

**Two Part Bid**

**JODHPUR VIDYUT VITRAN NIGAM LIMITED
OFFICE OF THE SUPERINTENDING ENGINEER (MM&C)
NEW POWER HOUSE INDUSTRIAL AREA, JODHPUR.
TELEPHONE: 0291-2742223 / FAX:- 0291-2746539**

SPECIFICATION NO..JDVVNL/SE/MM&C/TN-1604

Tenders are hereby invited in e-tender system for purchase of 11 KV Ring Main Unit (2 LBS+ 1 VCB) are to be submitted online in electronic format on website <http://www.eproc.rajasthan.gov.in>. The details are as under-

S.No.	Name of Item	Quantity (Approx)	Estimated unit F.O.R. destination price in Rs. /No.
1.	11 KV RMU fully motorized with SCADA compatible (2 LBS + 1VCB) both side extensible with battery set and battery charger along with Potential Transformer Panel	50 Nos.	392081.00

A.	NIT No.	TN-1604
B.	Cost of Specification	Rs. 2,950.00 (Two Thousand Nine Hundred & Fifty only) For MSME: Rs. 1,475 (One Thousand Four Hundred & Seventy Five only)
C.	Processing of RISL	Rs. 1,000.00 per set (One Thousand only)
D.	Bid security	In lieu of Bid security, bidders are required to furnish Form of Bid Securing Declaration (Appendix-B) on Rajasthan Non-judicial Stamp Paper of Rs. 50/- (excluding surcharge on Stamp Paper, as per rules)
E.	Validity	120 days from the next date of opening of techno-commercial bid.
F.	Base Date for price variation	01.02.2021

The micro , small & Medium Scale Industries of Rajasthan and sick Industries , other than Small Scale Industries , whose cases are pending before the Board of Industrial and Financial Reconstruction (BIFR) shall furnish self attested documentary evidence duly attested by notary to claim the above.

IMPORTANT DATES

S.N.	Events	Date & Time	Location
1.	Last Date of downloading of tender specifications	Up to 30.03.2021 (04:00 PM)	www.idvvn.com & http://www.eproc.rajasthan.gov.in
2.	Deposit of cost of:- (i)Tender Specifications (ii) Processing fee (iii)Performa of Bid Securing Declaration	Up to 30.03.2021 (4:00 PM)	Office of Sr. A.O (Cash & CPC), JdVVNL, Jodhpur Office of SE(MM&C), JdVVNL, Jodhpur Sr.AO(MM&C), JdVVNL, Jodhpur
3.	Last Date & time of submission of electronic bid	Up to 31.03.2021 (12:00 PM)	http://www.eproc.rajasthan.gov.in
4.	Opening of Technical Bid	31.03.2021 (03:00 PM)	http://www.eproc.rajasthan.gov.in
5.	Opening of Price Bid	To be intimated separately to the qualified bidders	http://www.eproc.rajasthan.gov.in

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1. Tender documents will be made available on e-Tendering portal www.eproc.rajasthan.gov.in The bidders, in their own interest are requested to read very carefully the tender document before submitting the bid only through online on website www.eproc.rajasthan.gov.in . The bidders can download bid up to 04:00 p.m. one day prior to schedule date of opening of respective bid mentioned above documents and submit their bids online up to 12:00 p.m. on schedule of respective bid mentioned above.
2. Eligible bidders should submit their bid well in advance instead of waiting till last date, JdVVNL will not be responsible for non-submission of bids due to any website related problems.
3. The cost of Tender specification **Rs. 2950/-** (Non-Refundable) (50% for MSME of Rajasthan) to be paid by Demand Draft in Favour of the Sr. Accounts officer(Cash & CPC), JdVVNL, Jodhpur and tender processing fees **Rs. 1000/-** shall be payable by demand draft in favour of The Managing Director RISL, Jaipur (Non- Refundable). The bidders are required to deposit all these payments in the office of the SE(MM&C), JdVVNL, Jodhpur up to 4.00 PM one day prior to date of tendering otherwise their bids are liable to be rejected.
4. In lieu of Bid security, bidders are required to furnish Form of Bid Securing Declaration (**Appendix-B**) on Rajasthan Non-judicial Stamp Paper of Rs. 50/- (excluding surcharge on Stamp Paper, as per rules). Above Declaration should be furnished in favour of SUPERINTENDING ENGINEER (MM&C), JdVVNL, JODHPUR and which should be deposited to the Sr.AO(MM&C) JdVVNL, JODHPUR upto 4.00 p.m. of one WORKING day prior to schedule date of opening of technical bid and receipt of the same should be uploaded by the bidder along with the tender documents. . At the time of furnishing the form of Bid Securing Declaration, the bidder shall also furnish self attested and duly attested by Notary, the documentary evidence of SSI unit of Rajasthan or of sick unit (as applicable) along with affidavit as per schedule XI on Non-Judicial Stamp of Rs. 100/-.

SECTION-III

(TN-1604)

Technical Specification of 11 KV RMU fully motorized with SCADA compatible (2 LBS + 1VCB) both side extensible with battery set and battery charger along with Potential Transformer Panel

- 1.0 Scope of work : Design, Engineering, Manufacturing, assembly, inspection and testing before despatch, packing & forwarding and delivery at site/stores of outdoor type compact 11KV Ring Main Units SF6 with Load break Isolators for 11 KV Incoming & Out going cables and VCB for Distribution Transformer with provisions for motorization and necessary take off terminal units for SCADA automations, other accessories and auxiliaries equipments and mandatory spares, described herein and required for their satisfactory operation in various locations of the Jodhpur Vidut vitran Nigam Ltd., in following tentative quantity and combinations of load break isolators & breakers and all these units are shielded in a outdoor metal body with a dielectric media of SF6 gas/ solid state epoxy with provision of additional load break switches and circuit breakers extensible at both side:-

2.0

S.NO	COMBINATION DETAILS of RMU	NOS. REQUIRED
1	11 KV RMU fully motorized with SCADA compatible (2 LBS + 1VCB) both side extensible with battery set and battery charger along with Potential Transformer Panel	50

Nigam has right to purchase any quantity of any combination

Provision of all the RMU with necessary take off terminal units for SCADA automations.

- 1.1 The objective of the RMUs is for extremely small construction width, Compact, maintenance free, independent of climate, easy installation, operational reliability, Safe and easy to operate, minimum construction cost, minimum site work and minimum space requirement. The dimensions of a RMU shall preferably be Approx. 1000X1000X1800 mm (WXDXH).
- 1.2 The RMUs shall conform in all respects to high standards of Engineering design, workmanship and latest revisions of relevant standards at the time of offer and purchaser shall have the right to reject any material which in his judgment is not in full accordance therewith.
- 1.3 The type of the 11 KV circuit breaker shall be VCB and insulating medium for load break isolators, Earth switch, 11 KV Buses and other associated equipments should be SF6 gas / solid state epoxy confirming to relevant IS/IEC.
- 1.4 The complete RMU must be fully Type Tested including for Internal Arc Fault withstand for 20KA / 0.1 Seconds. as per latest Standard IEC 62271-100/200.
- 1.5 As the Ring Main Units will be installed mostly under existing half four pole / two pole structures, therefore RMUs having FOOT PRINTS that fits exactly underneath shall be preferred for certain specific requirements.

2.0 STANDARDS :

Unless otherwise specified elsewhere in this Specification, the RMU, Switchboard (Switchgear), Load break isolators, Instrument Transformers and other associated accessories shall conform to the latest revisions and amendments thereof of the following standards.

IEC 60 298/ IEC 62271-200/IS 12729:1988	General requirement for Metal Enclosed Switchgear
IEC62271-102/ IS 9921	Alternating current Dis-connector's (Load break isolators) and Earthing switch
IEC 62271-100/ IEC 62271-200	Specification for alternating current circuit breakers.
IEC 62271-1/ IEC 60694	Panel design, Vacuum Circuit Breakers
IEC 60044-1/IEC 60185/IS 2705:1992	Current Transformer
IEC 62271-103	High voltage switches
IEC 60273/IS :2099	Dimension of Indoor & Outdoor post insulators with voltage > 1000 Volts
IEC 60529/IS 13947(Part-1)	Degree of protection provided by enclosures for low voltage switchgear and control gear
IEC 60255	Electrical Relays
IEC 60376	Filling of SF6 Gas in RMUs

The following parts of RMU shall be type tested for Degree of protection:-

- IP 67 - tank with high voltage components.
- IP 2X - front covers of the mechanism.
- IP 3X - cable connection covers.
- IP 54 - outdoor enclosure/kiosk.

Equipment meeting with the requirements of any other authoritative standards, which ensures equal or better quality than the standard mentioned above shall also be acceptable. If the equipments, offered by the Bidder conform to other standards, salient points of difference between the standards adopted and the specific standards shall be clearly brought out in relevant schedule. In case of any difference between provisions of these standards and provisions of this specification, the provisions contained in this specification shall prevail. One Hard copy of such standards with authentic English Translations shall be furnished along with the offer.

3.0. SERVICE CONDITIONS:

All out door Equipment / material to be supplied against this specification shall be suitable for satisfactory continuous operation under tropical conditions as specified below:-

1. Maximum ambient air temperature in shade 50⁰C
2. Minimum ambient temperature in shade -2.5⁰C

3.	Maximum Relative humidity	90%
4.	Minimum Relative humidity	10%
5.	Average Annual rainfall	10-100 Cm.
6.	Maximum wind pressure (Kg. Per sq. m.)	45
7.	Height above mean sea level	< 1000 Meter
8.	Dust storms are liable to occur during the period	March to July
9.	Average number of rainy days per annum	100
10.	Isoceraunic level (days / year)	40
11.	Moderately hot and humid tropical, climate, Conductive to rust and fungus growth	Yes
12.	Seismic level (horizontal acceleration)	0.08 g

Due regard should be given to the climatic/service conditions under which the equipment is to work. Ambient temperature normally varies between -02.5°C and 50 °C, although direct sun temperature may reach 55 °C. The climate is also moderately humid and rapid variations occurs, relative humidity between 70% and 90% being frequently recorded, but these values generally correspond to the lower ambient temperatures. The equipment should also be designed to prevent ingress of vermin, accidental contact with live parts and to minimize the ingress of dust and dirt. The use of materials which may be liable to attack by termites and other insects should be avoided.

4.0 TECHNICAL PARAMETERS OF RMU:

I. 11KV Bus Bar

Type of material	: Copper
Current Carrying Capacity	: 630 Amps.
Short time rating current for 3 secs.	: 20 KA
Insulation of bus bar	: SF6/solid state epoxy
Bus bar connections	: Anti-oxide grease

II. Parameters for Switch Gear of DT and load break isolators

Type	: Metal enclosed
No of Phases	: 3
No. of poles	: 3
Rated voltage	:12 KV
Operating voltage	:11 KV(+10% to -20%)
Rated lightning impulse withstand voltage	:75 KV
Rated power frequency withstand voltage	:28 KV
Insulating medium	:SF6/Solid State epoxy.
Rated filling level for insulation	:0.5 bar/As Per IEC.
Max. permissible site altitude at the above gas pressures:	≤1000m
(The operating pressure has to be adjusted for greater altitudes)	
Rated short time current	:20 KA.
Rated short time	:3s
Rated peak withstand current	:50 KA.
Operating mechanism	: Circuit breaker with spring assisted anti reflex mechanism.

Rated current (Bus):	:630 A
Rated current Load Break Isolator:	:630 A
Rated current (breaker)	:200 A
Circuit Breaker interrupter	:Vacuum Interrupter
Rated frequency	: 50 Hz
Rated operating sequence	:O-3min- CO

Number of mechanical/Remote operations for earthing & Ring switches 1000 Nos.

Number of mechanical/ remote operations for circuit breakers 2000 Nos.

III. PRINCIPAL FEATURES:

S. No	DESCRIPTION	DT breaker
1	Circuit label	Yes
2	Mimic diagram	Yes
3	Supply voltage indication	Yes
4	Current Transformer	Yes
5	Self Powered based Microprocessor based IDMT Relay (3OC+1EF)	Yes
6	Anti-Reflexing Mechanism	Yes
7	Interlock to defeat the operation of the line side earthing when the line side isolator is ON.	Yes
8	Interlock to defeat the operation of the earthing when the breaker is in service position and is ON.	Yes
9	Local /Remote Switch	Yes
10	Breaker ON/OFF indication	Yes
11	Spring Charge indication / Spring assisted mechanism.	Yes
12	Fault Tripping indication	Yes
13	Bus bar end caps	Yes
14	Whether the SF6 gas pressure gauge indicator and filling arrangement.	Yes
15	Whether the spring assisted mechanism with operating handle for ON/OFF.	Yes
16	Whether the earth positions with arrangement for padlocking in each position and independent manual operation with mechanically operated indicator are provided	Yes
17	RMUs are provided with necessary take off terminals for SCADA automation.	Yes

IV.1 Load break switch(Isolators) :

Type : SF6/solid state epoxy load breaking and fault making.

Rated current : 630 A

Fault making capacity (KA peak min.) : 50 KA

IV.2 Earthing switch for 11 KV Line side Isolation and DT :

Rated short time current	:20 KA.
Rated short time	:3s
Rated peak withstand current	:50 KA
Interlocking facility:	1) Between 11 KV Line side isolator ‘ON’ & Earthing. 2) Between 11 KV DT side breaker on close condition & Earthing.

IV.3 Current Transformers for breaker

CT Type	: Tape wound
CT Description	:The CTs of DT breaker shall be suitable for sensing the minimum primary variable current in the order of 10-60 A and the secondary current for the CT is 1 A. The CT shall be housed in outside SF6 chamber for testing and Maintenance.
Accuracy Class	: Class 10P10 protection
Rated burden	: Suitable for Self Powered Relay.

5. GENERAL CONSTRUCTION FEATURE FOR RING MAIN UNIT:

The compact RMU shall be designed to operate at the rated voltage of 12 KV. It shall include, within the same metal enclosure, earthing switches for each Load Break Switch and Circuit Breaker for earthing each of the devices. Suitable fool-proof interlocks shall be provided to these earthing switches to prevent its inadvertent or accidental closing when the circuit is live and the concerned Load Break Switch/Circuit Breaker is in closed position. The limiting dimensions shall be preferably around 1000-mm width x 1000-mm depth x 1800-mm height for the initial two Load Break Switches and one Circuit Breaker. An additional width of 1000-mm for each addition of the Circuit Breaker is allowed. Provision should be made for extension of few more Circuit Breakers or Load Break Switches on a future date. The degree of protection required against environment shall be not less than IPX4 of IS 12063. The Compact RMU shall have atleast an IP54 Protection Index as per IS 12063 against dust and splashing of water. The active parts of the switchgear shall be maintenance free and the Compact RMU shall be of low-maintenance type.

- 5.1 The Ring Main Unit shall be installed at 11 KV junction points to have continuous supply by isolating faulty sections. The RMU shall be both side extensible and consists of the combinations of load break switches and Circuit breakers for a nominal voltage of 12 KV using SF6 gas/ solid state epoxy as insulating and Vacuum as arc quenching medium.
- 5.2 The RMU and combination shall be outdoor metal enclosed type. The RMU metal parts shall be of high thickness high tensile steel which must be grit/short blasted, thermally sprayed with Zinc alloy, phosphate and subsequently painted with polyurethane based powder paint, the overall paint layer thickness shall be not less than 80 microns.
- 5.3 **Relevant IE rules for clearances, safety and operation inside the enclosure shall be applicable.** The enclosure shall be free from pollution, humidity, dust, vermin etc. IP-54 and

type tested for accelerated aging & weather proof at EREDA/CPRI/any other testing house meeting PQR.

- 5.4 All high voltage live parts except for the cable connections shall be insulated with SF6 gas/solid state epoxy. The SF6 /solid state epoxy enclosure shall be made of robotically/laser / TIG/ MIG welded stainless steel/ hermetically sealed metalized cast resin tank without use of sealant, gaskets, 'O' rings, etc. and shall be type tested for IP-67 Degree of protection.
- 5.5 The cubicle shall be touch proof metallic encapsulation with a electro galvanized sheet steel of high thickness and provided with a pressure relief arrangement away from operator.
- 5.6 RMU should be suitable for motorization for remote operation through SCADA.
- 5.7 Any accidental over pressure inside the sealed chamber shall be limited by the opening of a pressure-limiting device in the rear/top part of the enclosure. Gas will be release to the rear of the switchboard away from the operator to ensure safety of the operating personnel and all the manual operations will be carried out on the front of the switchboard.
- 5.8 The enclosure for switchgear and metallic RMU housing shall have a design such that in the event of an internal arc fault, the operator shall be safe. This should be in accordance with IEC 298 & Standard IEC 62271-100/200 and relevant TYPE TEST certificates shall be submitted.
- 5.9 The Entire units of RMU shall be in a single compact metal clad weather proof enclosure, outdoor type suitable for all weather conditions. The switchgear and bus bar shall all be filled with SF6 at 0.5 bar G/IEC/IS Standards relative pressure to ensure the insulation and breaking functions. The enclosure must be sealed for life and shall meet the "sealed pressure system" criterion in accordance with the IEC 298 & 62271-100/200 standard .The RMU must be a system for which no handling of gas is required throughout the 30 years of service life.
- 5.10 Suitable temperature rise test on the RMU with enclosure shall be carried out as per relevant IEC/IS.
- 5.11 Each switchboard shall be identified by an appropriately sized label, which clearly indicates the functional units and their electrical characteristics.
- 5.12 The switchgear and switchboard shall be designed so that the position of the different devices is visible to the operator on the front of the switchboard and operations are visible as well.
- 5.13 The entire system shall be totally encapsulated. There shall be no access to exposed conductors. In accordance with the standards in effect, the switchboards shall be designed so as to prevent access to all live parts during operation without the use of tools.
- 5.14 The entire 11 KV RMU shall be insulated by inert gas (SF6) / solid state epoxy suitable for operating voltage up to 12 KV respectively. The 12 KV circuit breakers must be VCB. It is necessary to fit an absorption material in the tank to absorb the moisture from the SF6 gas to regenerate the SF6 gas following arc interruption. The SF6 insulating medium shall be constantly monitored via a temperature compensating gas pressure indicator offering a simple indication. All the combination of the RMUs should have the required SF6 insulation by providing necessary gas chamber capacity. The provision to indicate pressure of SF6 Gas on RMU Panel shall be provided.

- 5.15 The tank shall be made of suitable stainless steel/ cast resin tank of adequate thickness and shall be able to withstand any accidental internal over pressure of atleast 3 bars.
- 5.16 The Compact RMU shall be suitable for mounting on its connecting cable trench. A suitably sized nameplate clearly indicating its functional units and their electrical characteristics shall identify each unit. The positions of the different devices shall be clearly visible to the operator on the front of the compact RMU and the operations shall be clearly visible. The compact RMUs shall be such that access to live parts shall not be possible without the use of tools.
- 5.17 The design shall incorporate such features to prevent any accidental opening of the earth switch when it is in closed position. Similarly accidental closing of Circuit Breaker or Load Break Switch shall be prevented when the same is in open position from the release of any latch or spring in tension due to vibrations caused externally or internally and shall prevent accidents.

FORMATION OF COMPACT RMU:

- 5.18 The compact RMU shall be of single busbar outdoor, tropicalized in accordance with the relevant clauses mentioned in these specifications. An earth fault passage indicator using a core balance Current Transformer shall be provided for the Incomers to assist in identifying the faulty cable section in order to isolate the same.
- 5.19 The Incomers panel shall comprise of, but not limited to the following:
- A triple pole Solid State epoxy /SF₆ Load Break Switch rated 630 Amps or higher, with a rated making capacity under fault conditions with short circuit levels of 20 KA or above at 11 KV
 - Core balance Current Transformer and earth fault passage indicators (The indicator flag of the relay shall be visible till such time the relay is reset manually)
- These shall not require any external Power Supply and must be suitable for unattended places.
- 5.20 The transformer loop circuit control panels shall consist of but not limited to the following:
- A triple pole Vacuum Circuit Breaker rated 200 Amps or higher, with a rated making capacity under fault conditions with short circuit levels of 20 KA or above at 11 KV
 - Manually charged spring closing mechanism
 - Electronic relay with associated Transformers of accuracy clause 10P10 and tripping mechanism. CT burden shall be as per requirement of self powered Relay.
 - Mechanical "ON", "OFF" indicator
 - Manual tripping device
 - Mechanical "Spring Charged", "Spring Free" indicator in case of stored energy devices.
 - Provision for retrofitting meters and SCADA System

6. Sulphur Hexafluoride Gas (SF₆ GAS) :

The SF₆ gas shall comply with relevant standard IEC-376, 376A & 376B and shall be suitable in all respects for use in 12 KV panels under the operating conditions. The SF₆ shall be tested for purity, dew point air hydrolysable fluorides and water content as per IEC-376, 376A & 376B and test certificate shall be furnished to the purchaser indicating all the tests as per IEC-376 for each Lot of SF₆ Gas. The metallic enclosure should be tested for leakage at site.

7. RMU OUTDOOR METAL CLAD:-

The RMU enclosure must be a metallic; it follows an industrialized process of manufacturing. The RMU shall be of single bus bar SF₆ gas/solid state epoxy insulated outdoor, tropicalised

and metal enclosed type. The RMU metal parts shall be made of high thickness high tensile steel which must be grit/short blasted, thermally sprayed with Zinc alloy, phosphate and subsequently painted with polyurethane based powder paint, the overall paint layer thickness shall be not less than 80 microns. The rating of enclosure shall be suitable for operation on three phase, three wire, 12 KV, 50 cycles, A.C. System with short-time current rating of **20KA for 3 seconds** with Panels.

TAKE OFF TERMINAL UNITS FOR AUTOMATION :

The RMU should be provided with necessary take off terminal units for SCADA automations. Both the load break switches and the tee off circuit breaker shall be suitable for motorization.

8. ISOLATORS (LOAD BREAK TYPE):

The load break isolators for Incoming and Outgoing supply must be provided and the load break isolators are fully insulated by SF6 gas/Solid State Epoxy. The load break isolators shall consist of 630 Amp fault making/load breaking spring assisted ring switches, each with integral fault making earth switches. The switch shall be naturally interlocked to prevent the main and earth switch being switched 'ON' at the same time. The selection of the main and earth switch is made by a lever on the fascia, which is allowed to move only if the main or earth switch is in the off position. The load break isolators should have the facility for future remote operation. Each load break switch shall be of the triple pole, simultaneously operated, non automatic type with quick break contacts and with integral earthing arrangement.

The earthing switch shall also be designed for rated fault making of 50KA for operator's safety reasons.

9. SCADA CONNECTIVITY:

Provision shall be made in all the RMUs with necessary take off terminal units for automations / SCADA connectivity.

10. VACUUM CIRCUIT BREAKER :

The VCB for the controlling of Distribution Transformer must be provided inside the outdoor metal clad and insulated by SF6 gas/Solid State epoxy. The VCB circuit breaker must be a spring assisted three positions with integral fault making earth switch. The selection of the main/earth switch lever on the fascia, which is allowed to move only if the main or earth switches is in the off position. The manual operation of the circuit breaker shall not have an effect on the trip spring. This should only be discharged under a fault (electrical) trip; the following manual reset operation should recharge the trip spring and reset the circuit breaker mechanism in the main off position.

The circuit breaker shall be fitted with a mechanical flag, which shall operate in the event of a fault (electrical) trip occurring. The 'tripped' flag should be an unambiguous colour differing from any other flag or mimic.

Both the circuit breaker and ring switches are operated by the same unidirectional handle.

The protection on the circuit breaker shall comprise of the following components: The circuit breaker unit fitted with 3 class X protection CT's, a low burden trip coil and auxiliary switch assembly allowing the use of a self powered (No external DC or AC source required) IDMT protection relays (Numeric/Micro processor based) 3 x over current and earth fault element shall be Definite Time type relay. The protection system should be suitable for protecting

transformers of rated power from 100 KVA to 1000 KVA . The relay should be housed within a pilot cable box accessible. A facility of provision for the delay of transformer in-rush current shall be provided on relay to avoid nuisance tripping. Outlived/ defective batteries wherever provided shall be replaced promptly during the Guarantee period of RMU.

11. BUSHINGS :

The units are fitted with the standardized bushings that comply with IEC standards.

All the bushings are the same height from the base and are protected by a cable cover. All the bushings shall be Partial Discharge free & preferably Laser welded with the SS container in case of stain less steel tank type RMU.

12. CABLE BOXES :

All the cable boxes shall be air insulated suitable for dry type cable terminations. The cable boxes at each of the two ring switches shall be suitable for accepting HV cables of sizes 3c x 300 / 3c x 185 sq.mm and circuit breaker cable be suitable up to 3c x 70 sq.mm.

- Necessary Right angle Boot should be supplied to the cable terminations. The type of the Right angle Boot should be cold applied insulating Boot.
- A non Ferro- magnetic cable clamp arrangement for 3 core XLPE cables must be provided for all cables terminated on the RMU. Glands in the base plate of the RMU shall be provided for proper Cable termination.

13. FAULT PASSAGE INDICATORS (FPI):

This shall be integral part of the RMU and shall be provided to assist in identifying the faulty cable section in order to isolate the same. The Fault Passage Indicators (FPI) shall have automatic reset facility and shall be suitable for trouble free operation. The indicator flag of the relay shall be visible till such time the relay is reset. LED indicating bulb should be provided for better visibility particularly in day time. The relay should not require any external power supply

14. CABLE TESTING FACILITY:

It shall be possible to test the cable without opening the cable boxes or 'where there is no provision for testing the cable without opening the door or cover', opening of door or cover should not be possible unless the earthing switch is closed as per IEC 298 clause 5.102.4. The cable testing should be possible without dismantling the cable plugs but the after opening the cable covers.

15. VOLTAGE INDICATOR LAMPS AND PHASE COMPARATORS:

The RMU shall be equipped with a voltage indication to indicate whether or not there is voltage on the cable. There should be a facility to check the synchronization of phases with the use of external device. It shall be possible for the each of the function of the RMU to be equipped with a permanent voltage indication as per IEC 601958 to indicate whether or not there is voltage on the cables. The indicating lamp shall be LED type for better visibility during day light.

16. EXPANDABILITY :

Each combination of RMU shall have the provision for future extension on both sides by load break isolators / Circuit breakers, with a suitable trunking chamber and accessories and necessary Bus Bar except for RMU having PT Panel which may be expendable only on one side. Extensible isolator(s) and circuit breaker(s) shall be individually housed in a separate SF6 gas/Solid State epoxy enclosures. Even in case of extensible circuit breakers, the Breaker should be capable of necessary short circuit operations as per IEC at 20 KA, and the Breaker should have a rated current carrying capacity of 200 A.

17. BUS COUPLER/ BUS BAR SECTIONALISER WITH LOAD BREAK SWITCH

The load break switch of the Bus bar Sectionalizer shall be rated for 12 KV, 630A, 20KA for 3 secs. The LBS should be housed in a SF6/solid state epoxy Insulated stainless steel / cast resin enclosure conforming to IP-67 Degrees of protection and shall be with motorized mechanism. The sectionalizer shall be provided with all the necessary electrical and mechanical interlocks required for proper functioning with the Incomers.

18. PADLOCKING FACILITIES

Provision shall be made for padlocking the load break switches/ Circuit breaker, and the earthing switches in either open or closed position with lock & master key. The circuit breakers and earthing switches can be locked in the open or closed position by 1 to 3 padlocks 6 to 8 mm in diameter.

19. WIRING & TERMINALS:

The wiring should be of high standard and should be able to withstand the tropical weather conditions. The wiring cable must be standard single-core non-sheathed, Core marking (ferrules), stripped with non-notching tools and fitted with end sleeves, marked in accordance with the circuit diagram with printed adhesive marking strips. All wiring shall be provided with single core multi-strand copper conductor wires with P.V.C insulation and shall be flame retardant low smoke type. The wiring shall be carried out using multi-strand copper conductor super flexible PVC insulated wires of 650/1100V Grade for AC Power, DC Control and CT circuits. Suitable colored wires shall be used for phase identification and interlocking type ferrules shall be provided at both ends of the wires for wire identification. Terminal should be suitably protected to eliminate sulphating. Connections and terminal should be able to withstand vibrations. The terminal blocks should be stud type for controls and disconnecting link type terminals for CT leads with suitable spring washer and lock nuts.

Flexible wires should be used for wiring of devices on moving parts such as swinging Panels (Switch Gear) or panel doors. Panel wiring shall be securely supported, neatly arranged readily accessible and connected to equipment terminals, terminal blocks and wiring gutters. The cables should be uniformly bunched and tied by means of PVC belts and carried in a PVC carrying trough.

The position of PVC carrying trough and wires should not give any hindrance for fixing or removing relay casing, switches etc., Wire termination shall be made with solder less crimping type of tinned copper lugs. Core identification plastic ferrules marked to correspond with panel wiring diagram shall be fitted with both ends of each wire. Ferrules shall fit tightly on the wire when disconnected. The wire number shown on the wiring shall be in accordance with the IS.375.

All wires directly connected to trip circuits of breaker or devices shall be distinguished by addition of a red color unlettered ferrule.

Inter-connections to adjacent Panels (Switch Gear) shall be brought out to a separate set of Terminal blocks located near the slots or holes to be provided at the top portion of the panel. Arrangements shall be made for easy connections to adjacent Panels (Switch Gear) at site and wires for this purpose shall be provided and bunched inside the panel. The bus wire shall run at the top of the panel. Terminal block with isolating links should be provided for bus wire. At least 10% of total terminals shall be provided as spare for further connections. Wiring shall be done for all the contacts available in the relay and other equipment and brought out to the terminal blocks for spare contacts. Colour code for wiring is preferable in the following colours.

Voltage supply	: Red, Yellow, Blue for phase and Black for Neutral
CT circuits	: Similar to the above
DC circuits	: Grey for both positive and negative
250V AC circuits	: Black for both phase and neutral
Earthing	: Green

The wiring shall be in accordance to the wiring diagram for proper functioning of the connected equipment. Terminal blocks shall not be less than 650V grade and shall be piece-molded type with insulation barriers.

The terminal shall hold the wires in the tight position by bolts and nuts with lock washers. The terminal blocks shall be arranged in vertical formation at an inclined angle with sufficient space between terminal blocks for easy wiring.

The terminals are to be marked with the terminal number in accordance with the circuit diagram and terminal diagram. The terminals should not have any function designation and are of the tension spring and plug-in type.

20. EARTHING:

EARTHING OF ISOLATORS AND DISTRIBUTION TRANSFORMER BREAKERS (EARTH SWITCH):

Necessary arrangements shall be made at Load break isolators / Distribution Transformer Breaker for selecting Earth position. Mechanical interlocking systems shall prevent the RMU function from being operated from the 'ON' to 'Earth On' position without going through the 'OFF' position.

The RMU outdoor metal clad, Switch Gear, Load break isolators, Distribution Transformer, LT pillar box, & steel structure etc., shall be equipped with an earth bus securely fixed along the base of the RMU.

When several units of the RMU (Extra Isolators / Breakers) are mounted adjoining to each other, the earth bus shall be made continuous and necessary connectors and clamps for this purpose shall be included in the scope of supply. The size of the earth bus shall be made of IEC / IS standards with tinned copper flat for RMU earthing. Provision shall be made on end of RMU for connecting the earth bus to the earth grid.

All metal parts of the switchgear which do not belong to main circuit and which can collect electric charges causing dangerous effect shall be connected to the earthing conductor made of copper having Cross Sectional area of minimum 75 mm². Each end of conductor shall be terminated by M12/equivalent quality and type of terminal for connection to earth system installation. Earth conductor location shall not obstruct access to cable terminations.

The following items are to be connected to the main earth conductor by rigid or copper conductors having a minimum cross section of 75 mm² (a) earthing switches (b) Cable sheath or screen (c) capacitors used in voltage control devices, if any.

All metallic cases of the relays, instruments and other panel mounted Equipment's shall be connected to the earth bus by independent copper wires of size shall be made of IEC/IS standards. The colour code of earthing wire shall be green. Earthing wires shall be connected on the terminals with suitable clamp connectors only and soldering shall not be permitted.

21. ACCESSORIES & SPARES:

The following spares and accessories shall be supplied free of cost, along with per 300 Nos. RMU or part thereof:-

1. Charging lever for operating load break isolators & circuit breaker of each RMU
2. Kit for identifying SF6 gas leakage – 5 numbers
3. All pressure gauges indications – 5 numbers
4. Necessary SF6 gas filling plant with adopter and tools etc for filling SF6 gas at Site --2 Nos
5. Necessary gas cylinders with adopter, pressure gauge for storage of SF6 gas –2 Nos
6. Any other spares & Tools, which are all essentially required at the time of emergency and routine maintenance.

The following accessories shall be supplied with each compact RMU at free of cost:

1. Pad locks for all doors with one set (3 Nos.) Master keys
2. Earth bus formed out of 30X5 mm tinned Copper flat.
3. Wire guard protective mesh on the front doors and back for prevention of pasting of papers etc.
4. Base channel with foundation bolts
5. Live part shrouds, danger plates, caution boards, name plates, rating plates etc. as per requirements
6. All other components, even though not specifically mentioned, but required for the safe operation of the unit.

22. TESTING OF EQUIPMENT & ACCESSORIES:

22.1 INSPECTION & TESTING :

The inspection may be carried out by the JDVVNL at any stage of manufacture. The supplier shall grant free access to DISCOM's representative at any reasonable time when the work is in progress. Inspection and acceptance of any equipment under this specification by the DISCOM shall not relieve the supplier of his obligation of furnishing equipment in accordance with the specification and shall not prevent subsequent rejection if the equipment is found to be defective.

The supplier shall keep the DISCOM informed in advance, about the manufacturing programme so that arrangement can be made for inspection. The JDVVNL reserves the right to insist for

witnessing the acceptance/routine testing of the bought out items. The JDVVNL has rights to inspect the supplier's premises for each and every consignment for type & routine test.

No material shall be dispatched from its point of manufacture unless the material has been satisfactorily inspected and tested / unless the same is waived by the JDVVNL in writing.

22.2 ACCEPTANCE AND ROUTINE TESTS:

All acceptance and routine tests as stipulated in the latest relevant IS/IEC shall be carried out by the supplier at his works in the presence of Nigam's representative. The supplier shall give at least 15 days advance intimation to the DISCOM to enable them to depute their representative for witnessing the tests. The cost towards these tests and other expenses shall be borne by the supplier.

22.3 ADDITIONAL TESTS :

The DISCOM reserves the right for carrying out any other tests of a reasonable nature at the works of the supplier/laboratory or at any other recognized laboratory/research institute in addition to the above mentioned type tests, acceptance and routine tests at the cost of the DISCOM to satisfy that the material complies with the intent of this specification.

22.4 TYPE TEST

The Tenderers should, along with the tender documents, submit copies of all Type test certificate of their make in full shape as confirming to relevant ISS/IEC of latest issue obtained from a laboratory/ testing house as detailed in Pre Qualifying Requirement (PQR) attached with.

The above type test certificates should accompany the drawings for the materials duly signed and certified by the institution who has issued the type test certificate. The following type test certificate shall be provided:

S. No.	Name of Type Test
01.	Short time current withstand test and peak current withstand test.
02.	Lightning Impulse voltage with-stand test
03.	Temperature rise test
04	Short Circuit current making and breaking tests <ul style="list-style-type: none"> ➤ CB ➤ Isolator
05.	Power frequency voltage withstand test (dry/wet)
06	Capacitive current switching test confirming to IEC
07.	Mechanical Endurance Test confirming to IEC /
08	Measurement of the resistance of the main circuit.
09	Checking of degree of protection
10	Switch, circuit breaker, earthing switch making Capacity <ul style="list-style-type: none"> ➤ CB ➤ Earth Switch
11	Switch, circuit breaker, earthing switch breaking Capacity <ul style="list-style-type: none"> ➤ CB
12	Internal Arc Withstand
13	Partial Discharge test on Complete RMU
14	Other type & routine tests insists by IEC for RMU

22.5 PRE-COMMISSIONING TESTS :

All the pre-commissioning tests shall be carried out by Nigam representative in the presence of the supplier's representative (if wish to present), for which 7 day advance intimation will be issued by field officer to the firm.

23.0 PERFORMANCE GUARANTEE

23.1 The performance Guarantee period shall be 5 (Five) years from the date of receipt of equipment along with its all accessories.

The supplier will be required to furnish a Performance Security Deposit which is required to be valid for 5 years as under:-

- (a) 2.5%, or as may be specified in the bidding documents, of the amount of supply order in case of procurement of goods and services and 5% of the amount of work order, in case of procurement of works;
- (b) 0.5% of the amount of quantity ordered for supply of goods, in case of Small Scale Industries or MSME units of Rajasthan; and
- (c) 1% of the amount of supply order, in case of sick industries, other than Small Scale Industries, whose cases are pending before the Board of Industrial and Financial Reconstruction (BIFR).

- 23.2 Successful bidder shall attend the complaint within 15 days from the date of receipt of complaint. The date of receipt of complaint shall be treated as the date of FAX/ 3 days from the date of despatch of complaint by the field officer/ stores/ Purchaser. If the supplier fails to attend the complaint within 15 days from the date of receipt of complaint intimated by the field officer/ purchaser then penalty @1/4% per week or part thereof for first 4 weeks in case delay is exceeds more than 4 weeks then @1/2% per week or part thereof shall be charged for entire delay, subject to a maximum of 5% . This penalty will be in addition to the penalty leviable towards delay in delivery mentioned in purchase order.
- 23.3 Further to this, in case of emergency, equipment can be get rectified by the field officer at the risk & cost of the supplier firm. The rectification of equipment means satisfactory performance report duly signed by the field officer
- 23.4 These guarantees shall supplement the general provisions covered under General Conditions of Contract in clause entitled “Guarantee”.
- 23.5 Liquidated damages for not meeting specified performance shall be assessed and recovered from the supplier. Such liquidated damages shall be without any limitation whatsoever and shall be in addition to damages, if any payable under any other clause of General Conditions of Contract.

24.0. DOCUMENTATION

24.1 DRAWINGS

The tenderer shall submit along with his tender dimensional general arrangement drawings of the equipments, illustrative and descriptive literature in triplicate for various items in the RMUs which are all essentially required for automation.

- i) Schematic diagram of the RMU panel
- ii) Instruction manuals
- iii) Catalogues of spares recommended with drawing to indicate each items of spares
- iv) List of spares and special tools recommended by the supplier.
- v) Copies of Type Test Certificates as per latest IS/IEC.
- vi) Drawings of equipments, relays, control wiring circuit, etc.
- vii) Foundation drawings of RMU.
- viii) Dimensional drawings of each material used for item Vii.
- ix) Actual single line diagram of RMU/RMUs with or without Extra combination shall be made displayed on the front portion of the RMU so as to carry out the operations easily.

The following should be supplied to each consignee circle along with the initial supply of the equipments ordered.

5 copies of printed and bound volumes of operation, maintenance and erection manuals in English along with the copies of approved drawings and type test reports etc.

3 sets of the manuals as above shall be supplied to the Superintending Engineer(MM), JDVVNL, Jodhpur. A soft copy of the all Technical and Drawing furnished in a CD.

All drawings shall conform to relevant International Standards Organization (ISO) Specification. All drawings shall be in ink and suitable for microfilming.

- 24.1.1 All drawings submitted by the Supplier including those submitted at the time of bid shall be in sufficient detail to indicate the type, size, arrangement, dimensions, material description, Bill of Materials, weight of each component, break-up for packing and shipment, required fixing arrangement, the required dimensions for installation and any other information specifically requested in the Specification.
- 24.1.2 Each drawing submitted by the Supplier shall be clearly marked with the name of the Purchaser, the unit designation, the Specification title, the Specification number and the name of the Project. All titles, noting, markings and in writings on the drawing shall be in English. All the dimensions should be to the scale and in metric units.
- 24.1.3 The drawings submitted by the Supplier shall be reviewed by the Purchaser as far as practicable within 15 days and shall be modified by the Supplier if any modifications and / or corrections are required by the Purchaser in compliance with the Specification. The Supplier shall incorporate such modifications and or corrections and submit the final drawings for approval. Any delays arising out of failure by the Supplier to rectify the drawings in good time shall not alter the completion date.
- 24.1.4 The drawings submitted for approval to the Purchaser shall be in quadruplicate. One print of such drawings shall be returned to the Supplier by the Purchaser marked “approved / approved with corrections”. The Supplier shall thereupon furnish the Purchaser additional print as stipulated in Technical Specification along with one reproducible in original of the drawings after incorporating all corrections.
- 24.1.5 Further work by the Supplier shall be strictly in accordance with these drawings and no deviation shall be permitted without the written approval of the Purchaser, if so required.
- 24.1.6 All manufacturing and fabrication work in connection with the equipment / material prior to the approval of the drawings shall be at the Supplier’s risk. The Supplier may make any changes in the design, which are necessary to make the equipment conform to the provisions and intent of the Contract and such changes will again be subject to approval by the Purchaser. Approval of Supplier’s drawing or work by the Purchaser shall not relieve the Supplier of any of his responsibilities and liabilities under the Contract.
- 24.1.7 All rights of the design / drawing shall be strictly reserved with the Purchaser only and any designs / drawings / data sheets submitted by the supplier from time to time shall become the property of the Purchaser. Under no circumstances, the Supplier shall be allowed to use / offer above designs / drawings / data sheets to any other authority without prior written permission of the Purchaser. Any deviation to above is not acceptable and may be a cause of rejection of the bid.

24.2 NAME PLATE:

Each RMU and its associated equipments shall be provided with a nameplate legible and indelibly marked with at least the following information.

- (a) Name of manufacturer
- (b) Type, design and serial number
- (c) Rated voltage and current
- (d) Rated frequency
- (e) Rated symmetrical breaking capacity
- (f) Rated making capacity

- (g) Rated short time current and its duration
- (h) Purchase Order number and date
- (i) Month and Year of supply & Expiry of Guarantee period
- (j) Rated lighting impulse withstand voltage
- (k) D.C. component of current.
- (l) Feeder name(Incoming and Out going),DTs Structure name,11000Volts Dangers etc.

NOTE:i) The word rated need not appear on the name plate. Recognized abbreviations may be used to express the above particulars.

ii) Whether the circuit breaker is fitted with closing/tripping devices necessitating an auxiliary supply shall be stated either on the circuit breaker name plate or any other acceptable position.

25. TRAINING:

The supplier shall give rigorous training to at least 25 JDVVNL Engineers & staff at the site for 3 days in attending trouble shooting and maintenance. The cost towards transport, food and other expenses shall be borne by the supplier.

26. Nigam is intend to purchase RMU fully motorized with SCADA compatilby for which additional features shall be incorporated in addition to metioned in the above specification of RMU having provision for motorization & SCADA compatibility to fullfill the following requirement :-

- i) Both LBS & T-off VCB shall be compatible for remote operation through SCADA.
- ii) Fault Passage Indicator (Non-communicable) shall be provided with potential free contacts for SCADA compatibility & should have provision for remote reset.
- iii) Protection & auxialry relay should have self resetting feature as well as remote resetting feature.
- iv) status (Potential free contacts) signal to SCADA – to be wired to marshalling terminal block:
 - LBS close/open
 - LBS & CB Earth switch close/open
 - Battery Charger Fail
 - CB close/open
 - Protection relay operated
 - FPI operated
 - SF6 gas pressure low
 - Trip Coil healthy
 - Local remote
 - Spring charge
 - RMU door open
 - Power supply healthy
- v) Commands from SCADA – to be wired to marshalling terminal block: LBS clsoe/open, CB close/open, FPI Reset etc.

The following are the specific requirement for SCADA connectivity & motorization:

Each RMU shall be fitted with a power supply unit, which includes 24/48 Volt DC battery & battery charger suitable for min. 5 Nos. operation on after failure of power supply. The power supply unit shall conform to following requirements:-

Input: 230 V AC /110 V AC with a possible variation of +/- 10%.

Output: Stable 24 / 48 V DC

Battery : 24/48 V DC .

The Power supply unit shall have sufficient capacity to supply power to the following devices with a nominal backup of 4 hour:-

- RMU's motor for minimum of 5 Nos. operations.
- RMU's trip coils, close coil, FPI (in case required).

The battery charger to meet out the above requirement shall be provided.

Following shall also be added in the specification for purchase of RMU fully motorized with SCADA compatibility with PT Panel:

- i) Potential Transformers & Current Transformer with metering Core shall be provided for metering using MFT for DMS system.
- ii) 3 Nos. Current transformer shall be provided in Circuit Breaker for metering purpose in addition to 3 Nos. CT provided for protection purpose. The CT access for maintenance or any other purpose shall be from front only. The CT shall conform to relevant Indian Standards. The design & constructions shall be sufficient robust to withstand thermal & dynamic stress during short circuit. Secondary terminal of CT shall be brought out suitable to a terminal block which shall be easily accessible for testing & terminal connections. The CT ratio shall be 100-50/1 Amp. with accuracy class 0.5 with suitable burden.
- iii) 3 Nos. single phase Potential Transformers shall be provided. These should be housed in a separate air insulated PT panel, directly connected to RMU through main bus. The burden per transformer shall not be more than 50 VA and voltage ratio shall be 11 KV/110 V. The accuracy class shall be 0.5. The PT shall have cast resin epoxy construction and shall conform to relevant Standards. Their design & construction shall be robust to withstand thermal & dynamic stress during short circuit. Provision for installation of meter shall also be kept in the panel.

27. "Successful bidder will have to furnish complete Type Test Reports before commencement of supply."

28. As GST act has been effected from 01.07.2017, therefore, BOQ has been prepared accordingly with applicability of GST. Further, old tax structure wherever appearing in ITB/GCC/Specification may be replaced by GST as per notification.

Further, GST registration number of Jodhpur Discom is 08AAACJ8578R1ZJ.

29. ADDITIONAL ORDER

Repeat order for additional quantities upto 50% of original ordered quantities, may be placed by the Nigam on the same rates , terms and conditions given in the contract.

Schedule – I**SCHEDULE OF REQUIREMENT**

The following is tentative requirement of 11 KV RING MAIN UNITS and combinations of load break isolators & breakers with dielectric media of SF6 gas/solid state epoxy with provision of additional load break switches and circuit breakers extensible at both side :-

S.NO	COMBINATION DETAILS OF RMU	NOS. REQUIRED
1	11 KV RMU fully motorized with SCADA compatible (2 LBS + 1VCB) both side extensible with battery set and battery charger along with Potential Transformer Panel	50

NOTE:-

- 1. The quantities as mentioned in the schedule of requirements are tentative and may increase/decrease as per the requirement of the Nigam.**

SCHEDULE- II**PRICE ADJUSTMENT FORMULA**
11 KV RING MAIN UNITS (TN-1604)

The price quoted / confirmed is based on the input cost of raw materials / components and labour cost as on the date of quotation and the same is deemed to be related to prices of raw materials/ components and all India average consumer price index number of industrial workers as specified in the price variation clause given below. In case of any variation in these prices and Index number, the price payable shall be subject to adjustment up or down in accordance with the following formula :-

$$P = \frac{PO}{100} \left(20 + 28 \frac{IS}{IS0} + 26 \frac{C}{CO} + 4 \frac{AL}{ALO} + 9 \frac{In}{In0} + 13 \frac{W}{WO} \right)$$

Wherein,

P = Price payable as adjusted in accordance with the above formula.

PO = Price quoted / confirmed (Exclusive of all taxes and duties).

ISo = Wholesale price index for “Manufacture of basic metals” (Base: 2011-12 = 100) (refer notes).

This index is as applicable for the month, three month prior to the date of tendering.

Co = Average LME settlement price of copper wire bars (refer notes).

This price is as applicable for the month, one month prior to the date of tendering.

Alo = Price of busbar grade aluminium (refer notes).

This price is as applicable on the first working day of the month, one month prior to the date of tendering.

Ino = Price of epoxy resin for indoor circuit breakers and switchgear (refer notes).

This price is as applicable on the first working day of the month, one month prior to the date of tendering. **OR**

Wholesale price index of insulator for outdoor circuit breakers (VBF and SDB) (refer notes)

This index number is as applicable for the month, three month prior to the date of tendering.

Wo= All India average consumer price index number for industrial workers, as published by the Labour Bureau, Ministry of Labour, Govt. of India (Base 2001 = 100).

This index number is as applicable for the month, four months prior to the date of tendering.

For example, if the date of tendering falls in May, 2019, the applicable prices of copper (Co), aluminium bus bar (Alo) should be as on 1st April 2019 and wholesale price index of “Manufacture of basic metals” (ISo) and insulating material (Ino) should be as on 1st February 2019 and all India average consumer price index number (Wo) should be for the month of January, 2019.

The above prices and indices are as published by IEEMA vide circular reference number IEEMA (PVC)SWGR(R-1)/___/___ONE prevailing as on first working day of the month _____ i.e. one month prior to the date of tendering.

IS = Whole sale price index for “Manufacture of basic metals” (Base: 2011-12 = 100) (refer notes).

This index is as applicable on the first working day of the month, four months prior to the date of delivery.

C = Average LME settlement price of copper wire bars (refer notes).

This price is as applicable on the first working day of the month, two months prior to the date of delivery.

Al = Price of busbar grade aluminium (refer notes).

This price is as applicable on the first working day of the month, two months prior to the date of delivery.

In = Price of epoxy resin for indoor circuit breakers and switchgear (refer notes).

This price is as applicable on the first working day of the month, two month prior to the date of tendering. **OR**

Wholesale price index of insulator for outdoor circuit breakers (VBF and SDB) (refer notes)

This index number is as applicable for the month, four month prior to the date of tendering.

W = All India average consumer price index number for industrial workers, as published by the Labour Bureau, Ministry of Labour, Govt. of India (Base 2001 = 100).

This index number is as applicable for the months, five months prior to the date of delivery.

For example, if the date of tendering falls in June, 2019, the applicable prices of copper (Co), aluminium bus bar (AlO) should be as on 1st April 2019 and wholesale price index of “Manufacture of basic metals” (ISo) and insulating material (Ino) should be as on 1st February 2019 and all India average consumer price index number (Wo) should be for the month of January, 2019.

The “date of delivery” is the date on which the product is notified as being ready for inspection / dispatch. (In the absence of such notification the date of manufacturer’s dispatch note is to be considered as the date of delivery) or the contracted delivery date (including any agreed extension thereto), whichever is earlier.

Note:- The base date will be 01.02.2021 irrespective of date of tender opening. The base date for calculation of price variation shall be the 1st day of the month, one month prior to date of opening of techno-commercial bid and this base date will remain unchanged irrespective of date of opening of techno-commercial bid, after uploading the tender on e-proc. portal/ Nigam’s website.

SCHEDULE-II-A**PRICES & PRICE VARIATION**

- a) The prices quoted shall be variable as per Price Variation Formula given in the Specification (Schedule-III-A) without any ceiling.
- b) If the price variation formula is changed, the same shall be applicable for the price variation. During the transit period when both old and new indices are being circulated, then the admissible Price Variation shall be applicable, which is advantageous to Nigam, and the period from which the old indices are discontinued then the P.V. shall be admissible with the new indices.
- c) The date of delivery applicable for claiming price variation shall be the date prevailing on the first day of Calendar month which shall be determined in the manner prescribed hereunder:-
- (i) When the material is offered within stipulated delivery schedule : For allowing P.V. the date of delivery shall be considered the date on which material is notified as being ready for inspection or date of receipt of inspection call in the office.
- (ii) When the material is offered after expiry of stipulated delivery schedule : For allowing P.V. in the cases supplies are made after the expiry of scheduled delivery, the price prevailing in the last month of the stipulated scheduled delivery or the date on which material is notified as being ready for inspection or date of receipt of inspection call in the office, whichever is beneficial to Nigam shall be allowed.
- (iii) When the material is offered ahead of delivery schedule on the request of Jodhpur Vidyut Vitran Nigam Limited : Normally supplies ahead of delivery schedule shall not be accepted. However in case of urgency of material, if supplies are accepted ahead of delivery schedule, PV shall be allowed on the basis of the material is notified as being ready for inspection or date of receipt of inspection call in the office.
- (iv) When the material is offered ahead of delivery schedule by firm at their own and accepted by Nigam on the request of firm: Normally the request of the firm to accept the material ahead of delivery schedule will not be accepted. In case firm offers supplies ahead of delivery schedule at their own and such request is accepted by Nigam, the price prevailing in the last month of stipulated delivery schedule or the date on which material is notified as being ready for inspection or date of receipt of inspection call in the office, whichever is beneficial to Nigam shall be allowed.

Schedule – III**JODHPUR VIDYUT VITRAN NIGAM LIMITED****A Govt. of Rajasthan Undertaking
Prescribed technical specification for supply of**

(Name of Material/Equipment/Machinery/T&P etc.)

S.No.	Technical specification which material/equipment/ Machinery/T&P shall confirm	Name of IS/other standard specification to which material should confirm	Other particulars if any.	to
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Certified that we agree to all the aforesaid technical specification except at S.No..... for which our technical specification shall be as under:-

S.No.	Technical specification which material/equipment/ Machinery/T&P shall confirm	Name of IS/other standard specification to which material should confirm	Other particulars if any.	to
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(Signature)Name & Designation
with seal of the bidder.

QUALIFICATION REQUIREMENT

ITEM:- 11 KV RING MAIN UNITS

TN- 1604

The bidder should fulfill following qualifying requirements for successful participation in the tender along with relevant documentary evidence supporting each qualifying requirement without which the offer shall be considered non-responsive & rejected.

1.0 STATUS OF BIDDER:-

- a) The bidder should be a Manufacturer of offered item. The offers from sole selling agent/ authorized dealers shall not be entertained.
- b) Old/ New suppliers:- Any bidder located within or outside the state of Rajasthan has participated for the first time in a particular Discom & meeting minimum qualification requirement and has supplied the tendered material/or of higher rating in other utility shall be treated as an old supplier. Rajasthan's firms although supplied in past but not meeting minimum quantity supplied criterion including altogether new units which have not supplied any quantity but having adequate & required manufacturing and testing facility and technical know-how of the tendered material shall be considered as new firms and would be eligible for trial order only. In case of supply made to the licensed power utility outside India, the C.A. certificate furnished by firm shall be considered.

2.0 PAST SUPPLY & PERFORMANCE CRITERIA :-

The bidder shall meet both past supply and performance criteria as detailed below for opening of tenders:-

2.01 PAST SUPPLY:-

- 2.01.1 The bidder is required to quote for minimum **10%** of tendered quantity of 11 KV RMUs, failing which their offer may be considered Non-Responsive.
- 2.01.2 The bidder should have designed, manufactured / fabricated, tested and supplied to utility / Discoms / Govt. Departments at least 2 X QQ (QQ being the quoted quantity) of similar item / higher rating of tendered material / equipment in last 3 financial years from the date of opening of technical-commercial bid.

Note: Requirement of quantity manufactured and minimum quantity to be offered shall be reduced to 25% for Rajasthan based units.

- 2.01.3 In support of fulfillment of the past supply criteria, the bidder shall furnish documentary evidence in the form of certificate from Chartered Accountant in the enclosed prescribed proforma only. This prescribed proforma should be furnished either in original or copy duly attested by Notary. The bidder shall also sign and affix seal on the C.A. Certificate. The certificate should have membership number with the name & address of the chartered accountant. Certificate should clearly indicate the quantity supplied, period of supply,

voltage Class, Rating of the VCB etc. in the format prescribed, any deviation to format or information diverted format, will not be considered and rejected.

Note:-The material supplied and accepted for same/higher rating for Turnkey projects to a licensed power utility/Govt. shall be considered for the purpose of evaluating criteria. The certificate given by C.A. shall indicate above quantity separately.

2.02 **PERFORMANCE CRITERIA:-**

- 2.02.1 i) If a bidder has supplied upto 50% of ordered quantity in previous tender upto date of opening of subsequent tender and scheduled delivery period expired, the bid of such bidder will not be opened in the Discom for that item.
- ii) However, if the supplies have been completed for a quantity more than 50% but not completed upto date of opening of subsequent tender and scheduled delivery period expired, the quantity equal to the quantity pending in previous tender for that item shall be reduced from the subsequent tender quantity to be allocated to the bidder.

3.0 **TYPE TEST CRITERIA:-**

- 3.01 The bidder shall furnish valid and authenticated type test certificates from a Govt. approved / Govt. recognized / NABL Accredited laboratory / ILAC i.e. International Laboratory Accredited Laboratory (in case of foreign laboratory) of similar rating and design of tendered material/ equipment. Such type test certificates should not be older than **5 years** as on the date of bid opening. For this purpose date of conducting type test will be considered.

The type test certificate by in house laboratory of tendering firm even if it is a Govt. approved / Govt. recognized / NABL accredited / ILAC accredited, shall not be accepted, in case of their own tender. This will not apply if tendering firm is Govt. company / public Sector undertaking.

- 3.02 The bidder should furnish documentary evidence in support of the laboratory whose type test have been furnished, that the said laboratory is a Govt. / a Govt. approved / a Govt. recognized / NABL accredited laboratory / ILAC accredited (in case of foreign laboratory).
- 3.03 The type test certificates shall be furnished either in original or copy duly attested by notary.
- 3.04 The bids of only those bidders shall be considered to be meeting the type test criteria who furnishes complete type test certificate with the bid as per above provision.

However, in the following cases the bid of the bidder may be considered meeting the type test criteria if the bidder furnishes an undertaking stating that valid type test certificate from a Govt. / Govt. approved / Govt. recognized / NABL accredited / ILAC accredited laboratory shall be furnished from first lot (without asking any delivery extension) along with bank guarantee with the technical bid from a Nationalized / Scheduled Bank in prescribed proforma at Schedule-III C or DD/ Pay Order amounting to Rs.5 Lac / Rs.1.5 Lac / Rs.0.5 Lac in case where the value of the purchase (corresponding to tendered

quantity) under consideration is more than 1.5 Crore / up to 1.5 Crore/ Upton 0.5 Crore respectively. The initial validity of Bank Guarantee shall be nine months with claim period of three months in addition.

- i) A new Rajasthan based unit who does not possess valid type tests reports subject to technically competent.
- ii) Where one or more type tests) is/ are older than 5 years.
- iii) Where new type tests have been added in the specification.
- iv) Where some changes in respect of type test procedure of existing type tests have been introduced in the relevant standard.
- v) Where a new item is being purchased by Nigam for the first time.
- vi) The Rajasthan & outside Rajasthan firm who does not possess valid type tests certificates, if type test reports of higher rating are furnished.

4.0 POOR RECORD OF PERFORMANCE AND DELIVERY:

The bidder who have been black listed in any of the state Discom or with whom business relations have been severed in Jodhpur Discom shall not be considered. Severment of business relations will be done in case of following circumstances for the period and with the recovery mentioned against each:

i) When vendor does not accept order awarded on its accepted price and terms and conditions or does not comply with contractual formalities.	Forfeiture of EMD/cancellation of vendor registration to recover amount of EMD along with severment of business relations for three years from the date of issue of order.
ii) When vendor complies with contractual formalities but does not commence supplies.	Levy of maximum recovery on account of delay in delivery along with severment of relations for a period of 2 years from the date of issue of order or in next two bids whichever is later along with forfeiture of EMD / cancellation of vendor registration.

5.0 (A) Black listing of a firm:

After having given Show Cause Notice of 30 days, and having established & cogent reasons for blacklisting of the firm as given below, the firm should immediately be blacklisted for a period of 5 years indicating reasons of doing so, in the letter itself, and a copy of such blacklisting should be given to the firm, with the approval of CLPC:-

- (i) There are sufficient and strong reasons to believe that the supplier or his employee has been guilty of malpractices such as manhandling/misbehavior with Government official by supplier or his partner/employee, bribery, corruption or abatement of such a offence in a position where he could corrupt Nigam's official, fraud, vitiating fair tender process including substitution of or interpolation in tender, mis-representation, pilfer-aging or unauthorized use or disposal of Nigam's material issued for specific work etc.
- (ii) Where a supplier or his partner or his representative has been convicted by a court of Law for offences involving moral turpitude in relation to the business dealing or where

security considerations including suspected disloyalty to the Nigam/state so warrant the blacklisting.

- (iii) If the State Bureau of Investigation or any other authorized investigating agency recommends for blacklisting after completing the investigation.

Note: - 1 If a supplier after having tendered for a supply or after negotiations gives application voluntarily vitiating the fair tendering process, it shall also tantamount to malpractice.

Note:-2 A register containing the reasons for blacklisting the supplier as also the names of all the partner of the suppliers and the allied concerns coming within the effective influence of the blacklisted supplier will be maintained.

Note: - 3 A register of black listed supplier will be maintained which will not only include suppliers enlisted with the Enlisting Authority but also black listed suppliers in Nigam.

Note :-4 A Black listed supplier (i) shall not be entitled for registration in any of the Discom (ii) shall not be awarded any supply order in future in any Discom during the notified period.(iii) his registration if any shall stand cancelled immediately and his registration security /EMD/S.D. shall stand forfeited. (iv) In case of blacklisting of the firm by any one of Discom for the cogent prescribed reason(s) as stipulated above, the same shall be applicable to all the three Discoms and as a consequence of blacklisting, all the pending orders to that firm, will be cancelled in all three (3) Discoms with immediate effect. However in respect of completed/executed contract G.P. obligations as well as other liabilities shall be fulfilled by the supplier.

(B) Severment of Business relation:

- (a) After having given Show Cause Notice of 30 days, and having established & cogent reasons for Severment of business relation as given below, the firm should immediately be severed the business relations for a period of 2 to 3 years indicating reasons of doing so, in the letter itself, and a copy of such severment should be given to the firm, with the approval of CLPC:-
- (i) The supplier continuously refuses to pay Nigam dues without showing adequate reasons and where the purchasing authority is satisfied that no reasonable dispute attracting reference to Settlement Committee or Court of Law exists for the supplier's action of non-supply.
- (ii) When vendor does not accept LOI/detailed purchase order awarded on its accepted prices and terms & conditions or does not comply with the contractual formalities.
- (iii) When vendor/supplier who otherwise completed contractual formalities but does not commence supplies on the date of opening of technical bid of the fresh tender/completion of schedule delivery period whichever is later.

Note-1-In case supplier does not deposit outstanding dues towards Nigam, even after completion of severment period, the period of severment will continue.

2. Severment done purely/ mainly on account of non-deposition of dues against the supplier/vendor/contractor could be lifted by CLPC, if the dues are deposited prior to the expiry of such severment period.
3. Severment done by one Discom for non-supply of material and /or corresponding non-recovery of dues will not be effective in other Discoms except in respect of common purchase cases of three Discom.

4. On severment of business, the EMD/SD/vendor registration security will be forfeited.
5. The orders in execution satisfactorily will not be cancelled other than the order on which severment have been done.

(C) DEBARMENT

Reasons on which Debarment can be made:-

- (i) The competent authority may debar the supplier on account of his performance or other disabilities, if it is no longer considered fit to remain under vendor registration as per his obligation under vendor registration.
- (ii) If at any subsequent stage of inspection of firms after award of contract, it is found that firm does not have sufficient tech. staff or required/necessary technical equipments, the purchasing authority can debar the firm for one year or next tenders whichever is later. The debarment will be lifted only on re-inspection of firm's works; the defects noticed earlier are fully rectified to the satisfaction of Nigam.
- (iii) When contract agreement executed and supplies commenced but could supply only up to 50% of ordered quantity and scheduled delivery period expired, then the firm can be debarred for one year or next tender whichever is later in that Discom only for that particular item/rating/ capacity/size etc.
- (iv) The suppliers who have been awarded contract for supply of material is not adhering to the periodic delivery schedule, the contract awarding authority reserve the right to terminate the contract and may debar the firm in participating in tender for a period of 2 to 3 years.

Note:-1. On debarment, the EMD/ SD/Vendor Registration security shall be forfeited.

Note:-. 2. If the firm is debarred in one Discom for any reasons then the same should not be applicable in other Discom subject to exception that in case of common Discoms purchases such debarment of a firm would be applicable to all three Discoms for that particular item and rating/capacity/size etc.

6.0 APPEALS AND APPLICATIONS:-

Appeal against the order of blacklisting, severment and debarment can be filed before BOD within a period of 3 months from the date of intimation. The letter of appeal will be addressed to the order placing authority. Who will process the case for placing the matter in B.O.D. with in a period 60 days. The BOD may reduce or waive the penalty, if sufficient reasons/supporting documents are furnished by the supplier.

GENERAL CONDITIONS : - (ALL CONDITIONS BE DULY SIGNED & SEALED)

- I) The bidder shall clearly indicate the deviations such as 'Technical Deviation & Commercial Deviations' in the prescribed proforma only. The deviations indicated elsewhere in the bid shall not be accepted.
- II) The bidder must clearly fill up each and every particular of guaranteed technical particulars annexed with Technical Specifications otherwise he will be responsible for Technical Non-responsiveness.

- III) All documents required in the prescribed format are to be furnished along with the bid itself only except an attested copy of BIS license (wherever it is required), failing which the bid will be summarily rejected.
- IV) However, a copy of BIS License may be submitted by the bidder up to the official working hours of one working day prior to the schedule / notified date of opening of price bid.

SCHEDULE-IV `A`

Must be filled-in by the tenderer and attach with technical bid (Part-I)

To,

The Superintending Engineer (MM&C),
Jodhpur Vidyut Vitran Nigam Limited,
Jodhpur.

Dear Sir,

With reference to your invitation to tender against specification No. JU/SE/MM&C/TN-1604 we agree to supply the following quantity:-

S. No	Particulars of item	Tendered Quantity (Nos.)	Qty. Offered	Justification of quantity offered as per Qualifying Requirement.	Status of Type Test Certificates.
1	2	3	4	5	6
	11 KV RMU fully motorized with SCADA compatible (2 LBS + 1VCB) both side extensible with battery set and battery charger along with Potential Transformer Panel	50			

- The offer is valid for a period of 120 days from the date of opening of this tender.
- The base date will be 01.02.2021 irrespective of date of tender opening.**
- It is noted that the quantities as mentioned in the specification are approximate and we agree to supply any quantity as per your requirement.
- The delivery shall strictly be in accordance with our delivery clause as given in **Schedule-VIII** of this specification. In case we fail to deliver the material as indicated in the clause No. 1.23 of G.C.C. (Schedule-II), we are liable to pay recovery for delay in delivery as per clause No. 1.24 of this Schedule-II of this specification.
The material shall conform to your specification No. JU/SE/ MM&C/TN-1604 and as per relevant ISS in all respect.
- We confirm that we agree to all the terms & conditions as well as the technical stipulations of your specification No. JU/SE/MM&C/TN-1604 and there are no deviations other than as specified in the **Schedule VI (A&B)**.

Yours faithfully,

Signature of tenderer
with stamp
Dated

Schedule – V**JODHPUR VIDYUT VITRAN NIGAM LIMITED****A Govt. of Rajasthan Undertaking**

Statement of guaranteed technical particulars and other performance data for supply of
 (Name of material) against specification
 no.....

S.No. Particulars of technical & other performance data guaranteed.

Certified that we agree to all the aforesaid technical particulars and other performance data
 except following :-

S.No.	Particulars of technical & other Performance data	Reasons for deviations/departure.
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(Signature)

Name & Designation
 with seal of the bidder.

Schedule – V (A)**SCHEDULE OF GUARANTEED TECHNICAL PARTICULARS OF 11 KV RING
MAIN UNITS AGAINST TN-1604****SCHEDULE OF GUARANTEED PARTICULARS FOR OUTDOOR METAL CLAD RMU**

01.A)	Manufacturer's Name and Country of origin	
1B)	Work Address	
1C)	GST registration no.	
02.	Manufacturer's Design / Type ref/Model.	
03.	Material used for making the body of the enclosure	
04.	Standards of manufacturing	
05.	Whether painting for RMU metal enclosure is done as per high standards.	
06.	Whether the enclosure is fire resistive, anti-corrosive	
07.	Whether the RMU metal clad is provided with sufficient space for integration of a) Minimum 2 numbers load break isolators and 1 number Vacuum Circuit breaker. b) Sufficient space for inspection, testing, etc c) Earthing arrangements d) Terminal output points for SCADA automation e) Sufficient arrangement for future extension with Load break isolators/Breakers f) Arrangement/provision for motorization of Load break isolators/Breakers for SCADA automation.	
08.	Maximum temperature with stand of enclosure.	
09.	Spacing between live part to Earth	
10.	Whether the enclosure are designed to withstand the in all weather conditions (Seashore area, Chemical industries polluted area)	
11.	Period of guarantee of the RMU enclosure.	
12.	Over all dimensions of the RMU enclosure (L x B x H)	
13.	Gauge of the Material used for the fabrication of the RMU enclosure	
14.	Whether the RMU enclosure is manufactured as per IEC/IS standards to hold SF6 gas without leakage.	
15.	Whether the RMU enclosure made provision for sensors for temperature compensated pressure measurement in the relevant gas compartment to monitor the pressure of SF6 gas.	
16.	Whether the RMU enclosure is sealed pressure system.	
17.	Weight of RMU complete with operating mechanism.	
18.	RMUs are provided with necessary take off terminals	
19	Whether the gas chamber is made of stainless steel/cast resin tank	

SCHEDULE OF GUARANTEED PARTICULARS FOR DT BREAKER

1A)	Manufacturer's Name and Country of origin	
1B)	Work Address	
1C)	GST registration no.	
04.	Standards of manufacturing	
05.	Whether the breakers are manufactured as per IEC/IS standards	
06.	Maximum temperature with stand of the breakers	
07.	1)Spacing between live part to Earth inside the breaker 2)Spacing between poles	
08.	Period of guarantee of the breaker	
09.	Rated frequency	
10.	Rated voltage	
11.	Highest system voltage	
12.	Rated current	
13.	Short time current rating with duration	
14.	Certificate or report of short circuit type test	
15.	Rated operating duty cycle	
16.	Short circuit breaking current (a)Symmetrical (b)Symmetrical at rated voltage ©Asymmetrical at rated voltage (i)Per Phase (ii)Average (d)DC Component	
17.	Arcing time (At rated breaking current) in ms.	
18.	Opening time	
19.	Total break time in milli sec. (a)At 10% rated interrupting capacity (b)At rated interrupting capacity	
20.	Breaking Current (a)Rated out of phase current (b)Rated cable charging current (c)Rated kilometric fault level (d)Rated capacitor breaking current	
21.	Make time in ms.	
22.	Maximum temperature rise over ambient (a)Main contacts Terminals	
23.	Rated restriking voltage at 100% and 50% rated capacity. (a)Amplitude factor (b)Phase factor ©Natural frequency	

	(d)R.R.R.V.(Volts/micro sec.)	
24.	Dry 1 minute power frequency withstand test voltage (a)Between line terminal and earth KV RMS (b)Between terminals with breaker contacts open KV RMS.	
25.	1.2/50 full wave impulse withstand test voltage (a)Between line terminal and earth KVp. (b)Between terminals with breaker contacts open KVp.	
26.	VCB interrupter make	
27.	Contact separation distance	
28.	Type of main contacts	
29.	Contact pressure	
30.	Contact resistance	
31.	Life of the interrupter (in number of operations)	
32.	(i)Tripping at rated current (ii)Tripping at maximum fault current. (iii)Mechanical operations.	
33.	Details of main contacts making contact with the breaker truck with the panel	
34.	Control circuit voltage AC/DC.	
35.	Whether trip free or not	
36.	Whether all the interlocks provided	

SCHEDULE OF GUARANTEED PARTICULARS FOR LOAD BREAK ISOLATORS & EARTHING ARRANGEMENTS

SL.NO.	DESCRIPTION	ISOLATORS	EARTHING SWITCH FOR DT & ISOLATOR
1A)	Manufacturer's Name and Country of origin		
1B)	Work Address		
1C)	GST registration no.		
04.	Standards of manufacturing		
05.	Whether the isolators & earth positions are manufactured as per IEC/IS standards		
06.	Maximum temperature with stand of the isolators & earth switches		
07.	1)Spacing between live part to Earth 2)Spacing between fixed and moving contacts in the open position.		
08.	Period of guarantee of the isolators		
09.	Rated frequency		
10.	Rated voltage		
11.	Highest system voltage		
12.	Rated current		
13.	Short time current rating with duration		
14.	Certificate or report of short circuit type test		
15.	Rated operating duty cycle		
16.	Short circuit breaking current		
17.	Arcing time (At rated breaking current) in ms.		
18.	Opening time		
19	Whether all the interlocks provided		
20	Whether Sufficient arrangements are made to operate the isolators through SCADA, also to be ensured for provision of space for accommodation of motor		
21	Fault passage indicator 1)Type/Model 2)Self powered Yes/No 3)Current readings 4)Fault currents 5)Phase currents		

SCHEDULE OF GUARANTEED PARTICULARS FOR CURRENT TRANSFORMERS

1A)	Manufacturer's Name and country of origin	
1B)	Work Address	
1C)	GST registration no.	
04.	1)Type of CT 2)Ratio	
05.	Rated Primary current	
06.	Rated secondary current	
07.	Rated frequency	
08.	Transformation ratio	
09.	Number of cores	
10.	Rated output (a) For Core-I	
11.	Class of insulation	
12.	Class of accuracy For Protection	
13.	Short time current rating and its duration	
14.	Secondary resistance at 70 Deg °C	
15.	Continuous over load (percentage)	
16.	One minute power frequency dry withstand voltage	
17.	1.2/50 micro sec. impulse withstand test voltage	
18.	One minute power frequency withstand test voltage on secondary	
19.	Instrument safety factor	
20.	Type of primary winding	
21.	Literature/leaflets pamphlets about the current transformer offered	
22.	Period of guarantee	

**SCHEDULE OF GUARANTEED TECHNICAL PARTICULARS FOR SELF
POWERED MICRO PROCESSOR BASED NUMERICAL RELAYS**

01.	Manufacturer's Name and Country of origin		
02.	Manufacturer's design / Ref. Type		
03.	Applicable Standards		
04.	CurrentSetting range for (a)Overcurrent relay	IDMT	
	(b)Earthfault Element	Definite Time	
05.	Whether the relay has the in-built facilities of IDMT, OL, EL		
06.	Details of IDMT Characteristics		
07.	Accuracy for different settings and limits of errors		
08.	Whether Alpha numeric / LED display		
09.	Whether compatible for 1 A CT Secondary		
10.	Whether draw out type		
11.	Types of case		
12.	Reset time		
13.	Burden of relay		
14.	Maximum and Minimum, operating ambient air temp.		
15.	Whether technical literature pamphlets about the relay offered.		
16.	Period of guarantee.		
17.	Certificate of Proof for Electro Magnetic Interference.		

SCHEDULE OF GUARANTEED TECHNICAL PARTICULARS FOR DRAWINGS.

01.	RMU	
02.	General arrangement drawing of panels in station	
03.	Engineering drawing for each panel including foundation details	
04.	Wiring schedule	
05.	Terminal block arrangement drawing	
06.	Descriptive operation and maintenance manual for individual items such as relays, meters, switches recorders etc.	
07.	Any other drawing required for complete understanding of the equipments supplied.	
08.	i)Foundation drawings of RMU ii)Dimensional drawings of each materials used.	

Name of Firm
Signature of Bidder
Designation & Seal
Date

Schedule – VI (A)**JODHPUR VIDYUT VITRAN NIGAM LIMITED****A Govt. of Rajasthan Undertaking****DEPARTURE/DEVIATION FROM TECHNICAL SPECIFICATION**

The bidder shall state under this schedule the departure from the Purchaser's specification in respect of technical is as under:-

S.No.	Main Deviations from Technical Specification.
-------	---

Certified that we agree to all the technical specification of the NIT except for the deviation to the extent indicated above.

(Signature)
Name & Designation
with seal of the bidder.

Schedule – VI (B)**JODHPUR VIDYUT VITRAN NIGAM LIMITED****A Govt. of Rajasthan Undertaking
DEPARTURE FROM COMMERCIAL TERMS & CONDITIONS OF THE
SPECIFICATION**

The bidder shall state under this schedule the departure from the Purchaser's specification in respect of Commercial terms & conditions:-

S.No.	Main Deviations from Specification.
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Certified that we agree to all the commercial terms & conditions as laid down in General Conditions of Contract to the specification except for the deviation to the extent indicated above.

(Signature)
Name & Designation
with seal of the bidder.

Schedule – VII**JODHPUR VIDYUT VITRAN NIGAM LIMITED****A Govt. of Rajasthan Undertaking
LIST OF PAST SUPPLIES**

The bidder shall state under this schedule whether material and equipments, similar to those offered in the tender have been previously supplied by him. A list shall be given of such orders executed by him together with information regarding the names of purchasing organizations, quantities supplied and when the supplies were effected. This list should be in form given below:-

S.No.	Detailed particulars of items supplied	Qty in Nos.	Order No. & Date	Name & details of purchasing authority	Date of Completion
1	2	3	4	5	6

If executed partially to be mentioned (Qty. in Nos..)	whether still to be executed	Delivery stipulated in order	Remarks
7	8	9	10

Note: Separate schedules are to be furnished by the bidder for past supply to the **JDVVNL/AVVNL/JdVVNL**, other State Electricity Boards and other Departments /Organisations.

(Signature)
Name & Designation
with seal of the bidder.

SCHEDULE-VIIA**TN-1604****TO WHOMSOEVER IT MAY CONCERN**

This is to certify that M/s. _____ (Complete with address) have manufactured and supplied the goods / equipments / material during the following financial year(s) to the Utilities / Government Departments / Discoms/ SEBs as detailed out below:

FOR THE LAST THREE FINANCIAL YEARS FROM THE DATE OF OPENING OF TECHNO-COMMERCIAL BID.

S.No	Financial year in which material supplied	Detailed Particulars of item(s) supplied	Name and particulars of purchasing authority	Order No. & date against which item(s) supplied	Unit	Ordered		Actual Supplied up to		Remarks
						Quantity	Value (Rs)	Quantity	Value (Rs)	
1	2	3	4	5	6	7	8	9	10	11

Signature ,
Name & Designation
With Seal of the Bidder
Date _____
Place _____

Signature of C.A
Name :
Address:

Membership No

The above particulars are true and correct based on explanations, records and books of accounts produced before us. Further the above certificate issued on the request of the company

CA Firm (_____)

Note:- The C.A. certificate must be signed by the bidder and C.A. firm. The details i.e. address of C.A. & membership No. shall clearly be mentioned on C.A. certificate. In case C.A. certificate is not signed by the bidder/furnished without membership No. & address of C.A. then same may not be considered for which responsibility rests with the bidder.

**UNDERTAKING FOR CA CERTIFICATE (TO BE FURNISHED ON NON-JUDICIAL STAMP WORTH
Rs.100/- & DULY NOTARIZED)**

I/WE UNDERTAKE THAT THE CA CERTIFICATE SUBMITTED AS PER THE REQUIREMENT OF PRE-QUALIFICATION REQUIREMENTS, FOR ADJUDGING THE PAST SUPPLIES ,UNDER THE SUBJECT TENDER, TN-_____ , IS CORRECT AND I, UNDERSIGNED WILL BE SOLELY RESPONSIBLE FOR ANY DEVAITION/ DISCREPANCY/ IN-CORRECT INFORMATION , IF EVER NOTICED IN THE CA CERTIFICATE.

FURHER, IN CASE, IF ANY DEVAITION/DISCREPANCY/IN-CORRECT INFORMATION IS NOTICED IN THE CA CERTIFICATE FURNISHED WITH THE BID, AT ANY STAGE DURING PROCESSING/ CURRENCY OF TENDER, DISCOM CAN TAKE THE ACTION AGAINST THE FIRM
M/s_____

_____AS PER THE RULES & REGULATIONS.

(SIGNATURE)
NAME & DESIGNATION
WITH SEAL OF THE BIDDER

Schedule – VIII**JODHPUR VIDYUT VITRAN NIGAM LIMITED****A Govt. of Rajasthan Undertaking****DELIVERY SCHEDULE****PART-A**

The delivery schedule of the material by the Purchase Officer is as mentioned hereunder:-

Sr. No.	Particulars of Material	Commencement period	Rate of supply per month	Period for completion of delivery of entire material
1.	11 KV RING MAIN UNITS	After 60 Days from the date of receipt of detailed Purchase Order	_____ Nos. per month (to be quoted by tenderer)	Completion in six months at equal monthly rate.

PART-B

In case bidder deviates from the delivery schedule mentioned by the purchaser in Part-A then the delivery schedule shall be indicated/mentioned by the bidder as under:-

S.No.	Particulars of Material	Commencement period per Month.	Rate of supply per Month	Period for completion of delivery of entire material
--------------	--------------------------------	---------------------------------------	---------------------------------	---

- Note:**
1. During the commencement period the process of model assembly and submission of B.O.M. for approval shall be got completed.
 2. During the commencement period the contractual formalities shall be got completed.

(Signature)

Name & Designation
with seal of the bidder.

Schedule – IX**JODHPUR VIDYUT VITRAN NIGAM LIMITED****A Govt. of Rajasthan Undertaking**

List of Equipments and Technical Hands Available with the Firm

(To be filled in by the bidders & enclosed with the bid)

Manufacturers and / or their authorized agents who are quoting against this bid are requested to furnish the following information along-with the bid. The Purchaser will have the discretion to ignore the bid without the under noted particulars and/or ignore the bid particulars.

1.	Name and Address of Manufacturer	
2.	GSTIN	
3.	Whether firm is proprietorship/partnership/ Limited (Please give details and also enclose copy of memorandum of constitution of firm along with name of directors/ partners/proprietor & their address.	
4.	Place where works exist (indicate the name of the only one works from where you want to supply the offered material).	
5.	Details of machinery particularly with B.H.P. of each item installed.	
6.	Details of staff employed in the works	
7.	Date when started the manufacturing of item under reference	
8.	List of items manufactured.	
9.	Literature and drawings of items manufactured showing their description, size, design and other important technical particulars	
10.	Details of order so far, executed alongwith the names of organization to whom supplied.	
11.	Manufacturing capacity.	
12.	Is the workshop open for inspection by the representative of the board, if required?	
13.	Statement of financial resources and Banking Reference along with Balance-Sheet for previous two years	
14.	Testing facilities available for the manufactured articles in the testing laboratory of works.	
15.	Whether the Firm is a small/medium/large scale industry.	
16.	Registration No. with :-	
	i. Small Scale, National/State.	
	ii) DGTD	
	iii) State Industries Department	

(Signature)
Name & Designation
with seal of the bidder.

Schedule - X**GENERAL PARTICULARS ABOUT THE TENDER IN BRIEF**

**JODHPUR VIDYUT VITRAN NIGAM LIMITED
(MATERIAL MANAGEMENT)
NEW POWER HOUSE, INDUSTRIAL AREA JODHPUR-342003**

TELEPHONE: - 0291-2651376

FAX: - 0291-2746539

SPECIFICATION FOR SUPPLY OF 11 KV RMU fully motorized with SCADA compatible (2 LBS + 1VCB) both side extensible with battery set and battery charger along with Potential Transformer Panel UNDER SPECIFICATION NO.JdVVNL/SE/MM&C/TN-1604.

A.	NIT No.	TN-1604
B.	Cost of Specification	Rs. 2,950.00 (Two Thousand Nine Hundred & Fifty only) For MSME: Rs. 1,475 (One Thousand Four Hundred & Seventy Five only)
C.	Processing of RISL	Rs. 1,000.00 per set (One Thousand only)
D.	Bid security	In lieu of Bid security, bidders are required to furnish Form of Bid Securing Declaration (Appendix-B) on Rajasthan Non-judicial Stamp Paper of Rs. 50/- (excluding surcharge on Stamp Paper, as per rules)
E.	Validity	120 days from the next date of opening of techno-commercial bid.
F.	Base Date for price variation	01.02.2021

The micro , small & Medium Scale Industries of Rajasthan and sick Industries , other than Small Scale Industries , whose cases are pending before the Board of Industrial and Financial Reconstruction (BIFR) shall furnish self-attest documentary evidence duly attested by notary to claim the above.

VERY VERY IMPORTANT

The bids not accompanied with qualification requirement, technical requirement indicated in the specification and other requirement given here under will be considered as incomplete offer and sufficient grounds for offer to be passed over:

1. Capacity, capability and competency proofing documents.
- a. Capacity /orders of similar and higher rating of tendered equipment booked as on date of bidding with type and rating and construction details of equipment for which order received be indicated.
- b. Copy of purchase orders of Erstwhile RSEB /SEB`S / Electric Utilities / Govt.
 2. Departments / Discom for similar or higher rating equipment latest executed.
 3. Year wise past experience for last 5 years of similar or higher rating of tendered equipment.
 4. The details of testing facilities available at the works and copies of latest type test certificates, carried out on similar ITEM.
 5. Quality assurance plan.

6. Complete guaranteed technical particulars, out lines and general arrangement drawings along with Bill of Material.
7. Bids without Section-I, II, III & Schedules (I to XI) shall be rejected.
8. Bids shall be furnished **through online**.
9. JdVVNL has the right to reject any offer on the basis of track record of poor performance in execution of previous order / equipment supplied /after sales service while evaluating the Techno-Commercial bid.
10. JdVVNL reserves the right to accept minor deviations in standard terms and conditions and also in technical and constructional features as specified in the technical specification (**Section-III**).
11. Deviation of any kind shall not be quoted in price bid, if found quoted, the same shall be ignored.
12. The following facilities are to be provided by the supplier at his own cost to the inspecting officer of Nigam (JdVVNL):-
 - i. Suitable accommodation.
 - ii. Local conveyance between arrival point, place of stay, works and departure point.
 - iii. The supplier shall assist in arranging return ticket and reservation on the request of the inspecting officer for which the payment shall be made by the inspecting officer. In case of joint inspection, single or shared double room accommodation shall be provided

Schedule – XI

**Format of Affidavit
(ON NON JUDICIAL STAMP OF RS. 100/-)**

I _____ S/o _____ Aged _____ Yrs. _____
Residing at _____ Proprietor/Partner/Director of
M/s _____ do hereby solemnly affirm and declare that:

(a) My/Our above noted enterprise M/s _____ has been issued acknowledgement of Entrepreneurial Memorandum Part II by the District Industries Centre _____. The acknowledgement No. is _____ dated _____ and has been issued manufacture of following items:

Name of Items	Production Capacity (Yearly)
---------------	------------------------------

(i)

(ii)

(iii)

(iv)

(v)

(b) My/Our above noted acknowledgement of Entrepreneurial Memorandum Part-II has not been cancelled or withdrawn by the Industries Department and that the enterprise is regularly manufacturing the above items.

(c) My/Our enterprise is having all the requisite plant and machinery and is fully equipped to manufacture the above noted items.

(d) The present status of the firm is as per acknowledgement of Entrepreneurial Memorandum Part-II issued on date by the District Industries Center, _____.

Place _____

Signature of
Proprietor/Director Authorized Signatory
With Rubber Stamp and date

**GENERAL
AMENDMENT IN ITB AND GCC**

1. Wherever EMD and Security Bank Guarantee (SBG), are appearing in the ITB, GCC & other Bidding Documents, same is hereby replaced by BID SECURITY as under:-

A. Following arrangement is applicable upto 31.12.2021 in respect of tenders which are due for opening.

BID SECURITY DECLARATION:

In lieu of Bid security, bidders are required to furnish Form of Bid Securing Declaration (Appendix-B) on Rajasthan Non-judicial Stamp Paper of Rs. 50/- (excluding surcharge on Stamp Paper, as per rules).

Encls.: Appendix-B

The bidders are required to pay the bid security amount specified in the Term and Condition of Bid, in the following cases, namely :-

- (a) when they withdraw or modify our bid after opening of bids;
- (b) when they do not execute the agreement, if any, after placement of supply/work order within the specified period;
- (c) when they fail to commence the supply of the goods or service or execute work as per supply/work order within the time specified;
- (d) when they do not deposit the performance security within specified period after the supply/work order is placed; and
- (e) if they breach any provision of code of integrity prescribed for bidding specified in the Act and Chapter VI of these rules.

In addition to above, the State Government shall debar the bidder from participating in any procurement process undertaken for a period not exceeding three years in case where the entire bid security or any part thereof is required to be forfeited by procuring entity.

B. IF THE BIDDER IS REQUIRED TO PAY THE BID SECURITY AMOUNT AS ABOVE, THEN IT WILL BE AS UNDER:

Bid security shall be **1%** of the estimated value of subject matter of procurement put to bid. In case of Small Scale Industries of Rajasthan it shall be **0.25%** of **the quantity offered** for supply and in case of sick industries, other than Small Scale Industries, whose cases are pending with Board of Industrial and Financial Reconstruction, it shall be **0.50%** of the value of bid. Every bidder, if not exempted, participating in the procurement process shall be required to furnish the bid security as specified in the notice inviting bids.

In case SSI units of Rajasthan quote less than the tendered quantity then they are required to furnish Bid Security @ 0.25% of the estimated value of quantity offered on the basis of estimated unit FOR destination price.

The Bid Security amount (as applicable) to be paid by Demand Draft/Banker's Cheque in favour of Sr. Accounts Officer (Cash & CPC), JdVVNL, Jodhpur (payable at Jodhpur) or Bank Guarantee, in specified format (**Appendix-A**), of a scheduled bank in favour of Superintending Engineer (MM&C), JdVVNL, Jodhpur, be deposited in the office of the Superintending Engineer (MM&C), JdVVNL, Jodhpur, New Power House, Jodhpur.

The Bank Guarantee against Bid Security be issued by Nationalized / Scheduled Bank. The same may be accepted after confirmation by issuing Bank. If any Bid Security Bank Guarantee not in proper format / not confirmed by the issuing Bank the same would not be accepted and the bidder would be immediately shorted out from bid process.

The Micro, Small & Medium Scale Industries of Rajasthan and sick industries, other than Small Scale Industries, whose cases are pending before the Board of Industrial and Financial Reconstruction (BIFR) shall furnish self-attested documentary evidence duly attested by Notary to claim the above.

- 2) Wherever Performance Bank Guarantee (PBG) and Composite Bank Guarantee (CBG) are appearing in the ITB, GCC & other Bidding Documents, same are hereby replaced by PERFORMANCE SECURITY as under:-**

PERFORMANCE SECURITY

The Performance security wherever appearing in the tender document may be read as under:-

- (a) 2.5%, or as may be specified in the bidding documents, of the amount of supply order in case of procurement of goods and services and 5% of the amount of work order, in case of procurement of works;
- (b) 0.5% of the amount of quantity ordered for supply of goods, in case of Small Scale Industries or MSME units of Rajasthan; and
- (c) 1% of the amount of supply order, in case of sick industries, other than Small Scale Industries, whose cases are pending before the Board of Industrial and Financial Reconstruction (BIFR); and

In case of successful bidder, the amount of bid security may be adjusted in arriving at the amount of the performance security, or refunded if the successful bidder furnishes the full amount of performance security.

3) VENDOR REGISTRATION

The relaxation/exemption given to the registered vendors of the Nigam in respect of EMD/SBG, wherever appearing in the ITB, GCC & other Bidding documents, are hereby WITHDRAWN.

- 4) The indirect taxes i.e. Excise Duty, Service Tax, VAT/CST, Entry Tax etc. mentioned in G.C.C., may now be read as G.S.T.**

5) The following amendment is hereby made in GCC Clause No. 1.43 (Due Date of Payment):

Payment shall be due and payable by the purchaser in accordance with the provision of the contract within a reasonable period from the date of receipt of each invoice by the contractor / supplier duly supported by a certificate of the Engineer. The purchaser will take all possible effort to make payment to the contractor / supplier generally on **45th day** after receipt of duly verified challans / receipts / bill in the office of paying authority {Sr.

Accounts Officer (Cash & CPC) Jodhpur Discom, Jodhpur / Concerned Circle Accounts Officer} and completion of contractual formalities. But in case of delay in payment the purchaser shall not be liable to pay any interest on the outstanding amount to the contractor / supplier.

- 6) The GST will be charge extra at the prevailing rate on all the settlement fees as applicable and amended time to time.

7) APPEAL:

i. If any Bidder or prospective bidder is aggrieved that any decision, action or omission of the procuring entity is in contravention to the provisions of this Act or the rules or guidelines issued there under, he may file 1st & 2nd appeal under section 38 of RTPP Act-2012 to the following appeal authorities **within a period of ten days from the date of such decision or action, omission, as the case may be, clearly giving the specific ground or grounds on which he feels aggrieved:**

Sr.No	Type of Appeal	Name & Designation of appellate authority
1	First appeal	Chairman, Discoms
2	Second appeal	Energy Department, Government of Rajasthan

ii) The form of appeal shall be as per Rule 83 of RTPP Rules, 2013 and memorandum of appeal shall be filled as per form-1 as prescribed under RTPP Rules, 2013.

Fee for appeal: - Subject to rule 84 of the RTTP Rule 2013 the fee shall be as under:-

a. For First Appeal:- Rs. 2,500/- (Rupees Two Thousand Five Hundred Only)+GST.

b. For Second Appeal:- Rs. 10,000/- (Rupees Ten Thousand Only)+GST.

iii) It is further intimated that the fee shall be paid in the form of Demand Draft of Bankers Cheque of a Scheduled Bank payable in the name of Sr. Accounts Officer (Cash & CPC), JdVVNL, Jodhpur.

iv) Provided that after the declaration of a Bidder as successful the appeal may be filed only by a Bidder who has participated in procurement proceedings:

v) Provided further that in case a Procuring Entity evaluates the Technical Bids before the opening of the Financial Bids, an appeal related to the matter of Financial Bids may be filed only by a Bidder whose Technical Bid is found to be acceptable.

vi) The officer to whom an appeal is filed under para (1) shall deal with the appeal as expeditiously as possible and shall endeavour to dispose it of within thirty days from the date of the appeal.

vii) If the officer designated under para (1) fails to dispose of the appeal filed within the period specified in para (2), or if the Bidder or prospective bidder or the Procuring Entity is aggrieved by the order passed by the First Appellate Authority, the Bidder or prospective bidder or the Procuring Entity, as the case may be, may file a second appeal to Second Appellate Authority specified in the Bidding Document in this behalf within fifteen days from the expiry of the period specified in para (2) or of the date of receipt of the order passed by the First Appellate Authority, as the case may be.

8) In case the terms & conditions mentioned in PO, ITB & GCC are modified/differ from RTPP Act, then RTPP Act shall supersede.

ADDENDUM IN ITB

Addendum in the provision of Instruction to Bidder (ITB) in the clause No. 1.12.2 for quantity allocation as per award criteria of purchase manual in accordance to the clause no. 74 of RTPP rules:

1.12.2 (A) for quantity allocation

(i) Trial order under Para No. 22.17 (a) & (b) of purchase manual

(a) Any bidder located within or outside the state of Rajasthan has participated for the first time in a particular Discom& meeting minimum qualification requirement and has supplied the tendered material/or of higher rating in other utility shall be treated as an old supplier. Rajasthan's firms although supplied in past but not meeting minimum quantity supplied criterion including altogether new units which have not supplied any quantity but having adequate & required manufacturing and testing facility and technical know-how of the tendered material shall be considered as new firms and would be eligible for trial order only. In case supply made to the licensed power utility outside India, the C.A. certificate furnished by the firm shall be considered.

Note:- The material supplied and accepted for same/higher rating for turnkey project (s) to a licensed power utility/Govt. shall be considered for the purpose of evaluating criteria. The certificate given by C.A. shall indicate above quantity separately.

(b) (i) The trial order for a particular item shall not generally exceed 10% of the total quantity considered for placement of order. This ceiling may, however, be relaxed by the corporate level purchase committee up to the extent of 30% to take the advantage of lower price where situation of differential price offering is arising.

(ii) The capacity & capability assessment of a bidder located outside state of Rajasthan who otherwise qualifies but is participating for the first time shall not be carried out.

Similarly, for the tendered item(s) where the valid BIS license is an essential qualification requirement and the bidder possesses the valid BIS but new to the utility. The capacity/capability assessment of such a bidder shall also not be carried out.

(ii) Award criteria under Para No. 10.2 (iii) of purchase manual

(a) In case of distribution transformers of rating 40 KVA and below, LT cables & conductors and fabricated steel items, order quantity may be distributed in the following manner:-

20% to L1

15% to L2

10% to L3

05% to L4

50% to be distributed equally among other firms subject to the condition that not more than 5% of the quantity to be purchased will be allotted to any one of such firms. The balance, if any will be distributed in the same proportion as indicated above among the first four firms.

(b) In case of other items except poles, order quantity may be distributed in the following manner:-

40% to L1

20% to L2

10% to L3

06% to L4

The balance quantity may be equally distributed among other firms subject to the condition that not more than 4% of the quantity to be purchased will be allotted to any one of such firm. The balance, if any will be distributed in the same proportion as indicated above among the first four firms.

(c) In case of poles, the order may be awarded on the basis of landed cost (material and transportation taken together). The allocation of quantity location/destination wise may be made among the eligible firms in equal proportion as far as possible

APPENDIX-A

Bank Guarantee No. _____.
Security Amount : _____.
Issued on dated : _____.
Valid upto : _____.
Claim upto / Grace period: _____.

PERFORMA OF BANK GUARANTEE FOR BID SECURITY

(Bank Guarantee in lieu of bid Security on non-judicial Stamp Paper of Rajasthan State of 0.25% of the B.G. value or Rs.25,000/-, whichever is less)

To,

The Superintending Engineer (MM&C),
 Jodhpur Vidyut Vitaran Nigam Limited,
 Jodhpur.

1. Whereas _____ (name of the Bidder) (hereinafter called “the Bidder”) has submitted its bid dated _____ (date of submission of bid) for _____ (name of contract/ name of the material with Bid no. / TN No. _____) (hereinafter called ‘the Bid’).
2. KNOW ALL PEOPLE by these presents that WE _____ (name and address of branch of Bank) of _____ (name of country), having our registered office at _____ (addresses of bank) (hereinafter called ‘the Bank’), are bound unto _____ (name of Purchaser) (hereinafter called “the Purchaser”) in the sum of Rs. *_____ for which payment well and truly to be made to the said Purchaser, the Bank binds itself, its successors, and assigns by these presents sealed with the Common Seal of the said Bank this _____ day of _____ 20____.
3. THE CONDITIONS of this obligation are :
 - i. If the bidder withdraws its Bid during the period of bid validity specified by the Bidder in the Bid Form; or
 - ii. If the bidder refuses to accept the correction of error in his Bid; or
 - iii. If the bidder, having been notified of the acceptance of its Bid by the purchaser during the period of bid validity:
 - a. Fails or refuses to execute the Contract Agreement within the time specified in purchase / work order, if required, or
 - b. Fails or refuses to furnish the performance security within the time specified in purchase / work order in accordance with the GCC, or
 - c. Fails to commence supply of goods or services or execute work as per purchase / work order within time specified.
 - iv. If the bidder breaches any provision of the Code of integrity specified in the RTPP Act and Chapter VI of the RTPP Rules.
4. We undertake unconditionally and irrevocably to guarantee as primary obligator and not as surety merely to pay to the purchaser a sum of Rs. _____ (in words Rs.

_____) upon receipt of its first written demand, without the purchaser having to substantiate its demand, provided that in its demand the Purchaser will note that the amount claimed by it is due to it owing to the occurrence of one or all of the above three conditions specifying the occurred condition or conditions.

5. The decision of the Superintending Engineer (MM&C), Jodhpur Vidyut Vitaran Nigam Limited, Jodhpur shall be final whether breach has been committed on the right to demand the amount of guarantee from us which has accrued to the purchaser.

6. This guarantee shall not cease or determine, if the purchaser grants time or indulgence or vary the terms of the contract with the Contractor or without our consent or knowledge.

7. The guarantee herein contained shall not be affected by any change in the constitution of the Contractor.

8. We _____(Bank Name) further undertake not to revoke this guarantee during its currency except with the previous consent of the Superintending Engineer (MM&C), Jodhpur Vidyut Vitaran Nigam Limited, Jodhpur.

9. All disputes arising under the said guarantee between the Bank and the Nigam or between the Contractor and the Nigam pertaining to the guarantee, shall be subject to the jurisdiction of the Courts in Jodhpur, Rajasthan alone.

10. This guarantee will remain in force up to and including one hundred eighty (180) days after the date of the opening of bids, i.e. upto _____, with a further grace period of Ninety (90) days and any demand in respect thereof should reach the Bank not later than the above date.

Yours faithfully,

Bankers (EXECUTANT)

Signed by the above named Bank in presence of :
(signature with full Name and Address)

Witness :

1. _____.
2. _____.

Attested by Notary Public, First Class Magistrate or directly confirmed by the executing Bank.

* The Bidder should insert the amount of the guarantee in words and figures denominated in the currency of bid.

Note : In case the bid is submitted by a Joint Venture, the Bid Bank guarantee shall be in the name of Lead partner or in the name of joint venture partners submitting the Bid covering all the partners of the joint venture.

APPENDIX-B**FORM OF BID-SECURING DECLARATION**

(On Rajasthan Non-Judicial Stamp Paper worth Rs.50/- + Surcharge on Stamp Paper as per rules)

Form of Bid-Securing Declaration

Date:

Bid No. :

Alternative No. :

To:

We, the undersigned, declare that:

We understand that, according to your conditions, bids must be supported by a Bid-Securing Declaration.

We accept that we are required to pay the bid security amount specified in the Term and Condition of Bid, in the following cases, namely :-

- (a) when we withdraw or modify our bid after opening of bids;
- (b) when we do not execute the agreement, if any, after placement of supply/work order within the specified period;
- (c) when we fail to commence the supply of the goods or service or execute work as per supply/work order within the time specified;
- (d) when we do not deposit the performance security within specified period after the supply/work order is placed; and
- (e) if we breach any provision of code of integrity prescribed for bidding specified in the Act and Chapter VI of these rules.

In addition to above, the State Government shall debar us from participating in any procurement process undertaken for a period not exceeding three years in case where the entire bid security or any part thereof is required to be forfeited by procuring entity.

We understand this Bid Securing Declaration shall expire if:-

- (i) we are not the successful Bidder;
- (ii) the execution of agreement for procurement and performance security is furnished by us in case we are successful bidder;
- (iii) thirty days after the expiration of our Bid.
- (iv) the cancellation of the procurement process; or
- (v) the withdrawal of bid prior to the deadline for presenting bids, unless the bidding documents stipulate that no such withdrawal is permitted.

Signed.:-----

Name :._-----

In the capacity of :-----

Duly authorized to sign the bid for and on behalf of:

Dated on day of

Corporate Seal .-----

[Note: In case of a Joint Venture, the Bid Securing Declaration must be signed in name of all partners of the Joint Venture that is submitting the bid].

ANNEXURE-A**SELF ATTESTED UNDERTAKING TO BE GIVEN ON FIRM'S LETTER HEAD**

We, the undersigned declare that:

1. Our firm, its affiliates of subsidiaries including any subcontractor or suppliers for any part of the contract have not debarred by the state government or the procuring entity or a regulatory authority under any applicable law.
2. We declare that we have complied with and shall continue to comply with the provision of the code of integrity including conflict of interest as specified for bidders in the RTPP Act 2012, RTPP Rules 2013 and the bidding document during the procurement process and execution of contract till completion of all our obligation under contract.
3. I/We possess the necessary professional, technical, financial and managerial resources and competence required by the bidding document issued by the procuring entity.
4. I/We have fulfilled my/ our obligation to pay such of the taxes payable to the Union and the State Government or any local authority as specified in the bidding document.
5. I/We are not insolvent, in receivership, bankrupt or being wound up, not have my/ our affairs administered by a court or a judicial officer, not have my/ our business activities suspended and not the subject of legal proceeding for any of the foregoing reasons.
6. I/We do not have, and our directors and officers not have, been convicted of any criminal offence related to my/ our professional conduct or the making of false statements or misrepresentations as to my/ our qualifications to enter into a procurement contract within a period of three years preceding the commencement of this procurement process, or not have been otherwise disqualified pursuant to debarment proceedings.
7. I/We do not have a conflict of interest as specified in the Act, Rules and the bidding document, which materially affects fair competition.

**Firm's Name
Seal & Signature**