

Section VIII. Bill of Quantities

Notes on the Bill of Quantities

Objectives

The objectives of the Bill of Quantities are:

- a. to provide sufficient information on the quantities of Works to be performed to enable Bids to be prepared efficiently and accurately; and
- b. when a Contract has been entered into, to provide a priced Bill of Quantities for use in the periodic valuation of Works executed.

In order to attain these objectives, Works should be itemized in the Bill of Quantities in sufficient detail to distinguish between the different classes of Works, or between Works of the same nature carried out in different locations or in other circumstances which may give rise to different considerations of cost. Consistent with these requirements, the layout and content of the Bill of Quantities should be as simple and brief as possible.

Daywork Schedule

A Daywork Schedule should be included only if the probability of unforeseen work, outside the items included in the Bill of Quantities, is high. To facilitate checking by the Entity of the realism of rates quoted by the Bidders, the Daywork Schedule should normally comprise the following:

- a. A list of the various classes of labor, materials, and Constructional Plant for which basic daywork rates or prices are to be inserted by the Bidder, together with a statement of the conditions under which the Contractor will be paid for work executed on a daywork basis.
- b. Nominal quantities for each item of Daywork, to be priced by each Bidder at Daywork rates as Bid. The rate to be entered by the Bidder against each basic Daywork item should include the Contractor's profit, overheads, supervision, and other charges.

Provisional Sums

A general provision for physical contingencies (quantity overruns) may be made by including a provisional sum in the Summary Bill of Quantities. Similarly, a contingency allowance for possible price increases should be provided as a provisional sum in the Summary Bill of Quantities. The inclusion of such provisional sums often facilitates budgetary approval by avoiding the need to request periodic supplementary approvals as the future need arises. Where such provisional sums or contingency allowances are used, the SCC should state the manner in which they will be used, and under whose authority (usually the Procuring Entity's Representative's).

The estimated cost of specialized work to be carried out, or of special goods to be supplied, by other contractors should be indicated in the relevant part of the Bill of Quantities as a particular provisional sum with an appropriate brief description. A separate procurement procedure is normally carried out by the Procuring Entity to select such specialized contractors. To provide an element of competition among the Bidders in respect of any facilities, amenities, attendance, etc., to be provided by the successful Bidder as prime Contractor for the use and convenience of the specialist contractors, each related provisional sum should be followed by an item in the Bill of Quantities inviting the Bidder to quote a sum for such amenities, facilities, attendance, etc.

Signature Box

A signature box shall be added at the bottom of each page of the Bill of Quantities where the authorized representative of the Bidder shall affix his signature. Failure of the authorized representative to sign each and every page of the Bill of Quantities shall be a cause for rejection of his bid.

These Notes for Preparing a Bill of Quantities are intended only as information for the Procuring Entity or the person drafting the Bidding Documents. They should not be included in the final documents.



COMPANY
LOGO

COMPANYNAMEAND ADDRESS

**PROCUREMENT OF DESIGN AND BUILD SERVICES FOR THE A&E DESIGN OF FIT-OUT
 AND LANDSCAPE WORKS AND CONSTRUCTION OF ESSENTIAL MEFPs
 AND OTHER SUPPORTING CIVIL WORKS.**

PROJECT: 23 STOREY COVERED WITH ROOFDECK PSA BUILDING
 LOCATION: EAST AVENUE DILIMAN QUEZON CITY

BILL OF QUANTITIES SUMMARY (STAGE II)

Item	Description	Total Amount
I	GENERAL REQUIREMENTS	
II	ELECTRICAL WORKS	
III	MECHANICAL WORKS	
	II.1. Air-Conditioning and Ventillation System	
	II.2. Fire Protection System	
	II.3. Fuel Oil System	
IV	ELECTRONICS/ AUXILIARY WORKS	
V	PLUMBING WORKS	
VI	CIVIL WORKS	
	TOTAL AMOUNT	

Submitted by:

 Name
 Position
 Company Name
 Address & Contact Number



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**PROCUREMENT OF DESIGN AND BUILD SERVICES FOR THE A&E DESIGN OF FIT-OUT AND LANDSCAPE WORKS
 AND CONSTRUCTION OF ESSENTIAL MEFPs AND OTHER SUPPORTING CIVIL WORKS. (STAGE II)**

Location: PSA Complex, East Avenue, Quezon City

BILL OF QUANTITIES (BOQ)

I. GENERAL REQUIREMENTS

ITEM NO.	DESCRIPTION	QUANTITY	UNIT	DIRECT COST	MARK-UPS IN PERCENT		TOTAL MARK-UP		VAT	TOTAL INDIRECT COST	UNIT COST	TOTAL COST
					OCM	PROFIT	%	VALUE				
1	2	3	4		6	7	8	9	10	11	12	13
								5x8	(%)(5+9)	9+10	5+11	12x3
1	GENERAL REQUIREMENTS											
L1	GENERAL REQUIREMENTS/PRELIMINARIES											
	L1 Mobilization	1.00	lot									
	L2 Permits and Licenses	1.00	lot									
	L3 Temporary Facilities	11.00	months									
	L3.1 Temporary Offices											
	L3.2 Barracks for Staff											
	L3.3 Barracks for Workers											
	L4 Temporary Utilities (Water, Electricity, Internet and Communication)	11.00	months									
	L5 Site Supervision / Site Management and Office Expenses	11.00	months									
	L6 Safety and Security	11.00	months									
	L7 Bonds and Insurances											
	L7.1 Premium on Bid Security	4.00	months									
	L7.2 Premium on Performance Security	24.00	months									
	L7.3 Premium on Warranty Security	15.00	months									
	L7.4 Premium on Surety for Advance Payment	11.00	months									
	L7.5 Premium on Contractors All Risk Insurance	11.00	months									
	L7.6 Premium on Contractor Employees Accident Insurance and CGL	11.00	months									
	L8 As-Built Drawings and Shop Drawings	11.00	lot									
	L9 Quality Control / Testing and Commissioning	1.00	lot									
	L10 Site Clearing and Demobilization	11.00	months									
	L11 Lifting Machine (Equipments)	11.00	months									
	L12 Additional Construction Safety & Health (Covid Response)	1.00	lot									
TOTAL												

Submitted by:

Name
Position
Company Name

II. ELECTRICAL WORKS

ITEM NO.	DESCRIPTION	QUANTITY	UNIT	DIRECT COST	MARK-UPS IN PERCENT		TOTAL MARK-UP		VAT	TOTAL INDIRECT COST	UNIT COST	TOTAL COST	REMARKS/ LOCATION SPECIFICATIONS
					OGM	PROFIT	%	VALUE					
1	2	3	4	5	6	7	8	9 5/8	10 9/(5+9)	11 9+10	12 9+11	13 12+3	
I.	ELECTRICAL WORKS (see attached plans)												
II.1	SERVICE ENTRANCE												
	II.1.1 Wires and Cables including connectors, tapes, etc.												
	I.1.1.1 XLPE CABLE (34.5 KV) - copper, -XLPE insulation, Extruded Semi-Conductive Conductor, -90 degree C up to 250 degree C short circuit condition	262.00	lms										Location: Ground AS PER DESIGNERS RECOMMENDATION
	I.1.1.2 Cable Terminating Kit	7.00	set										
II.2	MAIN AND SUB-MAN DISTRIBUTION												
	II.2.1 Pipes												
	I.2.1.1 15mm ø IMC Pipe	2853.00	lot										Location: Where needed AS PER DESIGNERS RECOMMENDATION
	I.2.1.2 25mm ø IMC Pipe	1,423.00	lot										
	I.2.1.3 32mm ø IMC Pipe	579.00	lot										
	I.2.1.4 40mm ø IMC Pipe	338.00	lot										
	I.2.1.5 50mm ø IMC Pipe	152.00	lot										
	I.2.1.6 80mm ø IMC Pipe	448.00	lot										
	I.2.1.7 90mm ø IMC Pipe	243.00	lot										
	I.2.1.8 100mm ø IMC Pipe	1,565.00	lot										
	I.2.1.9 20mm ø PVC Pipe	350.00	lot										
	II.2.2 Wires and Cables (including Fittings, Supports and Hangers and Consumable s) stranded copper wire												
	I.2.2.1 35mm sq. THHN	43088.00	lms										Location: Where needed AS PER DESIGNERS RECOMMENDATION
	I.2.2.2 55mm sq. THHN	11,259.00	lms										
	I.2.2.3 80mm sq. THHN	23,618.00	lms										
	I.2.2.4 14mm sq. THHN	5,928.00	lms										
	I.2.2.5 22mm sq. THHN	3,846.00	lms										
	I.2.2.6 30mm sq. THHN	4,626.00	lms										
	I.2.2.7 38mm sq. THHN	5,535.00	lms										
	I.2.2.8 50mm sq. THHN	197.80	lms										
	I.2.2.9 60mm sq. THHN	2,252.00	lms										
	I.2.2.10 100mm sq. THHN	932.00	lms										

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					CON	PROFIT	%	VALUE					
1	2	3	4	5	6	7	8	9	10	11	12	13	
								5%	5%				
	I.2.2.11 125mm sq THHN	1,178.00	mvs										Location: Where needed AS PER DESIGNERS RECOMMENDATION
	I.2.2.12 150mm sq THHN	105.00	mvs										
	I.2.2.13 175mm sq THHN	85.00	mvs										
	I.2.2.14 200mm sq THHN	4,106.00	mvs										
	I.2.2.15 250mm sq THHN	10,441.00	mvs										
	I.2.2.16 250mm sq Fire Rated Cable	1,437.00	mvs										Location: Where needed AS PER DESIGNERS RECOMMENDATION
	I.2.2.17 80mm sq THHN	88.00	mvs										
	II.2.3 GROUNDING												Location: Where needed AS PER DESIGNERS RECOMMENDATION
	I.2.3.1 3.5mm sq TW	15,080.80	mvs										
	I.2.3.2 5.5mm sq TW	3,908.00	mvs										
	I.2.3.3 8.0mm sq TW	833.70	mvs										
	I.2.3.4 14mm sq TW	531.30	mvs										
	I.1.2.3.5 22mm sq TW	1,804.95	mvs										
	I.2.3.6 30mm sq TW	1,801.80	mvs										
	I.2.3.7 50mm sq TW	52.50	mvs										
II.3	LIGHTING FIXTURES												AS PER DESIGNERS RECOMMENDATION
	II.3.1 Including necessary supports, boxes and dropped flexible metal conduits (FOR COMMON TOILET & FROM 7TH-24TH Flr)												
	I.3.1.1 Cove Light	78.00	pcs										
II.4	PANEL BOARDS, HVLV SWITCH GEAR (MAIN & SUB-MAIN)												Location: Ground Floor AS PER DESIGNERS RECOMMENDATION
	II.4.1 Panel Boards (According to plans and specifications, complete with accessories and others to make the equipment functional)												
	I.4.1.1 LB \$ WPOWER FUSE (Private Pole Included)	1.00	lot										
	I.4.1.2 T1 (1500KVA, 34.5KV/400V, 3Ø,60HZ) Compartmental type	1.00	assy										
	I.4.1.3 T2 (1500KVA, 34.5KV/400V, 3Ø,60HZ) Compartmental type	1.00	assy										
	I.4.1.4 T3 (1000KVA, 34.5KV/400V, 3Ø,60HZ) Compartmental type	1.00	assy										
	I.4.1.5 PP10 with ground and neutral bus terminal MAIN: 1-MCCB, 60A, 3P, 14KA @ 415V BR'S: 30-MCB, 60A, 1P, 10KA @ 230V NEMA-1, SURFACE MOUNTED, GI SHEET G#16, POWDER COATED FINISH WITH NEUTRAL, GROUNDING & TERMINAL LUGS DIMENSION: 700mm X 400mm X 130mm	1.00	assy										AS PER DESIGNERS RECOMMENDATION

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II. ELECTRICAL WORKS

ITEM NO.	DESCRIPTION	QUANTITY	UNIT	DIRECT COST	MARKUPS IN PERCENT		TOTAL MARK-UP		VAT	TOTAL INDIRECT COST	UNIT COST	TOTAL COST	REMARKS/ LOCATION SPECIFICATIONS
					OOM	PROFIT	%	VALUE					
1	2	3	4	5	6	7	8	9	10	11	12	13	
								5%	9% ⁽⁵⁺⁹⁾	9+10	5+11	13 12x3	
	I.4.1.6 LP10 with ground and neutral bus terminal MAIN: 1-MCCB, ABN63c, 60A, 3P, 14KA @ 415V BRS: 25-MCB, BKN-b, 20A, 1P, 10KA @ 230V 1-SPACE, 60AF, 1P NEMA-1, SURFACE MOUNTED, GI SHEET G#16, POWDER COATED FINISH WITH NEUTRAL, GROUNDING & TERMINAL LUGS DIMENSION: 700mmX 400mmX 130mm	1.00	pcy										AS PER DESIGNERS RECOMMENDATION
	I.4.1.7 DP10 with ground and neutral bus terminal MAIN: 1-MCCB, ABS100c, 100A, 3P, 37KA @ 415V BRS: 1-MCCB, ABS100c, 60A, 3P, 37KA @ 415V 1-MCCB, ABS100c, 50A, 3P, 37KA @ 415V 2-SPACE, 100AF, 3P NEMA-1, SURFACE MOUNTED, GI SHEET G#16, POWDER COATED FINISH WITH NEUTRAL, GROUNDING & TERMINAL LUGS DIMENSION: 700mmX 550mmX 150mm	1.00	pcy										AS PER DESIGNERS RECOMMENDATION
	I.4.1.8 PP10C with ground and neutral bus terminal MAIN: 1-MCCB, ABN100c, 75A, 3P, 18KA @ 415V BRS: 42-MCB, BKN-b, 20A, 1P, 10KA @ 230V NEMA-1, SURFACE MOUNTED, GI SHEET G#16, POWDER COATED FINISH WITH NEUTRAL, GROUNDING & TERMINAL LUGS DIMENSION: 800mmX 400mmX 130mm	1.00	pcy										AS PER DESIGNERS RECOMMENDATION
	I.4.1.9 PP11 with ground and neutral bus terminal MAIN: 1-MCCB, ABN63c, 40A, 3P, 14KA @ 415V BRS: 20-MCB, BKN-b, 20A, 1P, 10KA @ 230V 2-SPACE, 60AF, 1P NEMA-1, SURFACE MOUNTED, GI SHEET G#16, POWDER COATED FINISH WITH NEUTRAL, GROUNDING & TERMINAL LUGS DIMENSION: 700mmX 400mmX 130mm	1.00	pcy										AS PER DESIGNERS RECOMMENDATION
	I.4.1.10 LP11 with ground and neutral bus terminal MAIN: 1-MCCB, ABN100c, 100A, 3P, 18KA @ 415V BRS: 24-MCB, BKN-b, 20A, 1P, 10KA @ 230V NEMA-1, SURFACE MOUNTED, GI SHEET G#16, POWDER COATED FINISH WITH NEUTRAL, GROUNDING & TERMINAL LUGS DIMENSION: 650mmX 400mmX 130mm	1.00	pcy										AS PER DESIGNERS RECOMMENDATION
	I.4.1.11 DP11 with ground and neutral bus terminal MAIN: 1-MCCB, ABS200c, 175A, 3P, 37KA @ 415V BRS: 1-MCCB, ABS100c, 100A, 3P, 37KA @ 415V 1-MCCB, ABS100c, 75A, 3P, 37KA @ 415V 1-MCCB, ABS100c, 40A, 3P, 37KA @ 415V 1-SPACE, 100AF, 3P NEMA-1, SURFACE MOUNTED, GI SHEET G#16, POWDER COATED FINISH WITH NEUTRAL, GROUNDING & TERMINAL LUGS DIMENSION: 750mmX 600mmX 150mm	1.00	pcy										AS PER DESIGNERS RECOMMENDATION

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ITEM NO.	DESCRIPTION	QUANTITY	UNIT	DIRECT COST	MARKUPS IN PERCENT		TOTAL MARKUP		VAT	TOTAL INDIRECT COST	UNIT COST	TOTAL COST	REMARKS/ LOCATION SPECIFICATIONS
					CON	PROFIT	%	VALUE					
1	2	3	4	5	6	7	8	9	10	11	12	13	
								5%	5% (5*5)	5-10	5-11	12x3	
	I.4.1.12 PP12C with ground and neutral bus terminal MAIN: 1-MCCB, ABN100c, 75A, 3P, 18KA @ 415V BRS: 40-MCB, BKN-b, 20A, 1P, 10KA @ 230V NEMA-1, SURFACE MOUNTED, GI SHEET G#16, POWDER COATED FINISH WITH NEUTRAL, GROUNDING & TERMINAL LUGS DIMENSION: 800mmX 400mmX 130mm	1.00	assy										AS PER DESIGNER RECOMMENDATION
	I.4.1.13 PP12 with ground and neutral bus terminal MAIN: 1-MCCB, ABN50c, 40A, 3P, 14KA @ 415V BRS: 20-MCB, BKN-b, 20A, 1P, 10KA @ 230V 2-SPACE, 60AF, 1P NEMA-1, SURFACE MOUNTED, GI SHEET G#16, POWDER COATED FINISH WITH NEUTRAL, GROUNDING & TERMINAL LUGS DIMENSION: 650mmX 400mmX 130mm	1.00	assy										AS PER DESIGNER RECOMMENDATION
	I.4.1.14 LP12 with ground and neutral bus terminal MAIN: 1-MCCB, ABN100c, 100A, 3P, 18KA @ 415V BRS: 25-MCB, BKN-b, 20A, 1P, 10KA @ 230V 2-SPACE, 60AF, 1P NEMA-1, SURFACE MOUNTED, GI SHEET G#16, POWDER COATED FINISH WITH NEUTRAL, GROUNDING & TERMINAL LUGS DIMENSION: 650mmX 400mmX 130mm	1.00	assy										AS PER DESIGNER RECOMMENDATION
	I.4.1.15 DP12 with ground and neutral bus terminal MAIN: 1-MCCB, ABS200c, 200A, 3P, 37KA @ 415V BRS: 1-MCCB, ABS100c, 100A, 3P, 37KA @ 415V 1-MCCB, ABS100c, 75A, 3P, 37KA @ 415V 1-MCCB, ABS100c, 40A, 3P, 37KA @ 415V 1-SPACE, 100AF, 3P NEMA-1, SURFACE MOUNTED, GI SHEET G#16, POWDER COATED FINISH WITH NEUTRAL, GROUNDING & TERMINAL LUGS DIMENSION: 750mmX 600mmX 150mm	1.00	assy										AS PER DESIGNER RECOMMENDATION
	I.4.1.16 PP14C with ground and neutral bus terminal MAIN: 1-MCCB, ABN100c, 75A, 3P, 18KA @ 415V BRS: 40-MCB, BKN-b, 20A, 1P, 10KA @ 230V NEMA-1, SURFACE MOUNTED, GI SHEET G#16, POWDER COATED FINISH WITH NEUTRAL, GROUNDING & TERMINAL LUGS DIMENSION: 800mmX 400mmX 130mm	1.00	assy										AS PER DESIGNER RECOMMENDATION
	I.4.1.17 PP14 with ground and neutral bus terminal MAIN: 1-MCCB, ABN50c, 40A, 3P, 14KA @ 415V BRS: 20-MCB, BKN-b, 20A, 1P, 10KA @ 230V 2-SPACE, 60AF, 1P NEMA-1, SURFACE MOUNTED, GI SHEET G#16, POWDER COATED FINISH WITH NEUTRAL, GROUNDING & TERMINAL LUGS DIMENSION: 650mmX 400mmX 130mm	1.00	assy										AS PER DESIGNER RECOMMENDATION

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II. ELECTRICAL WORKS

ITEM NO.	DESCRIPTION	QUANTITY	UNIT	DIRECT COST	MARKUPS IN PERCENT		TOTAL MARKUP		VAT	TOTAL INDIRECT COST	UNIT COST	TOTAL COST	REMARKS/ LOCATION SPECIFICATIONS
					OCM	PROFIT	%	VALUE					
1	2	3	4	5	6	7	8	9	10	11	12	13	
								9	5/(5+9)	9+10	9+11	12+13	
	I4.1.18 LP14 with ground and neutral bus terminal MAIN: 1-MCCB, ABN103c, 100A, 3P, 18KA @ 415V BRS: 36-MCB, BKN-b, 20A, 1P, 10KA @ 230V 2-SPACE, 60AF, 1P NEMA-1, SURFACE MOUNTED, GI SHEET G#16, POWDER COATED FINISH WITH NEUTRAL, GROUNDING & TERMINAL LUGS DIMENSION: 650mmX 400mmX 130mm	1.00	pcy										AS PER DESIGNERS RECOMMENDATION
	I4.1.19 DP14 with ground and neutral bus terminal MAIN: 1-MCCB, ABS203c, 200A, 3P, 37KA @ 415V BRS: 1-MCCB, AB \$103c, 100A, 3P, 37KA @ 415V/ 1-MCCB, AB \$103c, 75A, 3P, 37KA @ 415V 1-MCCB, AB \$103c, 40A, 3P, 37KA @ 415V 1-SPACE, 100AF, 3P NEMA-1, SURFACE MOUNTED, GI SHEET G#16, POWDER COATED FINISH WITH NEUTRAL, GROUNDING & TERMINAL LUGS DIMENSION: 750mmX 600mmX 150mm	1.00	pcy										AS PER DESIGNERS RECOMMENDATION
	I4.1.20 PP15C with ground and neutral bus terminal MAIN: 1-MCCB, ABN103c, 75A, 3P, 18KA @ 415V BRS: 36-MCB, BKN-b, 20A, 1P, 10KA @ 230V NEMA-1, SURFACE MOUNTED, GI SHEET G#16, POWDER COATED FINISH WITH NEUTRAL, GROUNDING & TERMINAL LUGS DIMENSION: 750mmX 400mmX 130mm	1.00	pcy										AS PER DESIGNERS RECOMMENDATION
	I4.1.21 PP15 with ground and neutral bus terminal MAIN: 1-MCCB, ABN103c, 75A, 3P, 18KA @ 415V BRS: 36-MCB, BKN-b, 20A, 1P, 10KA @ 230V NEMA-1, SURFACE MOUNTED, GI SHEET G#16, POWDER COATED FINISH WITH NEUTRAL, GROUNDING & TERMINAL LUGS DIMENSION: 650mmX 400mmX 130mm	1.00	pcy										AS PER DESIGNERS RECOMMENDATION
	I4.1.22 LP15 with ground and neutral bus terminal MAIN: 1-MCCB, ABN53c, 50A, 3P, 14KA @ 415V BRS: 23-MCB, BKN-b, 20A, 1P, 10KA @ 230V 1-SPACE, 60AF, 1P NEMA-1, SURFACE MOUNTED, GI SHEET G#16, POWDER COATED FINISH WITH NEUTRAL, GROUNDING & TERMINAL LUGS DIMENSION: 650mmX 400mmX 130mm	1.00	pcy										AS PER DESIGNERS RECOMMENDATION
	I4.1.23 DP15 with ground and neutral bus terminal MAIN: 1-MCCB, ABS203c, 175A, 3P, 37KA @ 415V BRS: 1-MCCB, AB \$103c, 100A, 3P, 37KA @ 415V/ 1-MCCB, AB \$103c, 75A, 3P, 37KA @ 415V 1-MCCB, AB \$103c, 50A, 3P, 37KA @ 415V 1-SPACE, 100AF, 3P NEMA-1, SURFACE MOUNTED, GI SHEET G#16, POWDER COATED FINISH WITH NEUTRAL, GROUNDING & TERMINAL LUGS DIMENSION: 750mmX 600mmX 150mm	1.00	pcy										AS PER DESIGNERS RECOMMENDATION

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					OOM	PROFIT	%	VALUE					
1	2	3	4	5	6	7	8	9 5X8	10 5%(5-9)	11 9+10	12 5+11	13 12+3	
	I.4.1.24 PP16C with ground and neutral bus terminal MAIN: 1-MCCB, ABN63c, 60A, 3P, 18KA @ 415V BRS: 30-MCB, BKN-b, 20A, 1P, 10KA @ 230V NEMA-1, SURFACE MOUNTED, GI SHEET G#16, POWDER COATED FINISH WITH NEUTRAL, GROUNDING & TERMINAL LUGS DIMENSION: 700mmX 400mmX 130mm	1.00	pc/gy										AS PER DESIGNERS RECOMMENDATION
	I.4.1.25 PP16 with ground and neutral bus terminal MAIN: 1-MCCB, ABN63c, 50A, 3P, 14KA @ 415V BRS: 29-MCB, BKN-b, 20A, 1P, 10KA @ 230V 1-SPACE, 60AF, 1P NEMA-1, SURFACE MOUNTED, GI SHEET G#16, POWDER COATED FINISH WITH NEUTRAL, GROUNDING & TERMINAL LUGS DIMENSION: 700mmX 400mmX 130mm	1.00	pc/gy										AS PER DESIGNERS RECOMMENDATION
	I.4.1.26 LP16 with ground and neutral bus terminal MAIN: 1-MCCB, ABN63c, 60A, 3P, 14KA @ 415V BRS: 24-MCB, BKN-b, 20A, 1P, 10KA @ 230V NEMA-1, SURFACE MOUNTED, GI SHEET G#16, POWDER COATED FINISH WITH NEUTRAL, GROUNDING & TERMINAL LUGS DIMENSION: 650mmX 400mmX 130mm	1.00	pc/gy										AS PER DESIGNERS RECOMMENDATION
	I.4.1.27 DP16 with ground and neutral bus terminal MAIN: 1-MCCB, ABS203c, 175A, 3P, 37KA @ 415V BRS: 1-MCCB, ABS103c, 60A, 3P, 37KA @ 415V 1-MCCB, ABS103c, 50A, 3P, 37KA @ 415V 1-SPACE, 100AF, 3P NEMA-1, SURFACE MOUNTED, GI SHEET G#16, POWDER COATED FINISH WITH NEUTRAL, GROUNDING & TERMINAL LUGS DIMENSION: 750mmX 600mmX 150mm	1.00	pc/gy										AS PER DESIGNERS RECOMMENDATION
	I.4.1.28 PP17C with ground and neutral bus terminal MAIN: 1-MCCB, ABN53c, 40A, 3P, 14KA @ 415V BRS: 18-MCB, BKN-b, 20A, 1P, 10KA @ 230V NEMA-1, SURFACE MOUNTED, GI SHEET G#16, POWDER COATED FINISH WITH NEUTRAL, GROUNDING & TERMINAL LUGS DIMENSION: 600mmX 400mmX 130mm	1.00	pc/gy										AS PER DESIGNERS RECOMMENDATION
	I.4.1.29 PP17 with ground and neutral bus terminal MAIN: 1-MCCB, ABN103c, 75A, 3P, 18KA @ 415V BRS: 40-MCB, BKN-b, 20A, 1P, 10KA @ 230V NEMA-1, SURFACE MOUNTED, GI SHEET G#16, POWDER COATED FINISH WITH NEUTRAL, GROUNDING & TERMINAL LUGS DIMENSION: 800mmX 400mmX 130mm	1.00	pc/gy										AS PER DESIGNERS RECOMMENDATION

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					OOM	PROFIT	%	VALUE					
1	2	3	4	5	6	7	8	9 5/8	10 5/(5+8)	11 9+10	12 5+11	13 12+3	
	I.4.1.30 LP17 with ground and neutral bus terminal MAIN: 1-MCCB, ABN63c, 60A, 3P, 14KA @ 415V BRS: 25-MCB, BKN-d, 20A, 1P, 10KA @ 230V NEMA-1, SURFACE MOUNTED, GI SHEET G#16, POWDER COATED FINISH WITH NEUTRAL GROUNDING & TERMINAL LUGS DIMENSION: 650mmX 400mmX 130mm	1.00	pc/ty										AS PER DESIGNERS RECOMMENDATION
	I.4.1.31 DP17 with ground and neutral bus terminal MAIN: 1-MCCB, AB 3203c, 175A, 3P, 37KA @ 415V BRS: 1-MCCB, ABS100c, 75A, 3P, 37KA @ 415V 1-MCCB, ABS100c, 60A, 3P, 37KA @ 415V 1-MCCB, ABS100c, 40A, 3P, 37KA @ 415V 1-SPACE, 100AF, 3P NEMA-1, SURFACE MOUNTED, GI SHEET G#16, POWDER COATED FINISH WITH NEUTRAL GROUNDING & TERMINAL LUGS DIMENSION: 750mmX 600mmX 150mm	1.00	pc/ty										AS PER DESIGNERS RECOMMENDATION
	I.4.1.32 PP18 with ground and neutral bus terminal MAIN: 1-MCCB, ABN63c, 60A, 3P, 14KA @ 415V BRS: 25-MCB, BKN-d, 20A, 1P, 10KA @ 230V 1-SPACE, 60AF, 1P NEMA-1, SURFACE MOUNTED, GI SHEET G#16, POWDER COATED FINISH WITH NEUTRAL GROUNDING & TERMINAL LUGS DIMENSION: 700mmX 400mmX 130mm	1.00	pc/ty										AS PER DESIGNERS RECOMMENDATION
	I.4.1.33 LP18 with ground and neutral bus terminal MAIN: 1-MCCB, ABN63c, 60A, 3P, 14KA @ 415V BRS: 24-MCB, BKN-d, 20A, 1P, 10KA @ 230V NEMA-1, SURFACE MOUNTED, GI SHEET G#16, POWDER COATED FINISH WITH NEUTRAL GROUNDING & TERMINAL LUGS DIMENSION: 650mmX 400mmX 130mm	1.00	pc/ty										AS PER DESIGNERS RECOMMENDATION
	I.4.1.34 DP18 with ground and neutral bus terminal MAIN: 1-MCCB, ABS100c, 100A, 3P, 37KA @ 415V BRS: 1-MCCB, ABS100c, 60A, 3P, 37KA @ 415V 1-MCCB, ABS100c, 50A, 3P, 37KA @ 415V 2-SPACE, 100AF, 3P NEMA-1, SURFACE MOUNTED, GI SHEET G#16, POWDER COATED FINISH WITH NEUTRAL GROUNDING & TERMINAL LUGS DIMENSION: 650mmX 600mmX 150mm	1.00	pc/ty										AS PER DESIGNERS RECOMMENDATION
	I.4.1.35 PP19C with ground and neutral bus terminal MAIN: 1-MCCB, ABN63c, 60A, 3P, 14KA @ 415V BRS: 30-MCB, BKN-d, 20A, 1P, 10KA @ 230V NEMA-1, SURFACE MOUNTED, GI SHEET G#16, POWDER COATED FINISH WITH NEUTRAL GROUNDING & TERMINAL LUGS DIMENSION: 700mmX 400mmX 130mm	1.00	pc/ty										AS PER DESIGNERS RECOMMENDATION

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					ODM	PROFIT	%	VALUE					
1	2	3	4	5	6	7	8	9	10	11	12	13	
								5%	5%	9+10	5+11	12+13	
	I.4.1.36 PP19 with ground and neutral bus terminal MAIN: 1-MCCB, ABN63c, 60A, 3P, 14KA @ 415V BRS: 31-MCB, BKN-b, 20A, 1P, 10KA @ 230V 1-SPACE, 60AF, 1P NEMA-1, SURFACE MOUNTED, GI SHEET G#16, POWDER COATED FINISH WITH NEUTRAL, GROUNDING & TERMINAL LUGS DIMENSION: 750mmX 400mmX 130mm	1.00	pc										AS PER DESIGNERS RECOMMENDATION
	I.4.1.37 LP19 with ground and neutral bus terminal MAIN: 1-MCCB, ABN63c, 60A, 3P, 14KA @ 415V BRS: 25-MCB, BKN-b, 20A, 1P, 10KA @ 230V 1-SPACE, 60AF, 1P NEMA-1, SURFACE MOUNTED, GI SHEET G#16, POWDER COATED FINISH WITH NEUTRAL, GROUNDING & TERMINAL LUGS DIMENSION: 750mmX 400mmX 130mm	1.00	pc										AS PER DESIGNERS RECOMMENDATION
	I.4.1.38 DP19 with ground and neutral bus terminal MAIN: 1-MCCB, ABS203c, 175A, 3P, 37KA @ 415V BRS: 3-MCCB, ABS100c, 60A, 3P, 37KA @ 415V 1-SPACE, 100AF, 3P NEMA-1, SURFACE MOUNTED, GI SHEET G#16, POWDER COATED FINISH WITH NEUTRAL, GROUNDING & TERMINAL LUGS DIMENSION: 750mmX 600mmX 150mm	1.00	pc										AS PER DESIGNERS RECOMMENDATION
	I.4.1.39 PP20C with ground and neutral bus terminal MAIN: 1-MCCB, ABN103c, 75A, 3P, 14KA @ 415V BRS: 36-MCB, BKN-b, 20A, 1P, 10KA @ 230V NEMA-1, SURFACE MOUNTED, GI SHEET G#16, POWDER COATED FINISH WITH NEUTRAL, GROUNDING & TERMINAL LUGS DIMENSION: 750mmX 400mmX 130mm	1.00	pc										AS PER DESIGNERS RECOMMENDATION
	I.4.1.40 PP20 with ground and neutral bus terminal MAIN: 1-MCCB, ABN63c, 50A, 3P, 14KA @ 415V BRS: 23-MCB, BKN-b, 20A, 1P, 10KA @ 230V 2-SPACE, 60AF, 1P NEMA-1, SURFACE MOUNTED, GI SHEET G#16, POWDER COATED FINISH WITH NEUTRAL, GROUNDING & TERMINAL LUGS DIMENSION: 700mmX 400mmX 130mm	1.00	pc										AS PER DESIGNERS RECOMMENDATION
	I.4.1.41 LP20 with ground and neutral bus terminal MAIN: 1-MCCB, ABN103c, 75A, 3P, 18KA @ 415V BRS: 29-MCB, BKN-b, 20A, 1P, 10KA @ 230V 1-SPACE, 60AF, 1P NEMA-1, SURFACE MOUNTED, GI SHEET G#16, POWDER COATED FINISH WITH NEUTRAL, GROUNDING & TERMINAL LUGS DIMENSION: 700mmX 400mmX 130mm	1.00	pc										AS PER DESIGNERS RECOMMENDATION

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					COM	PROFIT	%	VALUE					
1	2	3	4	5	6	7	8	9	10	11	12	13	
								5%					
	I.41.42 DP20 with ground and neutral bus terminal MAIN: 1-MCCB, ABS203c, 175A, 3P, 37KA @415V BRS: 2-MCCB, ABS100c, 75A, 3P, 37KA @415V 1-MCCB, ABS100c, 40A, 3P, 37KA @415V 1-SPACE, 100AF, 3P NEMA-1, SURFACE MOUNTED, GI SHEET G#16, POWDER COATED FINISH WITH NEUTRAL, GROUNDING & TERMINAL LUGS DIMENSION: 750mmX 600mmX 150mm	1.00	as py										AS PER DESIGNERS RECOMMENDATION
	I.41.43 PP21C with ground and neutral bus terminal MAIN: 1-MCCB, ABN103c, 75A, 3P, 14KA @415V BRS: 39-MCB, BKN-b, 20A, 1P, 10KA @230V 1-SPACE, 60AF, 1P NEMA-1, SURFACE MOUNTED, GI SHEET G#16, POWDER COATED FINISH WITH NEUTRAL, GROUNDING & TERMINAL LUGS DIMENSION: 800mmX 400mmX 130mm	1.00	as py										AS PER DESIGNERS RECOMMENDATION
	I.41.44 PP21 with ground and neutral bus terminal MAIN: 1-MCCB, ABN53c, 50A, 3P, 14KA @415V BRS: 23-MCB, BKN-b, 20A, 1P, 10KA @230V 1-SPACE, 60AF, 1P NEMA-1, SURFACE MOUNTED, GI SHEET G#16, POWDER COATED FINISH WITH NEUTRAL, GROUNDING & TERMINAL LUGS DIMENSION: 650mmX 400mmX 130mm	1.00	as py										AS PER DESIGNERS RECOMMENDATION
	I.41.45 LP21 with ground and neutral bus terminal MAIN: 1-MCCB, ABN103c, 75A, 3P, 18KA @415V BRS: 25-MCB, BKN-b, 20A, 1P, 10KA @230V 1-SPACE, 60AF, 1P NEMA-1, SURFACE MOUNTED, GI SHEET G#16, POWDER COATED FINISH WITH NEUTRAL, GROUNDING & TERMINAL LUGS DIMENSION: 750mmX 400mmX 130mm	1.00	as py										AS PER DESIGNERS RECOMMENDATION
	I.41.46 DP21 with ground and neutral bus terminal MAIN: 1-MCCB, ABS203c, 175A, 3P, 37KA @415V BRS: 2-MCCB, ABS100c, 75A, 3P, 37KA @415V 1-MCCB, ABS100c, 40A, 3P, 37KA @415V 1-SPACE, 100AF, 3P NEMA-1, SURFACE MOUNTED, GI SHEET G#16, POWDER COATED FINISH WITH NEUTRAL, GROUNDING & TERMINAL LUGS DIMENSION: 750mmX 600mmX 150mm	1.00	as py										AS PER DESIGNERS RECOMMENDATION
	I.41.47 PP22C with ground and neutral bus terminal MAIN: 1-MCCB, ABN103c, 75A, 3P, 14KA @415V BRS: 39-MCB, BKN-b, 20A, 1P, 10KA @230V 1-SPACE, 60AF, 1P NEMA-1, SURFACE MOUNTED, GI SHEET G#16, POWDER COATED FINISH WITH NEUTRAL, GROUNDING & TERMINAL LUGS DIMENSION: 800mmX 400mmX 130mm	1.00	as py										AS PER DESIGNERS RECOMMENDATION

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					OOM	PROFIT	%	VALUE					
1	2	3	4	5	6	7	8	9	10	11	12	13	
								5%	(5*9)	9+10	5+11	12+3	
	I.4.1.48 PP22 with ground and neutral bus terminal MAIN: 1-MCCB, ABN53c, 50A, 3P, 14KA @ 415V BRS: 23-MCB, BKN-b, 20A, 1P, 10KA @ 230V 1-SPACE, 60AF, 1P NEMA-1, SURFACE MOUNTED, GI SHEET G#16, POWDER COATED FINISH WITH NEUTRAL GROUNDING & TERMINAL LUGS DIMENSION: 650mmX 400mmX 130mm	1.00	pc/ty										AS PER DESIGNERS RECOMMENDATION
	I.4.1.49 LP22 with ground and neutral bus terminal MAIN: 1-MCCB, ABN103c, 75A, 3P, 18KA @ 415V BRS: 25-MCB, BKN-b, 20A, 1P, 10KA @ 230V 1-SPACE, 60AF, 1P NEMA-1, SURFACE MOUNTED, GI SHEET G#16, POWDER COATED FINISH WITH NEUTRAL GROUNDING & TERMINAL LUGS DIMENSION: 700mmX 400mmX 130mm	1.00	pc/ty										AS PER DESIGNERS RECOMMENDATION
	I.4.1.50 DP22 with ground and neutral bus terminal MAIN: 1-MCCB, ABS103c, 175A, 3P, 37KA @ 415V BRS: 2-MCCB, ABS103c, 75A, 3P, 37KA @ 415V 1-MCCB, ABS103c, 40A, 3P, 37KA @ 415V 1-SPACE, 100AF, 3P NEMA-1, SURFACE MOUNTED, GI SHEET G#16, POWDER COATED FINISH WITH NEUTRAL GROUNDING & TERMINAL LUGS DIMENSION: 750mmX 600mmX 150mm	1.00	pc/ty										AS PER DESIGNERS RECOMMENDATION
	I.4.1.51 PP23C with ground and neutral bus terminal MAIN: 1-MCCB, ABN53c, 50A, 3P, 14KA @ 415V BRS: 21-MCB, BKN-b, 20A, 1P, 10KA @ 230V 1-SPACE, 60AF, 1P NEMA-1, SURFACE MOUNTED, GI SHEET G#16, POWDER COATED FINISH WITH NEUTRAL GROUNDING & TERMINAL LUGS DIMENSION: 650mmX 400mmX 130mm	1.00	pc/ty										AS PER DESIGNERS RECOMMENDATION
	I.4.1.52 PP23 with ground and neutral bus terminal MAIN: 1-MCCB, ABN103c, 75A, 3P, 18KA @ 400V BRS: 35-MCB, BKN-b, 20A, 1P, 10KA @ 400V 1-SPACE, 60AF, 1P NEMA-1, SURFACE MOUNTED, GI SHEET G#16, POWDER COATED FINISH WITH NEUTRAL GROUNDING & TERMINAL LUGS DIMENSION: 500mmX 400mmX 130mm	1.00	pc/ty										AS PER DESIGNERS RECOMMENDATION
	I.4.1.53 LP23 with ground and neutral bus terminal MAIN: 1-MCCB, ABN103c, 60A, 3P, 18KA @ 400V BRS: 24-MCB, BKN-b, 20A, 1P, 10KA @ 400V NEMA-1, SURFACE MOUNTED, GI SHEET G#16, POWDER COATED FINISH WITH NEUTRAL GROUNDING & TERMINAL LUGS DIMENSION: 750mmX 400mmX 130mm	1.00	pc/ty										AS PER DESIGNERS RECOMMENDATION

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					OOI	PROFIT	%	VALUE					
1	2	3	4	5	6	7	8	9	10	11	12	13	
								5%	5-9	9+10	5+11	12+13	
	I.4.1.54 DP23 with ground and neutral bus terminal MAIN : 1-60AT, 250AF, 3P, 400V, MCCB 37KA BRS: 1-70AT, 100AF, 3P, MCCB 37KA 1-60AT, 100AF, 3P, MCCB 37KA 1-40AT, 100AF, 3P, MCCB 37KA 1-SPACE, 100AF, 3P NEMA-1, SURFACE MOUNTED, GI SHEET G#16, POWDER COATED FINISH WITH NEUTRAL, GROUNDING & TERMINAL LUGS DIMENSION: 750mm X 600mm X 150mm	1.00	assy										AS PER DESIGNERS RECOMMENDATION
	I.4.1.55 PP24 with ground and neutral bus terminal MAIN : 1-MCCB, ABN53c, 40A, 3P, 14KA @ 415V BRS: 24-MCB, BKN-b, 20A, 1P, 10KA @ 230V 1-SPACE, 60AF, 1P NEMA-1, SURFACE MOUNTED, GI SHEET G#16, POWDER COATED FINISH WITH NEUTRAL, GROUNDING & TERMINAL LUGS DIMENSION: 750mm X 400mm X 130mm	1.00	assy										AS PER DESIGNERS RECOMMENDATION
	I.4.1.56 LP24 with ground and neutral bus terminal MAIN : 1-MCCB, ABN103c, 75A, 3P, 18KA @ 400V BRS: 28-MCB, BKN-b, 20A, 1P, 10KA @ 400V NEMA-1, SURFACE MOUNTED, GI SHEET G#16, POWDER COATED FINISH WITH NEUTRAL, GROUNDING & TERMINAL LUGS DIMENSION: 750mm X 400mm X 130mm	1.00	assy										AS PER DESIGNERS RECOMMENDATION
	I.4.1.57 DP24 with ground and neutral bus terminal MAIN : 1-MCCB, ABS103c, 100A, 3P, 37KA @ 415V BRS: 1-MCCB, ABS103c, 70A, 3P, 37KA @ 415V 1-MCCB, ABS103c, 40A, 3P, 37KA @ 415V 2-SPACE, 100AF, 3P NEMA-1, SURFACE MOUNTED, GI SHEET G#16, POWDER COATED FINISH WITH NEUTRAL, GROUNDING & TERMINAL LUGS DIMENSION: 700mm X 600mm X 150mm	1.00	assy										AS PER DESIGNERS RECOMMENDATION

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					COM	PROFIT	%	VALUE					
1	2	3	4	5	6	7	8	9	10	11	12	13	
								5%	9%(5+4)	9+10	5+11	12+3	
	I.4.1.58 DPP SRT I 17 with ground and neutral bus terminal MAIN : 1-MCCB, AB S803c, 500A, 3P, 65KA @ 400V BR S: 1-MCCB, AB S403c, 350A, 3P, 50KA @ 400V 1-MCCB, AB S203c, 160A, 3P, 37KA @ 415V 2-SPACE, 100AF, 3P NEMA-1, SURFACE MOUNTED, GI SHEET G#16, POWDER COATED FINISH WITH NEUTRAL, GROUNDING & TERMINAL LUGS DIMENSION: 1250mmX 750mmX 350mm	1.00	pcy										AS PER DESIGNERS RECOMMENDATION
	I.4.1.59 SUB-METER CENTER (SMC-8) with ground and neutral bus terminal ECB: 1-MCCB, ABS203c, 125A, 3P, 37KA @ 415V NEMA-1, SURFACE MOUNTED, GI SHEET G#16, POWDER COATED FINISH WITH NEUTRAL, GROUNDING & TERMINAL LUGS DIMENSION: 400mm X 550mmX 85mm BUSBAR GUTTER 125A, 3PHASE, 400V NEMA-1, SURFACE MOUNTED, GI SHEET G#16, POWDER COATED FINISH WITH NEUTRAL, GROUNDING & TERMINAL LUGS DIMENSION: 1600mm X 350mmX 250mm CIRCUIT BREAKER GUTTER BR S: 13-MCCB, ABN 101c, 60A, 1P, 25KA @ 240V NEMA-1, SURFACE MOUNTED, GI SHEET G#16, POWDER COATED FINISH WITH NEUTRAL, GROUNDING & TERMINAL LUGS DIMENSION: 1600mm X 350mmX 250mm	1.00	pcy										AS PER DESIGNERS RECOMMENDATION
	I.4.1.60 PP17FCU with ground and neutral bus terminal	1.00	pcy										AS PER DESIGNERS RECOMMENDATION
	I.4.1.61 PP17 ACCU with ground and neutral bus terminal MAIN : 1-MCCB, ABN403c, 350A, 3P, 50KA @ 400V BR S: 1-MCCB ABH203c, 160A, 3P, 50KA @ 400V 2-MCCB ABH203c, 125A, 3P, 50KA @ 400V 1-MCCB ABH203c, 75A, 3P, 50KA @ 400V 1-MCCB ABH203c, 60A, 3P, 50KA @ 400V 1-MCCB ABH203c, 50A, 3P, 50KA @ 400V 1-MCCB ABH203c, 40A, 3P, 50KA @ 400V 3-100AF, 3P, SPACE NEMA-1, FREE STANDING, GI SHEET G#14, POWDER COATED FINISH WITH NEUTRAL, GROUNDING & TERMINAL LUGS DIMENSION: 1800mmX 7000mmX 450mm	1.00	pcy										AS PER DESIGNERS RECOMMENDATION

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					COM	PROFIT	%	VALUE					
1	2	3	4	5	6	7	8	9	10	11	12	13	
								5%	5%	9+10	5+11	12+13	
	I.4.1.62 DPP SRTI 18 with ground and neutral bus terminal MAIN : 1-MCCB, AB S403c, 400A, 3P, 50KA @ 400V BR S: 1-MCCB, AB S403c, 300A, 3P, 50KA @ 400V 1-MCCB, AB S103c, 100A, 3P, 37KA @ 415V 2-SPACE, 100AF, 3P NEMA-1, SURFACE MOUNTED, GI SHEET G#16, POWDER COATED FINISH WITH NEUTRAL, GROUNDING & TERMINAL LUGS DIMENSION: 1250mm X 750mm X 350mm	1.00	pc										AS PER DESIGNERS RECOMMENDATION
	I.4.1.63 PP18 FCU with ground and neutral bus terminal MAIN : 1-MCCB, AB N103c, 40A, 3P, 37KA @ 400V BR S: 12-MCCB, AB N101c, 20A, 1P, 25KA @ 240V NEMA-1, SURFACE MOUNTED, GI SHEET G#16, POWDER COATED FINISH WITH NEUTRAL, GROUNDING & TERMINAL LUGS DIMENSION: 600mm X 550mm X 150mm	1.00	pc										AS PER DESIGNERS RECOMMENDATION
	I.4.1.64 PP18 ACCU with ground and neutral bus terminal MAIN : 1-MCCB, AB N403c, 350A, 3P, 50KA @ 400V BR S: 1-MCCB ABH203c, 160A, 3P, 50KA @ 400V 2-MCCB ABH203c, 125A, 3P, 50KA @ 400V 1-MCCB ABH203c, 75A, 3P, 50KA @ 400V 1-MCCB ABH203c, 60A, 3P, 50KA @ 400V 1-MCCB ABH203c, 50A, 3P, 50KA @ 400V 1-MCCB ABH203c, 40A, 3P, 50KA @ 400V 4-100AF, 3P, SPACE NEMA-1, FREE STANDING, GI SHEET G#14, POWDER COATED FINISH WITH NEUTRAL, GROUNDING & TERMINAL LUGS DIMENSION: 1800mm X 700mm X 450mm	1.00	pc										AS PER DESIGNERS RECOMMENDATION
	I.4.1.65 DPACU1 with ground and neutral bus terminal MAIN : 1-ACB, AS-20ES-20H, 2000A, 3P85KA @ 400V, FT.EO BR S: 2-MCCB AB S403c, 350A, 3P, 50KA @ 400V 6-MCCB AB S403c, 300A, 3P, 50KA @ 400V 4-SPACE, 3P NEMA-1, FREE STANDING, 2-VERTICAL SECTIONS, GI SHEET G#14, POWDER COATED FINISH WITH NEUTRAL, GROUNDING & TERMINAL LUGS DIMENSION: 2200mm X 1600mm X 1000mm	1.00	pc										AS PER DESIGNERS RECOMMENDATION
	I.4.1.66 PPTFCU with ground and neutral bus terminal MAIN : 1-MCCB, AB N103c, 30A, 3P, 37KA @ 400V BR S: 12-MCCB, AB N101c, 20A, 1P, 25KA @ 240V NEMA-1, SURFACE MOUNTED, GI SHEET G#16, POWDER COATED FINISH WITH NEUTRAL, GROUNDING & TERMINAL LUGS DIMENSION: 550mm X 550mm X 150mm	1.00	pc										AS PER DESIGNER RECOMMENDATION

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					CON	PROFIT	%	VALUE					
1	2	3	4	5	6	7	8	9	10	11	12	13	
								5/8	5/(5*8)	9+10	5*11	12/3	
	I.4.1.67 PP7ACCU with ground and neutral bus terminal MAIN: 1-MCCB, AB \$103c, 350A, 3P, 50KA @ 400V BRS: 1-MCCB ABS103c, 150A, 3P, 37KA @ 400V 2-MCCB ABS103c, 125A, 3P, 37KA @ 400V 1-MCCB ABS103c, 100A, 3P, 37KA @ 400V 1-MCCB ABS103c, 60A, 3P, 37KA @ 400V 1-MCCB ABS103c, 50A, 3P, 37KA @ 400V 1-MCCB ABS103c, 30A, 3P, 37KA @ 400V 3-100AF, 3P, 3SPACE NEMA-1, SURFACE MOUNTED, GI SHEET G#16, POWDER COATED FINISH WITH NEUTRAL, GROUNDING & TERMINAL LUG \$ DIMENSION: 1350mmX 700mmX 250mm	1.00	as per										AS PER DESIGNER RECOMMENDATION
	I.4.1.68 NPP8FCU with ground and neutral bus terminal MAIN: 1-MCCB, ABN103c, 30A, 3P, 37KA @ 400V BRS: 12-MCCB, ABN101c, 20A, 1P, 25KA @ 240V NEMA-1, SURFACE MOUNTED, GI SHEET G#16, POWDER COATED FINISH WITH NEUTRAL, GROUNDING & TERMINAL LUG \$ DIMENSION: 550mmX 550mmX 150mm	1.00	as per										AS PER DESIGNERS RECOMMENDATION
	I.4.1.69 PP8ACCU with ground and neutral bus terminal MAIN: 1-MCCB, AB \$103c, 300A, 3P, 50KA @ 400V BRS: 2-MCCB ABS103c, 125A, 3P, 37KA @ 400V 1-MCCB ABS103c, 80A, 3P, 37KA @ 400V 1-MCCB ABS103c, 60A, 3P, 37KA @ 400V 1-MCCB ABS103c, 50A, 3P, 37KA @ 400V 1-MCCB ABS103c, 30A, 3P, 37KA @ 400V 4-100AF, 3P, 3SPACE NEMA-1, SURFACE MOUNTED, GI SHEET G#16, POWDER COATED FINISH WITH NEUTRAL, GROUNDING & TERMINAL LUG \$ DIMENSION: 1350mmX 700mmX 250mm	1.00	as per										AS PER DESIGNERS RECOMMENDATION
	I.4.1.70 PP9FCU with ground and neutral bus terminal MAIN: 1-MCCB, ABN103c, 30A, 3P, 37KA @ 400V BRS: 12-MCCB, ABN101c, 20A, 1P, 25KA @ 240V NEMA-1, SURFACE MOUNTED, GI SHEET G#16, POWDER COATED FINISH WITH NEUTRAL, GROUNDING & TERMINAL LUG \$ DIMENSION: 600mmX 550mmX 150mm	1.00	as per										AS PER DESIGNERS RECOMMENDATION
	I.4.1.71 PP9ACCU with ground and neutral bus terminal MAIN: 1-MCCB, AB \$103c, 350A, 3P, 50KA @ 400V BRS: 1-MCCB ABS103c, 175A, 3P, 37KA @ 400V 1-MCCB ABS103c, 150A, 3P, 37KA @ 400V 1-MCCB ABS103c, 100A, 3P, 37KA @ 400V 1-MCCB ABS103c, 80A, 3P, 37KA @ 400V 1-MCCB ABS103c, 30A, 3P, 37KA @ 400V 5-100AF, 3P, 3SPACE NEMA-1, SURFACE MOUNTED, GI SHEET G#16, POWDER COATED FINISH WITH NEUTRAL, GROUNDING & TERMINAL LUG \$ DIMENSION: 1350mmX 700mmX 250mm	1.00	as per										AS PER DESIGNERS RECOMMENDATION

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II. ELECTRICAL WORKS

ITEM NO.	DESCRIPTION	QUANTITY	UNIT	DIRECT COST	MARKUPS IN PERCENT		TOTAL MARKUP		VAT	TOTAL INDIRECT COST	UNIT COST	TOTAL COST	REMARKS/ LOCATION SPECIFICATIONS
					OCM	PROFIT	%	VALUE					
1	2	3	4	5	6	7	8	9	10	11	12	13	
								5%	5+9	9+10	5+11	12+3	
	I4.1.72 PPI0FCU with ground and neutral bus terminal MAIN :1-MCCB, ABN103c, 30A, 3P, 37KA @ 400V BR S: 12-MCCB, ABN101c, 20A, 1P, 25KA @ 240V NEMA-1, SURFACE MOUNTED, G1 SHEET G#16, POWDER COATED FINISH WITH NEUTRAL, GROUNDING & TERMINAL LUG S DIMENSION: 600mm X 550mm X 150mm	1.00	assy										AS PER DESIGNER'S RECOMMENDATION
	I4.1.73 PPI0ACCU with ground and neutral bus terminal MAIN :1-MCCB, AB S103c, 300A, 3P, 50KA @ 400V BR S: 2-MCCB AB S103c, 125A, 3P, 37KA @ 400V 1-MCCB AB S103c, 80A, 3P, 37KA @ 400V 1-MCCB AB S103c, 70A, 3P, 37KA @ 400V 1-MCCB AB S103c, 50A, 3P, 37KA @ 400V 1-MCCB AB S103c, 30A, 3P, 37KA @ 400V 3-100AF, 3P, SPACE NEMA-1, SURFACE MOUNTED, G1 SHEET G#16, POWDER COATED FINISH WITH NEUTRAL, GROUNDING & TERMINAL LUG S DIMENSION: 1350mm X 700mm X 250mm	1.00	assy										AS PER DESIGNER'S RECOMMENDATION
	I4.1.74 PPI1FCU with ground and neutral bus terminal MAIN :1-MCCB, AB S103c, 30A, 3P, 37KA @ 400V BR S: 12-MCCB, ABN101c, 20A, 1P, 25KA @ 240V NEMA-1, SURFACE MOUNTED, G1 SHEET G#16, POWDER COATED FINISH WITH NEUTRAL, GROUNDING & TERMINAL LUG S DIMENSION: 600mm X 550mm X 150mm	1.00	assy										AS PER DESIGNER'S RECOMMENDATION
	I4.1.75 PPI1ACCU with ground and neutral bus terminal MAIN :1-MCCB, AB S103c, 300A, 3P, 50KA @ 400V BR S: 1-MCCB AB S103c, 125A, 3P, 37KA @ 400V 1-MCCB AB S103c, 80A, 3P, 37KA @ 400V 1-MCCB AB S103c, 70A, 3P, 37KA @ 400V 1-MCCB AB S1203c, 50A, 3P, 37KA @ 400V 1-MCCB AB S103c, 30A, 3P, 37KA @ 400V 3-100AF, 3P, SPACE NEMA-1, SURFACE MOUNTED, G1 SHEET G#16, POWDER COATED FINISH WITH NEUTRAL, GROUNDING & TERMINAL LUG S DIMENSION: 1350mm X 700mm X 250mm	1.00	assy										AS PER DESIGNER'S RECOMMENDATION
	I4.1.76 PPI2FCU with ground and neutral bus terminal MAIN :1-MCCB, AB S103c, 30A, 3P, 37KA @ 400V BR S: 12-MCCB, ABN101c, 20A, 1P, 25KA @ 240V NEMA-1, SURFACE MOUNTED, G1 SHEET G#16, POWDER COATED FINISH WITH NEUTRAL, GROUNDING & TERMINAL LUG S DIMENSION: 600mm X 550mm X 150mm	1.00	assy										AS PER DESIGNER'S RECOMMENDATION

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Position
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II. ELECTRICAL WORKS

ITEM NO.	DESCRIPTION	QUANTITY	UNIT	DIRECT COST	MARK-UPS IN PERCENT		TOTAL MARK-UP		VAT	TOTAL INDIRECT COST	UNIT COST	TOTAL COST	REMARKS/ LOCATION SPECIFICATIONS
					OGM	PROFIT	%	VALUE					
1	2	3	4	5	6	7	8	9 5/8	10 5/5+3	11 9+10	12 5+11	13 12+3	
	I.4.1.77 PP12ACCU with ground and neutral bus terminal MAIN: 1-MCCB, AB \$103c, 300A, 3P, 50KA @ 400V BRS: 1-MCCB ABS103c, 125A, 3P, 37KA @ 400V 1-MCCB ABS103c, 100A, 3P, 37KA @ 400V 1-MCCB ABS103c, 60A, 3P, 37KA @ 400V 1-MCCB ABS1203c, 50A, 3P, 37KA @ 400V 1-MCCB ABS103c, 30A, 3P, 37KA @ 400V 3-100AF, 3P, SPACE NEMA-1, SURFACE MOUNTED, GI SHEET G#16, POWDER COATED FINISH WITH NEUTRAL, GROUNDING & TERMINAL LUG \$ DIMENSION: 1450mmX 700mmX 250mm	1.00	pc/ty										AS PER DESIGNERS RECOMMENDATION
	I.4.1.78 PP14FCU with ground and neutral bus terminal MAIN: 1-MCCB, AB \$103c, 30A, 3P, 37KA @ 400V BRS: 12-MCCB, ABN101c, 20A, 1P, 25KA @ 240V NEMA-1, SURFACE MOUNTED, GI SHEET G#16, POWDER COATED FINISH WITH NEUTRAL, GROUNDING & TERMINAL LUG \$ DIMENSION: 600mmX 550mmX 150mm	1.00	pc/ty										AS PER DESIGNERS RECOMMENDATION
	I.4.1.79 PP14ACCU with ground and neutral bus terminal MAIN: 1-MCCB, AB \$103c, 300A, 3P, 50KA @ 400V BRS: 1-MCCB ABS103c, 125A, 3P, 37KA @ 400V 1-MCCB ABS103c, 100A, 3P, 37KA @ 400V 1-MCCB ABS103c, 80A, 3P, 37KA @ 400V 1-MCCB ABS1203c, 40A, 3P, 37KA @ 400V 1-MCCB ABS103c, 30A, 3P, 37KA @ 400V 4-100AF, 3P, SPACE NEMA-1, SURFACE MOUNTED, GI SHEET G#16, POWDER COATED FINISH WITH NEUTRAL, GROUNDING & TERMINAL LUG \$ DIMENSION: 1450mmX 700mmX 250mm	1.00	pc/ty										AS PER DESIGNERS RECOMMENDATION
	I.4.1.80 PP15FCU with ground and neutral bus terminal MAIN: 1-MCCB, AB \$103c, 30A, 3P, 37KA @ 400V BRS: 12-MCCB, ABN101c, 20A, 1P, 25KA @ 240V NEMA-1, SURFACE MOUNTED, GI SHEET G#16, POWDER COATED FINISH WITH NEUTRAL, GROUNDING & TERMINAL LUG \$ DIMENSION: 600mmX 550mmX 150mm	1.00	pc/ty										AS PER DESIGNERS RECOMMENDATION
	I.4.1.81 PP15ACCU with ground and neutral bus terminal MAIN: 1-MCCB, AB \$103c, 300A, 3P, 50KA @ 400V BRS: 2-MCCB ABS103c, 125A, 3P, 37KA @ 400V 2-MCCB ABS103c, 100A, 3P, 37KA @ 400V 2-MCCB ABS103c, 50A, 3P, 37KA @ 400V 1-MCCB ABS103c, 30A, 3P, 37KA @ 400V 3-100AF, 3P, SPACE NEMA-1, SURFACE MOUNTED, GI SHEET G#16, POWDER COATED FINISH WITH NEUTRAL, GROUNDING & TERMINAL LUG \$ DIMENSION: 1350mmX 700mmX 250mm	1.00	pc/ty										AS PER DESIGNERS RECOMMENDATION
	I.4.1.82 PP18F with ground and neutral bus terminal	1.00	pc/ty										AS PER DESIGNERS RECOMMENDATION

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II. ELECTRICAL WORKS

ITEM NO.	DESCRIPTION	QUANTITY	UNIT	DIRECT COST	MARK-UP'S IN PERCENT		TOTAL MARK-UP		VAT	TOTAL INDIRECT COST	UNIT COST	TOTAL COST	REMARKS/ LOCATION SPECIFICATIONS
					COM	PROFIT	%	VALUE					
1	2	3	4	5	6	7	8	9	10	11	12	13	
								5%	5%[5+5]	9+10	5+11	12x3	
	I.4.1.83 PP16FCU with ground and neutral bus terminal MAIN : 1-MCCB, AB S103c, 30A, 3P, 37KA @ 400V BR S: 12-MCCB, ABN101c, 20A, 1P, 25KA @ 240V NEMA-1, SURFACE MOUNTED, GI SHEET G#16, POWDER COATED FINISH WITH NEUTRAL, GROUNDING & TERMINAL LUGS DIMENSION: 600mm X 550mm X 150mm	1.00	assy										AS PER DESIGNERS RECOMMENDATION
	I.4.1.84 PP16ACCU with ground and neutral bus terminal MAIN : 1-MCCB, AB S403c, 300A, 3P, 50KA @ 400V BR S: 2-MCCB AB S203c, 125A, 3P, 37KA @ 400V 2-MCCB AB S103c, 100A, 3P, 37KA @ 400V 3-MCCB AB S103c, 50A, 3P, 37KA @ 400V 1-MCCB AB S103c, 30A, 3P, 37KA @ 400V 2-100AF, 3P, SPACE NEMA-1, SURFACE MOUNTED, GI SHEET G#16, POWDER COATED FINISH WITH NEUTRAL, GROUNDING & TERMINAL LUGS DIMENSION: 1350mm X 700mm X 250mm	1.00	assy										AS PER DESIGNERS RECOMMENDATION
	I.4.1.85 PP19FCU with ground and neutral bus terminal MAIN : 1-MCCB, AB S103c, 30A, 3P, 37KA @ 400V BR S: 12-MCCB, ABN101c, 20A, 1P, 25KA @ 240V NEMA-1, SURFACE MOUNTED, GI SHEET G#16, POWDER COATED FINISH WITH NEUTRAL, GROUNDING & TERMINAL LUGS DIMENSION: 650mm X 550mm X 150mm	1.00	assy										AS PER DESIGNERS RECOMMENDATION
	I.4.1.86 PP19ACCU with ground and neutral bus terminal MAIN : 1-MCCB, AB S403c, 350A, 3P, 50KA @ 400V BR S: 1-MCCB AB S203c, 160A, 3P, 37KA @ 400V 1-MCCB AB S103c, 125A, 3P, 37KA @ 400V 1-MCCB AB S103c, 100A, 3P, 37KA @ 400V 1-MCCB AB S103c, 80A, 3P, 37KA @ 400V 2-MCCB AB S103c, 50A, 3P, 37KA @ 400V 1-MCCB AB S103c, 30A, 3P, 37KA @ 400V 3-100AF, 3P, SPACE NEMA-1, SURFACE MOUNTED, GI SHEET G#16, POWDER COATED FINISH WITH NEUTRAL, GROUNDING & TERMINAL LUGS DIMENSION: 1350mm X 700mm X 250mm	1.00	assy										AS PER DESIGNERS RECOMMENDATION
	I.4.1.87 PP20FCU with ground and neutral bus terminal MAIN : 1-MCCB, AB S103c, 30A, 3P, 37KA @ 400V BR S: 12-MCCB, ABN101c, 20A, 1P, 25KA @ 240V NEMA-1, SURFACE MOUNTED, GI SHEET G#16, POWDER COATED FINISH WITH NEUTRAL, GROUNDING & TERMINAL LUGS DIMENSION: 600mm X 550mm X 150mm	1.00	assy										AS PER DESIGNERS RECOMMENDATION

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II. ELECTRICAL WORKS

ITEM NO.	DESCRIPTION	QUANTITY	UNIT	DIRECT COST	MARK-UPS IN PERCENT		TOTAL MARKUP		VAT	TOTAL INDIRECT COST	UNIT COST	TOTAL COST	REMARKS/ LOCATION SPECIFICATIONS
					OOM	PROFIT	%	VALUE					
1	2	3	4	5	6	7	8	9 5/8	10 5/(5+8)	11 9+10	12 5+11	13 12/3	
	I.4.1.88 PP20ACCU with ground and neutral bus terminal MAIN: 1-MCCB, AB \$403c, 350A, 3P, 50KA @400V BRS: 1-MCCB ABS203c, 160A, 3P, 37KA @400V 3-MCCB ABS103c, 100A, 3P, 37KA @400V 2-MCCB ABS103c, 50A, 3P, 37KA @400V 1-MCCB ABS103c, 30A, 3P, 37KA @400V 3-100AF, 3P, SPACE NEMA-1, SURFACE MOUNTED, GI SHEET G#16, POWDER COATED FINISH WITH NEUTRAL, GROUNDING & TERMINAL LUG \$ DIMENSION: 1450mmX 700mmX 250mm	1.00	pc/y										AS PER DESIGNERS RECOMMENDATION
	I.4.1.89 PP21FCU with ground and neutral bus terminal MAIN: 1-MCCB, AB \$103c, 30A, 3P, 37KA @400V BRS: 12-MCCB, ABN101c, 20A, 1P, 25KA @ 240V NEMA-1, SURFACE MOUNTED, GI SHEET G#16, POWDER COATED FINISH WITH NEUTRAL, GROUNDING & TERMINAL LUG \$ DIMENSION: 600mmX 550mmX 150mm	1.00	pc/y										AS PER DESIGNERS RECOMMENDATION
	I.4.1.90 PP21ACCU with ground and neutral bus terminal MAIN: 1-MCCB, AB \$403c, 350A, 3P, 50KA @400V BRS: 1-MCCB ABS203c, 160A, 3P, 37KA @400V 2-MCCB ABS103c, 125A, 3P, 37KA @400V 1-MCCB ABS103c, 100A, 3P, 37KA @400V 1-MCCB ABS103c, 80A, 3P, 37KA @400V 1-MCCB ABS103c, 50A, 3P, 37KA @400V 1-MCCB ABS103c, 30A, 3P, 37KA @400V 3-100AF, 3P, SPACE NEMA-1, SURFACE MOUNTED, GI SHEET G#16, POWDER COATED FINISH WITH NEUTRAL, GROUNDING & TERMINAL LUG \$ DIMENSION: 1450mmX 700mmX 250mm	1.00	pc/y										AS PER DESIGNERS RECOMMENDATION
	I.4.1.91 PP22FCU with ground and neutral bus terminal MAIN: 1-MCCB, AB \$103c, 30A, 3P, 37KA @400V BRS: 12-MCCB, ABN101c, 20A, 1P, 25KA @ 240V NEMA-1, SURFACE MOUNTED, GI SHEET G#16, POWDER COATED FINISH WITH NEUTRAL, GROUNDING & TERMINAL LUG \$ DIMENSION: 600mmX 550mmX 150mm	1.00	pc/y										AS PER DESIGNERS RECOMMENDATION
	I.4.1.92 PP22ACCU with ground and neutral bus terminal MAIN: 1-MCCB, AB \$403c, 300A, 3P, 50KA @400V BRS: 1-MCCB ABS103c, 125A, 3P, 37KA @400V 1-MCCB ABS103c, 100A, 3P, 37KA @400V 1-MCCB ABS103c, 80A, 3P, 37KA @400V 1-MCCB ABS103c, 60A, 3P, 37KA @400V 1-MCCB ABS103c, 50A, 3P, 37KA @400V 1-MCCB ABS103c, 30A, 3P, 37KA @400V 4-100AF, 3P, SPACE NEMA-1, SURFACE MOUNTED, GI SHEET G#16, POWDER COATED FINISH WITH NEUTRAL, GROUNDING & TERMINAL LUG \$ DIMENSION: 1350mmX 700mmX 250mm	1.00	pc/y										AS PER DESIGNERS RECOMMENDATION

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II. ELECTRICAL WORKS

ITEM NO.	DESCRIPTION	QUANTITY	UNIT	DIRECT COST	MARK-UPS IN PERCENT		TOTAL MARKUP		VAT	TOTAL INDIRECT COST	UNIT COST	TOTAL COST	REMARKS/ LOCATION SPECIFICATIONS
					OOM	PROFIT	%	VALUE					
1	2	3	4	5	6	7	8	9	10	11	12	13	
								5/6	5/6+9	9+10	5+11	12+3	
	I.41.93 PP2FCU with ground and neutral bus terminal MAIN: 1-MCCB, ABS103c, 40A, 3P, 37KA @ 400V BRS: 12-MCCB, ABN101c, 20A, 1P, 25KA @ 240V 2-SPACE, 60AF, 1P NEMA-1, SURFACE MOUNTED, GI SHEET G#16, POWDER COATED FINISH WITH NEUTRAL, GROUNDING & TERMINAL LUGS DIMENSION: 700mmX 550mmX 150mm	1.00	sqm										AS PER DESIGNER'S RECOMMENDATION
	I.41.94 PP2ACCU with ground and neutral bus terminal MAIN: 1-MCCB, ABS403c, 350A, 3P, 50KA @ 400V BRS: 4-MCCB ABS103c, 125A, 3P, 37KA @ 400V 1-MCCB ABS103c, 80A, 3P, 37KA @ 400V 1-MCCB ABS103c, 40A, 3P, 37KA @ 400V 4-100AF, 3P, 3SPACE NEMA-1, SURFACE MOUNTED, GI SHEET G#16, POWDER COATED FINISH WITH NEUTRAL, GROUNDING & TERMINAL LUGS DIMENSION: 1350mmX 700mmX 250mm	1.00	sqm										7th to 24th Floor. AS PER DESIGNER'S RECOMMENDATION
	I.41.95 PP2FCU with ground and neutral bus terminal MAIN: 1-MCCB, ABS103c, 30A, 3P, 37KA @ 400V BRS: 12-MCCB, ABN101c, 20A, 1P, 25KA @ 240V NEMA-1, SURFACE MOUNTED, GI SHEET G#16, POWDER COATED FINISH WITH NEUTRAL, GROUNDING & TERMINAL LUGS DIMENSION: 600mmX 550mmX 150mm	1.00	sqm										7th to 24th Floor. AS PER DESIGNER'S RECOMMENDATION
	I.41.96 PP2ACCU with ground and neutral bus terminal MAIN: 1-MCCB, ABS403c, 350A, 3P, 50KA @ 400V BRS: 1-MCCB ABS103c, 125A, 3P, 37KA @ 400V 3-MCCB ABS103c, 100A, 3P, 37KA @ 400V 1-MCCB ABS103c, 50A, 3P, 37KA @ 400V 1-MCCB ABS103c, 30A, 3P, 37KA @ 400V 4-100AF, 3P, 3SPACE NEMA-1, SURFACE MOUNTED, GI SHEET G#16, POWDER COATED FINISH WITH NEUTRAL, GROUNDING & TERMINAL LUGS DIMENSION: 1350mmX 700mmX 250mm	1.00	sqm										AS PER DESIGNER'S RECOMMENDATION
	I.41.97 PPEF9 with ground and neutral bus terminal MAIN: 1-MCCB, ABS103c, 40A, 3P, 37KA @ 400V BRS: 8-MCCB, ABS103c, 20A, 3P, 37KA @ 400V 2-SPACE, 100AF, 3P NEMA-1, SURFACE MOUNTED, GI SHEET G#16, POWDER COATED FINISH WITH NEUTRAL, GROUNDING & TERMINAL LUGS DIMENSION: 950mmX 650mmX 150mm	1.00	sqm										AS PER DESIGNER'S RECOMMENDATION
	I.41.97 PPEF18 with ground and neutral bus terminal MAIN: 1-MCCB, ABS103c, 40A, 3P, 37KA @ 400V BRS: 8-MCCB, ABS103c, 20A, 3P, 37KA @ 400V 2-SPACE, 100AF, 3P NEMA-1, SURFACE MOUNTED, GI SHEET G#16, POWDER COATED FINISH WITH NEUTRAL, GROUNDING & TERMINAL LUGS DIMENSION: 950mmX 650mmX 150mm	1.00	sqm										AS PER DESIGNER'S RECOMMENDATION

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