

SCHEDULE-III**TECHNICAL SPECIFICATION FOR SUPPLY OF 200 AMP. LT DISTRIBUTION KIOSK SUITABLE FOR 63/100 KVA DISTRIBUTION TRANSFORMERS AGAINST TN-2148.**

1. **INTRODUCTION:** This section describes the objective and scope of work for design, manufactured, testing and supply of LT Distribution kiosk with all accessories.
2. **OBJECTIVE:** The objective is to develop an efficient and accidental free distribution system in the jurisdiction area of Jaipur Vidyut Vitran Nigam Ltd.
3. **SCOPE OF WORK:** The scope of work shall mainly include the following:-

Design, Testing and supply of following rating of LT Kiosk with all necessary accessories.

Sr. No.	Item	Qty in Nos.
1	200 Amp. L.T. Distribution Kiosks suitable for 63/100 KVA Distribution Transformers	2800

4. **APPLICABLE STANDARDS:**

- a. IS :13947/1993 (Part 3) for Isolator (Switch Disconnecter)
- b. IS: 13947/1993 (Part2)(amended upto date) for L.T. MCCBs.
- c. IS: 8623/1993 (amended upto date) for enclosure Box & for degree of protection provided by enclosures of electrical equipments.
- d. IS:4237/1982, IS:8623/1993 (amended upto date) – for general requirement of L.T. Switchgear

5. **MANUFACTURE/CONSTRUCTION OF LT DISTRIBUTION KIOSK:-**

L.T. Distribution kiosk will have Isolator/Switch Disconnecter as incomer and single phase MCCBs & Link Disconnecter on outgoing side with necessary interconnecting Bus Bars/Links.

Standard General Arrangement of Isolator/Switch Disconnecter, MCCBs & Link disconnector, Neutral Link Bus Bars, connecting links, Cable termination arrangement etc inside the LT DISTRIBUTION KIOSK is shown in the enclosed drawing for LT Distribution kiosk suitable for 63/100 KVA Distribution Transformers.

6. INCOMER CIRCUIT

ISOLATOR (SWITCH DISCONNECTOR)

The Isolator shall be of heavy duty, quick make and quick break type with Arc Chute feature. The Isolator for 200 Amp. L.T. Distribution Kiosk should have Short Circuit rating of at least 4 kA for two seconds to withstand the short circuit fault level in our distribution system.

LT DISTRIBUTION KIOSK shall have 200 Amp rating of triple pole isolator. The bidder have to indicate makes and types of isolator and submit the complete type test report of the isolator as per specification, along with the offer and the isolator to be provided in the LT distribution KIOSK shall be conforming to our specification.

Isolator should be front operated triple pole type. No separate enclosure is required if the casing of non tracking heat resistant insulating material is provided. The isolator shall be of rebutting construction for operation. The handle of the isolator should be detachable easily for security purpose while working on L.T. lines. The characteristics of Isolator shall be as follows:-

Sr. No.	Characteristic	200 Amp. L.T. Distribution Kiosk
1	Rated Operational current	200 Amp
2	Mechanism	Manual quick make quick break
3	Standard applicable	IS:13947/1993/ IEC 60947 Pt.3 amended up-to-date
4	Utilization category	AC-23A
5	Mechanical Endurance	As per IS
6	Electrical Endurance	As per IS
7	Rate duty	Uninterrupted
8	Making/Breaking capacity	Not less than the requirement of AC-23A category.
9	Rated Short Time withstand current for two second	4 kA

The terminal connector strips of the isolator shall be projecting out of isolator for minimum length of 80 mm, on cable connection side and 60 mm, on bus bar side as

shown in the drawing. The cross section of the strips shall be 50x6 sq. mm on outside of the isolator and length & cross section inside the isolator shall be provided as per design. The material shall be EC grade tinned copper. The terminal strip shall be continuous from the point of contact separation.

All nut bolts used for assembly and connections shall be of nonmagnetic stainless steel only.

7. OUT GOING CIRCUITS:

7.1(a) MCCBs

Any make of MCCB offered by the firm will be acceptable subject to having successful type test reports.

TIME CURRENT CHARACTERISTICS:-

The L.T. MCCBs shall have the following time current characteristics:

MULTIPLE OF NORMAL CURRENT SETTING	TRIPPING TIME
1.05	More than 2.5 hrs.
1.2	More than 10 minutes and less than 2 hrs.
1.3	Less than 30 minutes
1.4	Less than 10 minutes
2.5	Less than 1 minute
4.0	Not less than 2 seconds
5.0	Less than 5 seconds
12.0	Instantaneous (less than 40 milli seconds)

For above time/current characteristics reference calibration temperature of the breaker shall be 50 degree C. Deration, if any upto 60 degree C ambient temperature shall not exceed 10 % of the current setting indicated above.

Each LT DISTRIBUTION KIOSK shall have 3 Nos. of single pole MCCBs per circuit to control and protect outgoing circuits. MCCB shall be conforming to our specification and relevant ISS.

The bidder have to indicate makes & type of MCCB and submit the complete type test reports of the MCCB as per IS:13947/1993 for test sequence I, II & III complete with certified diagram/ Oscillograms and approved drawing from NABL approved Laboratory along with offer. The successful bidder shall furnish detailed

type test reports of MCCBs to be used by them, for our approval. The colour of MCCB casing for 63/100 KVA L.T. Distribution Kiosks shall be brown . Offers without complete type test reports of MCCB as above, may be rejected.

The MCCBs shall be manually operated type and shall have quick make quick break mechanism. The detailed specification for MCCBs shall be as under:-

1.	KVA rating	63/100
2.	Rated current	200 A
3.	No. of Circuits	2 Nos.
4.	Fixed overload release setting (Amp.)	60 A/ 90 A
5.	No. of poles	1 Ph
6.	Rated service short circuit breaking capacity(KA) which is equal to ultimate breaking capacity as per IS (Ics = Icu= 18 (KA) or more). (The sequence of operation for this test shall be O-t-CO-t-CO, and t=3 min.) The test shall be done at 240V at 0.4 PF. Voltage rating phase to phase 415V and phase to earth 240V.	13947 Pt.III (1993) 18 KA or more
7.	Power factor for short circuit(Max.)	0.4 (lag)
8.	Utilization category	A

The Terminal Connector strips of the MCCB shall be projecting out of the MCCB for minimum length of 40 mm on Link Disconnecter side and 60 mm on busbar side as shown in the drawings. The cross section of the strips shall be 30x3 sq. mm on outside of the MCCB and the length and cross section inside the MCCB shall be provided as per design. The material shall be EC grade tinned copper. The terminal strip shall be continuous from the point of contact separation.

All nut bolts used for assembly and connections shall be of non-magnetic stainless steel only.

The rated service short circuit breaking capacity as specified in at Sr.No.6 above, shall be based on the rated service short circuit test carried out at specified power factors. For the purpose of this test, the following operation sequence shall be followed.

Break-3 minutes interval-make-3 minutes interval make break.

While the above stipulation regarding the test power factor and the sequence of operation shall be binding, the other procedure for making the short circuit test and circuit etc. shall generally be in accordance with the Indian standard applicable to

the type of circuit breakers under test. MCCBs should have locking facility in 'off' position.

The MCCB shall directly be purchased from the manufacturer or the authorized dealer or stockiest. The routine & acceptance test on MCCB shall be carried out at the works of original manufacturer. However, in every case of purchase of MCCB the delivery shall be from the manufacturer's godown for which a copy of bill shall be given to inspecting officer at the time of inspection.

Single pole MCCB is to be provided with over load trip release with inverse time current characteristics for overload protection and magnetic trip release for instantaneous tripping in the wake of Short-Circuits.

These MCCB's shall be confirming to IS 13947/1993 or any other relevant ISS/IEC as amended upto date. The rated un-interrupted current of MCCB shall be 200 Amp. with the overload release set at 60 A/ 90 A for 63/100 KVA Distribution Transformers.

The MCCB's shall be marked with 'Brand Name' of manufacture and Ics in KA by embossing only whereas other particulars may be marked as per the manufacturers standard practice.

The contacts of MCCB should be self-wiping type so as to keep the contacts clean and milli-volt drop low.

7.2 LINK DISCONNECTOR: Link Disconnecter of suitable capacity shall be provided between outgoing terminal of MCCB & cable connection as shown in the drawing to facilitate mechanical breaking of the circuit.

Each LT DISTRIBUTION KIOSK shall have 3 Nos. of Link Disconnectors in each outgoing circuits.

The bidder has to indicate the Makes and Types of Link Disconnecter offered.

The base of the Link Disconnecter shall be of non tracking, heat resistant insulating material of superior electrical and mechanical properties equivalent to Dough-Moulding Compound (DMC) etc. upto 200 volt for 400 Amp. The Link Disconnecter shall be sturdy in construction and easy in operation. The link of Link Disconnecter shall be of tinned plated E.C. grade copper. The construction of the Link disconnecter shall be such that it shall be hinged type on cable connection end and disconnectable at the MCCB end. The disconnection will be with the help of special handle/puller. One handle/puller shall be supplied along with each LT DISTRIBUTION KIOSK. The terminal connector strips of the Link Disconnecter shall be projecting out of Link Disconnecter for minimum length of 80 mm on cable

connection side and 40 mm on MCCB outgoing side as shown in the drawings. The cross section of the strips shall be 30x3 sq. mm and Cross section of knife edge link shall be 20x4 sq. mm. The material for both the strips and links shall be tinned E.C. grade copper.

These base of Link Disconnecter shall be rated for 150 Amp. current for 63/100 KVA.

All nut & Bolts used for assembly and connections shall be of non magnetic stainless steel only.

- 8. BUSBARS AND CONNECTIONS:** Bus Bars & inter connecting links shall be of anodized Electrolytic grade aluminum as per IS 5082. All bus bars & links should be properly drilled, de-burred and should be provided with durable PVC insulating sleeves, standard Colour code shall be used for different phases. Minimum clearance wherever shown shall be as per General Arrangement drawing attached. Other clearance shall be as per requirement of IS: 4237 amended upto date. The size of Main Bus bars and neutral bus bar of LT Distribution Kiosk shall be as below :-

Sr. No.	Rating of LT Distribution KIOSK suitable for Transformers of	Size (cross-section) of main Bus-Bar / dropper links	Size (cross-section) of neutral Bus-Bar
1	63 / 100 KVA	40 X 6 mm/ 25 x 4 mm	60 X 3 mm

- 8.1 All busbars and links should be properly drilled, de-burred and preferably brazed to minimize tearing of joints. Minimum joints preferred.
- 8.2 Busbars shall be provided with durable PVC insulating sleeves. Standards colour code shall be used for different phases.

9. ENCLOSURES:

- 9.1 The circuit breakers, Link Disconnecter and Isolator shall be housed in a sheet steel enclosure with the door closed. The enclosure shall comply with the requirement of IP-43 type as per relevant IS / IEC or the latest version thereof. Access to the circuit breakers including operating handle shall be available only after the enclosure door is opened.
- 9.2 Four sets of louvers shall be provided to ensure that the temperature inside the enclosure is not substantially different from that of the atmosphere. The louvers shall be provided with perforated M.S. sheet of 1.25 mm welded from inside the LT DISTRIBUTION KIOSK.

- 9.3 Fixing of circuit breaker inside the enclosure shall be such as to allow free circulation of air at its back and sides.
- 9.4 The centrally closed doors with "Godrej" type triple position locking arrangement shall be provided. In addition to this, an arrangement for locking the doors by Sturdy rod type door latch shall be provided on outside. Both illustrations are shown in the drawing.
- 9.5 The enclosure shall be made of sheet steel of not less than 2 mm thickness.
- 9.6 The enclosure shall be painted with suitable weather proof & corrosion resistant enamel paint after 7 Tank cleaning process both inside & outside. The colour of the inside paint shall be white, while that of the outer paint shall be brown. Powder coating followed with 7 tank hot phosphate cleaning process is equally acceptable. In case of Powder coating the colour of inside & outside surfaces shall be same i.e. brown.
- 9.7 Necessary fixing arrangement shall be provided at the back of the enclosure to ensure proper fixing on double pole structure by means of suitable clamps for 63/100 KVA L.T. Distribution Kiosks.
- 9.8 Necessary fixing arrangement shall be provided at the top of the Canopy as shown in the drawing to ensure proper fixing on double Pole structure. In addition to this two Nos. M.S. channel of size 75x40x40 shall be provided at the bottom of the enclosure as shown in the drawing for fixing the enclosure on Plinth.
- 9.9 The top of the Distribution Kiosks shall be provided with a sloping Canopy such that the rain water is not accumulated on the top. The Canopy shall be of one piece construction. The side members shall be welded at both sides. The Canopy shall project over the sides & doors. The sides section shall be folded to a "U" form to make a water drawing channel. Only front opening is required for 63/100 KVA L.T. Distribution Kiosks.
- 9.10 A suitable bimetallic cable termination arrangement with support insulators shall be provided by extending the EC gr. Tinned copper terminals of the incoming Isolator & outgoing Link Disconnecter. It shall be such that after fixing relevant cable lugs, clearances and creepages are maintained.
- 9.11 The 3.15 mm bottom plate shall be, detachable to facilitate easy crimping of lugs to the cable ends and for convenience in making connections. The plate shall be provided with holes suitable for cable sizes indicated. The bottom plate shall be provided with two air vents with perforated M.S. sheet of 1.25 mm thick welded from inside.

- 9.12 The flats provided for clamping (at top & bottom) shall have horizontal slots for adjustment & shall be of welded construction and the welding should be on all sides.
- 9.13 Required no. of knock out holes should be provided on the bottom plate. Suitable size of PVC cable glands should be provided for these holes.
- 9.14 Instruction leaflet in HINDI should be provided as sticker in the LT DISTRIBUTION KIOSK door from inside as per Nigam's specification.
- 9.15 All the knock out holes shall be of size suitable to enter single core cables having sizes as mentioned in Clause 10.
- 9.16 The Danger marking with fluorescent paint shall be provided on one door and a danger plate shall be riveted on another door, on front side.
- 9.17 The bimetallic lugs of adequate size required for termination of cables on Isolator and Link disconnecter at the incoming and outgoing terminals and neutral link shall be provided. The bimetallic lugs shall be as per enclosed specification & of Make approved by the Nigam.
- 9.18 Minimum 3 Nos. Hinges per door made of heavy duty MS Sheet of minimum length of 75 mm shall be provided from inside.
- 9.19 All joints for current carrying parts shall be made using non-magnetic stainless steel bolts, 2 nuts & spring washers. The nuts and bolts should be of hexagonal type with groove for bolt.

10. CABLE TERMINATION: Suitable lugs for Incoming and outgoing feeders for different rating of LT Distribution KIOSK as below :-

Sr. No.	Rating of LT Distribution kiosk suitable for Transformers of	Incoming cable size	Outgoing cable size
1	63 / 100 KVA	3.5 X 120 / 150 sq. mm	2 Nos 4/3.5 X 50/ 70 sq. mm

11. FINISH OF LT DISTRIBUTION KIOSKS:

- 11.1 All sheet metal works shall undergo the 7 tank chemical and mechanical cleaning process before final paint. Two coats of red oxide and two coats of final paints shall be applied. Colour of outside/inside surface shall be mentioned in this specification.
- 11.2 Electrostatic painting with oven drying will also be acceptable.
- 11.3 All other metal parts used in the LT DISTRIBUTION KIOSK's shall be treated as under.

M.S. parts such as Bolts& Nuts, washers etc. : Electro galvanizing of Zinc except for bus bar & links.

12. SAFETY ARRANGEMENTS: Two earthing studs of galvanized M.S. 50x12 mm shall be provided for external earth and internal neutral connections. These should be complete with plain washer, spring washer, nuts etc. Earthing studs must be welded to prevent removal of the same from the LT DISTRIBUTION KIOSK.

13. TESTS & TEST CERTIFICATES: The routine and acceptance tests of MCCB as per relevant IS and this specification shall be carried out at the original manufacturer's works. In case of brought out items, such as Isolator, Link Disconnecter etc., the test certificates of original manufacturer shall be produced to the inspecting officer and shall be enclosed with the inspection report.

13.1 Routine Test: (carried out on LT DISTRIBUTION KIOSK's)

- a) Overall dimensions checking
- b) High voltage test as per relevant IS.
- c) Operation test on MCCB/ Isolator /Link Disconnecter.

13.2 Acceptance Tests (on complete LT DISTRIBUTION KIOSK):

Following tests shall be carried out as acceptance tests in addition to routine tests as per sampling plan i.e. 1 no out of every lot of 50 or part thereof.

i) Insulation Resistance tests

ii) Temperature rise test on one sample of each rating : Temperature rise test will be carried out on complete LT Distribution KIOSK with all equipments & accessories mounted inside as per provision of IS : 8623 , part – I -1977.

This test shall be carried out on LT DISTRIBUTION KIOSK as well as MCCB & link Disconnecter Separately.

iii) Time-Current Characteristics: With the stabilized temperature rise as per (ii) above the MCCB should be tested for time current characteristics at 1.05 & 1.3 times of overload release setting current and should pass the requirement given in this specification.

iv) All routine test as per clause 13.1.

13.3 TYPE TESTS:

I) ON COMPLETE LT DISTRIBUTION KIOSK

- a) **Temperature rise test:** The temperature rise test should be carried out as per IS: 8623-1993.

Each feeder shall be loaded to its full capacity along with Incomer Isolator as below:

Capacity of LT DISTRIBUTION KIOSK Suitable for transformer having rating	MCCB(SP)	Isolator (SP)
63 / 100 KVA	60 / 90 Amp	200 Amp, 1 No.

- b) High voltage test as per IS:8623 amended upto date.
- c) Short Time Withstand Current Test on distribution LT DISTRIBUTION KIOSK:-The LT DISTRIBUTION KIOSK should be subjected to Short Time Withstand Current Test for value of 4 KA for two second for 63/100 KVA rating all circuit independently. The test should be carried out after by-passing MCCBs.
- d) Degree of protection for IP-43 on complete unit.
- e) Time/current characteristic test as per clause 13.2 (iii) of this specification as stated above.

II) ON ISOLATOR:

All type test on incoming Isolator as per IS-13947/ 1993 (Part-III)/ IEC 60947 amended up to date. Only test report shall be submitted.

III) ON MCCB

All type test on MCCB as per IS-13947 amended upto date. Only test reports shall be submitted.

13.4 TEST CERTIFICATES :The LT DISTRIBUTION KIOSK, Isolator and MCCB offered shall be fully type tested as per relevant IS and this specification .

The bidder must furnish type test reports alongwith bid as per the qualification requirement of the Tender Specification.

The detailed type Test Reports shall be furnished with relevant oscillogram drawings and certified Drawing of the equipment tested. The purchaser reserves the right to demand repetition of some or all type tests in presence of purchaser's representative at purchaser's cost. For this purpose, the tenderer shall quote unit rates for carrying out each Type Test.

13.5 Back up guarantee: In case the tenderer is not manufacturer of MCCB, Link Disconnecter & Isolator in that case the back up guarantee in the enclosed format for the bought out items shall be submitted from the original manufacturer of these items. The offers without back up guarantee are likely to be rejected.

14. TESTING & MANUFACTURING FACILITIES: The tenderer must clearly indicate what testing facilities are available in the works of manufacturer and whether the facilities are adequate to carry out all routine acceptance and type tests. These facilities may be verified by JVVNL Engineers or other testing agency , if deputed to carry out or witness the tests in the manufacturer's works. The tenderer must have all the in-house testing facilities to carry out the acceptance tests on the LT DISTRIBUTION KIOSK.

The tenderer should have following minimum manufacturing facilities in house to prove his reliability as a manufacturer of LT DISTRIBUTION KIOSKS.

- i) Power operated shearing machine
- ii) Power operated press brake.
- iii) Power operated power presses
- iv) Welding machines,
- v) Assembling tools

The tenderer shall furnish detailed process of painting. In case painting is to be carried out from outside agencies, the tenderer shall furnish the facilities available with the sub-contractor.

15. TENDER SAMPLE: The tenderers are required to furnish 1 No. LT DISTRIBUTION KIOSK as per JVVNL's specification along with the offer. However, the bidders who have already supplied L.T. Distribution Kiosks of rating 400 Amp. or 200 Amp. against previous tender are not required to furnish sample.

16. INSPECTION: All tests and inspection shall be made at the place of manufacturer. The manufacturer shall afford the Inspector (representing the purchaser), all reasonable facilities, without charge to satisfy him that the material is being supplied in accordance with this specification. All the equipments used in testing shall be calibrated from NABL accredited test lab & shall not be more than one year old.

17. DELAY IN DELIVERY OF INSPECTED MATERIAL AT STORE :

If the material are not delivered within 7 days at same station, 14 days for station within State and 20 days by the suppliers situated outside the State from the date of receipt of the Dispatch Instructions. Charges shall be recovered @ Half Percent per week or part thereof (for actual delay in receipt) maximum upto 3% of the Dispatch

Instructions consignment value (Ex-works). This will be in addition to Clause No.1.24 (i) of GCC

18. CTL TESTING OF MCCB:-

To ensure the quality of MCCB, routine & acceptance tests on MCCBs may be carried out at the works of original manufacturers. Besides this, dimensional checking on One No. MCCB from each lot at CTL may be carried out by braking the MCCB and matching the same with the internal drawing of type tested MCCB. Payment of the particular lot shall be released only after successful testing at CTL.

19. PAYMENT IN ABSENCE OF TYPE TEST REPORTS.

Nigam may accept the material in absence of type test report. 85% payment shall be released in absence of type test reports. In case of failure of selected sample during type testing, another sample will be selected from the material already received in stores to get it type tested as per provision of purchase order at firm's cost. In case of repeat failure in type test(s), the order of balance quantity including the quantity lying unused in the stores/ field shall be cancelled. The guarantee period of quantity already supplied & used shall be doubled and payment for used material shall be arranged after deducting 10% cost. However, Nigam may ask firm to re-offer the material after change/ modification in the material. The balance material shall be accepted only after successful type testing. The type testing charges shall be borne by firm."

SE(MM)/SPO-V/TN-2148

**BILL OF MATERIAL FOR L.T. DISTRIBUTION KIOSK FOR
63/100 KVA TRANSFORMER (JVVNL), (TN-2148)**

S.NO.	ITEM	SIZE
1	M.S. SHEET	2 MM THICK
2	SWITCH DISCONNECTOR (T.P.)	200A - 1 NO.
3	M.C.C.B. (S.P.)	200 Amp with overload release set at 60/90 A -6 NOS.
4	LINK DISCONNECTOR	150 A-6 NOS.
5	ALU. BUSBAR	40 * 6 MM
6	ALU. DROPPERS	25 * 4 MM
7	ALU. NEUTRAL BUSBAR	60 * 3 MM
8	COLOUR INSIDE / OUTSIDE IN CASE OF ENAMEL PAINT	WHITE / BROWN
	COLOUR INSIDE / OUTSIDE IN CASE OF POWDER COATED	BROWN
9	DANGER PLATE	
10	NAME PLATE	
11	FUSE PULLAR	
12	P.V.C. GLANDS	2"- 1 NO.
13	P.V.C. GLANDS	1 1/2" -2 NOS.
14	BUSBAR STIFFNER	2 NOS.

LEGENDS:-

1. M.S. SHEET FOR ENCLOSURE 2MM & BOTTOM PLATE 3.15MM THICK.
2. DANGER PLATE AS/SP.- 1 No.
3. NAME PLATE AS/ SP. – 1 No.
4. MCCB (S.P.) 200 A – 6 Nos.(63/100 KVA)
5. ISOLATOR 200 A – 1 No. (63/100 KVA).
6. LINK DISCONNECTOR 150 A – 6 Nos.(63/100 KVA)
7. Alu. BUSBAR 40x6mm.(63/100 KVA) WITH HEAT SHRINKABLE SLEEVES.
8. Alu. DROPPERS (25mm X 4mm) X 2 Set.(63/100 KVA) WITH HEAT SHRINKABLE SLEEVES.
9. Alu NEUTRAL BUS BAR 60x3mm.(63/100 KVA) OR EQUIVALENT CROSS SECTION
10. EARTHING BOLTS WITH NUT & PLAIN, SPRING WASHER (GALVANIZED) M12x50 MM – 2 Nos.
11. COLOUR – INSIDE WHITE & OUTSIDE BROWN IN CASE OF ENAMEL PAINT.
BROWN INSIDE & OUTSIDE IF POWDER COATED.

Min. Clearance

- a. 200 mm
- b. 75 mm
- c. 60 mm
- d. 95 mm

1. All dimensions are in mm.
Sheet-2/2

JAIPUR VIDYUT VITRAN NIGAM LIMITED	
TITLE	L.T. DISTRIBUTION KIOSK FOR 63/100 KVA TRANSFORMERS.

ANNEXURE -1**BACK UP GUARANTEE FOR BOUGHT OUT ITEMS FROM ORIGINAL MANUFACTURER OF MCCB/ISOLATOR/LINK DISCONNECTOR.**

To,
The Superintending Engineer(MM),
Jaipur Vidyut Vitran Nigam Ltd.,
Old Power House Premises,
Jaipur

Sub:- Supply of MCCB/ Isolator/Link Disconnecter to be provided in the L.T. Distribution LT DISTRIBUTION KIOSKS to M/s _____ against tender No. _____ due on _____.

We hereby confirm that we have agreed to supply LT MCCB/ Isolator/Link Disconnecter to M/s _____ participating against tender No. _____ & specification No. _____ of JVVNL for supply of LT DISTRIBUTION KIOSKS. Further, we also assure to extend all kinds of technical assistance, guidance, after sale service during the course of supply and during the guarantee period. The LT MCCB/ Isolator/Link Disconnecter shall be supplied to them to support the delivery quoted by them and hence we guarantee the delivery performance.

We also agree to bear the guarantee of our MCCB/ Isolator/Link Disconnecter for the items to be supplied by M/s. _____ as per Nigam's guarantee clause.

Thanking you,

Yours faithfully,

MCCB/ISOLATOR/LINK DISCONNECTOR MANUFACTURER
(SIGNED BY AUTHORIZED PERSON)