



Energy Fiji Limited

Manufacture and Supply of Electrical Sub boards and associated circuit breakers for auxiliary distribution for Cawaira Power Station

MR 234/2024

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1.0 INSTRUCTIONS TO BIDDERS

1.1 GENERAL

1.1.1 SCOPE OF BID

The Energy Fiji Limited (hereinafter referred to as “the Employer”), wishes to receive bids for the Manufacture and Supply of;

- a. **SCOPE – Manufacture and Supply of Eight (8) Electrical Sub Boards and associated circuit breakers for EFL Cawaira Power Station**

1.1.2 TYPE OF TENDER

- 1.1.2.1 The Tenderer shall submit a fixed price tender. This requirement shall apply equally to the conforming tender only

1.1.3 COMPLIANCE WITH INSTRUCTIONS

- 1.1.3.1 The Tender shall be submitted in accordance with these Instructions and the letter of Invitation to tender. All the necessary forms and schedules need to be completed and submitted with the tender.

1.1.4 ADDENDA TO TENDER

- 1.1.4.1 Where Energy Fiji Limited finds it necessary to make amendments to or clarify the requirements of the tender documents during the period of tendering copies of Addendum will be forwarded. In the Appendix to tender shall state the reference number and description of each of the aforesaid Addenda which has been considered during preparation of the Tender.

1.1.5 COMPLIANCE WITH SPECIFICATIONS

- 1.1.5.1 The tender shall be based on the Sub boards and circuit breakers specified and shall be in accordance with the Technical Specification. It should be noted that unless departures from specifications are detailed in the Technical Specification, the tender would be taken as conforming to the Specification in its entirety. The Tenderer shall tender for the whole of the Works included in the Specification.

1.1.6 CURRENCY AND CURRENCY EQUIVALENT

- 1.1.6.1 The tenders shall be in the currency of the Tenderer's home country. For Tender comparison purposes the currency or currencies in which the tender is offered will be valued in terms of Fijian dollars at the exchange rate quoted for the sale of the foreign currency for Fijian dollars quoted by the Reserve Bank of Fiji on the day the tenders are opened. All local companies registered in Fiji shall bid in VIP and Duty inclusive.

1.1.7 SIGNATURE OF TENDERER

- 1.1.7.1 A tender submitted by a Partnership shall be signed by one of the members of the Partnership and shall be accompanied by a certified authorization of all the partners authorizing the individual partner to sign on behalf of the Partnership. A tender submitted by a Corporation to the Contract and shall be accompanied by a certified resolution of the Board of Directors authorizing the individual to sign on behalf of the Corporation.

1.1.8 INFORMATION FORMING PART OF THE TENDER

- 1.1.8.1 The Tenderer shall supply with each set of the tender copies of the technical, price and information schedules of the Tender Documents duly completed with all missing information and shall also supply any requisite drawings. A copy of the Tenderer's covering letter (if any) shall be submitted with each tender and each tender shall be accompanied by a full set of supporting matter which the Tenderer wishes to have considered by the Company as supporting information for his tender. It is a mandatory requirement to submit the following documents as part of the tender proposal:

1. Tender Covering Letter with signature/seal of EFL signatory
2. Price and Payment schedules
3. List of Experience
4. Confirmation of Insurance Policies

1.1.9 CONFORMING AND ALTERNATIVE TENDERS

- 1.1.9.1 No alternative bids shall be accepted

1.1.10 NON CONFORMING TENDERS

- 1.1.10.1 A tender which does not comply with the Conditions of Tendering or in which the technical price information schedules requiring information to be inserted by the Tenderer have not been completed in all respects may be considered informal will be rejected for these reasons.

1.1.11 VALIDITY PERIOD OF TENDERS

- 1.1.11.1 Tenders shall remain valid for acceptance within 60 days from the date of opening of tenders and a Tenderer shall not withdraw or amend his tender prior to the expiration of the Validity Period. In exceptional circumstances prior to expiry of the original tender validity period, the Company may request the Tenderer for an extension in the period of validity. The request and the response there to shall be in writing. A tenderer agreeing to the request will not be permitted to amend his tender price.

1.1.12 EXTENTION OF CLOSING TIME FOR TENDERS

- 1.1.12.1 The right is reserved to amend the date set for the opening of tenders to any late date. If it is decided to extend the time for submission of tenders all prospective Tenderers to whom tender documents have been issued will be promptly notified.

1.1.13 SITE VISIT

1.1.13.1 Site visit is **NOT** compulsory for Bidders

1.1.14 TENDER SUBMISSION

1.1.14.1 **Only Electronic Tender Bids will be accepted and should be uploaded in the EFL Tender Site** as per below tender link. It is mandatory for Bidders to upload their bid in the TENDER LINK Electronic Tender Box no later than **4:00pm, on Wednesday 24th July, 2024.**

1.1.14.2 To register your interest and tender a response, view “Current Tenders” at <https://www.tenderlink.com/efl>

1.1.14.3 For further information contact The Secretary Tender Committee, by email JReddy@efl.com.fj. Tenders received after **4:00pm** on the closing date of **Wednesday 24th July, 2024**

1. Will not be considered
2. Lowest bid will not necessarily be accepted as successful bid.

1.1.15 TENDER EVALUATION

1.1.15.1 After a preliminary analysis to ascertain whether or not the tender is in accordance with the requirements of the tender documents each tender will be considered with particular reference to its eligibility as being a manufacturer, offer testing facilities in its workshop, price, completion date, design capability, evidence of past performance on contracts of a similar nature, supply of reliable quality equipment and all other matters affecting the Tenderers ability to complete the Contract in accordance with the Company's requirements.

1.1.16 ADJUSTMENT OF ERRORS

1.1.16.1 The Company reserves the right to adjust arithmetical or other errors in the Tender. Any adjustments made by the Company to a Tender will be stated to the Tenderer prior to acceptance of the Tender. In the event of discrepancies appearing between words and figures in the Tender, the words shall prevail.

1.1.17 ACCEPTANCE OF TENDERS

1.1.17.1 The Company shall not be bound to accept the lowest or any tender not to assign any reason for the rejection of a tender and reserves the right to waive any informality in a tender. No tender shall be deemed to have been accepted unless such acceptance is notified to the Tenderer by notice in writing either by handing such notice to the representative of the successful Tenderer or by sending such notice by e-mail, facsimile or airmail post. Such notice shall include any essential identifying details of the tender. The date of acceptance of Tender shall be the date on which the above mentioned notice is given or posted or e-mailed.

1.1.18 LANGUAGE OF TENDER

1.1.18.1 All Tenders together with any documents submitted by the Tenderer as part of any Tender shall be written in the English language.

1.1.19 PAYMENT SCHEDULE

1.1.19.1 The contract shall be on a lump sum fixed price basis and as per attached payment "2.4 Price Schedule".

1.1.20 CONDITIONS OF CONTRACT

1.1.20.1 The Conditions of Contract shall be the FIDIC - General Conditions of Contract for the Supply of Equipment without installation.

1.1.21 INSURANCE

1.1.21.1 The Contractor is to confirm that they have in effect the insurance policies below:

1. Public and Products Liability Insurance
2. Industrial Special Risk Insurance

2.0 SPECIFICATION

2.1 SCOPE MANUFACTURE AND SUPPLY OF EIGHT (8) X ELECTRICAL SUB BOARDS AND ASSOCIATED CIRCUIT BREAKERS FOR AUXILLIARY DISTRIBUTION FOR EFL CAWAIRA POWER STATION

The Scope of works is to manufacture and supply eight (8) x Electrical Sub Boards and associated circuit breakers. The circuit breakers to be pre fitted on each designated panel as listed.

EFL would like to replace the current Electrical Sub Boards and associated circuit breakers at Cawaira Thermal Power Station, Labasa.

The current Sub boards and circuit breakers is of Merlin Gerin make, which has over the years served its purpose and needs to be replaced with safety of personnel of most importance. These old circuit breakers do not have the latest earth leakage protective devices and sub boards worn out.

2.1.1 SPECIFICATION TECHNICALS FOR Eight (8) * Electrical Sub Boards for Auxiliary Distribution

- a. The specification below is standard general technical specifications for all Sub Boards.

No.	Sub board Standard	Required
1	Product Type	Distribution board
2	Application	AC Distribution
3	Enclosure Type	Standard
4	Door type	External Plain
5	Colour	Grey or Orange
6	Enclosure material	Steel 1.6mm
7	Enclosure mounting	Surface
8	Neutral and Earthing Terminal Blocks	Top and bottom
9	Rated voltage/Network Frequency	415V AC/ 50 HZ
10	Rated Insulation Voltage (Ui)	500V
11	Rated Impulse withstand voltage(Uimp)	6kV
12	IP Degree of protection	IP 42
13	Temperature	-10°C to +40°C without derating
14	Entry Plates	Removable gland plates(1.6mm)
15	Circuit Listings	Circuit schedule card
16	Pole filler	Yes
17	Manuals / Drawings	Hard Copies / Electronic Copies
18	Panel Keys	Yes
19	Encapsulated chassis top feed	Yes
20	Cable management built into mounting brackets	Yes
21	Removable Hinged escutcheon	Yes
22	Door swing handle	Yes

- b. The eight (8) sub boards dimensions and accessories with associated circuit breakers specification technical details listed as follows:

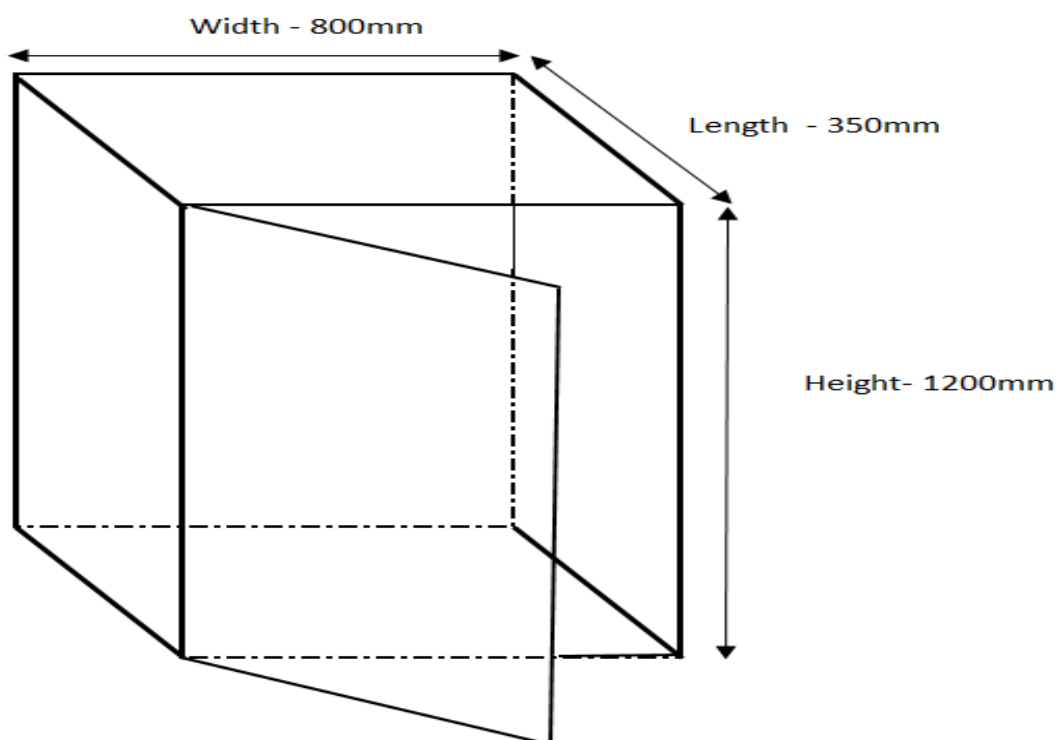
1. “ER DB – ENGINE ROOM DISTRIBUTION BOARD” – name be printed on panel door

	Specification	Requirements
1.	Length	800mm
2.	Width	350mm
3.	Height	1200mm
4.	No. of Poles	60
5.	Main Switch Ratings	250Amps, Ui – 660V, I _{tn} – 250A, AC 23, 380V/415V AC
6.	Main Switch Type	MCCB 3pole
7.	Chassis	Standard – 250A/400A
8.	Circuit breakers type	RCBO for 1 phase, 3phase
9.	Circuit breakers	To be pre-fitted on chassis

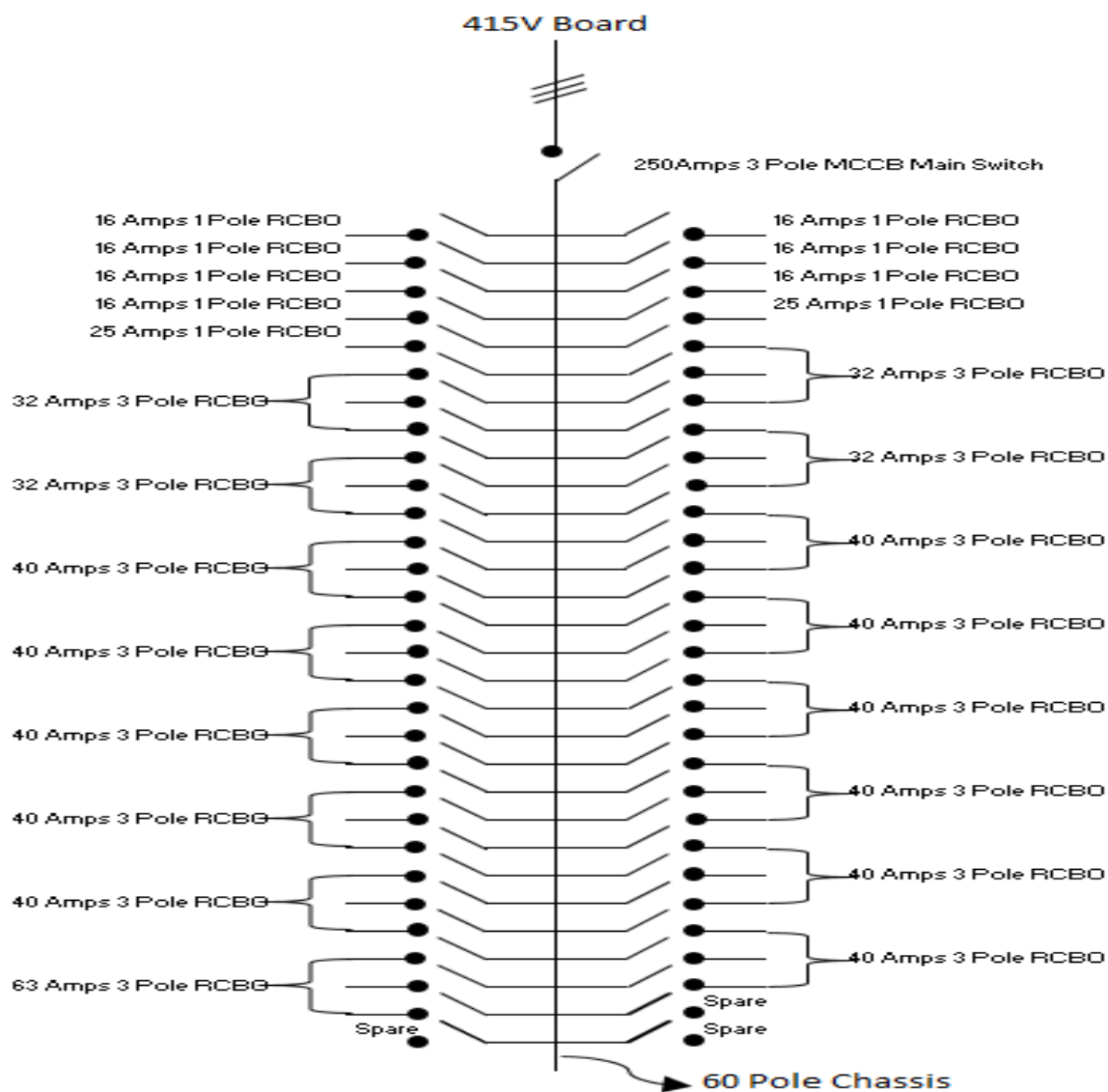
Note: The following RCBO circuit breakers to be fitted onto Chassis

Specification	Type	Phases		Total
		3 phases qty	1 Phase qty	
Circuit Breakers ratings	RCBO			
16Amps			7	7
25Amps			2	2
32Amps		4		4
40Amps		11		11
63Amps		1		1

Sub board dimensions



Sub board circuit layout



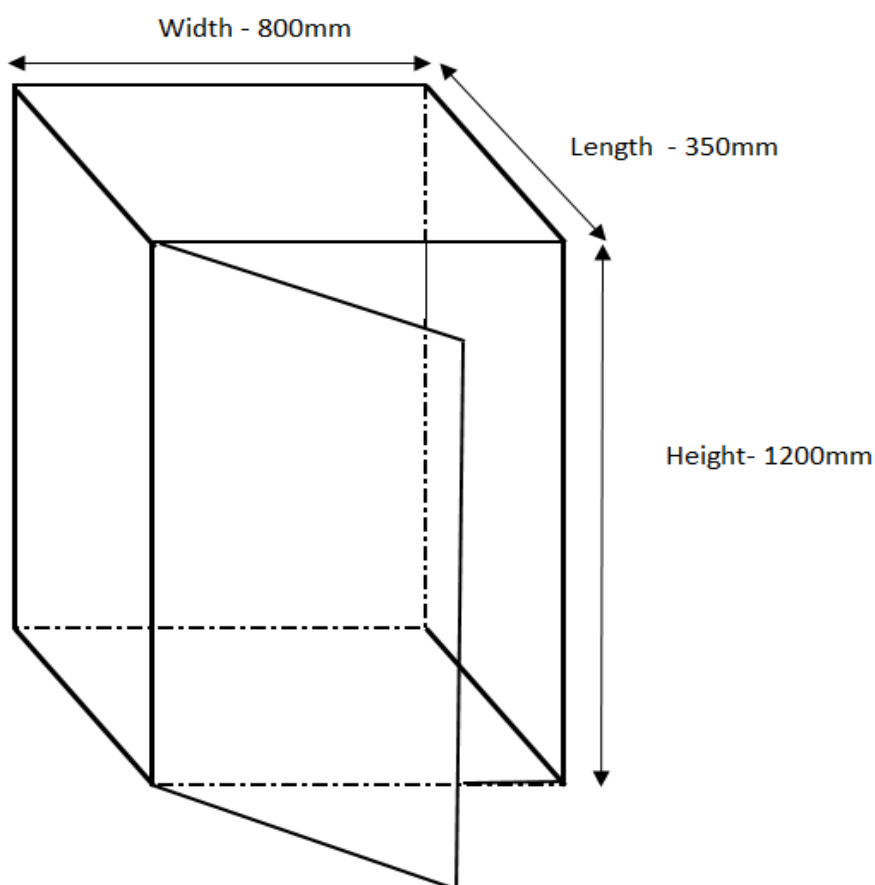
2. “MW DB – MECHANICAL W/SHOP DISTRIBUTION BOARD”- name be printed on panel door

	Specification	Requirements
1.	Length	800mm
2.	Width	350mm
3.	Height	1200mm
4.	No. of Poles	60
5.	Main Switch Ratings	250Amps, Ui – 660V, Itn – 250A, AC 23, 380V/415V AC
6.	Main Switch Type	MCCB 3pole
7.	Chassis	Standard – 250A/400A
8.	Circuit breakers type	RCBO for 1 phase, 3phase
9.	Circuit breakers	To be pre-fitted on chassis

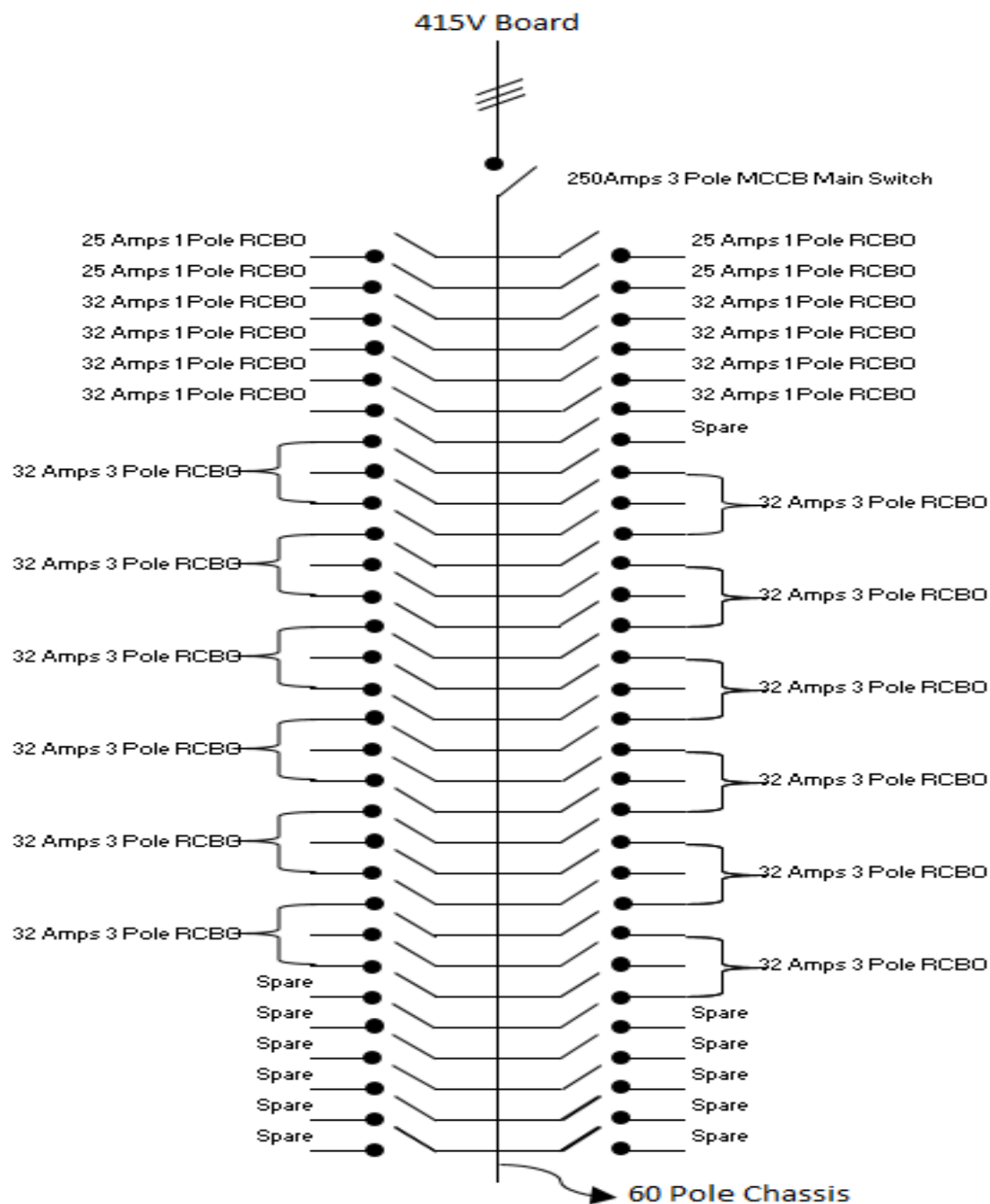
Note: The following RCBO circuit breakers to be fitted onto Chassis

Specification	Type	Phases		Total
Circuit Breakers ratings	RCBO	3 phases qty	1 Phase qty	
25Amps			4	4
32Amps		12	8	20

Sub board panel dimensions



Sub board circuit layout



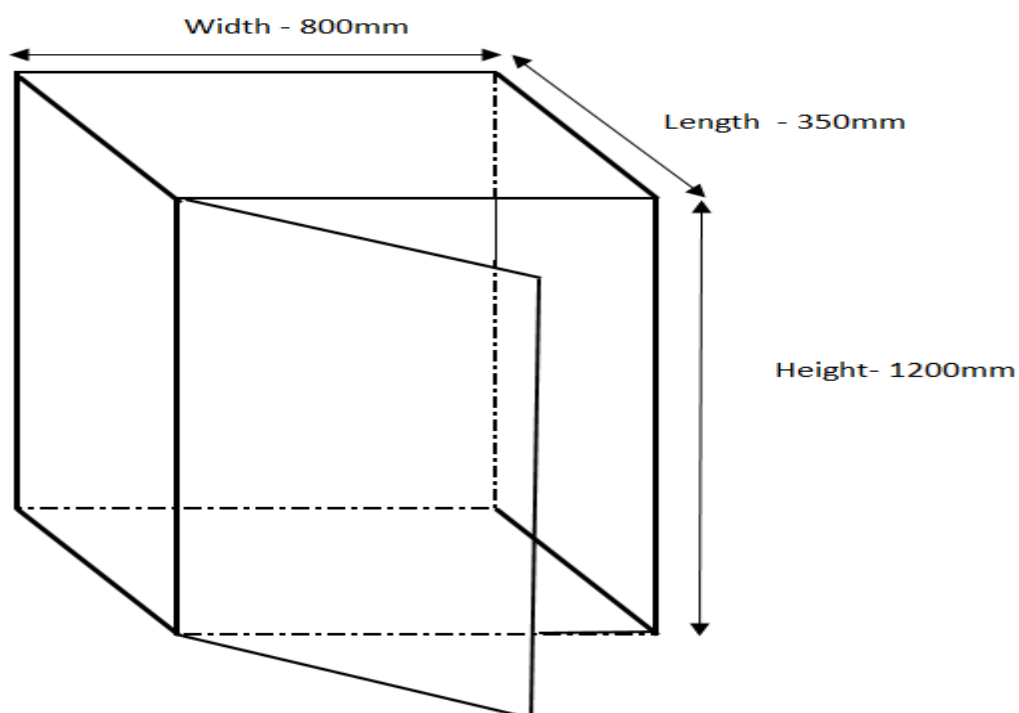
3. “SP DB – AVR ROOM DISTRIBUTION BOARD” – name be printed on panel door

	Specification	Requirements
1.	Length	800mm
2.	Width	350mm
3.	Height	1200mm
4.	No. of Poles	48
5.	Main Switch Ratings	250Amps, Ui – 660V, I _{tn} – 250A, AC 23, 380V/415V AC
6.	Main Switch Type	MCCB 3pole
7.	Chassis	Standard – 250A/400A
8.	Circuit breakers type	RCBO for 1 phase, 3phase
9.	Circuit breakers	To be pre-fitted on chassis

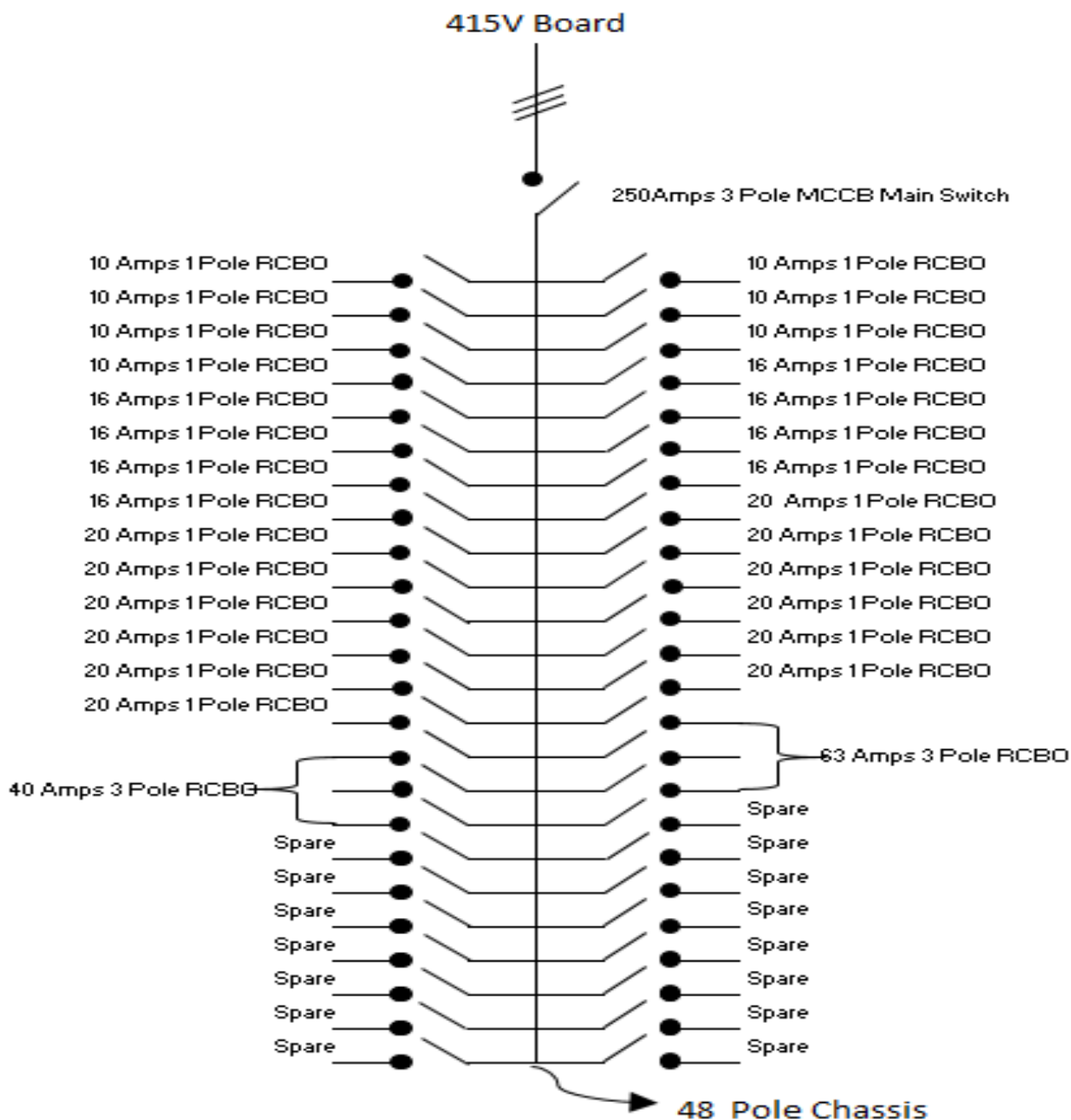
Note: The following RCBO circuit breakers to be fitted onto chassis

Specification	Type	Phases		Total
Circuit Breakers ratings	RCBO	3 phases qty	1 Phase qty	
10Amps			7	7
16Amps			8	8
20Amps			12	12
40Amps		1		1
63Amps		1		1

Sub board panel dimensions



Sub board circuit layout



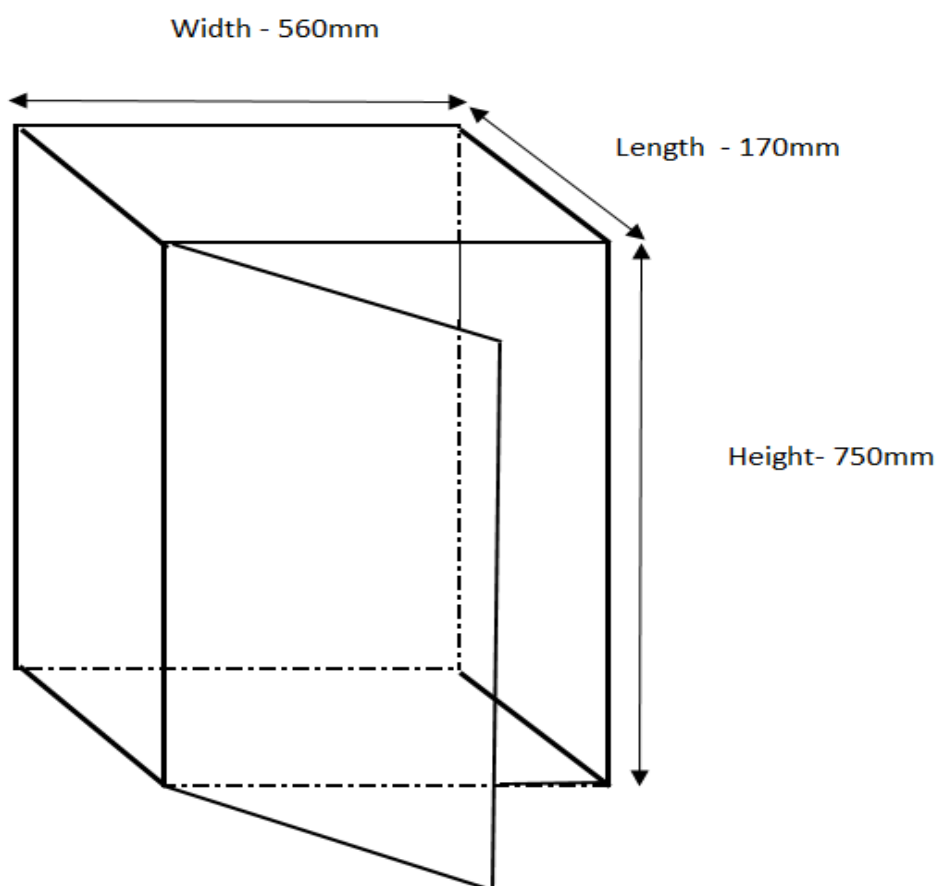
4. "FP DB – FUEL PUMP DISTRIBUTION BOARD"- name be printed on panel door

	Specification	Requirements
1.	Length	560mm
2.	Width	170mm
3.	Height	750mm
4.	No. of Poles	24
5.	Main Switch Ratings	125Amps, Ui – 660V, I _{tn} – 125A, AC 23, 380V/415V AC
6.	Main Switch Type	MCCB 3pole
7.	Chassis	Standard – 250A
8.	Circuit breakers type	RCBO for 1 phase, 3phase
9.	Circuit breakers	To be pre-fitted on chassis

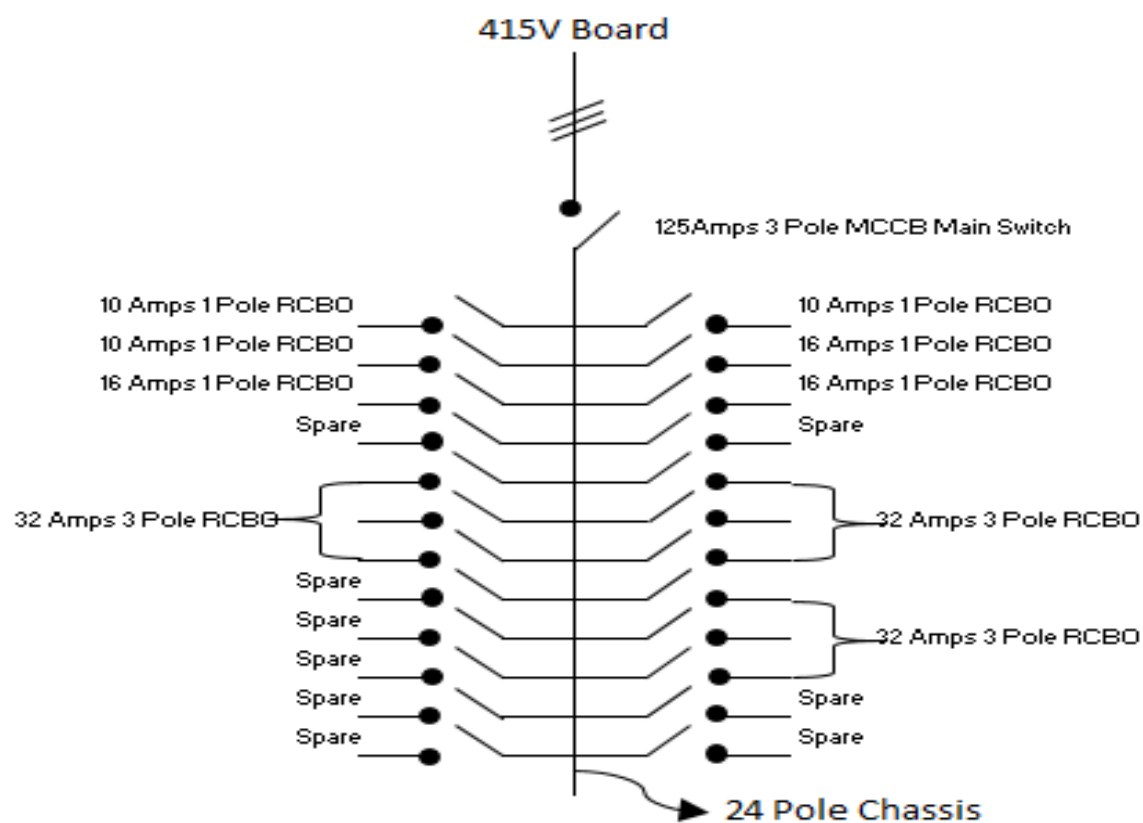
Note: These RCBO Circuit breakers are to be fitted onto chassis

Specification	Type	Phases		Total
Circuit Breakers ratings	RCBO	3 phases qty	1 Phase qty	
10Amps			3	3
16Amps			3	3
32Amps		3		3

Sub board panel dimensions



Sub board circuit layout



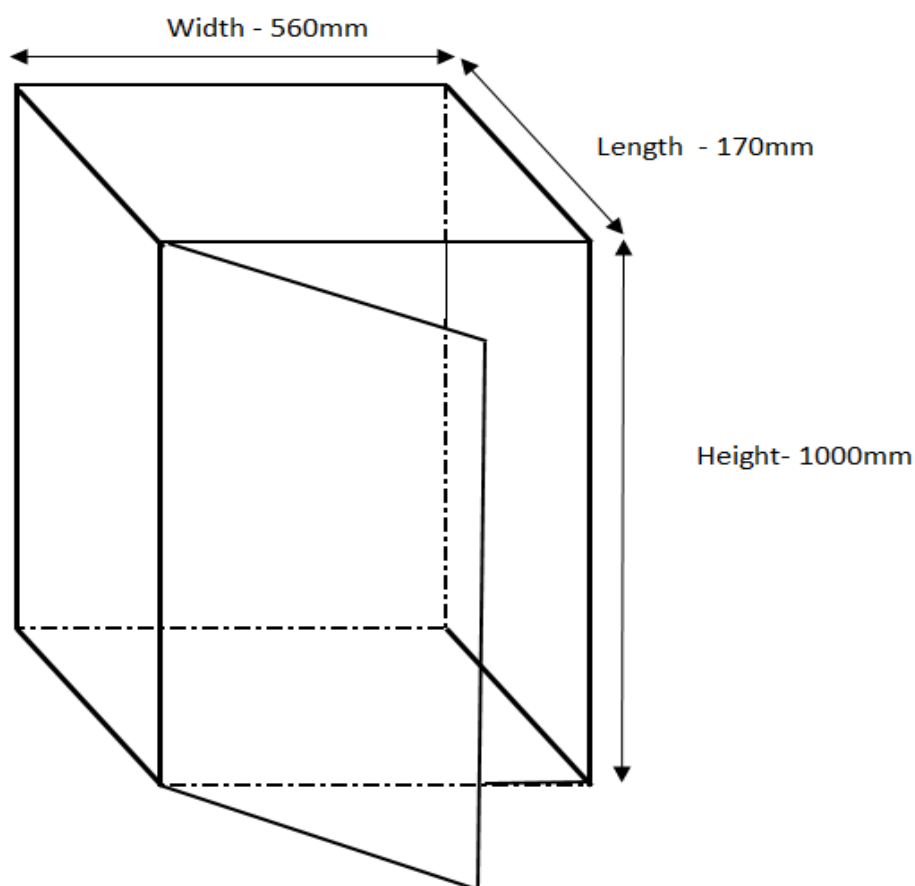
5. “TW DB – TELECOM W/SHOP DISTRIBUTION BOARD”- name be printed on panel door

	Specification	Requirements
1.	Length	560mm
2.	Width	170mm
3.	Height	1000mm
4.	No. of Poles	24
5.	Main Switch Ratings	125Amps, Ui – 660V, I _{tn} – 125A, AC 23, 380V/415V AC
6.	Main Switch Type	MCCB 3pole
7.	Chassis	Standard – 250A
8.	Circuit breakers type	RCBO for 1 phase, 3phase
9.	Circuit breakers	To be pre-fitted on chassis

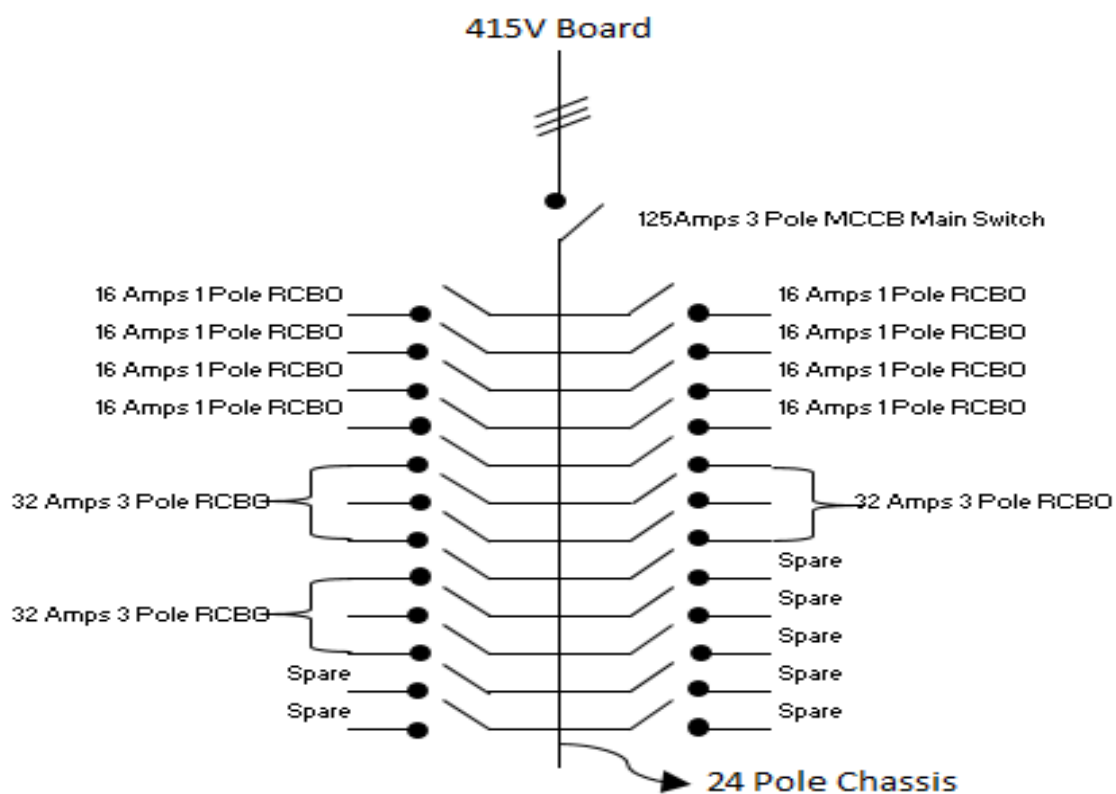
Note: These RCBO Circuit breakers are to be fitted onto chassis

Specification	Type	Phases		Total
Circuit Breakers ratings	RCBO	3 phases qty	1 Phase qty	
16Amps			8	8
32Amps		3		3

Sub board dimensions



Sub board circuit layout



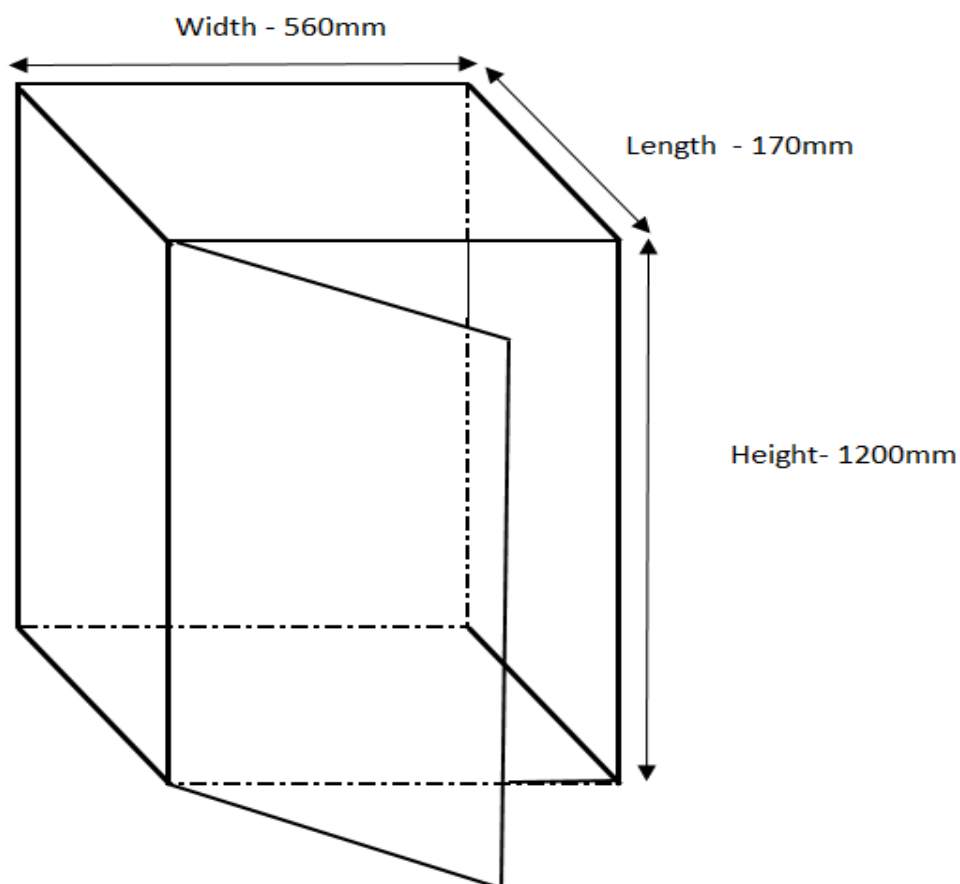
6. “FFP DB – FIRE FIGHTING PUMP ROOM”- name be printed on panel door

	Specification	Requirements
1.	Length	560mm
2.	Width	170mm
3.	Height	1200mm
4.	No. of Poles	24
5.	Main Switch Ratings	125Amps, Ui – 660V, I _{tn} – 125A, AC 23, 380V/415V AC
6.	Main Switch Type	MCCB 3pole
7.	Chassis	Standard – 250A
8.	Circuit breakers type	RCBO for 1 phase, 3phase
9.	Circuit breakers	To be pre-fitted on chassis

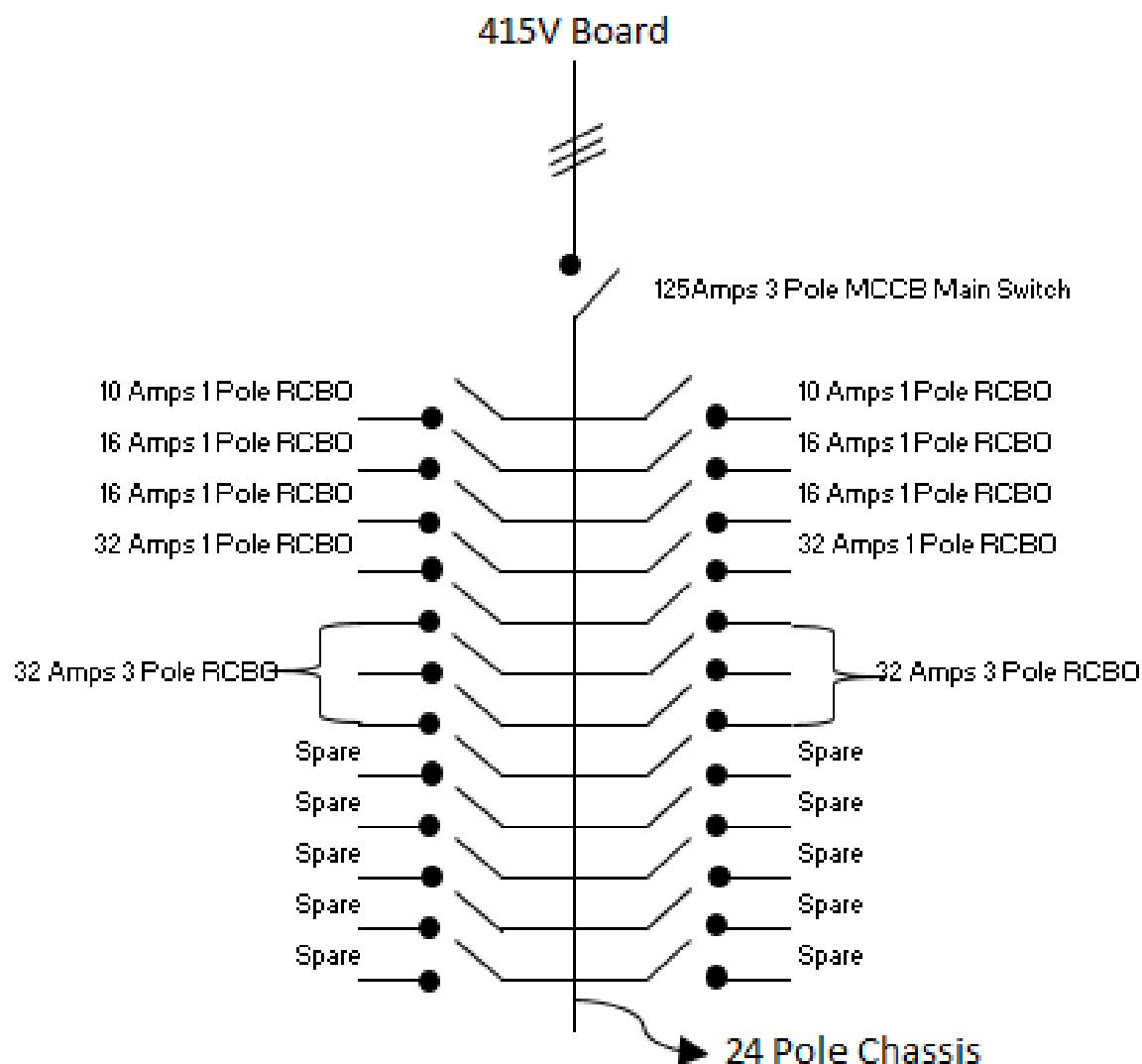
Note: These RCBO Circuit breakers are to be fitted onto chassis

Specification	Type	Phases		Total
Circuit Breakers ratings	RCBO	3 phases qty	1 Phase qty	
10Amps			2	2
16Amps			4	4
32Amps		2	2	4

Sub board dimensions



Sub board circuit layout



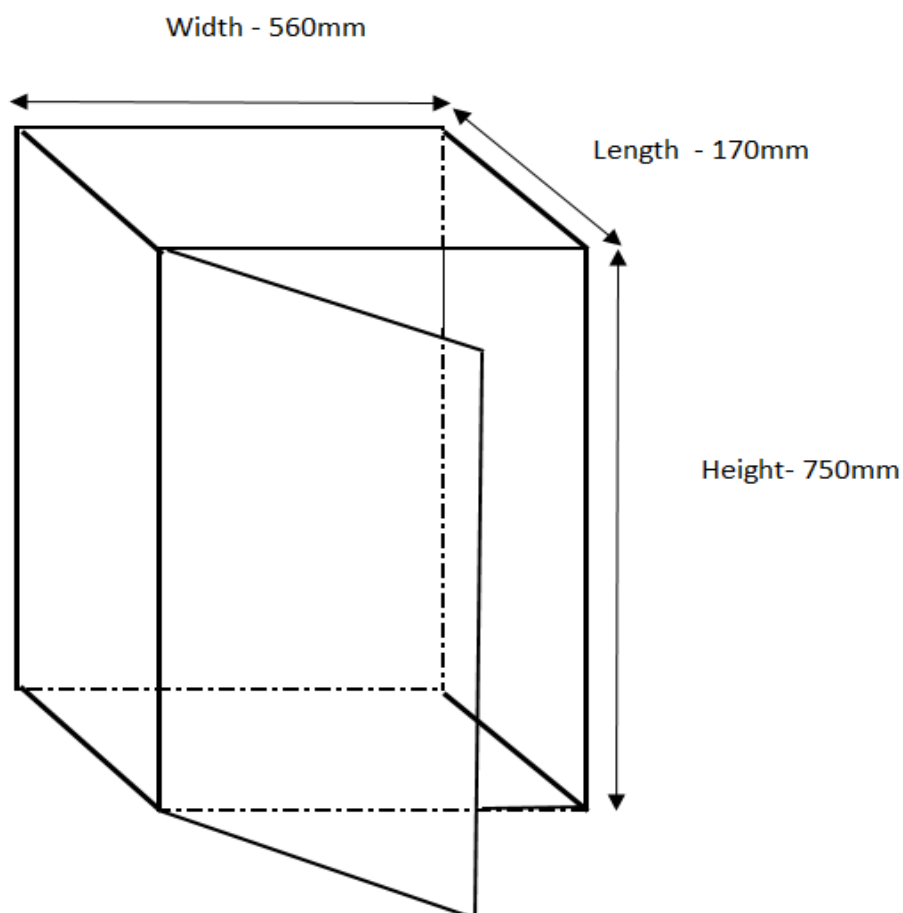
7. “BR DB – BATTERY ROOM DISTRIBUTION BOARD”- name be printed on panel door

	Specification	Requirements
1.	Length	560mm
2.	Width	170mm
3.	Height	750mm
4.	No. of Poles	36
5.	Main Switch Ratings	125Amps, Ui – 660V, I _{tn} – 125A, AC 23, 380V/415V AC
6.	Main Switch Type	MCCB 3pole
7.	Chassis	Standard – 250A
8.	Circuit breakers type	RCBO for 1 phase, 3phase
9.	Circuit breakers	To be pre-fitted on chassis

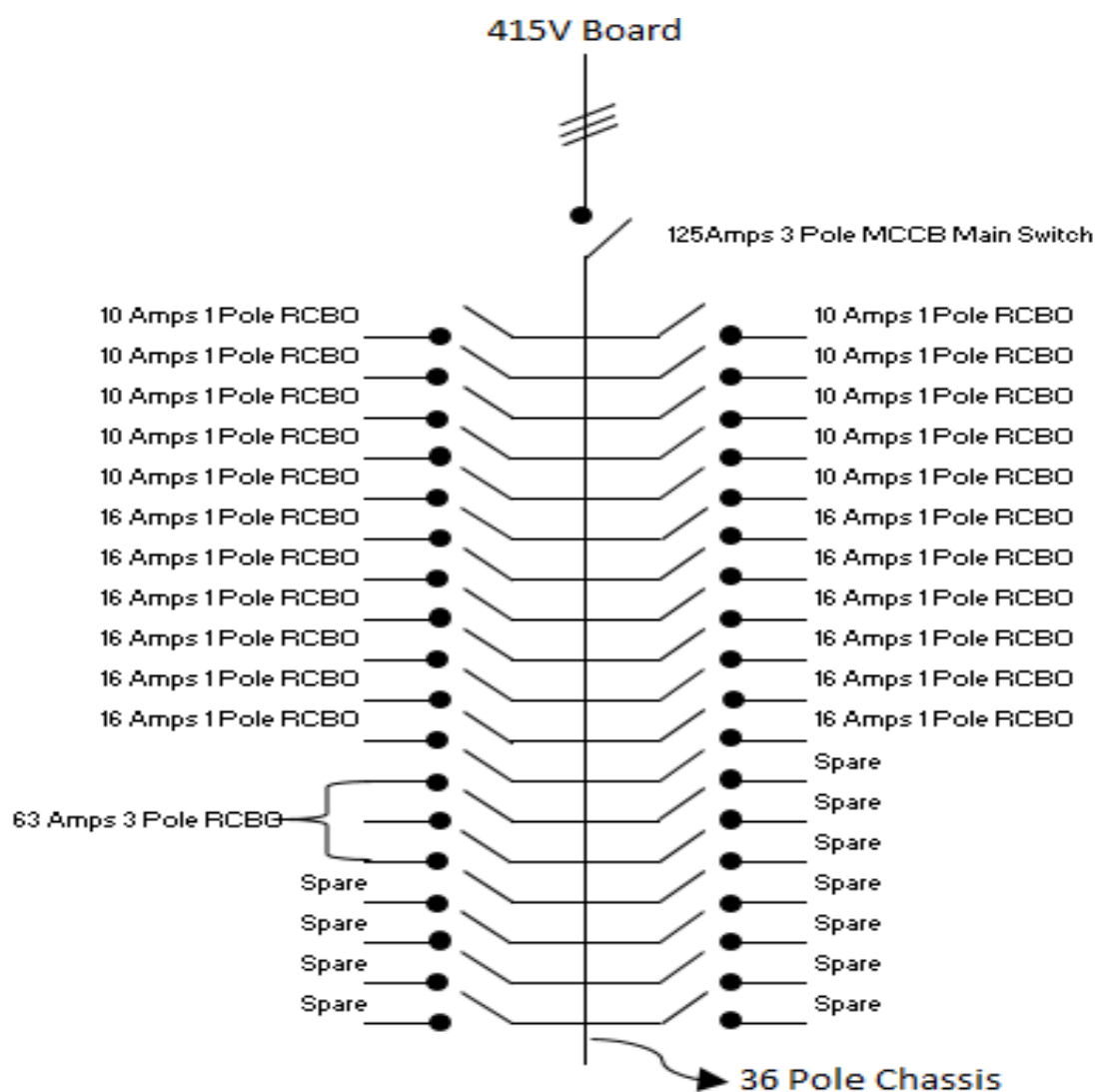
Note: These RCBO Circuit breakers are to be fitted onto chassis

Specification	Type	Phases		Total
Circuit Breakers ratings	RCBO	3 phases qty	1 Phase qty	
10Amps			10	10
16Amps			12	12
63Amps		1		1

Sub board dimensions



Sub board circuit layout



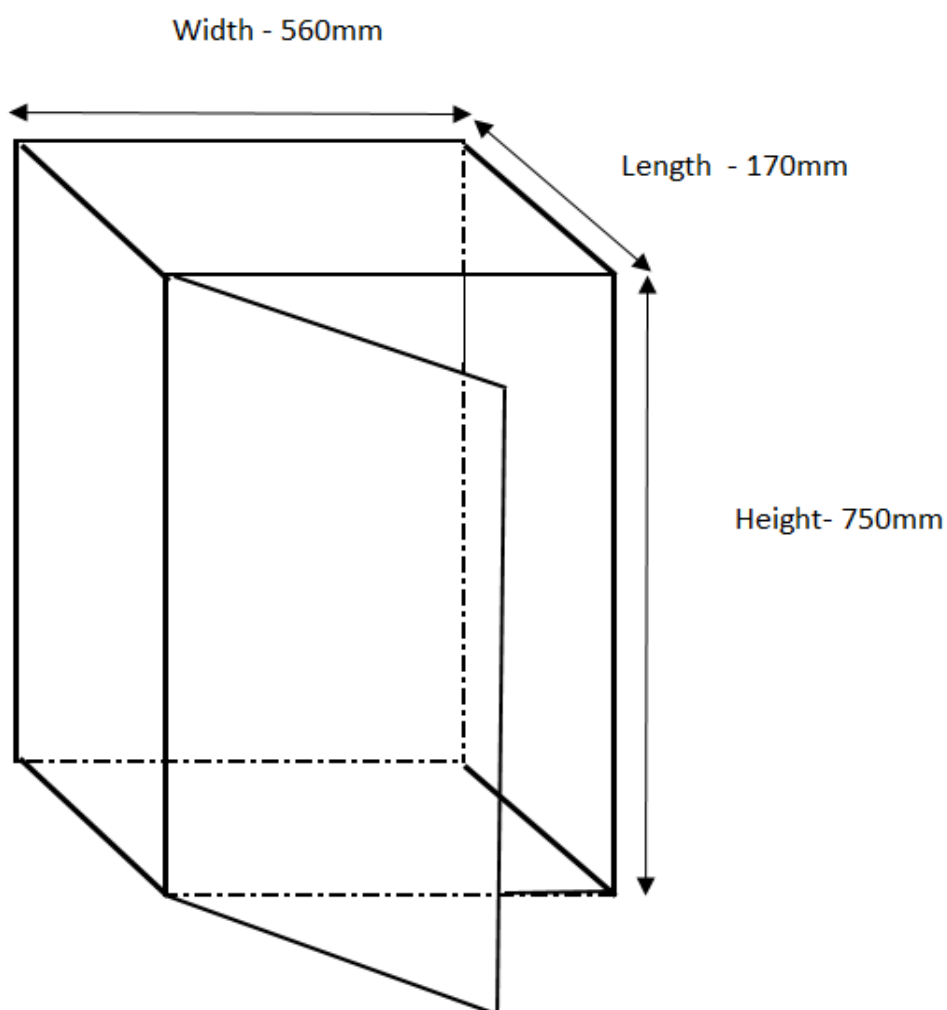
8. “EW DB – ELECTRICAL W/SHOP DISTRIBUTION BOARD”- name print on panel door

	Specification	Requirements
1.	Length	560mm
2.	Width	170mm
3.	Height	750mm
4.	No. of Poles	24
5.	Main Switch Ratings	125Amps, Ui – 660V, I _{tn} – 125A, AC 23, 380V/415V AC
6.	Main Switch Type	MCCB 3pole
7.	Chassis	Standard – 250A
8.	Circuit breakers type	RCBO for 1 phase, 3phase
9.	Circuit breakers	To be pre-fitted on chassis

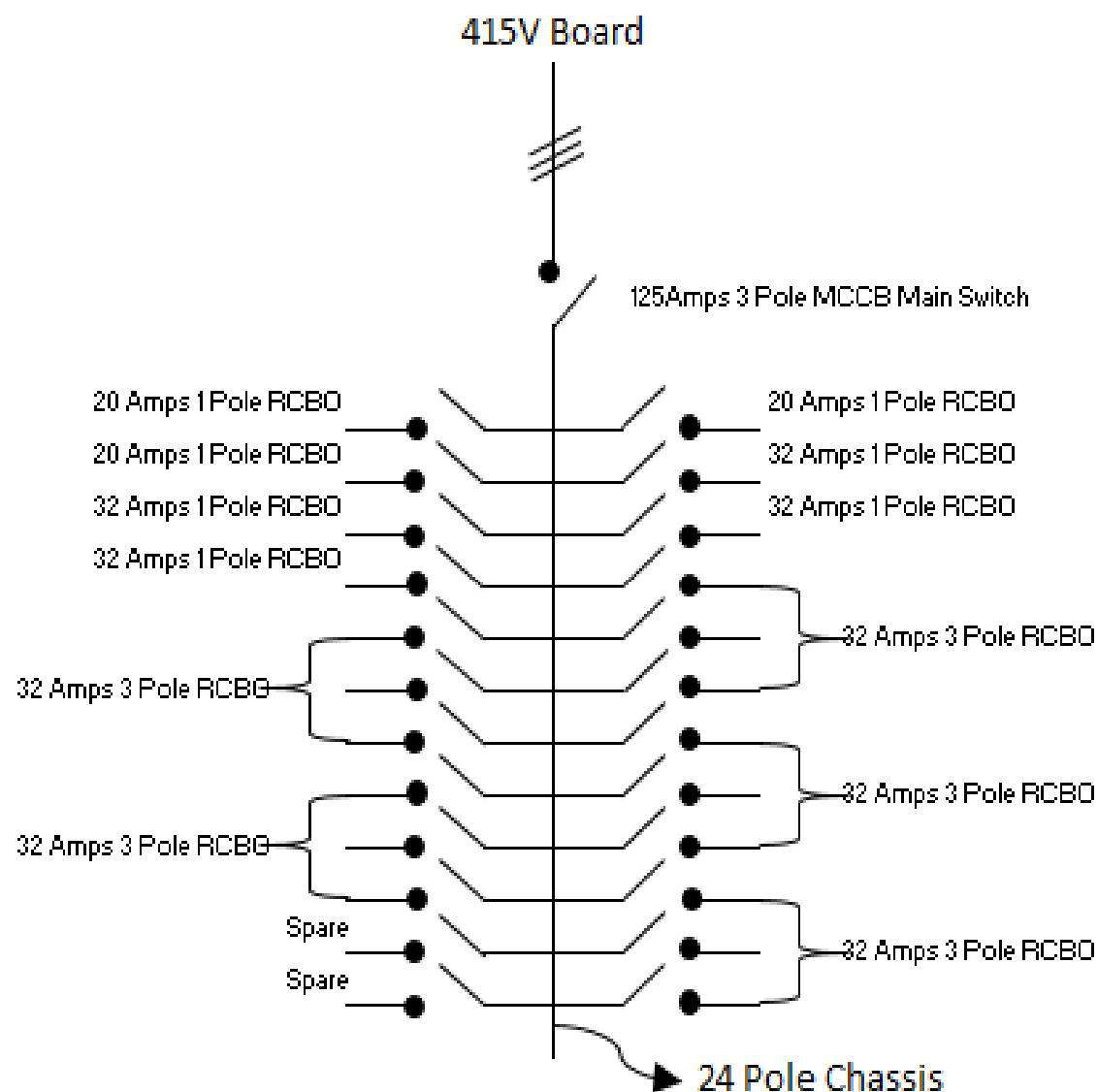
Note: These RCBO Circuit breakers are to be fitted onto chassis

Specification	Type	Phases		Total
Circuit Breakers ratings	RCBO	3 phases qty	1 Phase qty	
20Amps			3	3
32Amps		5	4	9

Sub board dimensions



Sub board circuit layout



2.1.2 TECHNICAL LITERATURE

Bidders shall furnish all technical literature, including catalogues, test certificate etc. in support of equipment offered by him with the tender.

Successful contractor shall forward 2 (two) sets of bounded hard copies of all spare parts catalogues, detailed schematic and wiring and all other documents required for satisfactory operation and maintenance of Boards and breakers. Electronic copies are also to be provided.

2.1.3 QUALITY OF MATERIALS AND WORKMANSHIP

All equipment supplied by the company under this contract shall be new and of the high quality class and most suitable for working under the conditions specified and shall withstand the variations of temperature, atmospheric conditions arising under working conditions without distortion or deterioration or the setting up of undue stresses in any part and also without affecting the strength and suitability of the various parts of the work which they have to perform.

2.1.4 STANDARDS

IEC, IEEE and AS/NZS Standard are to be adopted in general. Any other national or international standard may be used if such standards are not less exacting than corresponding IEC Standard. In such an instance a copy of the relevant standard should be forward. The work shall be in accordance with the following standards.

AS/NZS 3191	- Low voltage switchgear and control gear (all relevant parts)
IEC 60529	- Degrees of Ingressive protection.
IEC 61439-1	- Switchboard Manufacturer standard
IEC 61439-2	- Switchboard Manufacturer standard
IEC 61439-3	- Switchboard for Distribution boards standard

2.1.5 PACKING

The Sub board and accessories be carefully packed for transport and shipment in such a manner that it is protected from all dust and climatic conditions during loading, transport, unloading and subsequent storage in the open area.

2.1.6 WARRANTY

The Contractor shall provide warranty for supplied items for a Period of Twelve [12] months after delivery of the equipment.

2.2 SCHEDULE – PRICE

ITEM	ITEM DESCRIPTION	UNIT PRICE	TOTAL PRICE CURRENCY:_____
1	Manufacture and supply of Eight(8) Electrical Sub boards and associated circuit breakers for EFL Cawaira Power Station	90%	
2	Warranty of 12 Months from the Date of receiving items in good working condition	10%	
	TOTAL		

Notes:

* Please specify currency (FJD, USD, AUD, NZD)

3.0 APPENDIX

3.1 TENDER CHECKLIST

The Bidders must ensure that the details and documentation mention below must be submitted as part of their tender Bid

Tender Number _____

Tender Name _____

1. Full Company / Business Name: _____

(Attach copy of Registration Certificate)

2. Director/Owner(s): _____

3. Postal Address: _____

4. Phone Contact: _____

5. Fax Number: _____

6. Email address: _____

7. Office Location: _____

8. TIN Number: _____

**(Attach copy of the VAT/TIN Registration Certificate - Local Bidders Only
(Mandatory)**

9. FNPF Employer Registration Number: _____ **(For Local Bidders only) (Mandatory)**

10. Provide a copy of Valid FNPF Compliance Certificate (Mandatory- Local Bidders only)

11. Provide a copy of Valid FRCS (Tax) Compliance Certificate (Mandatory Local Bidders only)

12. Provide a copy of Valid FNU Compliance Certificate (Mandatory Local Bidders only)

13. Contact Person: _____

I declare that all the above information is correct.

Name: _____

Position: _____

Sign: _____

Date: _____

3.2 TENDER SUBMISSION

Bidders are requested to upload electronic copies via Tender Link by registering their interest at: <https://www.tenderlink.com/efl>

EFL will not accept any hard copy submission to be dropped in the tender box at EFL Head Office in Suva.

This tender closes at 4.00pm (1600hrs) on Wednesday 24th July, 2024.

For further information or clarification please contact our Supply Chain Office on phone (+679) 3224360 or (+679) 9992400 or email us on tenders@efl.com.fj

The bidders must ensure that their bid is inclusive of all Taxes payable under Fiji Income Tax Act. Bidders are to clearly state the percentage of VAT that is applicable to the bid prices.

The lowest bid will not necessarily be accepted as the successful bid.

The Tender Bids particularly the “Price” must be typed and not hand written.

Any request for the extension of the closing date must be addressed to EFL in writing three (3) working days prior to the tender closing date.

Tender Submission via email or fax will not be accepted.