



ENERGY FIJI LIMITED

BIDDING DOCUMENT

**ENGINEERING, PROCUREMENT AND
CONSTRUCTION (EPC) OF 11kV/33kV
SUBSTATION for 30MW POWER STATION AT
VUDA**

TENDER NO: MR 121/2024

Addendum No. 1

REVISION NOTES:

| Date | Notes | Prepared By | Rev No. |
|----------|-----------------------------------|-------------|---------|
| 26/04/24 | Addendum No.1 compiled and issued | Ram Maharaj | 1 |
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| No | Description |
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| 1 | <p>Section 4 – Part 1, Item 2.0, Page 37</p> <p>Change</p> <p><i>“Design and Construction of Cable trench to accommodate 10 x 3 phase 33kV Circuits to divert existing overhead 33kV lines falling in the proximity of new Power Station and Substation site. The 33kV cables will be 630MM single core Aluminum XLPE PVC Cable”</i></p> <p>to</p> <p><i>“Design and Construction of Cable trench (Approximate Route Length = 320 meters) with appropriate covering to accommodate 10 x 3 phase 33kV Circuits to divert existing overhead 33kV lines falling in the proximity of new Power Station and Substation site. For road crossing (Approximate Route Length = 4.4 meters) conduits to be used with appropriate mechanical protection and backfill material. The 33kV cables will be 630MM single core Aluminum XLPE PVC Cable. The 33kV cable will be a free issue by EFL to the successful bidder. All the cable laying works (including communication & earth cables) shall be in the scope of the successful bidder. Kindly refer to “conceptual cable trench route .pdf” for indicative cable trench layout. Removal of EFL’s existing Pole and overhead lines falling in the proximity of new Power Station and Substation site shall be in the scope of the successful bidder. EFL will carry out the termination works to existing EFL grid once the cable laying works is completed by the bidder.”</i></p> |
| 2 | <p>Section 10: Drawings</p> <p>Replace</p> <p><i>“Indicative Layout of Existing Vuda Substation with New Generation Project, Drawing Number A3 01 ”</i></p> <p>With</p> <p><i>“Indicative Layout of Existing Vuda Substation with New Generation Project Drawing Number 02-E10-VDNEW-SK01 rev 02”</i> refer Appendix 1.</p> |
| | <p>Section 10: Drawings</p> <p>Add</p> <p><i>“Protection Single Line Diagram with drawing number 02-E10-VDNEW-SK02”</i> refer Appendix 2.</p> |
| 3 | <p>Section 4</p> <p>Employer's Requirements Technical Requirement Part 8 : CIVIL WORKS Page 135</p> <p>Amended the following Clause by adding “8.3.1.6 Earth retaining structures”</p> <p><i>“Where required during the course of contractions, the EPC contractor should design and erect retaining structures to prevent future soil wash away. The following steps needs to be considered for the design of retaining walls:</i></p> <ol style="list-style-type: none"> <i>1. Determine the retaining wall type, length and height of walls and any surcharge loads.</i> |

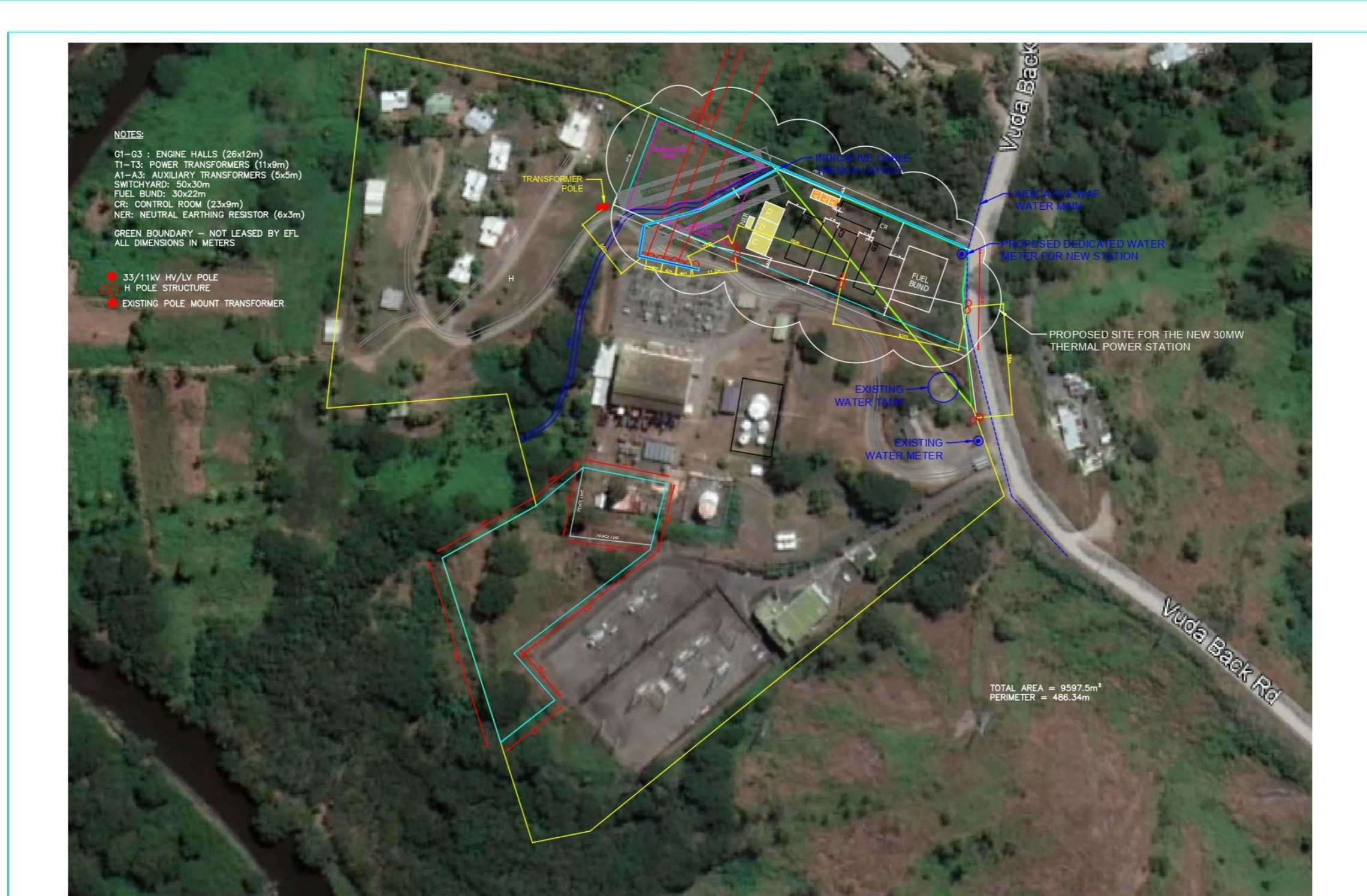
2. *Determine the soil conditions – relevant geo-tech investigations to understand the soil material that is being retained and the soil material the structure is bearing on.*
3. *Check for sliding – the design of the wall and carry out several checks to ensure it works. The first check is to make sure the wall does not slide.*
4. *Check for overturning – The second check is to make sure the wall does not topple over.*
5. *Check bearing capacity – Check the ground bearing capacity can take the loads from the structure.*
6. *Check for overall stability – Check that the structure is stable and the factor of safety is in accordance with the design code.*
7. *Complete structural design – Once all the checks are made, then complete the structural design. Write up the report, print out the calculations and draw a section through the retaining wall.*

The following Retaining wall design types maybe considered:

- *Cantilever*
- *Gravity*
- *Soil Reinforcement*
- *Anchors*

The creek crossing the Sub-Station site need to be concreted on the Creek backs to prevent from future soil wash away of creek bank. The approximate length of the creek is 85m and the EPC contractor needs to make relevant allowance for concreting of creek bank in their submission”

APPENDIX 1



| No. | REVISION | DATE | BY | CHK | PSD | APP |
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| DRAWN | PRAVISHEK | 30.04.24 |
| CHECKED | | |
| SURVEYOR | | |
| TEAM LEADER | | |
| DESIGN & PLANNING | | |
| ENGINEER | | |
| HEAD OF DEPARTMENT | KRISHNEEL.P | 30.04.24 |

ENERGY FIJI LIMITED

PROPOSED LAND USAGE FOR THE
NEW THERMAL GENERATION
PROJECT AT VUDA

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|----------------|-----|-------|---------|
| DRAWING NUMBER | | | |
| A3 | E10 | VDNEW | SK01.R2 |
| SCALE N.T.S | | | |

APPENDIX 2

