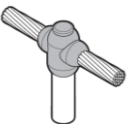
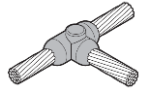
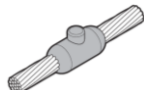


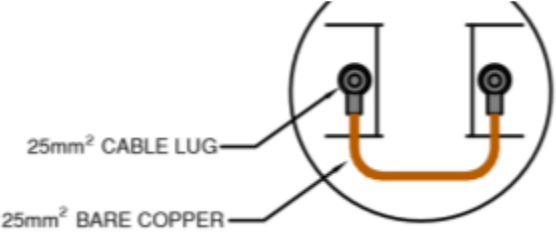
**RFQ-2025-0519**

**Installation of Earthing / Bonding for Perimeter Fence  
at Tungku Main 66/11kV Main Supply Substation**

**BILL OF QUANTITIES**

1. The bid price for the works represents the full cost to BPC for the performance and delivery of the works by the Contractor. The rates in these bills shall include supply of materials, labour costs to operate, temporary works or any other PPE and safety training costs deemed necessary to complete the works as stated.
2. The Contractor's bid price shall be in full compliance with all relevant HSE rules and regulations implemented by BPC and Government Authorities.
3. The Contractor is advised to visit the site to fully understand the scope of work prior to submitting the bid. No claims shall be entertained for incorrect and insufficient information at any point
4. All quantities in these bills are provisional and shall be re-measured upon completion of the works.

Item	Description	Unit	Qty.	Unit Rate BND	Amount BND
	Provision of skilled manpower, tools, equipment, and consumable materials as required to execute the installation of fence earthing and bonding works in accordance with the attached drawings. <i>Note: Unless otherwise specified, all earthing materials shall be supplied by BPC. The Contractor shall be responsible for collecting these materials from BPC Store.</i>	lot	1		B\$
1.	Manual excavation 500mm deep and lay 70mm <sup>2</sup> bare copper conductor. This item includes backfilling, reinstatement of surface and all associated works	m	450		B\$
2.	Laying and connection of 70mm <sup>2</sup> bonding conductor from the perimeter fence earth grid to the existing earth bar inside the substation buildings and transformer bays	lot	4		B\$
3.	<b>Installation of earth rods.</b> Install and drive copper-clad earth rod 16mmØ x 1.8m long vertically into the ground.	nos.	6		B\$
4.	<b>Exothermic welding connections.</b> Provision of skilled manpower for the installation of the following exothermic weld connections				
	a. 70mm <sup>2</sup> through cable to earth rod 	nos.	6		B\$
	b. Cable to cable horizontal tee connection tee - 70mm <sup>2</sup> cable tap to 70mm <sup>2</sup> cable run 	nos.	42		B\$
	c. 70mm <sup>2</sup> cable to cable straight connection 	nos.	6		B\$

<i>Item</i>	<i>Description</i>	<i>Unit</i>	<i>Qty.</i>	<i>Unit Rate BND</i>	<i>Amount BND</i>
5.	Connection of 70mm <sup>2</sup> bonding conductor from the perimeter fence earth grid to the fence post	nos.	42		
5.	Drill necessary holes on steel fence and gate panels; supply, install, and terminate 25mm <sup>2</sup> bonding conductors complete with appropriate cable lugs, stainless steel bolts, nuts, and washers to ensure effective electrical bonding of the fence panels, as specified in the illustration below.  	nos.	150		
	<b>Installation of road crossing pipe sleeve.</b> Supply skilled manpower and certified equipment to install pipe sleeve across the access road. This work includes, but is not limited to, the following activities: <ul style="list-style-type: none"> <li>▪ cutting of asphalt pavement.</li> <li>▪ Installation of 150 mm dia. uPVC pipe</li> <li>▪ Backfilling and reinstatement of excavated road surface to its original condition prior to excavation</li> </ul>	m	12		
<b>TOTAL</b>					

Completion Time: ..... months from Purchase Order Date (inclusive of time for submission of RAMS for approval and attendance to Safety Induction Course)

\_\_\_\_\_  
(Signature and Company Stamp)

Date: \_\_\_\_\_

Name : .....

Position : .....

Company Name : .....

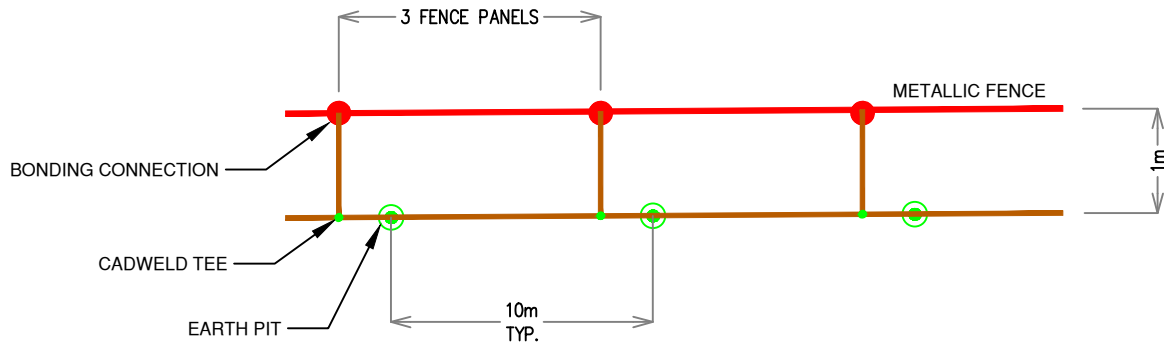
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Telephone No. : .....

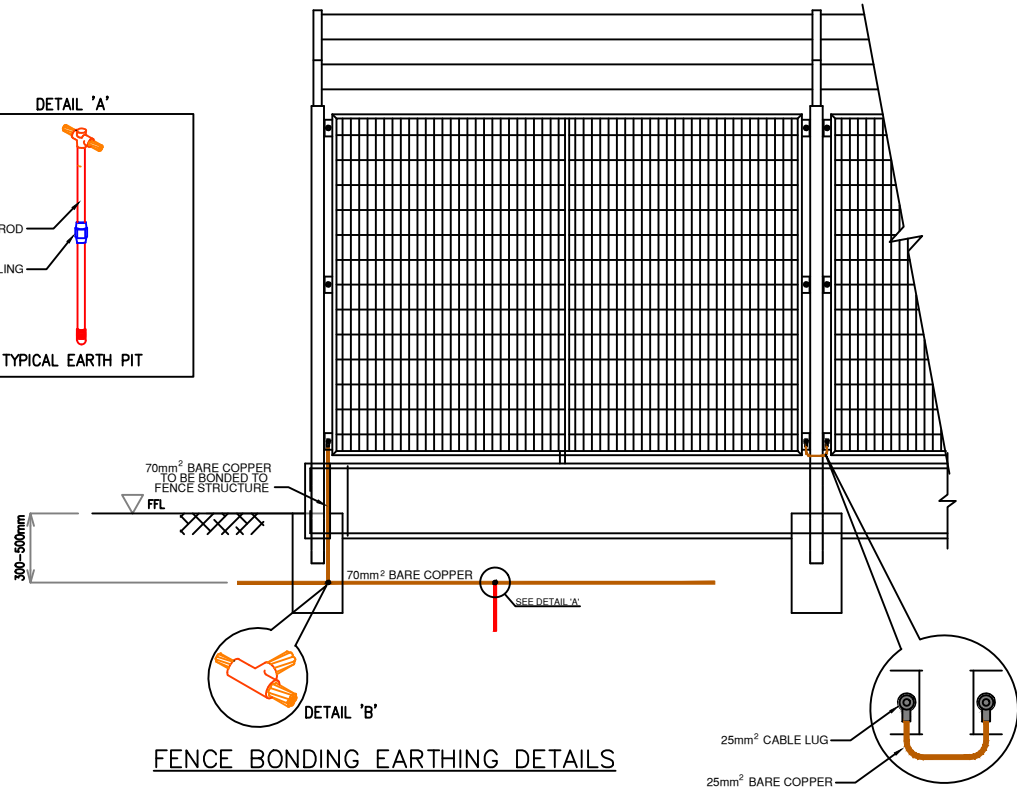
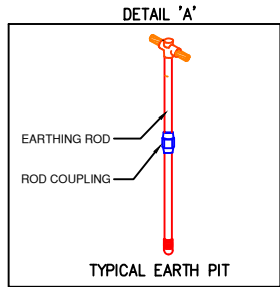
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LOCATION PLAN  
TUNGU MAIN 66/11KV SUPPLY SUBSTATION



TYPICAL FENCE BONDING ARRANGEMENT



REV	DESCRIPTION	DATE	DWN	CHK	APPR
A	ISSUE NEW DRAWING	06/03/20	DTZ	Z.P.	C.Y.



TITLE :

TYPICAL FENCE  
EARTHING / BONDING DETAILS

DRAWING NO:  
BPC-03-26 001-CM

SCALE	SIZE	REV	SHEET NO
N.T.S	A4	D	1 OF 1