this link: http://www.undp.org/content/undp/en/home/operations/procurement/business/procurement-notices/resources/</p>
23. Deadline for Submission of Bids and Late Bids	<p>23.1 Complete Bids must be received by UNDP in the manner, and no later than the date and time, specified in the BDS. UNDP shall only recognise the actual date and time that the bid was received by UNDP</p> <p>23.2 UNDP shall not consider any Bid that is received after the deadline for the</p>

	submission of Bids.
24. Withdrawal, Substitution, and Modification of Bids	<p>24.1 A Bidder may withdraw, substitute or modify its Bid after it has been submitted at any time prior to the deadline for submission.</p> <p>24.2 Manual and Email submissions: A bidder may withdraw, substitute or modify its Bid by sending a written notice to UNDP, duly signed by an authorized representative, and shall include a copy of the authorization (or a Power of Attorney). The corresponding substitution or modification of the Bid, if any, must accompany the respective written notice. All notices must be submitted in the same manner as specified for submission of Bids, by clearly marking them as "WITHDRAWAL" "SUBSTITUTION," or "MODIFICATION"</p> <p>24.3 eTendering: A Bidder may withdraw, substitute or modify its Bid by Cancelling, Editing, and re-submitting the Bid directly in the system. It is the responsibility of the Bidder to properly follow the system instructions, duly edit and submit a substitution or modification of the Bid as needed. Detailed instructions on how to cancel or modify a Bid directly in the system are provided in the Bidder User Guide and Instructional videos.</p> <p>24.4 Bids requested to be withdrawn shall be returned unopened to the Bidders (only for manual submissions), except if the bid is withdrawn after the bid has been opened.</p>
25. Bid Opening	<p>25.1 UNDP will open the Bid in the presence of an ad-hoc committee formed by UNDP of at least two (2) members.</p> <p>25.2 The Bidders' names, modifications, withdrawals, the condition of the envelope labels/seals, the number of folders/files and all other such other details as UNDP may consider appropriate, will be announced at the opening. No Bid shall be rejected at the opening stage, except for late submissions, in which case, the Bid shall be returned unopened to the Bidders.</p> <p>25.3 In the case of e-Tendering submission, bidders will receive an automatic notification once the Bid is opened.</p>
D. EVALUATION OF BIDS	
26. Confidentiality	<p>26.1 Information relating to the examination, evaluation, and comparison of Bids, and the recommendation of contract award, shall not be disclosed to Bidders or any other persons not officially concerned with such process, even after publication of the contract award.</p> <p>26.2 Any effort by a Bidder or anyone on behalf of the Bidder to influence UNDP in the examination, evaluation and comparison of the Bids or contract award decisions may, at UNDP's decision, result in the rejection of its Bid and may subsequently be subject to the application of prevailing UNDP's vendor sanctions procedures.</p>
27. Evaluation of Bids	<p>27.1 UNDP will conduct the evaluation solely on the basis of the Bids received.</p> <p>27.2 Evaluation of Bids shall be undertaken in the following steps:</p> <ol style="list-style-type: none"> Preliminary Examination including Eligibility Arithmetical check and ranking of bidders who passed preliminary examination by price. Qualification assessment (if pre-qualification was not done)

	<ul style="list-style-type: none"> a) Evaluation of Technical Bids b) Evaluation of prices <p>Detailed evaluation will be focussed on the 3 - 5 lowest priced bids. Further higher priced bids shall be added for evaluation if necessary</p>
28. Preliminary Examination	<p>28.1 UNDP shall examine the Bids to determine whether they are complete with respect to minimum documentary requirements, whether the documents have been properly signed, and whether the Bids are generally in order, among other indicators that may be used at this stage. UNDP reserves the right to reject any Bid at this stage.</p>
29. Evaluation of Eligibility and Qualification	<p>29.1 Eligibility and Qualification of the Bidder will be evaluated against the Minimum Eligibility/Qualification requirements specified in the Section 4 (Evaluation Criteria).</p> <p>29.2 In general terms, vendors that meet the following criteria may be considered qualified:</p> <ul style="list-style-type: none"> a) They are not included in the UN Security Council 1267/1989 Committee's list of terrorists and terrorist financiers, and in UNDP's ineligible vendors' list; b) They have a good financial standing and have access to adequate financial resources to perform the contract and all existing commercial commitments; c) They have the necessary similar experience, technical expertise, production capacity, quality certifications, quality assurance procedures and other resources applicable to the supply of goods and/or services required; d) They are able to comply fully with the UNDP General Terms and Conditions of Contract; e) They do not have a consistent history of court/arbitral award decisions against the Bidder; and f) They have a record of timely and satisfactory performance with their clients.
30. Evaluation of Technical Bid and prices	<p>30.1 The evaluation team shall review and evaluate the Technical Bids on the basis of their responsiveness to the Schedule of Requirements and Technical Specifications and other documentation provided, applying the procedure indicated in the BDS and other ITB documents. When necessary, and if stated in the BDS, UNDP may invite technically responsive bidders for a presentation related to their technical Bids. The conditions for the presentation shall be provided in the bid document where required.</p>
31. Due diligence	<p>31.1 UNDP reserves the right to undertake a due diligence exercise, aimed at determining to its satisfaction, the validity of the information provided by the Bidder. Such exercise shall be fully documented and may include, but need not be limited to, all or any combination of the following:</p> <ul style="list-style-type: none"> a) Verification of accuracy, correctness and authenticity of information provided by the Bidder; b) Validation of extent of compliance to the ITB requirements and evaluation criteria based on what has so far been found by the evaluation team; c) Inquiry and reference checking with Government entities with jurisdiction on the Bidder, or with previous clients, or any other entity that may have done business with the Bidder; d) Inquiry and reference checking with previous clients on the performance on on-going or completed contracts, including physical inspections of previous

	<p>works, as deemed necessary;</p> <p>e) Physical inspection of the Bidder's offices, branches or other places where business transpires, with or without notice to the Bidder;</p> <p>f) Other means that UNDP may deem appropriate, at any stage within the selection process, prior to awarding the contract.</p>
32. Clarification of Bids	<p>32.1 To assist in the examination, evaluation and comparison of Bids, UNDP may, at its discretion, request any Bidder for a clarification of its Bid.</p> <p>32.2 UNDP's request for clarification and the response shall be in writing and no change in the prices or substance of the Bid shall be sought, offered, or permitted, except to provide clarification, and confirm the correction of any arithmetic errors discovered by UNDP in the evaluation of the Bids, in accordance with the ITB.</p> <p>32.3 Any unsolicited clarification submitted by a Bidder in respect to its Bid, which is not a response to a request by UNDP, shall not be considered during the review and evaluation of the Bids.</p>
33. Responsiveness of Bid	<p>33.1 UNDP's determination of a Bid's responsiveness will be based on the contents of the bid itself. A substantially responsive Bid is one that conforms to all the terms, conditions, specifications and other requirements of the ITB without material deviation, reservation, or omission.</p> <p>33.2 If a bid is not substantially responsive, it shall be rejected by UNDP and may not subsequently be made responsive by the Bidder by correction of the material deviation, reservation, or omission.</p>
34. Nonconformities, Repairable Errors and Omissions	<p>34.1 Provided that a Bid is substantially responsive, UNDP may waive any non-conformities or omissions in the Bid that, in the opinion of UNDP, do not constitute a material deviation.</p> <p>34.2 UNDP may request the Bidder to submit the necessary information or documentation, within a reasonable period, to rectify nonmaterial nonconformities or omissions in the Bid related to documentation requirements. Such omission shall not be related to any aspect of the price of the Bid. Failure of the Bidder to comply with the request may result in the rejection of its Bid.</p> <p>34.3 For the bids that have passed the preliminary examination, UNDP shall check and correct arithmetical errors as follows:</p> <p>a) if there is a discrepancy between the unit price and the line item total that is obtained by multiplying the unit price by the quantity, the unit price shall prevail and the line item total shall be corrected, unless in the opinion of UNDP there is an obvious misplacement of the decimal point in the unit price; in which case, the line item total as quoted shall govern and the unit price shall be corrected;</p> <p>b) if there is an error in a total corresponding to the addition or subtraction of subtotals, the subtotals shall prevail and the total shall be corrected; and</p> <p>c) if there is a discrepancy between words and figures, the amount in words shall prevail, unless the amount expressed in words is related to an arithmetic error, in which case the amount in figures shall prevail.</p> <p>34.4 If the Bidder does not accept the correction of errors made by UNDP, its Bid shall</p>

	be rejected.
E. AWARD OF CONTRACT	
35. Right to Accept, Reject, Any or All Bids	35.1 UNDP reserves the right to accept or reject any bid, to render any or all of the bids as non-responsive, and to reject all Bids at any time prior to award of contract, without incurring any liability, or obligation to inform the affected Bidder(s) of the grounds for UNDP's action. UNDP shall not be obliged to award the contract to the lowest priced offer.
36. Award Criteria	36.1 Prior to expiration of the period of Bid validity, UNDP shall award the contract to the qualified and eligible Bidder that is found to be responsive to the requirements of the Schedule of Requirements and Technical Specification, and has offered the lowest price.
37. Debriefing	37.1 In the event that a Bidder is unsuccessful, the Bidder may request for a debriefing from UNDP. The purpose of the debriefing is to discuss the strengths and weaknesses of the Bidder's submission, in order to assist the Bidder in improving its future Bids for UNDP procurement opportunities. The content of other Bids and how they compare to the Bidder's submission shall not be discussed.
38. Right to Vary Requirements at the Time of Award	38.1 At the time of award of Contract, UNDP reserves the right to vary the quantity of goods and/or services, by up to a maximum twenty-five per cent (25%) of the total offer, without any change in the unit price or other terms and conditions.
39. Contract Signature	39.1 Within fifteen (15) days from the date of receipt of the Contract, the successful Bidder shall sign and date the Contract and return it to UNDP. Failure to do so may constitute sufficient grounds for the annulment of the award, and forfeiture of the Bid Security, if any, and on which event, UNDP may award the Contract to the Second highest rated or call for new Bids.
40. Contract Type and General Terms and Conditions	40.1 The types of Contract to be signed and the applicable UNDP Contract General Terms and Conditions, as specified in BDS, can be accessed at http://www.undp.org/content/undp/en/home/procurement/business/how-we-buy.html
41. Performance Security	41.1 A performance security, if required in the BDS, shall be provided in the amount specified in BDS and form available at https://popp.undp.org/layouts/15/WopiFrame.aspx?sourcedoc=/UNDP POPP_DOCUMENT LIBRARY/Public/PSU Solicitation Performance%20Guarantee%20Form.docx&action=default within a maximum of fifteen (15) days of the contract signature by both parties. Where a performance security is required, the receipt of the performance security by UNDP shall be a condition for rendering the contract effective.
42. Bank Guarantee for Advanced Payment	42.1 Except when the interests of UNDP so require, it is UNDP's standard practice to not make advance payment(s) (i.e., payments without having received any outputs). If an advance payment is allowed as per the BDS, and exceeds 20% of the total contract price, or USD 30,000, whichever is less, the Bidder shall submit a Bank Guarantee in the full amount of the advance payment in the form available at

	https://popp.undp.org/_layouts/15/WopiFrame.aspx?sourcedoc=/UNDP POPP_DOCUMENT LIBRARY/Public/PSU_Contract%20Management%20Payment%20and%20Taxes_Advanced%20Payment%20Guarantee%20Form.docx&action=default
43. Liquidated Damages	<p>43.1 If specified in the BDS, UNDP shall apply Liquidated Damages for the damages and/or risks caused to UNDP resulting from the Contractor's delays or breach of its obligations as per Contract.</p>
44. Payment Provisions	<p>44.1 Payment will be made only upon UNDP's acceptance of the goods and/or services performed. The terms of payment shall be within thirty (30) days, after receipt of invoice and certification of acceptance of goods and/or services issued by the proper authority in UNDP with direct supervision of the Contractor. Payment will be effected by bank transfer in the currency of the contract.</p>
45. Vendor Protest	<p>45.1 UNDP's vendor protest procedure provides an opportunity for appeal to those persons or firms not awarded a contract through a competitive procurement process. In the event that a Bidder believes that it was not treated fairly, the following link provides further details regarding UNDP vendor protest procedures: http://www.undp.org/content/undp/en/home/procurement/business/protest-and-sanctions.html</p>
46. Other Provisions	<p>46.1 In the event that the Bidder offers a lower price to the host Government (e.g. General Services Administration (GSA) of the federal government of the United States of America) for similar goods and/or services, UNDP shall be entitled to the same lower price. The UNDP General Terms and Conditions shall have precedence.</p> <p>46.2 UNDP is entitled to receive the same pricing offered by the same Contractor in contracts with the United Nations and/or its Agencies. The UNDP General Terms and Conditions shall have precedence.</p> <p>46.3 The United Nations has established restrictions on employment of (former) UN staff who have been involved in the procurement process as per bulletin ST/SGB/2006/15 http://www.un.org/en/ga/search/view_doc.asp?symbol=ST/SGB/2006/15&referer</p>

SECTION 3. BID DATA SHEET

The following data for the goods and/or services to be procured shall complement, supplement, or amend the provisions in the Invitation to Bid. In the case of a conflict between the Instructions to Bidders, the Bid Data Sheet, and other annexes or references attached to the Bid Data Sheet, the provisions in the Bid Data Sheet shall prevail.

BDS No.	Ref. to Section.2	Data	Specific Instructions / Requirements
1	7	Language of the Bid	English
2		Submitting Bids for Parts or sub-parts of the Schedule of Requirements (partial bids)	Not Allowed
3	20	Alternative Bids	Shall not be considered
4	21	Pre-Bid conference	<p>Pre-Bid Conference will not be conducted Time: 02:00 PM GMT+7 Date: December 11, 2019 10:00 AM Venue: UNDP PETRA Project Office Jl. Elang No. 1 A, Birobuli Utara, Palu Selatan Sulawesi Tengah</p> <p>The UNDP focal point for the arrangement are: Sylvia Siska Indriani/Galang Wijaya E-mail: sylvia.indriani@undp.org cc: galang.wijaya@undp.org</p> <p>-----O-----</p> <p>The UNDP focal point for site visit is: Budhi Ulaen E-mail: budhi.ulaen@undp.org</p> <p>Site inspections will be allowed. Potential Proposers can visit the sites on December 11, 2019, from 2 PM to 4 PM. Potential proposers must contact the abovementioned focal person for site visits at least two (2) days in advance. During the site inspections, the potential proposers are refrained from asking questions regarding the bidding process.</p>

			All queries, both technical and administrative, will be responded to during the pre-bid conference. Minutes of the pre-bid conference will be disseminated to all potential proposers, regardless of bidders attending the site inspection and pre-proposal conference. The minute will be posted at https://etendering.partneragencies.org
5	16	Bid Validity Period	90 days
6	13	Bid Security	Not Required
7	41	Advanced Payment upon signing of contract	Not Allowed
8	42	Liquidated Damages	Will be imposed as follows: Percentage of contract price per day of delay: 0.1% Max. number of days of delay 100 calendar days, after which UNDP may terminate the contract.
9	40	Performance Security	Not Required
10	12	Currency of Bid	Local currency in Rupiah (IDR)
11	31	Deadline for submitting requests for clarifications/ questions	3 days before the submission deadline
12	31	Contact Details for submitting clarifications/questions	Focal Person in UNDP: Sylvia Siska Indriani/Martin Kurnia Address: Menara Thamrin 7th Fl. Jl. MH Thamrin Kav. 3 Jakarta 10250, Indonesia E-mail address: sylvia.indriani@undp.org cc. martin.kurnia@undp.org
13	18, 19 and 21	Manner of Disseminating Supplemental Information to the ITB and responses/clarifications to queries	Direct communication to prospective Proposers by email and Posting on the website

			https://www.id.undp.org/content/indonesia/en/home/procurement.html
14	23	Deadline for Submission	The deadline as indicated in the e-tendering system
15	22	Allowable Manner of Submitting Bids	<input type="checkbox"/> Courier/Hand Delivery <input type="checkbox"/> Submission by email <input checked="" type="checkbox"/> e-Tendering
16	22	Bid Submission Address	https://etendering.partneragencies.org Event ID: 5024
17	22	Electronic submission (email or eTendering) requirements	<ul style="list-style-type: none"> ▪ Format: PDF files only ▪ File names must be maximum 60 characters long and must not contain any letter or special character other than from Latin alphabet/keyboard. ▪ All files must be free of viruses and not corrupted. ▪ Max. File Size per transmission: Not applicable ▪ Documents which are required in original (e.g. Bid/Proposal Security) should be sent to the below address with a PDF copy submitted as part of the electronic submission: Not applicable
18	25	Date, time and venue for the opening of bid	In the case of e-Tendering submission, bidders will receive an automatic notification once their Bids are opened.
19	27, 36	Evaluation Method for the Award of Contract	Lowest priced technically responsive, eligible and qualified bid.
20		Expected date for commencement of Contract	<i>December 23, 2019</i>
21		Maximum expected duration of contract	Three (3) Months upon acceptance of Purchase Order (PO)
22	35	UNDP will award the contract to:	One Proposer Only
23	39	Type of Contract	Purchase Order

			http://www.undp.org/content/undp/en/home/procurement/business/how-we-buy.html
24	39	UNDP Contract Terms and Conditions that will apply	UNDP General Terms and Conditions for Contracts http://www.undp.org/content/undp/en/home/procurement/business/how-we-buy.html
25		Other Information Related to the ITB	<i>[All other instructions and information not yet mentioned so far in this Data Sheet but are relevant to the ITB must be cited here, and any further entries that may be added below this table row]</i>

SECTION 4. EVALUATION CRITERIA

Preliminary Examination Criteria

Bids will be examined to determine whether they are complete and submitted in accordance with ITB requirements as per below criteria on a Yes/No basis:

- Appropriate signatures
- Power of Attorney
- Minimum Bid documents provided
- Bid Validity
- Bid Security (if required) submitted as per ITB requirements with compliant validity period

Minimum Eligibility and Qualification Criteria

Eligibility and Qualification will be evaluated on a Yes/No basis.

If the Bid is submitted as a Joint Venture/Consortium/Association, each member should meet the minimum criteria, unless otherwise specified.

Subject	Criteria	Document Submission requirement
ELIGIBILITY		
Legal Status	Vendor is a legally registered entity.	Form B: Bidder Information Form
Eligibility	Vendor is not suspended, nor debarred, nor otherwise identified as ineligible by any UN Organization or the World Bank Group or any other international Organization in accordance with ITB clause 3.	Form A: Bid Submission Form
Conflict of Interest	No conflicts of interest in accordance with ITB clause 4.	Form A: Bid Submission Form
Bankruptcy	Has not declared bankruptcy, is not involved in bankruptcy or receivership proceedings, and there is no judgment or pending legal action against the vendor that could impair its operations in the foreseeable future.	Form A: Bid Submission Form
Certificates and Licenses	<ul style="list-style-type: none"> ▪ Duly authorized to act as Agent on behalf of the Manufacturer, or Power of Attorney, if bidder is not a manufacturer ▪ Official appointment as local representative, if Bidder is submitting a Bid on behalf of an entity located outside the country 	Form B: Bidder Information Form
QUALIFICATION		
History of Non-Performing	Non-performance of a contract did not occur as a result of contractor default for the last 3 years.	Form D: Qualification Form

Contracts¹		
Litigation History	No consistent history of court/arbitral award decisions against the Bidder for the last 3 years.	Form D: Qualification Form
Previous Experience	Minimum 3 years of relevant experience.	Form D: Qualification Form
	Minimum 3 contracts of similar value or nature and complexity implemented over the last 10 years. <i>(For JV/Consortium/Association, all Parties cumulatively should meet requirement).</i>	Form D: Qualification Form
Financial Standing	<p>Minimum average annual turnover of USD 100,000 in any single year for the last 3 years (2016-2017-2018). The bidders having completed certified audited financial statement for 2018 can also submit the report which will be considered for evaluation</p> <p>OR</p> <p>The bidder shall demonstrate, by a statement from its bank availability or access to liquid assets, lines of credit, or other financial means sufficient to meet the works cash flow for the contract, not less than USD 50,000 or equivalent, for a reasonable timeframe, in addition to bidder's commitments for other contract</p> <p>OR</p> <p>Current Bank Statement having a balance USD 50,000</p> <p><i>(For JV/Consortium/Association, all Parties cumulatively should meet requirement).</i></p> <p>Note: UNDP shall verify the financial capacity of the bidder and has the authority to seek references from concerned parties and banks on the bidder's financial standing. UNDP has the right to reject any bid if submitted by a contractor whom investigation leads to a result that he is not Financially capable and/or had serious financial problems.</p>	Form D: Qualification Form

¹ Non-performance, as decided by UNDP, shall include all contracts where (a) non-performance was not challenged by the contractor, including through referral to the dispute resolution mechanism under the respective contract, and (b) contracts that were so challenged but fully settled against the contractor. Non-performance shall not include contracts where Employers decision was overruled by the dispute resolution mechanism. Non-performance must be based on all information on fully settled disputes or litigation, i.e. dispute or litigation that has been resolved in accordance with the dispute resolution mechanism under the respective contract and where all appeal instances available to the Bidder have been exhausted.

Detailed Technical and Financial Evaluation

TECHNICAL EVALUATION		
Technical Evaluation	The technical bids shall be evaluated on a Yes/No basis for compliance or non-compliance with the technical specifications identified in the bid document.	Form E: Technical Bid Form
FINANCIAL EVALUATION		
Financial Evaluation	Detailed analysis of the price schedule based on requirements listed in Section 5 and quoted for by the bidders in Form F.	Form F: Price Schedule Form

SECTION 5A: SCHEDULE OF REQUIREMENTS AND TECHNICAL SPECIFICATIONS/BILL OF QUANTITIES

TECHNICAL SPECIFICATION

I. EQUIPMENT AND MATERIAL PROVISIONS

1. Power Transformer

- 1) Transformer and its equipment must comply with SNI / SII / SLI Standards or VDE / DIN standards, and PUIL/IEC regulations.
- 2) Type : indoor and oil immersed
- 3) Rating
 - a. Capacity : 1000 kVA
 - b. Voltage
 - Primary : 20.000 V
 - Secondary : 400/231 V
 - c. Tapping voltage : $\pm 2 \times 2,5 \%$
 - d. Vector group : Dyn 5
 - e. Electrical characteristics
 - Frequency : 50 Hz
 - Insulation class : primary voltage 24 kV
 - Basic Impuls Voltage : primary winding 125 kV
 - Test Voltage for 1 minute
 - primary winding : 50 kV
 - secondary winding : 1 kV
 - Isolation : Class A
 - Winding temperature : max. 65/55 °C
 - No load losses : max. 0,5 %
 - Load losses : max. 2 %
 - Impedance voltage : 10 %
 - Noise level : 32 dB – 3 meter
 - f. Total of Phase : 3
 - g. Coil material : copper
 - h. Cooling method : Oil Natural Air Natural (ONAN)
 - i. Transformer equipped with thermometer with double contact, DGPT, wheel, lifting eye, elastimold.
- 4) Tank
 - Tank strips (fins type tank) for transformer power up to 1,600 kVA are formed from corrugated tanks in order to meet Total Integral Filling, which is, transformer oil can be fully filled to the tank cap, where the expansion of oil during the transformer operates can be accommodated by the "breathing" of the corrugated fins.

- The transformer tank used is of the "Hermetically Sealed Tank" type filled with Nitrogen gas pads on the oil surface, which is to prevent any 'contact' between the oil and the outside air
- Tank bodies, including tank fins, are made of 'cold roll steel sheets' while upper and lower lids are made of 'mild steel plates' with certain thicknesses.
- Packing / gaskets are made of nitrile-rubber which can withstand high temperatures and good oil resistance.
- Before the painting process, the tank must undergo leak testing to ensure there is no oil leakage during the transformer is operated
- Painting the tank consist with standard procedures such as:
 - Especially for the pre-treatment process, which is to remove impurities attached to the surface of the steel plate in the form of oil and rust, it must be removed through a "shot-blast" process, and then followed by a process to reduce the depth of the phosphate solution.
 - In the process of painting that is after the pre-treatment process is completed, starting with the base-coat and finally with the final-coat process. Drying the paint is done by roasting. The selected paints are weather resistant paint for the outer tank and paint that is corrosion resistant and oil resistant for the inner tank.

5) Factory testing

Before sending, the transformer must passed a variety of routine testing in accordance with applicable standards, such as:

- Turn ratio test
- Polarity test
- Copper loss (load loss) test
- Iron loss (no load loss) test
- Transformer oil breakdown voltage test
- Measurement of no load current (exiting current)
- Measurement of impedance
- Applied voltage test
- Induced voltage test
- Impulse voltage test.

6) Trafindo – Schneider or equivalent

7) Before procurement the Contractor must submit a catalogs/ brochures, shop drawings and certificates / letter of eligibility from the manufacturer to the CM / Site Manager to be check and obtain an approval.

2. Medium Voltage Cable

- 1) Medium Voltage Cables and related equipment must comply with SNI / SII / SLI Standards or VDE / DIN standards, and PUIL/IEC regulations.
- 2) MV cable is used as to connect the MV network of PT. PLN with the MV panel and the MV panel with the transformer.
- 3) Conductor of soft annealed uncoated copper and isolated with XLPE. For underground must use the cable equipped with water sealing, copper tape protector in each core, galvanized steel tape protector for all cables and outer insulation of XLPE
- 4) Cable characteristics:

- Type	: as shown in the drawing
- Cross section	: as shown in the drawing
- Voltage rating	: 24 kV

- Frequency : 50 Hz
 - AC test voltage (3 x 15 minute) : 30 kV
 - Test voltage (1 minute) : 70 kV
 - Impulse voltage : 125 kV
 - Production from Supreme, Kabelindo, Kabel Metal or equivalent
- 5) Cable Sealing end/Cable Termination
- Voltage (phase to phase) : 25 kV
 - Impulse 1.2 x 50 Wave : 125 kV
 - Corona extinction voltage level : 30 kV
 - Material from metal connector screw cable lug
 - Moulded rubber cap/top seal
 - Non-tracking rubber module/creepage current resistant, silicon rubber sheds.
 - Cable insulation/active pressure
 - Ground clamp/lower creepage collector + ground eye
 - Moulded stress relief/cold-flowing stress grading pad
 - Production from 3M, Raychem or equivalent.
- 6) Cable Joint/junction Sleeves
- System voltage : 25 kV
 - Impulse voltage 1.2 x 50 micro sec wave : 50 kV
 - Corona Extinction voltage minimum : 21.6 kV
 - DC withstand, during installation : 75 kV
 - after installation : 80 kV
 - Material : Cable Armor
 - Core Metallic Tape Screen
 - Compression Connector
 - Core Joint Housing
 - Metal screen Continuity Kit
 - Inner Jacket Restoration Kit
 - Recommended production from dari 3M, Raychem or equal
- 7) Cable testing
- Factory test

All proposed cables must be equipped with a certificate of testing and measurement of cable from the manufacturer and third party authorized for this test.

Specifically, for local production, each cable that will be supplied must be tested by the manufacturer (quality assurance) and testing conducted by the PLN-R&D of Electricity (before PLN LMK).
 - Testing of cable materials
 - Dimension check
 - Testing of tensile strength and elongation/extended
 - Testing of crack resistance in various temperatures
 - Depreciation testing
 - Testing for weight loss due to evaporation
 - Testing for deformation due to pressure at high temperatures
 - Testing the properties of cables at high temperatures
 - Thermic stability testing
 - Testing of resistance to high voltage
 - Measurement of insulation resistance
 - Burn test

- Cable raw material testing
 - Visual examination
 - Testing of tensile strength and elongation/extended
 - Specific resistance testing (conductor and insulation)
 - Melt index measurement
 - Testing the levels of carbon black
 - Specific gravity check
 - Measurement of weight loss due to heating
 - Hardness Testing
 - Testing for deformation due to pressure at high temperatures
 - Thermic stability testing
 - Burn test
 - Testing of resistance to zinc
- Cable testing in progress
 - Wire drawing
 - Insulation (single core insulation)
 - Quadding
 - Drum twinsters
- Testing of semi-finished and finished cables, including:
 - Measurement of conductor resistance
 - Dielectric testing
 - Measurement of loss factor
 - Impulse voltage testing
 - Mechanical testing
 - Creep testing
- Site-Test
 Tests on site are carried out before and after the cable is installed, where the contractor must carry out measurements of the dielectric insulation test, with the Meger & DC-Test (40 kV-15 minutes).
- Before procurement the Contractor must submit a sample, catalog / brochure and cable test certificate to the CM / Site Manager to be checked and obtain an approval.

3. Low Voltage Main Distribution Panel

- 1) Low voltage panels must comply with SNI/ SII/ SLI Standards or VDE/ DIN standards, and PUIL/ IEC regulations
- 2) General specifications.

- Voltage	: 400/231 V
- Frequency	: 50 Hz
- Main Busbar Current Rating	: 3.200 A or with minimum 1.5 x I _{AF} of CB
- Degree of protection	: IP 55
- 3) Indoor type, free standing and solid grounded type, the panel door must be equipped with a master key.
- 4) The panel must be made of steel plate with a thickness of 3 mm, the frame is of steel profile and all must be zinc-chromate, duco coated 2 times and painted with kanzai gray burn- paint or other colors as requested by CM / Site Manager.

- 5) The layout of the components and other equipment must be properly arranged, safe, easy to operate, easy for maintenance and repair.
- 6) The wiring line is neatly arranged, protected, easy to repair and add. Terminals for incoming or outgoing cables, both power and control cables, are placed in a safe and easy place to connect.
- 7) Each panel must have 5 copper busbars consisting of R-S-T-N-E whose size must be taken into account so that the temperature rise in the panel does not exceed 65°C during peak load; each busbar must be colored according to PLN regulations.
- 8) Using a multi digital power meter with an accuracy of 0.5% and free from the influence of induction, it has been equipped with a calibration certificate from PLN R&D of Electricity.
- 9) The size of each panel unit must be adjusted to the needs and room space
- 10) The number and type of panel components are shown in the drawing
- 11) Nobi or equivalent
- 12) Before procurement the Contractor must submit a catalogs/ brochures, shop drawings and certificates / letter of eligibility from the manufacturer to the CM/ Site Manager to be check and obtain an approval.

4. Components of Low Voltage Main Distribution Panel

- 1) Air Circuit Breaker (ACB)

• Rated continuous current	: as shown in the drawings, adjustable
• Setting current/control trip relay	: 0,4 – 1 In
• Type	: fixed mounted.
• Number of phase/ pole	: 3 phases (3 or 4 poles)
• Rated operating voltage	: 690 V
• Rated insulation voltage	: 1000 V
• Rated impulse withstand voltage	: 12 kV
• Frequency	: 50 Hz
• Permitted ambient temp.	: max. 55° C.
• Rated short time withstand cur. (1s)	: 65 kA.
• Rated peak withstand current	: 65 kA.
• Rated short circuit breaking capacity	: as shown in the drawings
• Operator Mechanism	: motorized with stored energy feature motor & closing solenoid 220 V, 50 Hz.
• Over load release	: adjustable
• Instantaneous over current	: adjustable
• Operating time (breaking/closing)	: 40/30 ms
• Life cycle (mech/electrical)	: 30.000/10.000 times
• Auxiliary switch	: 4 NO + NC
- 2) Moulded Case Circuit Breaker (MCCB)

• Rated continuous current	: as shown in the drawings, adjustable
• Type	: fixed mounted.
• Number of phase/ pole	: 3 phases (3 or 4 poles)
• Rated operating voltage	: 380 Volt.
• Rated Frequency	: 50 Hz
• Permitted ambient temp.	: max. 55° C.

- Rated short circuit breaking capacity : as shown in the drawings
- Operator Mechanism : manual operation
- Over load release : adjustable
- Instantaneous over current : Permanently set
- Auxiliary switch : 1 NO + 1 NC

3) Automatic Transfer Switch

- Switching devices uses a circuit breaker from both sources
- Automatic process using interlocking devices controllers, remote control units and auxiliary devices
- Both switching devices (CB) are interlocked mechanically and electrical using interlocking devices.
- The controller is equipped with:
 - Switch to select the operation mode (automatic, stop, forced operation at normal source position and backup source position)
 - Switch to set the delay time
 - Automatic operation for normal source monitoring and automatic transfer, diesel generator startup control, delayed shutdown from diesel generator, supply move to a backup source if one phase of the normal source is lost
 - Indicator of the status of switching devices (CB) and automatic operations
- The voltage used on the interlocking devices and controller is the same as the voltage on the switching devices
- All components and auxiliary equipment / materials for Low Voltage Panel products from Schneider or equivalent.

5. Components of Synchronizer Panel

1) Air Circuit Breaker (ACB)

- Rated continuous current : as shown in the drawings, adjustable
- Setting current/control trip relay : 0,4 – 1 In
- Type : fixed mounted.
- Number of phase/ pole : 3 phases (3 or 4 poles)
- Rated operating voltage : 690 V
- Rated insulation voltage : 1000 V
- Rated impulse withstand voltage : 12 kV
- Frequency : 50 Hz
- Permitted ambient temp. : max. 55° C.
- Rated short time withstand cur. (1s) : 65 kA.
- Rated peak withstand current : 65 kA.
- Rated short circuit breaking capacity : as shown in the drawings
- Operator Mechanism : motorized with stored energy feature
motor & closing solenoid 220 V, 50 Hz.
- Over load release : adjustable
- Instantaneous over current : adjustable
- Operating time (breaking/closing) : 40/30 ms
- Life cycle (mech/electrical) : 30.000/10.000 times
- Auxiliary switch : 4 NO + NC

- 2) Synchronizer

6. Low Voltage Cable

- 1) Low Voltage Cables and related equipment must comply with SII / SNI Standards or international VDE / DIN standards and IEC and PUIL regulations.
- 2) The cable must be able to be used for a minimum voltage of 0.6 kV, except for NYM types is 0.5 kV.
- 3) Conductor of soft annealed uncoated copper and isolated with PVC. For underground must use a cable equipped with water sealing, copper tape protector in each core, galvanized steel tape protector for all cables and outer insulation of PVC.
- 4) For wiring in buildings using the NYM, NYY and NYA types. While for underground cables using the NYFGbY or NYRGbY types.
- 5) The type and size of the cable used must be in accordance with the drawings, if there is a change then it must be proposed and prior approval is requested from the CM / Site Manager.
- 6) Supreme or equivalent.
- 7) Before procurement the Contractor must submit a sample, catalogues/ brochures and cable test certificate to the CM / Site Manager to be check and obtain an approval.

II. INSTALATION EQUIPMENT

1. Protective Pipes/Conduits

- Protective pipe embedded in the wall / cast using rigid high impact PVC pipe (min. AW class) with inner diameter > 2 X outside diameter of the cable
- Protective pipes that are not embedded in the walls / cast (outbow) using plainsteel conduit National Matsushita brand, Panasonic or equivalent. We can also use EGA, MK or equal brand PVC compact mini trunking.
- For cables that are above the ceiling, not embedded in the wall / cast and not on the rack, must use a flexible pipe of PVC with an inner diameter > 2 X outside diameter of the cable.
- Must use appropriate supporting materials (elbow, doos / box, coupling / socket, etc.), branded the same as the conduit used and installed in the right and safe way.

2. Cable Rack and Cable Ladder

- Material of perforated steel plate with a thickness of minimum 1.6 mm for feeder cable installation and minimum 1.2 mm for lighting installations
- U-type cable racks with openings (holes) of about 50%, while type W cable ladders. Both have suitable covers.
- Finishing with electro planting minimum 12 microns
- Length per part minimum 2.4 meters with width and height according to the picture, for the installation of lighting width and cable rack height as needed.
- Must use appropriate supporting materials (elbow, tee, cross, reducer, joint etc.), branded the same as the cable rack / cable ladder used and installed using the correct and safe way.
- Branded Trayindo or equal.

3. Auxiliary Equipment and Auxiliary Materials

- Equipment and auxiliary materials are equipment and materials, both mentioned in this specification or not, but technically it is necessary to complete the installation in order to obtain a good result, meet the requirements, safe and reliable
- All cable clamps, cable ties etc. The one used must be factory-made.
- The connection between the wires for lighting installation and the socket must be done in the terminal doos, the color of the cable must be safe. The terminal doos must be big enough and have a lid.
- All cable connections to the equipment terminal must use cable boots that are of the right size and installed in the correct manner

III. IMPLEMENTATION

1. Panel Mounting

- Panel location as shown in the picture and adapted to local conditions, if there is difficulty in determining the location of the panel, you can ask CM / Site Manager directions.
- For panels installed embedded (inbouw), the cable from / to the terminal panel must be protected with PVC pipes that are embedded in the wall in a strong and neat order. Whereas for panels that is attached to the wall (outbound), the cable from / to the terminal panel must go through a cable ladder and arranged / tied neatly. The panel must be firmly fixed to the wall with 4 baud binders (dina-bolt) with a diameter of min. $\frac{5}{8}$ ", generally the height of the panel mounted on the wall (wall mounted) = 1.60 meters from the floor (as).
- For panels that are installed standing on the floor must be equipped with a position / strong foundation of concrete with a height according to the drawing min. 10 cm above the floor surface (for outdoor min. 30 cm) and equipped with 4 armature / anchor diameter of min. $\frac{5}{8}$ ", cable from / to the terminal panel through the cable trench or duct / pipe.
- Connecting cables to terminals must use the appropriate cable lug. Installation of cable shoes can use Press-pliers for sizes up to 16 mm² and hydraulic crimping tools for sizes up to 400 mm². This connector must be good and will not cause dangerous electrical symptoms.
- Contractor must make a shop drawing for each panel installation and submit it to the CM / Site Manager for inspection and approval.

2. Underground Cable Withdrawal

- Underground cable withdrawals must meet applicable regulations / standards, manufacturer's requirements and those shown in the drawings / RKS
- It is not allowed to change the cable type and size without the approval of the CM / Site Manager
- Underground cable withdrawal line as shown in the picture and adapted to local conditions, if there is a problem or difficulty in determining the cable line, you can ask for guidance from CM / Site Manager
- Excavation can only be carried out after the underground cable withdrawal route is surveyed and inspected and approved by the CM / Site Manager
- Laying / pulling of the new ground cable can be done after the excavation is examined and received approval from the CM / Site Manager
- Cables should not be twisted and labeled with lead indicating direction and phase at any distance of ± 1 meter, the thickness of the sand layer and the installation of protective bricks must be as required in the picture / RKS.

- Underground cable lines crossing roads or pavement must be protected with a minimum of class AW PVC pipe
- Containment is not permitted before the CM / Site Manager check and approve the placement of the cable.
- After the confinement is completed, every 15 meters must be installed concrete pegs 20 x 20 x 60 cm and reads "SOIL CABLE". These stakes are painted yellow with red writing.
- Cables that penetrate walls or floors must use sleeve pipes of the size according to the drawing, these pipes must be at least from AW grade PVC.
- Connecting cables as far as possible is avoided, except when circumstances are not possible. The connection can be done after obtaining permission from the CM / Site Manager, by using 3M Cable / Cast Resin made by 3M or equivalent. Above the connection is placed a concrete stake that reads "MOF CABLE".
- Cables should not be bent with a radius less than 15x in diameter. Above the turn is placed a concrete stake that reads "LAND CABLE: and the direction of the turn.
- This work should not be done at night.

3. Grounding

- The Grounding System must meet applicable regulations and the requirements shown in the drawings / RKS.
- Grounding system is a network of earth inside and outside the building that is connected with several ground points
- All electrical equipment, metal equipment and parts of metal building structures must be connected to the grounding system. The cable rack, cable ladder and metal in the cable channel must be connected to the grounding system in several places to be perfectly grounded.
- Grounding conductors for panels and other electrical equipment use NYA / BCC, while for metal equipment and building structures using BCC, the conductor size is as per drawings (min. 4 mm²). Connecting the ground to the equipment using cable shoes, connecting the ground to the building structure with welded, the connection between the conductor and branching using a connector / reducer of copper.
- The ground point must be equipped with a 40 x 40 cm control tub, ground electrodes using copper rods with a diameter of min. 1 "with a depth of 8 meters.
- Soil resistance at each ground point <1 Ohm measured after 3 days of not raining, the earth electrodes can be added in number and depth, then paralleled to achieve a soil resistance value <1 Ohm.
- Measurement of land resistance by the contractor and witnessed by the CM / Site Manager

IV. TESTING INSTALLATION

- After the electrical work is completed by the contractor and obtaining approval or approval from the CM / Site Manager, the test should be done.
- Testing should be done in accordance with applicable regulations / standards, the requirements of the manufacturer and shown in this drawing / RKS.
- Contractor must make a detailed test plan and schedule to be submitted to the CM / Site Manager and obtain an approval.
- If there are test results that are not good or do not meet the rules / standards / requirements, the Contractor must improve it until a good result is obtained, with costs that are entirely borne by the Contractor.

- Every test that has given good results, reports must be made of signed by the Contractor and the CM / Site Manager. The minutes of this test will be an attachment to the minutes of the handover of the first phase of work.
- The test include :
 1. Uji Tanpa Beban (No Load Test)
 2. Uji Beban Penuh (Full Load Test)
 3. Uji Operasi (Trial Run)

1. No Load Test

This test is free of charge and one by one for equipment:

1. Transformer
Testing includes, but is not limited to, the following:
 - Visual examination
 - Measurement of insulation resistance with 1000 volt megger
 - Ratio and group vector measurements
 - Testing high-voltage for AC
2. Panel TM
Testing includes, but is not limited to, the following:
 - Visual examination
 - Measurement of insulation resistance with 1000 volt megger
 - Testing high-voltage for AC
3. Cabel TM
Testing includes, but is not limited to, the following:
 - Measurement of insulation resistance with 1000 volt megger
 - Testing high-voltage for AC
4. Installation testing 0,6/1 kV
Testing includes, but is not limited to, the following:
 - Measurement of insulation resistance with 1000 volt megger
 - Pengukuran tahanan instalasi dengan megger 1000 volt
 - Grounding resistance measurement

2. Full Load Test

This full load test is by loading the equipment in stages until it reaches full load according to its capacity, this test is carried out on Transformer. The transformer is operated by being given a "artificial / bank" load in stages until it reaches full load and observing all meters, indicators etc.

Notes :

The free load and full load test for transformers, TM panels and TM cables must be held by an independent third party, namely by PT. PLN (Persero) – Litbang Ketenagalistrikan (JTK) on Jln. Duren Tiga, South Jakarta.

Annexes to the Technical Specification :

Annex 1. Electrical Diagram

Annex 2. Underground Cable Layout

SECTION 5B: OTHER RELATED REQUIREMENTS

Further to the Schedule of Requirements in the preceding Table, Bidders are requested to take note of the following additional requirements, conditions, and related services pertaining to the fulfillment of the requirements: *[check the condition that applies to this ITB, delete the entire row if condition is not applicable to the goods being procured]*

Delivery Term [INCOTERMS 2010] <i>(Pls. link this to price schedule)</i>	DAP
Exact Address of Delivery/Installation Location	Anutapura Hospital in Palu
Mode of Transport Preferred	Other as proposed by the bidder
UNDP Preferred Freight Forwarder, if any ²	N/A
Distribution of shipping documents <i>(if using freight forwarder)</i>	N/A
Customs, if required, clearing shall be done by:	Supplier
Ex-factory / Pre-shipment inspection	N/A
Inspection upon delivery	YES
Installation Requirements	YES
Testing Requirements	YES
Scope of Training on Operation and Maintenance	YES
Commissioning	YES
Warranty Period	12 (twelve) months
Local Service Support	YES - Service center, spare part, and consumables must be available in Indonesia. Service center location must be specified along with the bidding document.
Technical Support Requirements	YES
After-sale services Requirements	<input checked="" type="checkbox"/> Warranty on Parts and Labor for minimum period of 12 (twelve) months <input checked="" type="checkbox"/> Technical Support <input checked="" type="checkbox"/> Provision of Service Unit when pulled out for maintenance /repair <input type="checkbox"/> Others <i>[pls. specify]</i>
Payment Terms <i>(max. advanced payment is 20% as per UNDP policy)</i>	Other (90% after goods arrived at specified delivery locations and 10% after training/commissioning completed)
Conditions for Release of Payment	<input type="checkbox"/> Pre-shipment inspection

²A factor of the Incoterms stipulated in the ITB. The use of a UNDP preferred freight forwarder may be considered for purposes of ensuring forwarder's familiarity with procedures and processing of documentary requirements applicable to UNDP when clearing with customs authority of the country of destination.

	<input checked="" type="checkbox"/> Inspection upon arrival at destination <input checked="" type="checkbox"/> Installation <input checked="" type="checkbox"/> Testing <input checked="" type="checkbox"/> Training on Operation and Maintenance <input type="checkbox"/> Others <i>[pls. specify]</i> <input checked="" type="checkbox"/> Written Acceptance of Goods based on full compliance with ITB requirements
All documentations, including catalogues, instructions and operating manuals, shall be in this language	English or Bahasa Indonesia

SECTION 6: RETURNABLE BIDDING FORMS / CHECKLIST

This form serves as a checklist for preparation of your Bid. Please complete the Returnable Bidding Forms in accordance with the instructions in the forms and return them as part of your Bid submission. No alteration to format of forms shall be permitted and no substitution shall be accepted.

Before submitting your Bid, please ensure compliance with the Bid Submission instructions of the BDS 22.

Technical Bid:

Have you duly completed all the Returnable Bidding Forms?	
▪ Form A: Bid Submission Form	<input type="checkbox"/>
▪ Form B: Bidder Information Form	<input type="checkbox"/>
▪ Form C: Joint Venture/Consortium/ Association Information Form	<input type="checkbox"/>
▪ Form D: Qualification Form	<input type="checkbox"/>
▪ Form E: Format of Technical Bid/Bill of Quantities	<input type="checkbox"/>
Have you provided the required documents to establish compliance with the evaluation criteria in Section 4?	<input type="checkbox"/>

Price Schedule:

▪ Form F: Price Schedule Form	<input type="checkbox"/>
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Form A: Bid Submission Form

Name of Bidder:	[Insert Name of Bidder]	Date:	Select date
ITB reference:	[Insert ITB Reference Number]		

We, the undersigned, offer to supply the goods and related services required for [Insert Title of goods and services] in accordance with your Invitation to Bid No. [Insert ITB Reference Number] and our Bid. We hereby submit our Bid, which includes this Technical Bid and Price Schedule.

Our attached Price Schedule is for the sum of [Insert amount in words and figures and indicate currency].

We hereby declare that our firm, its affiliates or subsidiaries or employees, including any JV/Consortium /Association members or subcontractors or suppliers for any part of the contract:

- a) is not under procurement prohibition by the United Nations, including but not limited to prohibitions derived from the Compendium of United Nations Security Council Sanctions Lists;
- b) have not been suspended, debarred, sanctioned or otherwise identified as ineligible by any UN Organization or the World Bank Group or any other international Organization;
- c) have no conflict of interest in accordance with Instruction to Bidders Clause 4;
- d) do not employ, or anticipate employing, any person(s) who is, or has been a UN staff member within the last year, if said UN staff member has or had prior professional dealings with our firm in his/her capacity as UN staff member within the last three years of service with the UN (in accordance with UN post-employment restrictions published in ST/SGB/2006/15);
- e) have not declared bankruptcy, are not involved in bankruptcy or receivership proceedings, and there is no judgment or pending legal action against them that could impair their operations in the foreseeable future;
- f) undertake not to engage in proscribed practices, including but not limited to corruption, fraud, coercion, collusion, obstruction, or any other unethical practice, with the UN or any other party, and to conduct business in a manner that averts any financial, operational, reputational or other undue risk to the UN and we embrace the principles of the United Nations Supplier Code of Conduct and adhere to the principles of the United Nations Global Compact.

We declare that all the information and statements made in this Bid are true and we accept that any misinterpretation or misrepresentation contained in this Bid may lead to our disqualification and/or sanctioning by the UNDP.

We offer to supply the goods and related services in conformity with the Bidding documents, including the UNDP General Conditions of Contract and in accordance with the Schedule of Requirements and Technical Specifications.

Our Bid shall be valid and remain binding upon us for the period specified in the Bid Data Sheet.

We understand and recognize that you are not bound to accept any Bid you receive.

I, the undersigned, certify that I am duly authorized by [Insert Name of Bidder] to sign this Bid and bind it should UNDP accept this Bid.

Name: _____

Title: _____

Date: _____

Signature: _____

[Stamp with official stamp of the Bidder]

Form B: Bidder Information Form

Legal name of Bidder	[Complete]
Legal address	[Complete]
Year of registration	[Complete]
Bidder's Authorized Representative Information	Name and Title: [Complete] Telephone numbers: [Complete] Email: [Complete]
Are you a UNGM registered vendor?	<input type="checkbox"/> Yes <input type="checkbox"/> No If yes, [insert UGNM vendor number]
Are you a UNDP vendor?	<input type="checkbox"/> Yes <input type="checkbox"/> No If yes, [insert UNDP vendor number]
Countries of operation	[Complete]
No. of full-time employees	[Complete]
Quality Assurance Certification (e.g. ISO 9000 or Equivalent) (If yes, provide a Copy of the valid Certificate):	[Complete]
Does your Company hold any accreditation such as ISO 14001 or ISO 14064 or equivalent related to the environment? (If yes, provide a Copy of the valid Certificate):	[Complete]
Does your Company have a written Statement of its Environmental Policy? (If yes, provide a Copy)	[Complete]
Does your organization demonstrates significant commitment to sustainability through some other means, for example internal company policy documents on women empowerment, renewable energies or membership of trade institutions promoting such issues	[Complete]
Is your company a member of the UN Global Compact	[Complete]
Contact person that UNDP may contact for requests for clarifications during Bid evaluation	Name and Title: [Complete] Telephone numbers: [Complete] Email: [Complete]

Please attach the following documents:

- Company Profile, which should not exceed fifteen (15) pages, including printed brochures and product catalogues relevant to the goods and/or services being procured
- Certificate of Incorporation/ Business Registration
- Tax Registration/Payment Certificate issued by the Internal Revenue Authority evidencing that the Bidder is updated with its tax payment obligations, or Certificate of Tax exemption, if any such privilege is enjoyed by the Bidder
- Trade name registration papers, if applicable
- Quality Certificate (e.g., ISO, etc.) and/or other similar certificates, accreditations, awards and citations received by the Bidder, if any
- Environmental Compliance Certificates, Accreditations, Markings/Labels, and other evidences of the Bidder's practices which contributes to the ecological sustainability and reduction of adverse environmental impact (e.g., use of non-toxic substances, recycled raw materials, energy-efficient equipment, reduced carbon emission, etc.), either in its business practices or in the goods it manufactures
- Patent Registration Certificates, if any of technologies submitted in the Bid is patented by the Bidder
- Certification or authorization to act as Agent on behalf of the Manufacturer, or Power of Attorney.
- Export Licenses, if applicable
- Local Government permit to locate and operate in assignment location, if applicable
- Official Letter of Appointment as local representative, if Bidder is submitting a Bid on behalf of an entity located outside the country

Form C: Joint Venture/Consortium/Association Information Form

Name of Bidder:	[Insert Name of Bidder]	Date:	Select date
ITB reference:	[Insert ITB Reference Number]		

To be completed and returned with your Bid if the Bid is submitted as a Joint Venture/Consortium/Association.

No	Name of Partner and contact information <i>(address, telephone numbers, fax numbers, e-mail address)</i>	Proposed proportion of responsibilities (in %) and type of goods and/or services to be performed
1	[Complete]	[Complete]
2	[Complete]	[Complete]
3	[Complete]	[Complete]

Name of leading partner (with authority to bind the JV, Consortium, Association during the ITB process and, in the event a Contract is awarded, during contract execution)	[Complete]
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We have attached a copy of the below referenced document signed by every partner, which details the likely legal structure of and the confirmation of joint and severable liability of the members of the said joint venture:

☐ Letter of intent to form a joint venture **OR** ☐ JV/Consortium/Association agreement

We hereby confirm that if the contract is awarded, all parties of the Joint Venture/Consortium/Association shall be jointly and severally liable to UNDP for the fulfillment of the provisions of the Contract.

Name of partner: _____ Name of partner: _____

Signature: _____ Signature: _____

Date: _____ Date: _____

Name of partner: _____ Name of partner: _____

Signature: _____ Signature: _____

Date: _____ Date: _____

Form D: Eligibility and Qualification Form

Name of Bidder:	[Insert Name of Bidder]	Date:	Select date
ITB reference:	[Insert ITB Reference Number]		

If JV/Consortium/Association, to be completed by each partner.

History of Non- Performing Contracts

<input type="checkbox"/> Non-performing contracts did not occur during the last 3 years			
<input type="checkbox"/> Contract(s) not performed in the last 3 years			
Year	Non- performed portion of contract	Contract Identification	Total Contract Amount (current value in US\$)
		Name of Client: Address of Client: Reason(s) for non-performance:	

Litigation History (including pending litigation)

<input type="checkbox"/> No litigation history for the last 3 years			
<input type="checkbox"/> Litigation History as indicated below			
Year of dispute	Amount in dispute (in US\$)	Contract Identification	Total Contract Amount (current value in US\$)
		Name of Client: Address of Client: Matter in dispute: Party who initiated the dispute: Status of dispute: Party awarded if resolved:	

Previous Relevant Experience

Please list only previous similar assignments successfully completed in the last 10 years.

List only those assignments for which the Bidder was legally contracted or sub-contracted by the Client as a company or was one of the Consortium/JV partners. Assignments completed by the Bidder's individual experts working privately or through other firms cannot be claimed as the relevant experience of the Bidder, or that of the Bidder's partners or sub-consultants, but can be claimed by the Experts themselves in their CVs. The Bidder should be prepared to substantiate the claimed experience by presenting copies of relevant documents and references if so requested by UNDP.

Project name & Country of Assignment	Client & Reference Contact Details	Contract Value	Period of activity and status	Types of activities undertaken

Bidders may also attach their own Project Data Sheets with more details for assignments above.

☐ Attached are the Statements of Satisfactory Performance from the Top 3 (three) Clients or more.

Financial Standing

Annual Turnover for the last 3 years	Year	USD
	Year	USD
	Year	USD
Latest Credit Rating (if any), indicate the source		

Financial information (in US\$ equivalent)	Historic information for the last 3 years		
	Year 1	Year 2	Year 3
	<i>Information from Balance Sheet</i>		
Total Assets (TA)			
Total Liabilities (TL)			
Current Assets (CA)			
Current Liabilities (CL)			
	<i>Information from Income Statement</i>		
Total / Gross Revenue (TR)			
Profits Before Taxes (PBT)			
Net Profit			
Current Ratio			

☐ Attached are copies of the audited financial statements (balance sheets, including all related notes, and income statements) for the years required above complying with the following condition:

- Must reflect the financial situation of the Bidder or party to a JV, and not sister or parent companies;
 - Historic financial statements must be audited by a certified public accountant;
 - Historic financial statements must correspond to accounting periods already completed and audited.
- No statements for partial periods shall be accepted.

Form E: Format of Technical Bid

Name of Bidder:	[Insert Name of Bidder]	Date:	Select date
ITB reference:	[Insert ITB Reference Number]		

The Bidder's Bid should be organized to follow this format of the Technical Bid. Where the bidder is presented with a requirement or asked to use a specific approach, the bidder must not only state its acceptance, but also describe how it intends to comply with the requirements. Where a descriptive response is requested, failure to provide the same will be viewed as non-responsive.

SECTION 1: Bidder's qualification, capacity and expertise

UNDP Requirements		Is Bid compliant? Bidder to complete	Details Bidder to complete
Previous Experience	Minimum 3 years of relevant experience	<input type="checkbox"/> Yes <input type="checkbox"/> No	Insert details
	Minimum 3 contracts of similar value or nature and complexity implemented over the last 10 years.	<input type="checkbox"/> Yes <input type="checkbox"/> No	Insert details
Financial Standing	Minimum average annual turnover of USD 100,000 in any single year for the last 3 years (2016-2017-2018)	<input type="checkbox"/> Yes <input type="checkbox"/> No	Insert details

SECTION 2: Scope of Supply, Technical Specifications, and Related Work

No.	Item/ Description/ Specification	Unit	QTY	Your response			
				Compliance with technical specifications		Delivery Date (confirm that you comply or indicate your delivery date)	Quality Certificate/Export Licenses, etc. (indicate all that apply and attach)
				Yes, we comply	No, we cannot comply (indicate discrepancies)		
1	1.A. Power Transformer General <ul style="list-style-type: none"> Compliance with SNI / SII / SLI Standards or VDE / DIN standards, and PUIL/ IEC regulations. Type: Oil immersed Coil material: Copper Cooling method: Oil Natural Air Natural (ONAN) Transformer equipped with thermometer with double contact, DGPT, wheel, lifting eye, elastimold. Year of Manufacture: 2019 Warranty Period: 1 Year Quality equivalent to: Trafindo - Schneider or equal Rating <ul style="list-style-type: none"> Capacity: 1000 kVA Voltage: 20000/ 400/ 231 V Tapping voltage: $\pm 2 \times 2,5 \%$ Vector Group: Dyn 5 Phases: 3 phases Electrical Characteristics 	set	1				

No.	Item/ Description/ Specification	Unit	QTY	Your response			
				Compliance with technical specifications		Delivery Date (confirm that you comply or indicate your delivery date)	Quality Certificate/Export Licenses, etc. (indicate all that apply and attach)
				Yes, we comply	No, we cannot comply (indicate discrepancies)		
	<ul style="list-style-type: none"> Tank body, including tank fins, are made of 'cold roll steel sheets' while upper and lower lids are made of 'mild steel plates' with certain thicknesses. Packing / gaskets are made of nitrile-rubber which can withstand high temperatures and good oil resistance. Before the painting process, the tank must undergo leak testing to ensure there is no oil leakage during the transformer is operated. Painting the tank consist with standard procedures such as: <ul style="list-style-type: none"> - Especially for the pre-treatment process, which is to remove impurities attached to the surface of the steel plate in the form of oil and rust, it must be removed through a "shot-blast" process, and then followed by a process to reduce the depth of the phosphate solution. - In the process of painting that is after the pre-treatment process is completed, starting with the base-coat and finally with the final-coat process. Drying the paint is done by roasting. <p>The selected paints are weather resistant paint for the outer tank and paint that is corrosion resistant and oil resistant for the inner tank.</p> <p>Installation</p> <p>Testing & Commissioning</p>	lumpsum lumpsum	1 1				

No.	Item/ Description/ Specification	Unit	QTY	Your response			
				Compliance with technical specifications		Delivery Date (confirm that you comply or indicate your delivery date)	Quality Certificate/Export Licenses, etc. (indicate all that apply and attach)
				Yes, we comply	No, we cannot comply (indicate discrepancies)		
	<ul style="list-style-type: none"> Cable Sealing end/Cable termination <ul style="list-style-type: none"> - Voltage (phase to phase) : 25 kV - Impulse 1.2 x 50 Wave : 125 kV - Corona extinction voltage level : 30 kV - Material from metal connector screw cable lug - Moulded rubber cap/top seal - Non-tracking rubber module/creepage current resistant, silicon rubber sheds. - Cable insulation/active pressure - Ground clamp/lower creepage collector + ground eye - Moulded stress relief/cold-flowing stress grading pad - Quality equivalent to 3M Cable Joint/Junction Sleeves <ul style="list-style-type: none"> - System voltage : 25 kV - Impulse voltage 1.2 x 50 micro sec wave : 50 kV - Corona Extinction voltage minimum : 21.6 kV - DC withstand, during/ after installation : 75 kV/ 80 kV - Material : Cable Armor - Core Metallic Tape Screen - Compression Connector - Core Joint Housing - Metal screen Continuity Kit - Inner Jacket Restoration Kit - Quality equivalent to 3M 						
	Testing & Commissioning	lumpsum	1				

No.	Item/ Description/ Specification	Unit	QTY	Your response			
				Compliance with technical specifications		Delivery Date (confirm that you comply or indicate your delivery date)	Quality Certificate/Export Licenses, etc. (indicate all that apply and attach)
				Yes, we comply	No, we cannot comply (indicate discrepancies)		
	<ul style="list-style-type: none"> Factory test Proposed cables must be equipped with a certificate of testing and measurement of cable from the manufacturer and third party authorized for this test; must met tests conducted by PLN-Litbang Ketenagalistrikan (d/h PLN LMK). Site-Test Tests on site before and after the cable is installed, where the contractor must carry out measurements of the dielectric insulation test, with the Meger & DC-Test (40 kV-15 minutes). 						
	Training on Operation and Maintenance						
	Mobilization & Demobilization						
	Cable Transformer to Low Voltage Main	lumpsum	1				
	Distribution Panel	lumpsum	1				
	3 x (NYFGbY 4x300mm ²) + 1 x (NYY 1x400mm ²)		39				
	Installation		39				
	Testing & Commissioning	lumpsum	1				
	Scope of Training on Operation and Maintenance	lumpsum	1				
	Mobilization & Demobilization	lumpsum	1				
	1.B.(iii) Grounding						
	BCC 120mm ² + Grounding		1				
	Point						
	Installation	lumpsum	1				
	Testing & Commissioning	lumpsum	1				
	Scope of Training on Operation and Maintenance	lumpsum	1				
	Mobilization & Demobilization	lumpsum	1				
	1.C. Indoor Cable Ladder/ Tray						

No.	Item/ Description/ Specification	Unit	QTY	Your response			
				Compliance with technical specifications		Delivery Date (confirm that you comply or indicate your delivery date)	Quality Certificate/Export Licenses, etc. (indicate all that apply and attach)
				Yes, we comply	No, we cannot comply (indicate discrepancies)		
2	Size 50 x 10	meter	11				
	Size 15 x 5	meter	10				
	Installation	meter	21				
	1.D. Cable Trenching Works Making cable trench 60x60 cm with masonry construction c/w cover of checkered plate	meter	16				
	1.E. Excavation and Backfilling Works Excavation and backfilling of underground cable lines c/w protective bricks or conduit and sand layers (not including pulling and laying of cables)	meter	51				
	2.A. Low Voltage Main Distribution Panel (LV MDP) - Voltage : 400/231 V - Frequency : 50 Hz - Main busbar rating : 1.5 x I _{AF} of CB - Protection Degree : IP 55	set	1				
	Installation	lumpsum	1				
	Testing & Commissioning	lumpsum	1				
	Scope of Training on Operation and Maintenance	lumpsum	1				
	Mobilization & Demobilization	lumpsum	1				
2.B. 2.B.(i)	LV MDP Cabling						
	Cable from LV MDP to DP1 & DP2 4 x (NVFGbY 4x240mm ²)						
	Installation Fee	Supply by UNDP meter	546				
	Testing & Commissioning	lumpsum	1				
	Scope of Training on Operation and Maintenance	lumpsum	1				
	Mobilization & Demobilization	lumpsum	1				

No.	Item/ Description/ Specification	Unit	QTY	Your response				Comments
				Compliance with technical specifications		Delivery Date (confirm that you comply or indicate your delivery date)	Quality Certificate/Export Licenses, etc. (indicate all that apply and attach)	
				Yes, we comply	No, we cannot comply (indicate discrepancies)			
3	2.B.(ii) Cable from LV MDP to Capacitor Bank 3 x (NYY 3x300mm ²) + 1x(NYY 1x300mm ²) Installation Fee Testing & Commissioning Scope of Training on Operation and Maintenance Mobilization & Demobilization	meter meter lumpsum lumpsum lumpsum	7 7 1 1 1					
	2.B.(iii) Grounding BCC 120mm ² + Grounding Point Installation Fee Testing & Commissioning Scope of Training on Operation and Maintenance Mobilization & Demobilization	lumpsum lumpsum lumpsum lumpsum lumpsum	1 1 1 1 1					
	2.C. Indoor Cable Ladder/ Tray Size 50 x 10 Installation Fee	meter meter	7 7					
	2.D. Cable Trenching Works Making cable trench 60x60 cm with masonry construction c/w cover of checkered plate	meter	6					
	2.E. Excavation and Backfilling Works Excavation and backfilling of underground cable lines c/w protective bricks or conduit and sand layers (not including pulling and laying of cables)	meter	240					
	3.A. Synchronizer Panel Specification - Voltage : 400/231 V - Frequency : 50 Hz	set	1					

No.	Item/ Description/ Specification	Unit	QTY	Your response			
				Compliance with technical specifications		Delivery Date (confirm that you comply or indicate your delivery date)	Quality Certificate/Export Licenses, etc. (indicate all that apply and attach)
				Yes, we comply	No, we cannot comply (indicate discrepancies)		
	<ul style="list-style-type: none"> - Main busbar rating : 1.5 x I_{AF} of CB - Protection Degree : IP 55 Installation Fee Testing & Commissioning Scope of Training on Operation and Maintenance Mobilization & Demobilization	lumpsum lumpsum lumpsum lumpsum	1 1 1 1				
3.B.	Synchronizer Panel Cabling						
3.B.(i)	Cable from Diesel Genset to Synchronizer Panel 3 x (NYY 2x300mm ²) + 1 x (NYY 1x300mm ²) Installation Fee Testing & Commissioning Scope of Training on Operation and Maintenance Mobilization & Demobilization	meter meter lumpsum lumpsum lumpsum	40 40 1 1 1				
3.B.(ii)	Cable from Synchronizer Panel to LV MDP 3 x (NYY 4x300mm ²) + 1 x (NYY 1x400mm ²) Installation Fee Testing & Commissioning Scope of Training on Operation and Maintenance Mobilization & Demobilization	meter meter lumpsum lumpsum lumpsum	24 24 1 1 1				
3.B.(iii)	Grounding BCC 120mm ² + Grounding Point Installation Fee Testing & Commissioning Scope of Training on Operation and Maintenance Mobilization & Demobilization	lumpsum lumpsum lumpsum lumpsum lumpsum	1 1 1 1 1				

Other Related services and requirements (based on the information provided in Section 5b)	Compliance with requirements		Details or comments on the related requirements
	Yes, we comply	No, we cannot comply (indicate discrepancies)	
Conformity to Technical Specifications and ITB requirement			
Bidder shall deliver all/ quoted equipment to Anutapura Hospital in Palu within 3 months after PO/Contract signature.			
Availability of After-sales Services center in Indonesia			
Warranty Conditions - To be submitted along with tender document			
Compliance with UNDP General Terms and Conditions including payment terms			
Availability of Instruction Manual in English or Indonesian language			

SECTION 3: Management Structure and Key Personnel

Provide CVs for key personnel that will be provided to support the implementation of this project using the format below. CVs should demonstrate qualifications in areas relevant to the scope of goods and/or services.

Format for CV of Proposed Key Personnel

Name of Personnel	[Insert]
Position for this assignment	[Insert]
Nationality	[Insert]
Language proficiency	[Insert]
Education/Qualifications	<i>[Summarize college/university and other specialized education of personnel member, giving names of schools, dates attended, and degrees/qualifications obtained.]</i> [Insert]
Professional certifications	<i>[Provide details of professional certifications relevant to the scope of goods and/or services]</i> <ul style="list-style-type: none">▪ Name of institution: [Insert]▪ Date of certification: [Insert]
Employment Record/Experience	<i>[List all positions held by personnel (starting with present position, list in reverse order), giving dates, names of employing organization, title of position held and location of employment. For experience in last five years, detail the type of activities performed, degree of responsibilities, location of assignments and any other information or professional experience considered pertinent for this assignment.]</i> [Insert]
References	<i>[Provide names, addresses, phone and email contact information for two (2) references]</i> Reference 1: [Insert] Reference 2: [Insert]

I, the undersigned, certify that to the best of my knowledge and belief, the data provided above correctly describes my qualifications, my experiences, and other relevant information about myself.

Signature of Personnel

FORM F: Price Schedule Form

Name of Bidder:	[Insert Name of Bidder]	Date:	Select date
ITB reference:	[Insert ITB Reference Number]		

The Bidder is required to prepare the Price Schedule following the below format. The Price Schedule must include a detailed cost breakdown of all goods and related services to be provided. Separate figures must be provided for each functional grouping or category, if any.

Any estimates for cost-reimbursable items, such as travel of experts and out-of-pocket expenses, should be listed separately.

Currency of the Bid: [Insert Currency]

Price Schedule

No.	Item/ Description/ Specification	Unit	QTY	Unit Price (IDR)	Total Price (IDR)
1	1.A. Power Transformer General <ul style="list-style-type: none"> Compliance with SNI / SII / SLI Standards or VDE / DIN standards, and PUIL/ IEC regulations. Type: Oil immersed Coil material: Copper Cooling method: Oil Natural Air Natural (ONAN) Transformer equipped with thermometer with double contact, DGPT, wheel, lifting eye, elastimold. Year of Manufacture: 2019 Warranty Period: 1 Year Quality equivalent to: Trafindo Schneider or equal Rating <ul style="list-style-type: none"> Capacity: 1000 kVA Voltage: 20000/ 400/ 231 V Tapping voltage: $\pm 2 \times 2,5 \%$ Vector Group: Dyn 5 Phases: 3 phases Electrical Characteristics - Frequency: 50 Hz 	set	1		

No.	Item/ Description/ Specification	Unit	QTY	Unit Price (IDR)	Total Price (IDR)
	<ul style="list-style-type: none"> - Insulation class primary voltage 24 kV - Basic Impulse Voltage: primary winding 125 kV - Test Voltage for 1 minute: primary winding 50 kV; secondary winding 1 kV - Isolation: Class A - Winding temperature: max. 65/55 °C - No Load losses max. 0,5 % - Load losses max. 2 % - Impedance voltage 10% - Noise level 32 dB – 3 meters <p>Tank body</p> <ul style="list-style-type: none"> • Tank strips (fins type tank) for transformer power up to 1,600 kVA are formed from corrugated tanks in order to meet Total Integral Filling, which is transformer oil can be fully filled to the tank cap, where the expansion of oil during the transformer operates can be accommodated by the "breathing" of the corrugated fins. • The transformer tank to be used is of the "Hermetically Sealed Tank" type filled with Nitrogen gas pads on the oil surface, which is to prevent any 'contact' between the oil and the outside air. • Tank body, including tank fins, are made of 'cold roll steel sheets' while upper and lower lids are made of 'mild steel plates' with certain thicknesses. • Packing / gaskets are made of nitrile-rubber which can withstand high temperatures and good oil resistance. • Before the painting process, the tank must undergo leak testing to ensure there is no oil leakage during the transformer is operated. 				

No.	Item/ Description/ Specification	Unit	QTY	Unit Price (IDR)	Total Price (IDR)
	<ul style="list-style-type: none"> Painting the tank consist with standard procedures such as: <ul style="list-style-type: none"> - Especially for the pre-treatment process, which is to remove impurities attached to the surface of the steel plate in the form of oil and rust, it must be removed through a "shot-blast" process, and then followed by a process to reduce the depth of the phosphate solution. - In the process of painting that is after the pre-treatment process is completed, starting with the base-coat and finally with the final-coat process. Drying the paint is done by roasting. The selected paints are weather resistant paint for the outer tank and paint that is corrosion resistant and oil resistant for the inner tank. 				
	Installation	lumpsum	1		
	Testing & Commissioning	lumpsum	1		
	<ul style="list-style-type: none"> Prior to shipping and delivery, the transformer must passed the following testing in accordance with applicable standards: <ul style="list-style-type: none"> - Turn ratio test - Polarity test - Copper loss (load loss) test - Iron loss (no load loss) test - Transformer oil breakdown voltage test - Measurement of no load current (exiting current) - Measurement of impedance - Applied voltage test - Induced voltage test - Impulse voltage test. 				
	Training on Operation and Maintenance	lumpsum	1		
	Mobilization & Demobilization	lumpsum	1		
1.B.	Transformer Cabling				
1.B.(i)	Cable from PLN Pole to MV Cubicle and to Transformer	meter	51		
	<ul style="list-style-type: none"> Medium Voltage cable to connect the MV network of PT. PLN with the MV panel and the MV panel with the transformer. Medium Voltage cable and related equipment must comply with SNI / SII / SLI Standards or VDE / DIN standards, and PUIL/IEC regulations. 				

No.	Item/ Description/ Specification	Unit	QTY	Unit Price (IDR)	Total Price (IDR)
	<ul style="list-style-type: none"> Conductor of soft annealed uncoated copper and isolated with XLPE. For underground must use the cable equipped with water sealing, copper tape protector in each core, galvanized steel tape protector for all cables and outer insulation of XLPE. Cable characteristics: <ul style="list-style-type: none"> Type : 3x(N2SXY 1x50mm²) Cross section : as shown in the drawing Voltage rating : 24 kV Frequency : 50 Hz AC test voltage (3 x 15 minute) : 30 kV Test voltage (1 minute) : 70 kV Impulse voltage : 125 kV Quality equivalent to: Supreme or equal <p>Installation</p> <ul style="list-style-type: none"> Cable Sealing end/Cable termination <ul style="list-style-type: none"> Voltage (phase to phase) : 25 kV Impulse 1.2 x 50 Wave : 125 kV Corona extinction voltage level : 30 kV Material from metal connector screw cable lug Moulded rubber cap/top seal Non-tracking rubber module/creepage current resistant, silicon rubber sheds. Cable insulation/active pressure Ground clamp/lower creepage collector + ground eye Moulded stress relief/cold-flowing stress grading pad Quality equivalent to 3M, Raychem Cable Joint/junction Sleeves <ul style="list-style-type: none"> System voltage : 25 kV Impulse voltage 1.2 x 50 micro sec wave : 50 kV Corona Extinction voltage minimum : 21.6 kV DC withstand, during/ after installation : 75 kV/ 80 kV Material : Cable Armor Core Metallic Tape Screen Compression Connector Core Joint Housing Metal screen Continuity Kit Inner Jacket Restoration Kit Quality equivalent to 3M, Raychem <p>Testing & Commissioning</p>	meter	51		
		lumpsum	1		

No.	Item/ Description/ Specification	Unit	QTY	Unit Price (IDR)	Total Price (IDR)
	<ul style="list-style-type: none"> Factory test Proposed cables must be equipped with a certificate of testing and measurement of cable from the manufacturer and third party authorized for this test; must met tests conducted by PLN-Litbang Ketenagalistrikan (d/h PLN LMK). Site-Test Tests on site before and after the cable is installed, where the contractor must carry out measurements of the dielectric insulation test, with the Meger & DC-Test (40 kV-15 minutes). 				
	Training on Operation and Maintenance	lumpsum	1		
	Mobilization & Demobilization	lumpsum	1		
1.B.(ii)	Cable Transformer to Low Voltage Main Distribution Panel				
	3x(NYFGbY 4x300mm ²) + 1x(NYY 1x400mm ²)		39		
	Installation		39		
	Testing & Commissioning	lumpsum	1		
	Scope of Training on Operation and Maintenance	lumpsum	1		
	Mobilization & Demobilization	lumpsum	1		
1.B.(iii)	Grounding				
	BCC 120mm ² + Grounding Point		1		
	Installation	lumpsum	1		
	Testing & Commissioning	lumpsum	1		
	Scope of Training on Operation and Maintenance	lumpsum	1		
	Mobilization & Demobilization	lumpsum	1		
1.C.	Indoor Cable Ladder/ Tray				
	Size 50 x 10	meter	11		
	Size 15 x 5	meter	10		
	Installation	meter	21		
1.D.	Cable Trenching Works				
	Making cable trench 60x60 cm with masonry construction c/w cover of checkered plate	meter	16		
1.E.	Excavation and Backfilling Works				
	Excavation and backfilling of underground cable lines c/w protective bricks or conduit and sand layers (not including pulling and laying of cables)	meter	51		

No.	Item/ Description/ Specification	Unit	QTY	Unit Price (IDR)	Total Price (IDR)
	TOTAL 1				
2	2.A. Low Voltage Main Distribution Panel (LV MDP) - Voltage : 400/231 V - Frequency : 50 Hz - Main busbar rating : 1.5 x I _{AF} of CB - Protection Degree : IP 55 Installation Testing & Commissioning Scope of Training on Operation and Maintenance Mobilization & Demobilization	set lumpsum lumpsum lumpsum lumpsum	1 1 1 1 1		
	2.B. LV MDP Cabling 2.B.(i) Cable from LV MDP to DP1 & DP2 4 x (NYFGbY 4x240mm ²) Installation Fee Testing & Commissioning Scope of Training on Operation and Maintenance Mobilization & Demobilization	 <i>Supply by UNDP</i> meter lumpsum lumpsum lumpsum	 546 1 1 1		
	2.B.(ii) Cable from LV MDP to Capacitor Bank 3x(NYY 3x300mm ²) + 1x(NYY 1x300mm ²) Installation Fee Testing & Commissioning Scope of Training on Operation and Maintenance Mobilization & Demobilization	 meter meter lumpsum lumpsum lumpsum	 7 7 1 1 1		
	2.B.(iii) Grounding BCC 120mm ² + Grounding Point Installation Fee Testing & Commissioning Scope of Training on Operation and Maintenance Mobilization & Demobilization	 lumpsum lumpsum lumpsum lumpsum lumpsum	 1 1 1 1 1		
	2.C. Indoor Cable Ladder/ Tray Size 50 x 10 Installation Fee	 meter meter	 7 7		
	2.D. Cable Trenching Works Making cable trench 60x60 cm with masonry construction c/w cover of checkered plate	meter	6		
	2.E. Excavation and Backfilling Works				

No.	Item/ Description/ Specification	Unit	QTY	Unit Price (IDR)	Total Price (IDR)
	Excavation and backfilling of underground cable lines c/w protective bricks or conduit and sand layers (not including pulling and laying of cables)	meter	240		
	TOTAL 2				
3	3.A. Synchronizer Panel Specification - Voltage : 400/231 V - Frequency : 50 Hz - Main busbar rating : 1.5 x I _{AF} of CB - Protection Degree : IP 55 Installation Fee Testing & Commissioning Scope of Training on Operation and Maintenance Mobilization & Demobilization	set	1		
	3.B. Synchronizer Panel Cabling 3.B.(i) Cable from Diesel Genset to Synchronizer Panel 3x(NYY 2x300mm ²) + 1x(NYY 1x300mm ²) Installation Fee Testing & Commissioning Scope of Training on Operation and Maintenance Mobilization & Demobilization	meter meter lumpsum lumpsum lumpsum	40 40 1 1 1		
	3.B.(ii) Cable from Synchronizer Panel to LV MDP 3x(NYY 4x300mm ²) + 1x(NYY 1x400mm ²) Installation Fee Testing & Commissioning Scope of Training on Operation and Maintenance Mobilization & Demobilization	meter meter lumpsum lumpsum lumpsum	24 24 1 1 1		
	3.B.(iii) Grounding BCC 120mm ² + Grounding Point Installation Fee Testing & Commissioning Scope of Training on Operation and Maintenance Mobilization & Demobilization	lumpsum lumpsum lumpsum lumpsum lumpsum	1 1 1 1 1		
	3.C. Indoor Cable Ladder/ Tray Size 50 x 10 Installation Fee	meter meter	16 16		
	3.D. Cable Trenching Works				

No.	Item/ Description/ Specification	Unit	QTY	Unit Price (IDR)	Total Price (IDR)
	Making cable trench 60x60 cm with masonry construction c/w cover of checkered plate	meter	12		
	TOTAL 3				
	GRAND TOTAL (1+2+3)				

Name of Bidder: _____

Authorised signature: _____

Name of authorised signatory: _____

Functional Title: _____

NOTE: All bids must be exclusive of VAT and other applicable indirect taxes