

**Tender Notice No. SPV-CETP/JETL/ELECTRICAL PANELS/2024-25/009, Dt:
06.12.2024**

NOTICE INVITING TENDER

FOR

**SUPPLY AND COMMISSIONING OF ELECTRICAL PANELS AND ITS ACCESSORIES AS
PER THE ATTACHED LIST AT JEEDIMETLA EFFLUENT TREATMENT LTD. [JETL],
JEEDIMETLA, HYDERABAD, MEDCHAL-MALKAJGIRI DIST. – 500 055, TELANGANA,
INDIA.**

TENDER DOCUMENT

JEEDIMETLA EFFLUENT TREATMENT LTD.

Plot No.267, Phase-I, IDA, Jeedimetla, Medchal-Malkajgiri Dist., Hyderabad-500055

Ph.No.8886446201/040-23092141

Email : spvcetp@jetltd.org

Price - Rs.500/-

SUPPLY AND COMMISSIONING OF ELECTRICAL PANELS AND ITS ACCESSORIES AS PER THE ATTACHED LIST AT JEEDIMETLA EFFLUENT TREATMENT LTD. [JETL], JEEDIMETLA, HYDERABAD, MEDCHAL-MALKAJGIRI DIST. – 500 055, TELANGANA, INDIA.

PUBLISH OF TENDER	: 06.12.2024
PRE-BID MEETING DATE & TIME	: 09.12.2024 FROM 11:00 A.M. TO 4:00 P.M.
PRE-BID MEETING VENUE	: JEEDIMETLA EFFLUENT TREATMENT LTD. PLOT NO – 267, PHASE – 1, IDA, JEEDIMETLA, HYDERABAD - 500055, MEDCHAL- MALKAJGIRI DIST., TELANGANASTATE, INDIA
SUBMISSION OF QUERIES MAIL	: 10.12.2024 BEFORE 5:00 P.M. THROUGH E-
REPLY TO QUERIES MAIL	: 11.12.2024 BEFORE 5:00 P.M. THROUGH E-
DATE & TIME OF SUBMISSION OF TENDER	: 20.12.2024 BEFORE 5:00 P.M. AT JETL
DATE & TIME OF OPENING OF TENDERS	: 21.12.2024

NOTE:

1. Payment should be made online for Tender Cost. Bank details are as follows.

JETL Upgradation Project
Account No. 50200090196051,
Name of the Bank: HDFC Bank Ltd.,
Branch: Ground Floor, Bank House, Roxana Palladium,
Road No. 1, Shyam Rao Nagar, Banjara Hills,
Hyderabad, Telangana – 500034
IFSC Code: HDFC0009817

2. Sealed Tender should be submitted

1. SUBMISSION OF TENDER:

JEEDIMETLA EFFLUENT TREATMENT LTD.

Plot No.267, Phase-I, IDA, Jeedimetla, Medchal-Malkajgiri Dist.

Hyderabad-500055

Ph.No.8886446201/040-23092141

Email : spvcetp@jetltd.org

1. Name of the Tenderer:

2. Tenderer Address:

3. a. PAN No. of the Firm:

b. GST No:

4. Authorised Representative Name:

Mobile No:

C O N T E N T S

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Letter comprising of quotation for “Supply and Commissioning of Electrical Panels and its Accessories as per The attached list” at Jeedimetla Effluent Treatment Ltd. [JETL], Jeedimetla, Hyderabad, Medchal-Malkajgiri Dist. – 500 055, Telangana, India.

To,

The Executive Director
Jeedimetla Effluent Treatment Ltd.
Plot No.267, Phase-I, IDA, Jeedimetla
Medchal-Malkajgiri Dist., Hyderabad– 500 055
TELANGANA, INDIA

Dear Sir,

1. With reference to your TENDER notice dated 06.12.2024, I have examined the TENDER document and understood its contents. I hereby submit my Commercial Bid for “Supply and Commissioning of Electrical Panels and its Accessories as per the attached list “at Jeedimetla Effluent Treatment Ltd. [JETL], Plot No.267, Phase-I, IDA, Jeedimetla, Medchal-Malkajgiri Dist., Hyderabad – 500 055, Telangana, INDIA.
2. The Application is unconditional for the said Tender. This bid is valid for a period not less than 30 days.
3. It is acknowledged that the Authority will be relying on the information provided in the tender and the documents accompanying such tender for qualification of the bidders for the above subject project, and we certify that all information provided in the tender and in Annexures is true and correct nothing has been misrepresented and omitted which renders such information misleading and all documents accompanying the bid are true copies of their respective originals.
4. This statement is made for the express purpose of the above-mentioned subject.
5. We shall make available to the Authority any additional information it may find necessary or require to supplement or authenticate the Qualification statement.
6. We acknowledge the right of the Authority to reject our bid without assigning any reason or otherwise and hereby relinquish, to the fullest extent permitted by applicable law, our right to challenge the same on any account whatsoever.
7. It is declared that:
 - (a) We have examined and have no reservations to the Tender document.
 - (b) We have not directly or indirectly or through an agent engaged or indulged in any corrupt practice, fraudulent practice, coercive practice, undesirable practice or restrictive practice in respect of any Bid or request for proposal issued by or any agreement entered into with the Authority or any other public sector enterprise or any government, Central or State.
8. It is understood that the JETL may cancel the Bidding Process at any time without incurring any liability to the JETL and that you are neither bound to invite the applicants to Bid for the Project nor to accept any bid that you may receive.

9. It is certified that we have not been convicted by a Court of Law or indicted or adverse orders passed by a regulatory authority which could cast a doubt on our ability to undertake the Project or which relates to a grave offence that outrages the moral sense of the community.
10. It is further certified that no investigation by any regulatory agency is pending against us.
11. We hereby irrevocably relinquish any right or remedy which we may have at any stage at law or howsoever otherwise arising to challenge or question any decision taken by the Authority in connection with the selection of bidders, selection of the Tenderer, or in connection with the selection/Bidding Process itself, in respect of the above-mentioned Project and the terms and implementation thereof.
12. We agree to undertake to abide by all the terms and conditions of the TENDER document.
13. We agree to undertake to be liable for all the obligations of the Tenderer under the agreement. In witness thereof, we submit this application under and in accordance with the terms of the TENDER document.

Yours Truly

(Signature, name and designation of the Authorized Signatory)

Place: Name and seal of the Bidder/Lead Member

JETL, Hyderabad invites sealed tenders from potential and reputed manufacturers, companies authorized for the “Supply of Electrical Panels and its Accessories as per the attached list” at Jeedimetla Effluent Treatment Ltd. [JETL], Jeedimetla, Hyderabad, Medchal-Malkajgiri Dist. – 500 055, Telangana, India.

S.No.	Name of Work	Tender Cost
1	SUPPLY AND COMMISSIONING OF ELECTRICAL PANELS AND ITS ACCESSORIES AS PER THE ATTACHED LIST AT JEEDIMETLA EFFLUENT TREATMENT LTD. [JETL], JEEDIMETLA, HYDERABAD, MEDCHAL-MALKAJGIRI DIST. – 500 055, TELANGANA, INDIA.	Rs.500/- (Rupees Five Hundred only)

Note:

1. Publish of Tender: 06.12.2024
2. Last Date & Time for submission of Tenders: 20.12.2024 at 5:00PM.
3. Opening of Tender: 21.12.2024
4. Tender Cost **Rs. 500/-** (Non-refundable) to be submitted in the form of DD / Online in favour of Jeedimetla Effluent Treatment Ltd., Payable at Hyderabad.
5. Period of Supply: Within 6 Weeks from date of entering into an agreement
6. JETL reserves the right to reject or accept the tender in part or in full without assigning any reason.
7. JETL have sole discretion can postpone/ advance or cancel the tender.
8. The dates mentioned above by any reason falls on holiday the next working day shall be considered.

-Sd/-

EXECUTIVE DIRECTOR

JEEDIMETLA EFFLUENT TREATMENT LTD.

Plot No.267, Phase-I, IDA, Jeedimetla, Medchal-Malkajgiri Dist., Hyderabad-500055

Ph.No.8886446201/040-23092141

Email : spvcetp@jetltd.org

Schedule – 1

General Terms & Conditions:

1.0 PREFACE:

1.1 The Jeedimetla Effluent Treatment Ltd. (JETL), Hyderabad invites tender for “Supply and Commissioning of Electrical Panels and its Accessories as per the attached list” at Jeedimetla Effluent Treatment Ltd. [JETL], Jeedimetla, Hyderabad, Medchal-Malkajgiri Dist. – 500 055 from the reputed and long-standing Manufacturers / Importers /authorized distributors / dealers etc.

1.2 The Executive Director, JETL, reserves the right to accept or reject any or all the tenders in full or part thereof, which in his opinion, justifies such action, without further explanation to the Tenderer.

2.0. Definition of Terms:

In the contract documents as here in defined where the context so admits, the following words and expressions will have the following meanings:

- 2.1 JETL shall mean Jeedimetla Effluent Treatment Limited or their duly authorized representatives.
- 2.2 Officer-in-Charge shall mean the in-charge officer at the plant or his representative.
- 2.3 Purchaser shall mean JETL.
- 2.4 Tenderer shall mean the firm/party/individual/manufacture/supplier who quotes against this enquiry.
- 2.5 Contract price mean the price referred to in against the corresponding item quoted.
- 2.6 Notice in writing or ‘Writing notice’ shall mean a notice in written typed and printed characters sent (unless delivered personally or otherwise proved to have been received) by registered post to the last known private or business address or registered office of the address and shall be deemed to have been received when in the ordinary course of post it would have been delivered.
- 2.7 “This Contract” shall mean the Articles of Agreement, the conditions, the Appendix, the Schedule of Quantities and / or specification attached hereto and duly signed.
- 2.8 The “Site” means the areas on which the permanent works are to be executed or carried out and any other places provided by the JETL for purpose of the Contract.
- 2.9 Month shall mean Calendar month.
- 2.10 “The Tenderer” shall mean the successful Tenderer to whom an order of supply is issued by the JETL.
- 2.11 “The Supply” shall mean the supply to be made in accordance with the Contract or part thereof as the case may be and shall include extra, additional, altered or substituted supply as required for purpose of the contract.
- 2.12 “The Make” shall mean the original company from where the particular material has been originated and manufactured.
- 2.13 “The Quantity” shall mean the units in Numbers/Length/Weight, the equipment is measured.

- 2.14 "The Specification" shall mean the various technical specifications attached and referred to in the tender documents. It shall also include the latest editions including all addenda/corrigenda, of relevant Indian Standard Specifications, specification of any other country published before entering into contract.
- 2.15 The "Completion Certificate" shall mean the Certificate to be issued by the Officer in-Charge after due inspection in respect of quantity, quality, make and specifications of the spares supplied by the Tenderer.
- 2.16 The "Period of Liability" in relation to spares equipment the specificised period from the date of supply and to the end of warranty period during which the Tenderer stands responsible for replacement of the defect spare.

3.0 Submission of Tender:

3.1 Tenders must be submitted at JETL. Reservations, if any, regarding the tender conditions and schedule of rates should be clearly brought in a separate letter.

3.2 Addenda/Corrigenda to this tender, documents, if issued, must be signed and submitted along with the Tender document. The Tenderer should write clearly the revised quantities in schedule of rates of tender document and should price the supply based on revised quantities when amendments for quantities are issued in addenda.

3.3 Covering letter along with its enclosures accompanying the tender document and all further correspondence shall be submitted in duplicate.

3.4 The Tenders, as submitted, will consist of the following:

- i. Complete set of tender documents downloaded from JETL website duly filled in and signed by the Tenderer as prescribed in different clauses of the tender documents.

3.5 All Pages to be signed in Tender documents, shall be a dated as well as all the pages of all sections of tender documents shall initiated at the lower left-hand corner and signed wherever required in the tender papers by the Tenderer or Authorized Representative.

3.6 Rates to be in figures and words. The Tenderer should quote in English both in figures as well as in words, the rates and amounts tendered by him in the schedule of rates for each item and in such a way that insertion is not possible. The amount for each item should be worked out and entered and requisite total given of all items both in figures and words. The tendered amount for the supply shall be entered in the tender and duly signed by the Tenderer.

3.7 Corrections & Erasures:

All corrections, and alterations in the entries of tender papers will be signed in full by the Tenderer with date. No erasures or over-writings are permissible.

3.8 Tenderers should state in their offers the address to which the orders, notices and correspondence relating to the tender are to be sent. Any change of address should be notified to Jeedimetla Effluent Treatment Limited, and correspondence thereafter will be done with the state address.

3.9 The acceptance of tender and award of purchase order to one or more than one Tenderer if considered necessary will rest with the JETL who does not bind himself to accept the lowest tender. JETL reserves the right to reject any or all the offers received without assigning any reasons and no explanation can be demanded of the cause of rejection of his tender by any tenderer.

3.10 The tender documents in which tender submitted by a Tenderer shall become the property of the JETL and the JETL shall have no obligation to return the same to the tenderer.

3.11 Tenderer shall write all rates both in figures and words. In case of any discrepancy rate in words will be taken as true rate.

3.12 For any clarification regarding the tender or nature or scope of work, the office of JETL, Hyderabad may be contacted during office hours between 10 am to 5 pm on any working day.

3.13 Negligence of the bidder in preparing bid confers no right to withdraw the bid after it was opened.

4.0 Transfer of Tender Document:

Transfer of tender documents purchased by one intending tenderer to another is not permissible.

5.0 Price:

5.1 Price offered by the tenderer should be firm and free from escalations. The prices offered should be valid for a period of **30 days** from the date of tender opening.

5.2 Price should quote inclusive of transportation charges to JETL, Jeedimetla, Medchal-Malkajgiri dist., Hyderabad, Telangana State, INDIA.

5.3 Price Quoted should be Exclusive of GST.

6.0 Liquidated Damages:

6.1 If the Tenderer fails to deliver any or all of the Goods within the time period specified in the contract, the purchaser shall, without prejudice to its other remedies under the contract, deduct from the contract price, as liquidated damages, a sum equivalent to:

6.2 1% value of the undelivered portion of the supply/ incomplete supply for each week of delay beyond the scheduled delivery date.

6.3 The total amount so deducted shall not exceed 5% of the work order value. Once the maximum is reached, the purchaser may consider termination of the contract.

6.4 Any incremental taxes and levies on account of delay in performance of the supply by the Tenderer shall be to the Tenderer's account.

7.0 Termination:

7.1 The purchaser may without prejudice to any other remedy for breach of purchase order by written notice of default sent to the Tenderer, terminate the order in whole or in part:

7.2 If the Tenderer fails to deliver any or all of the goods within the time period specified in the contract or any extension thereof granted by the purchaser.

7.3 If the Tenderer fails to perform any other obligation under the contract.

7.4 In the event the purchaser terminates the contract in whole or in part, the purchaser may procure, upon such terms and in such manner as it deemed appropriate, goods similar to those undelivered, and the Tenderer shall be liable to the purchaser for any excess costs for such similar goods. However, the supplier shall continue performance of the contract to the extent not terminated.

7.5 Consequent to such termination of Purchase order, the purchaser shall recover the advance paid, if any, to the Tenderer along with the interest @18% per annum compounded quarterly on the last day of March, June, September and December on the advance paid for the entire period for which the advance was retained by supplier.

7.6 The purchaser may at any time terminate the contract by giving written notice to the Tenderer, without compensation to the Tenderer, if:

7.7 The Tenderer becomes bankrupt or otherwise insolvent.

7.8 The Tenderer being a company is wound up voluntarily by the order of a court receiver or a Manager appointed on behalf of the debenture holders or circumstances shall have arisen which entitle the court or debenture holders to appoint a receiver or a Manager.

8.0 Force Majeure:

8.1 For the purpose of this clause, "Force Majeure" means an event beyond the control of the Tenderer and not involving the Tenderer's fault or negligence and not foreseeable. Such events may include, but are not restricted to, acts of the Federation either in its sovereign or contractual capacity, wars or revolutions, fires floods, epidemics, riots, terrorism and all acts of God.

8.2 If a Force Majeure situation arises, the Tenderer shall promptly notify the purchaser in writing of such condition and the cause thereof. Unless otherwise directed by the purchase in writing, the Tenderer shall continue to perform its obligation under the contract as far as is reasonably practical, and shall seek all reasonable alternative means for performance not prevented by the Force Majeure event.

9.0 Eligibility Criteria:

S. No.	Description
1	The supplier should be in this business for minimum 3 years
2	The supplier should have annual turnover of minimum Rs.1.0 Cr in any one year in last 3 years

10.0 Terms of Payment:

The terms of payment applicable to the supply will be as Stated below:

- After receipt of all the material as per the Tender Document and invoice, 90% payment will be released within 15 days' period.
- Balance 10% after satisfactory commissioning, will be released within 15 days' period.

11.0 Supply Period:

Total supply period within 6 weeks from date of entering into an agreement.

12.0 Warrantee:

- The Tenderer should give Company warrantee for the period of 12 months from the date of commissioning or 18 months from the date of supply whichever is earlier.

13.0 Jurisdiction Clause:

Any legal dispute arising out of the resultant contract will be subject to the jurisdiction of the Hyderabad & Secunderabad Courts, if the same cannot be resolved by mutual consent.

Schedule-II

1.0 Special Conditions:

- i. The MAKES & Specifications mentioned against each item in the price schedule is to be strictly adhered. If any spurious material is received the Tenderer will be blacklisted and the same would be circulated in all the Govt. departments.
- ii. On insistence the Tenderer should submit the proof of source of procurement of materials in order to prove genuinity.
- iii. If the Tenderer is a dealer /distributor of the materials he should submit copy of the dealership /distributorship certificate issued by the manufacturers.
- iv. The tenderer has to participate fully in the tender.
- v. The Tenderer should accept for third party inspections appointed by the JETL.
- vi. The Successful Tenderer will be issued LOI for the contract.

Schedule-III

SUPPLY AND COMMISSIONING OF ELECTRICAL PANELS AND ITS ACCESSORIES AS PER THE ATTACHED LIST AT JEEDIMETLA EFFLUENT TREATMENT LTD. [JETL], JEEDIMETLA, HYDERABAD, MEDCHAL-MALKAJGIRI DIST. – 500 055, TELANGANA, INDIA FROM THE REPUTED AND LONG-STANDING MANUFACTURERS / IMPORTERS /AUTHORIZED DISTRIBUTORS / DEALERS

TECHNICAL SPECIFICATIONS	
SYSTEM PARAMETERS	
Ambient temperature for design (Deg. C)	: 45 Deg \pm 5 Deg.
Main System/Frequency	: 3-Phase, 4-Wire AC, 50 \pm 5% Hz.
Rated operational voltage	: 415 \pm 10% V AC
Dry Frequency withstand voltage	: 2.5 Kv/1Min.
Neutral system	: Solidly Earthed
Fault Level	: 50kA/1sec
CONSTRUCTION	
Type of switchboard	: Form 3B
Installation Location	: Indoor
Mounting	: Floor
Lifting Arrangement	: L-Angle
Additional base channel for embedment in foundation	: 75mm Base Channel
Front access	: Yes, Hinged door
Rear access	: Yes
Future extension	: Yes, Both Ends.
Alignment with existing board	:NA.
Recommended clearance Required at front and rear	: 1000mm for Front & 1000mm Rear side.
Degree of protection for enclosure	: IP42
Sheet steel thickness of various parts	
Frame	: 2mm CRCA
Doors	: 2mm CRCA for Above 500mm
Doors	: 1.6mm CRCA for Below 500mm
Covers	: 1.6mm CRCA
Partitions	: 1.6mm CRCA
Gland Plate	: 2.5mm CRCA
Dimensions	: Refer GA Drawing
PAINTING	
Procedure	: Seven Tank Process
Material	: Powder Coating
Shade inside	: IS: 631
Shade outside	: IS: 631
Powder Coating Thickness	: 70 - 100 Microns
Lifting Angle	: Orange

Base Channel	: Black
MAIN HORIZONTAL BUSBAR	
System	: 3 Ph. 4W L1,L2,L3
Material	: Aluminum grade (E91E)
Color Coding	: L1 RED, L2 YELLOW, L3 BLUE
Main Busbar	: 1Rx30x10mm/Ph
NEUTRAL BUSBAR	
Material	: Aluminum grade (E91E)
Rated Current/ Size	: 100% of Phase Busbar
Color Coding	: LN- BLACK
Neutral Busbar	: 1Rx30x10mm/N
EARTH BUSBAR	
Material	: Aluminum grade (E91E)
Rated Current/ Size	: 1RX50X10mm
Color Coding	: Green
Insulators	: DMC/SMC/FRP
VERTICAL BUSBAR	
System	: 3 Ph. 4W L1,L2,L3,N
Material	: Aluminum grade (E91E)- 1RX50X10mm
Rated Current/ Size	: 80% on Full Load.
Color Coding	: L1 RED, L2 YELLOW, L3 BLUE, N BLACK
Insulators	: DMC/SMC/FRP
BUSBAR TIGHTNING TORQUE DETAILS (Zinc Passivated)	
M8 Bolt Size	: 13.2-19.8 (N-m) / Class of Bolt 4.6/4.8
M10 Bolt Size	: 26.3-39.5 (N-m) / Class of Bolt 4.6/4.8
M12 Bolt Size	: 71-80 (N-m) / Class of Bolt 8.8
AUXILIARY SUPPLY	
Control Supply	
Voltage	: 230VAC
Source for above	: Internal
AUXILIARY WIRING	
Make	: RR/POLYCAB/LAPP
Color	: Grey
Insulation grade	: 1100V GRADE PVC INSULATED
CT Circuit	: 2.5Sqmm RED/YELLOW/BLUE/BLACK
PT Circuit	: 1.5Sqmm RED/YELLOW/BLUE/BLACK
Circuit identification	: PVC Ferrules at Terminations
Door Earthing	: 2.5 Sqmm Green
Auxiliary Circuit for AC	: 1.0Sqmm Grey with White Ferrules

POWER WIRING	
Make	: RR/POLYCAB/LAPP
Color	: Copper Black Cable with Coloured Tapes for
	L1= Red,L2= Yellow, L3= Blue, NL= Black
Insulation grade	: 1100V GRADE PVC INSULATED
Upto 16A Rating Feeders/5HP DOL	: 2.5Sq.mm
16-20A Rating Feeders/7.5-10HP DOL	: 4Sq.mm
21-32A Rating Feeders/12.5-20HP DOL	: 6Sq.mm
33-50A Rating Feeders/25-30HP DOL	: 10Sq.mm
50-63A Rating Feeders/40HP DOL	: 16Sq.mm
100A Rating Feeders	: 25Sq.mm
125A Rating Feeders	: 35Sq.mm
160A Rating Feeders	: 50Sq.mm
TERMINAL DETAILS	
Make	: Phoenix/Connectwell (Make as per BOQ)
CT, PT Terminals	: 6.0 SQ.mm Connectwell.
Control Terminals	: 2.5 SQ.mm Phoenix.
Power Terminals	
Upto 16A Rating Feeders	: 4Sq.mm
16-25A Rating Feeders	: 6Sq.mm
32-45A Rating Feeders	: 10Sq.mm
45-63A Rating Feeders	: 35Sq.mm
63-80A Rating Feeders	: 35Sq.mm
100A Rating Feeders	: Al Bus Links.
125A Rating Feeders	: Al Bus Links.
TERMINATION ARRANGMENT	
Cables	: Top
Gland Plate	: Undrilled
Lugs & Gland (Power Cable)	: Clients Scope
Circuit identification	: PVC Ferrules at Terminations
NAME PLATE	
Name	: Gravoply-Engraving Material
Colour of lettering	: White letters on Black background
Size of lettering/Name	: As Required.
Identification of equipments mounted inside panel	: As Per Drawing
Feeder Name	: On front door
ADDITIONAL POINTS	
All doors including cable alley door shall be earthed through flexible copper braid.	
Polycarbonate sheets to be provided at MCCB Busbar Arrangement.	
Board Name Plates shall be provided on front side of the panel.	
Neoprene Gasket shall be provided for doors & removable bolted covers.	

Extension link shall be provided in cable alley.
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Danger mark shall be provided at both end.
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Caution Sticker: Caution Live Terminals: shall be provided at all points where the terminals are likely to remain live and isolation is possible only at remote end, i.e. incomer to switchgear.
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REQUIREMENTS ARE ATTACHED AS ANNEXURE - I

PRICE SCHEDULE

SUPPLY AND COMMISSIONING OF ELECTRICAL PANELS AND ITS ACCESSORIES AS PER THE ATTACHED LIST AT JEEDIMETLA EFFLUENT TREATMENT LTD. [JETL], JEEDIMETLA, HYDERABAD, MEDCHAL-MALKAJGIRI DIST. – 500 055, TELANGANA, INDIA FROM THE REPUTED AND LONG-STANDING MANUFACTURERS / IMPORTERS /AUTHORIZED DISTRIBUTORS / DEALERS

S.NO.	DESCRIPTION	QTY.	UNIT	PRICE, Rs.		TOTAL AMOUNT Rs.	
				In Figures	In words	In Figures	In words
A	11KV 800A 26.3KA Outdoor Type bare Porcelain Clad Vacuum Circuit Breaker (VCB) with motor operated spring charging mechanism along with CT mounting Structure, cables and accessories including erection & commissioning Make: L&T / ABB	1	Set				
B	Bus duct with Outdoor Enclosure of 3mtrs long suitable for 1000 KVA Transformer to Outdoor Kiosk [2000 Amps Breaker Panel] Busduct Type - Air Insulated, System Voltage - 415 V, Frequency - 50HZ, Rated Current - 2000Amps, Enclosure - 2mm AL/CRCA Sheet, Degree of Protection - IP55, Painting Colour - Interior - Black Mat Paint, Exterior - RAL:7032/7035, Busbar-Blackmat Paint, Busbar Material -	1	Set				

	Electrolytic Grade AL E91E, Current Density - 0.65A/SQ.MM, Insulators - FRP/DMC/EPOXY, Hardware- Nickel Coated						
C	Manual Draw Out type (MDO), (U Power), SPD with MCCB, 65KA, LSIG protection, UW-MTX1.5G Release Make: L&T / ABB	1	Set				
D	POWER CONTROL CENTER [PCC]	1	Set				
E	APFC Panel (375 KVAR) WITH 16 STAGE POWER FACTOR CONTROLLER	1	Set				
F	MCC FOR LAMELLA CLARIFIER	1	Set				
G	MCC FOR SCREW PRESS	1	Set				
H	MCC FOR BDN	1	Set				
	TOTAL AMOUNT						

TECHNICAL SPECIFICATIONS FOR PCC & MCC PANELS

A	11KV 800A 26.3KA Outdoor Type bare Porcelain Clad Vacuum Circuit Breaker (VCB) with motor operated spring charging mechanism along with CT mounting Structure, cables and accessories including erection & commissioning Make: L&T / ABB	1 SET
B	Bus duct with Outdoor Enclosure of 3mtrs long suitable for 1000 KVA Transformer to Outdoor Kiosk [2000 Amps Breaker Panel] Busduct Type - Air Insulated, System Voltage - 415 V, Frequency - 50HZ, Rated Current - 2000Amps, Enclosure - 2mm AL/CRCA Sheet, Degree of Protection - IP55, Painting Colour - Interior - Black Mat Paint, Exterior - RAL:7032/7035, Busbar-Blackmat Paint, Busbar Material - Electrolytic Grade AL E91E, Current Density - 0.65A/SQ.MM, Insulators - FRP/DMC/EPOXY, Hardware- Nickl Coated	1 SET
C	Outdoor Panel with Breaker : 2000Amps 3 Pole, ACB, Manual Draw Out type (MDO), (U Power), SPD with MCCB, 65KA, LSIG protection, UW-MTX1.5G Release Make: L&T / ABB	1 SET
D	POWER CONTROL CENTER [PCC]	1 SET
S.No.	Description	Qty. [No's]
1	EB Incomer 2000 Amps, 4 Pole, ACB & DG Incomer 2000Amps 4 Pole, ACB with inter locking, Electrical Draw Out type (EDO), (U Power), SPD with MCCB, 65KA, LSIG protection, UW-MTX1.5G Release	2
2	Outgoing Feeder for MCC Panel: 1000Amps, 3 Pole ACB, Manual Draw Out type (MDO) (U Power), SPD with MCCB, 65KA, LSIG protection, UW-MTX1.5G Release	1
3	Outgoing Feeder for MCC Panel: 400Amps, 3 Pole MCCB, Breaking capacity - 36KA MCCB, LSIG protection, DN3 MTX1.0 Release	1
4	Outgoing Feeder for 350 KVAR APFC Panel: 1000Amps, 3 Pole, ACB, Manual Draw Out type (MDO) 65KA, LSIG protection, UW-MTX1.5G Release	1

5	Outgoing Feeder for Existing Power Control Center (PCC)-1, 630 Amps, 3 Pole, MCCB, Breaking Capacity - 50KA LSIG protection, DN3 MTX1.0 Release	1					
6	Outgoing Feeder: 160Amps, 3 Pole, MCCB, Breaking Capacity-36KA, DZ1 Release	1					
7	Empty Feeders suitable for 630 Amps 3 pole MCCB	2					
	(Volt meter/Amps meter/Energy meter / R, Y, B Indication lamps)						
	96 mm2 /L&T/ SELEC Digital						
	Selector switches (Amps/Volts)						
	All switch gear should be of L&T						
	Panel Cable Entry - Top						
E. APFC Panel (375 KVAR) WITH 16 STAGE POWER FACTOR CONTROLLER		1 SET					
Feeder No.	Description	QTY. [No's]			MCCB Rating	Contactor Rating	
F-1	Incommer, 1000Amps, 3 Pole, ACB, Manual Draw Out type (MDO) (U Power), SPD with MCCB, 65KA, LSIG protection, UW-MTX1.5G	1					
F-2	50 KVAR Capacitors [MCCB + Contactor](25+	4			DN2-250D, 36KA	MNX110, 240V Coil	
F-3	25 KVAR Capacitors [MCCB + Contactor]	4			DN0 -100D, 36KA	MNX70, 240 V Coil	
F-4	10 KVAR Capacitors [MCCB + Contactor]	4			DN0 -100D,36KA	MNX 32, 240V Coil	
F-5	5 KVAR Capacitors [MCCB + Contactor]	2			63A MCB, 15KA	MNX 32, 240V Coil	
F-6	25 KVAR Capacitor [MCCB Direct]	1			DN0 -100D, 36KA	Not Required	
Amps meter, Volt Meter for Incommer, Amps Meter, Auto/Manual selector switches, ON/OFF Push Buttons & LED Indication lamps to each capacitor feeder. Capacitors should be L&T & Heavy Duty. Panel Cable entry from Top, All Switch Gear : L&T							
MCC FOR LAMELLA CLARIFIER:							
S.No.	Feeder No.	Description	HP	QTY. [No's]	Starter Type	MCCB Rating	Contactor Rating
1	F-1	Incommer, 400Amps, 3 Pole, MCCB, 36KA	*	1	*		
2	F-2	MCCB + OLR + Contactor	15	2	S/D	63A MCCB, 36 KA	MNX 32, 240V Coil
3	F-3	MCB + OLR + Contactor	3	2	DOL	20A MCB, 15 KA	MNX 25, 240 V Coil
4	F-4	MCB + OLR + Contactor	5	2	DOL	20A MCB, 15 KA	MNX 25, 240 V Coil
5	F-5	MCB + OLR + Contactor	5	2	DOL	20A MCB, 15 KA	MNX 25, 240 V Coil
6	F-6	MCB + OLR + Contactor	5	2	DOL	20A MCB, 15 KA	MNX 25, 240 V Coil
7	F-7	MCB + OLR + Contactor	5	2	DOL	20A MCB, 15 KA	MNX 25, 240 V Coil
8	F-8	MCB + OLR + Contactor	3	2	DOL	20A MCB, 15 KA	MNX 25, 240 V Coil
9	F-9	MCB + OLR + Contactor	5	6	DOL	20A MCB, 15 KA	MNX 25, 240 V Coil
10	F-10	MCB + OLR + Contactor	3	2	DOL	20A MCB, 15 KA	MNX 25, 240 V Coil
11	F-11	MCB + OLR + Contactor	3	2	DOL	20A MCB, 15 KA	MNX 25, 240 V Coil
12	F-12	MCB + OLR + Contactor	3	2	DOL	20A MCB, 15 KA	MNX 25, 240 V Coil
13	F-13	MCB + OLR + Contactor	3	2	DOL	20A MCB, 15 KA	MNX 25, 240 V Coil
14	F-14	MCB + OLR + Contactor	3	2	DOL	20A MCB, 15 KA	MNX 25, 240 V Coil
15	F-15	MCB + OLR + Contactor	1	4	DOL	16A MCB, 10 KA	MNX 18, 240 V Coil

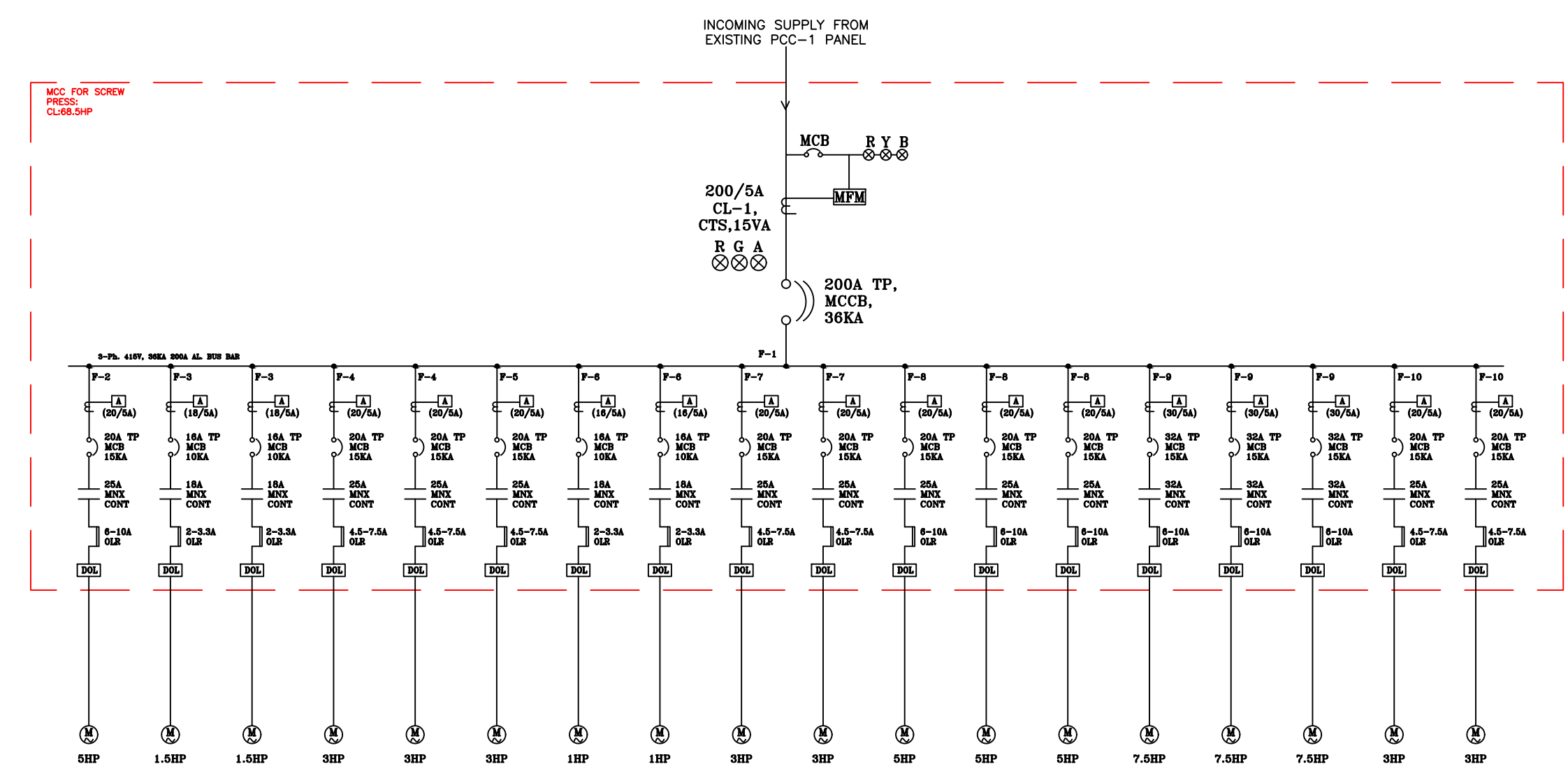
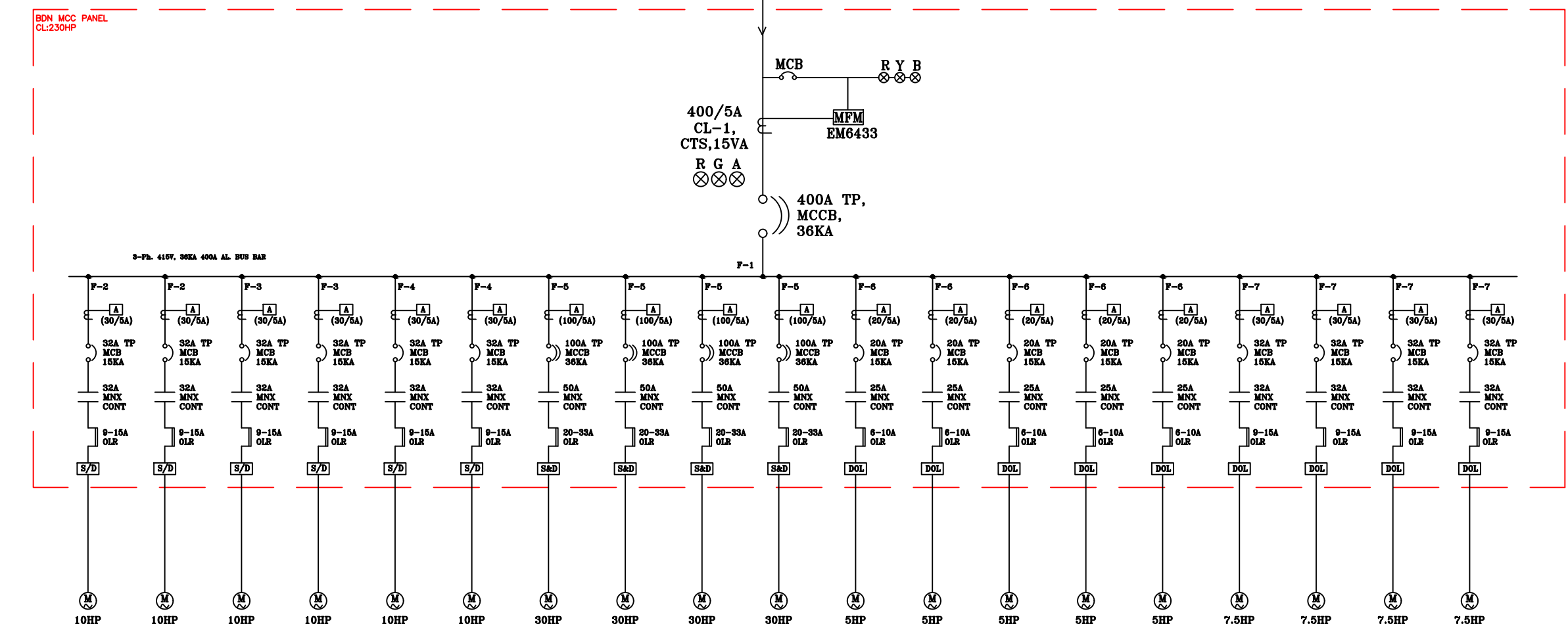
16	F-16	MCB + OLR + Contactor	1	4	DOL	16A MCB, 10 KA	MNX 18, 240 V Coil
17	F-17	10A 2P MCB	1	10	DOL	10A 2P MCB, 10 KA	Not Required
18	F-18	MCB + OLR + Contactor	1	4	DOL	16A MCB, 10 KA	MNX 18, 240 V Coil
19	F-19	MCB + OLR + Contactor	5	4	DOL	20A MCB, 15 KA	MNX 25, 240 V Coil
20	F-20	MCB + OLR + Contactor	7.5	4	DOL	32A MCB,15KA	MNX 32, 240V Coil
MCC FOR SCREW PRESS:							
S.No.	Feeder No.	Description	HP	QTY. Nos.	Starter Type	MCCB Rating	Contactor Rating
1	F-1	Incommer, 200Amps, 3 Pole, MCCB, 36KA	*	1	*		
2	F-2	MCB + OLR + Contactor	5	1	DOL	20A MCB, 15 KA	MNX 25, 240 V Coil
3	F-3	MCB + OLR + Contactor	1.5	2	DOL	16A MCB, 10 KA	MNX 18, 240 V Coil
4	F-4	MCB + OLR + Contactor	3	2	DOL	20A MCB, 15 KA	MNX 25, 240 V Coil
5	F-5	MCB + OLR + Contactor	3	1	DOL	20A MCB, 15 KA	MNX 25, 240 V Coil
6	F-6	MCB + OLR + Contactor	1	2	DOL	16A MCB, 10 KA	MNX 18, 240 V Coil
7	F-7	MCB + OLR + Contactor	3	2	DOL	20A MCB, 15 KA	MNX 25, 240 V Coil
8	F-8	MCB + OLR + Contactor	5	3	DOL	20A MCB, 15 KA	MNX 25, 240 V Coil
9	F-9	MCB + OLR + Contactor	7.5	3	DOL	32A MCB,15KA	MNX 32, 240V Coil
10	F-10	MCB + OLR + Contactor	3	2	DOL	20A MCB, 15 KA	MNX 25, 240 V Coil
MCC FOR BDN:							
S.No.	Feeder No.	Description	HP	QTY. Nos.	Starter Type	MCCB Rating	Contactor Rating
1	F-1	Incommer, 400 Amps, 3 Pole, MCCB, 36KA	*	1	*		
2	F-2	MCB + OLR + Contactor	10	2	S/D	32A MCB,15KA	MNX 32, 240V Coil
3	F-3	MCB + OLR + Contactor	10	2	S/D	32A MCB,15KA	MNX 32, 240V Coil
4	F-4	MCB + OLR + Contactor	10	2	S/D	32A MCB,15KA	MNX 32, 240V Coil
5	F-5	MCCB + OLR + Contactor	30	4	S/D	100A MCCB,36KA	MNX 50, 240V Coil
6	F-6	MCB + OLR + Contactor	5	4	DOL	20A MCB, 15 KA	MNX 25, 240 V Coil
7	F-7	MCB + OLR + Contactor	7.5	4	DOL	32A MCB,15KA	MNX 32, 240V Coil

NOTE:

1. Each DOL Starter consists of MCB with ROH, Auxilary Switch & Trip Switch, Power Contactor, 1No 1No+1Nc Add-On Block, ON/OFF/Trip Indication Lamps, Start /Stop Push Buttons & 6A 10KA DP MCB.

2. Each Star-Delta Starter consists of MCCB with ROH, 3nos. Power Contactors, 1No Overload relay, 4No+4Nc Add-on blocks, ON/OFF/Trip indication lamps, start /stop push buttons,Star delta timer & 6A 10KA DP MCB.

3. For all MCC feeders Auto / Manual control wiring is required(PLC operating purp



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