RFQ-2025-0605
Construction of Sheds for RMUs & Transformer at Fire Brigade11kV Primary 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. The contractor has to note that the works are to be carried out in high security areas. Contractor must comply with all site security rules and requirement of relevant government authorities.The contractor shall allow for any costs associated with limited or restricted working hours imposed by the Client/authorities.
5. 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*
A.	**Construction of Shed for RMU and Transformer at Fire Brigade Local TX Substation .**				
1.	Design, supply, fabrication, and installation of a steel shed structure (approx. 3 m wide × 4 m long) with internal height clearance of 2.5 m, 15° pitched roof, and open front, complete with all associated materials, fittings, and accessories. The shed shall provide security, natural ventilation, and unobstructed access to the RMU while ensuring adequate protection against direct sun and rain. The works shall include, but not be limited to: • Fabrication and installation of hot-dip galvanized or epoxy-coated structural steel frame members (columns, rafters, beams, bracings, etc.) fabricated in accordance with QP-approved drawings. • Roof cladding using corrosion-resistant pre-painted steel sheets or equivalent with suitable fastening system. • Provision of open front with a galvanized welded steel mesh fence, and a 1m-wide hinged access gate for inspection and maintenance. • Supply and installation of anchor bolts, base plates, and concrete footings as required for structural stability. • Application of approved anti-corrosion paint system and surface finishing. • All required lifting, alignment, grouting, welding, and bolting works. • Submission of construction drawings, as-built drawings and structural adequacy certification by a qualified professional engineer.	lot	1		
2.	*Substation Sign Board*. Supply and install aluminium sign board - 765mm wide x 601mm height x 3mm thick for 11kV Secondary Substation. Refer to Dwg. BPC-00-10 072-CM	lot	1		
3.	*Earthing / Bonding*. This item includes laying and bonding of 1c/70mm^2 bare copper wire to metal cladding, posts and gate and connection to the substation's earthing system.	lot	1		
4.	Construction of RMU Plinth. Construct plinth for 2R1T ring main unit as per Dwg. BPC-00-10 137-CM	lot	1		
			Sub-Total of Item A		

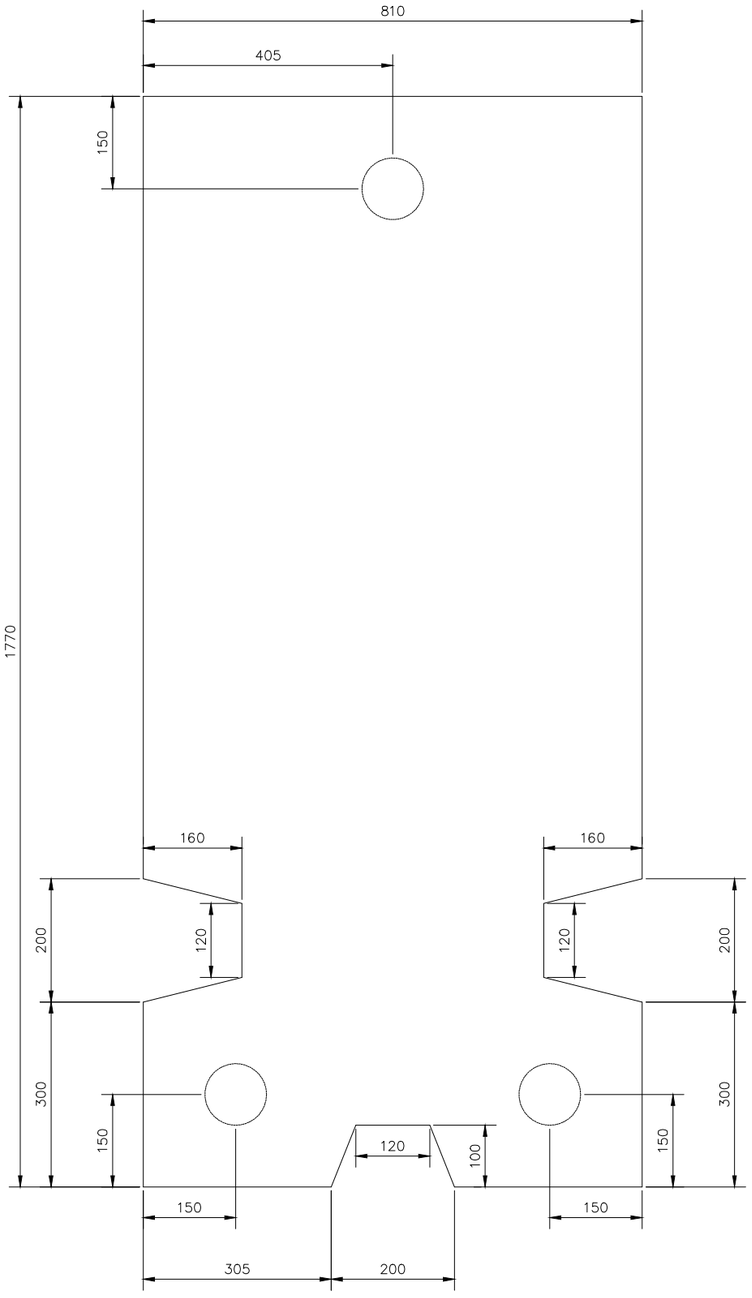
Item	*Description*	*Unit*	*Qty.*	*Unit Rate BND*	*Amount BND*
B.	**Construction of Shed for RMU and Transformer at Balai Bomba Tumasek Substation**				
1.	Design, supply, fabrication, and installation of a steel shed structure (approx. 4 m wide × 5 m long) with internal height clearance of 2.5 m, 15° pitched roof, and open front, complete with all associated materials, fittings, and accessories. The shed shall provide security, natural ventilation, and unobstructed access to the RMU and transformer while ensuring adequate protection against direct sun and rain. The works shall include, but not be limited to: • Fabrication and installation of hot-dip galvanized or epoxy-coated structural steel frame members (columns, rafters, beams, bracings, etc.) fabricated in accordance with QP-approved drawings. • Roof cladding using corrosion-resistant pre-painted steel sheets or equivalent with suitable fastening system. • Provision of open front with a galvanized welded steel mesh fence, and a 1m-wide hinged access gate for inspection and maintenance. • Supply and installation of anchor bolts, base plates, and concrete footings as required for structural stability. • Application of approved anti-corrosion paint system and surface finishing. • All required lifting, alignment, grouting, welding, and bolting works. • Submission of construction drawings, as-built drawings and structural adequacy certification by a qualified professional engineer.				
2.	*Substation Sign Board*: aluminium 765mm wide x 601mm height x 3mm thick for 11kV Secondary Substation. Refer to Dwg. BPC-00-10 072-CM	lot	1		
3.	Earthing / Bonding. This item includes laying and bonding of 1c/70mm^2 bare copper wire to metal cladding, posts and gate and connection to the substation's earthing system.	lot	1		
4.	Construction of RMU Plinth. Construct plinth for 2R1T ring main unit as per Dwg. BPC-00-10 137-CM	lot	1		
			Sub-Total of Item B		
			TOTAL		

_____ Date: _____
(Signature and Company Stamp)

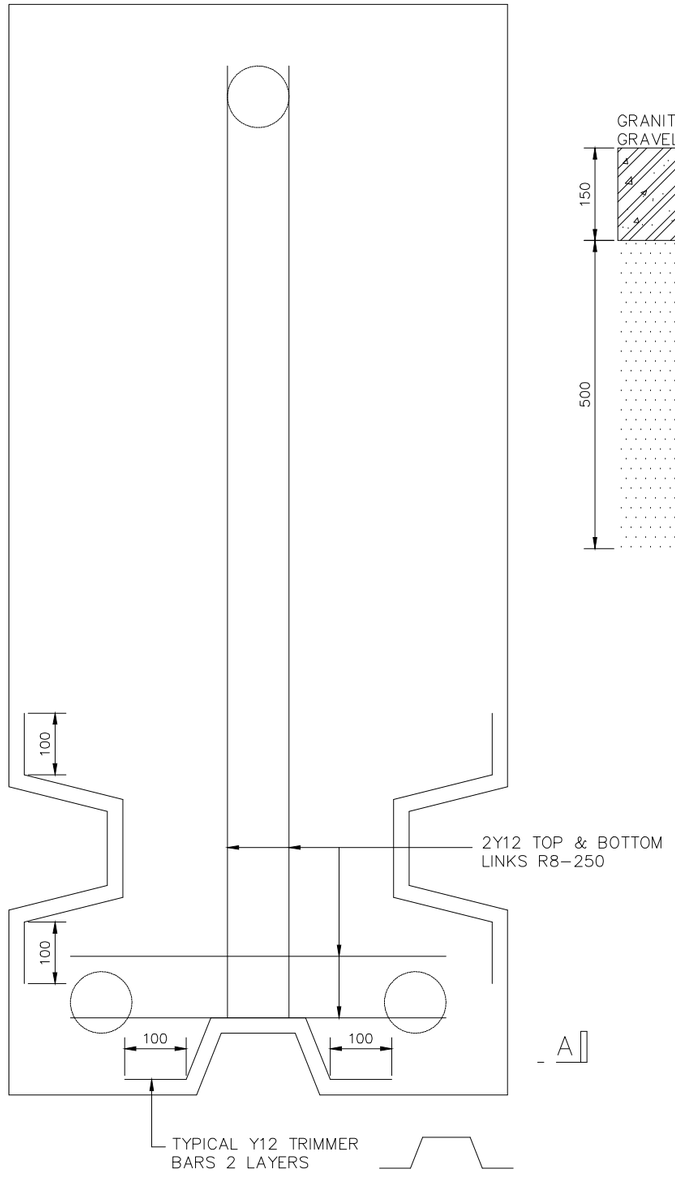
Name : .....
Position : .....
Company Name : .....
Address : .....
Telephone No. : .....
E-mail address : .....

LOCATION PLAN

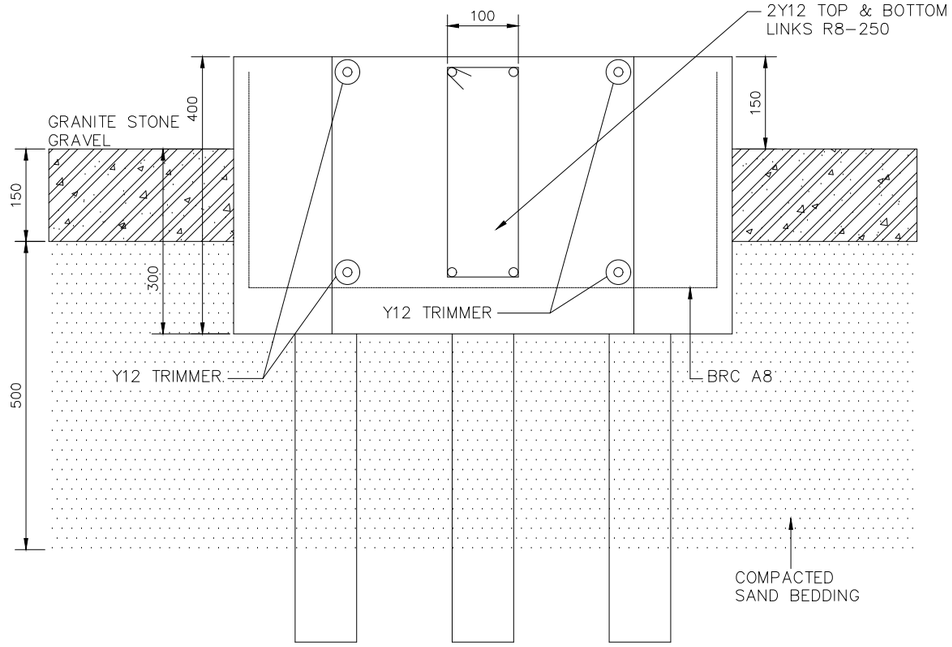
CONSTRUCTION OF ACCESS ROAD & SHEDS
AT FIRE BRIGADE 11KV PRIMARY SUBSTATION



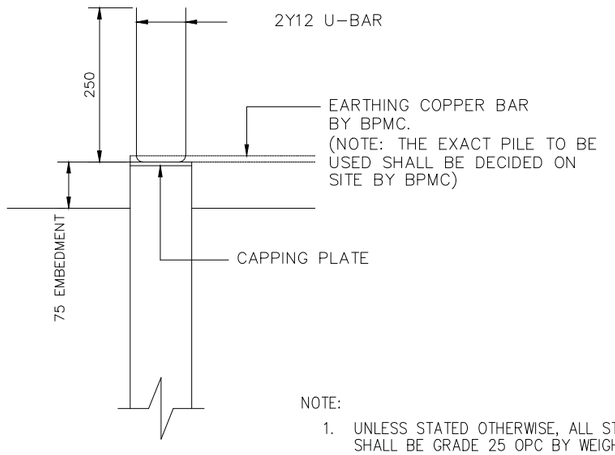
SWITCH GEAR PLINTH PILING



SWITCH GEAR PLINTH REINFORCEMENT



SECT A–A



PILE HEAD

NOTE:

1. UNLESS STATED OTHERWISE, ALL STRUCTURAL CONCRETE SHALL BE GRADE 25 OPC BY WEIGHT BATCHING.
2. ALL PILES TO BE 125mmø X 5.6mm THK MILD STEEL PIPES.

GENERAL NOTES

REV	DESCRIPTION	DATE	DRAWN	CHECKED	APPR'D
E	REVISED LOGO AND DRAWING TITLE NO.	15/02/2021	CHRIS	Z.P.	C.Y.
D	PREVIOUSLY WAS BPS–00–10 137	27/04/2017	DTZ	BPMC	BPMC
C	MODIFIED SECTION A–A	29/05/2006	CHRIS	L.W.S	J.B.
B	REVISED SECTION A–A	05/04/2006	CHRIS	L.W.S	J.B.
A	REVISED DRAWING NUMBER	17/02/2003	CHRIS	L.W.S	J.B.
0	NEW ISSUE DRAWING	10/02/2003	CHRIS	L.W.S	J.B.

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BERAKAS POWER COMPANY SDN BHD
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DRAWING NO.: BPC–00–10 137–CM

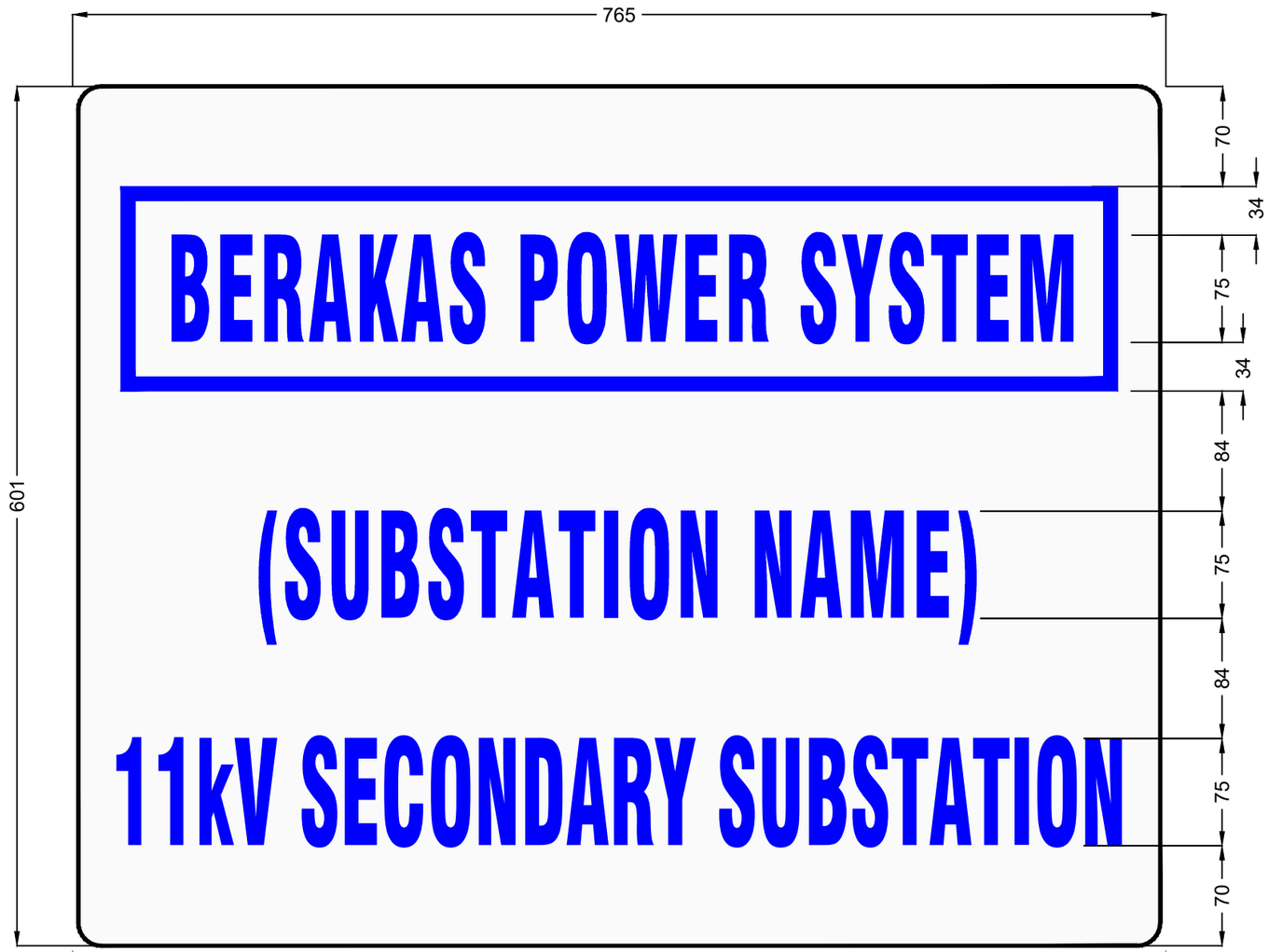
DATE: 10/02/2003

DRAWING TITLE:
FOUNDATION DETAILS FOR
SCHNEIDER RINGMASTER 2R–T RING MAIN UNIT

REV: D

SCALE 1:10

SHEET NO: 1/1



NOTES:

1. LINE THICKNESS SHALL BE 10mm
2. INSCRIPTION SHALL BE BLUE IN WHITE BACKGROUND
3. SIGNBOARD SHALL FABRICATED FROM ALUMINIUM PLATE 3MM THICK

All dimension are in millimeters unless otherwise specified

REV	DESCRIPTION	DATE	DWN	CHK	APPR
A	UPDATE TITLE BLOCK	13/09/19	CHRIS	Z.P.	C.Y.
0	FIRST ISSUE	15/05/17	CHRIS	Z.P.	W.V.

GENERAL NOTES

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DRAWING No. BPC–00–10 072–CM

TITLE:
SUBSTATION SIGN BOARD
11kV SECONDARY SUBSTATION

SIZE: A3
SCALE: 1:25
REV: B