

JODHPUR VIDYUT VITARAN NIGAM LIMITED
OFFICE OF THE SUPERINTENDING ENGINEER (MM&C)
 NEW POWER HOUSE, INDUSTRIAL AREA, JODHPUR –342 003
 Corporate Identity Number (CIN)-U40109RJ2000SGC016483 GST No. 08AAACJ8578R1ZJ

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SPECIFICATION NO.JDVVNL/SE/MM&C/TN-1638

Tenders are hereby invited in e-tender system for purchase of mini-truck/ van mounted single phase centralized control unit cable fault locating equipment 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)
1.	MINI-TRUCK/ VAN MOUNTED SINGLE PHASE CENTRALIZED CONTROL UNIT CABLE FAULT LOCATING EQUIPMENT	05 Nos.

NIT No.	TN-1638
Last date for receipt of tenders	30.07.2020 upto 12:00 PM
Date & time of tender opening	30.07.2020 at 3:00 PM
Cost of Specification	Rs. 2,950.00 (Two Thousand Nine Hundred & Fifty only) For MSME Of Rajasthan: Rs. 1,475 (One Thousand Four Hundred & Seventy Five only)
Processing of RISL	Rs. 1,000.00 per set (One Thousand only)
Bid security to be deposited	i) General Bidder : Rs. 650000.00 ii) Sick Unit of Rajasthan : RS 325000.00 iii) SSI unit of Rajasthan: Rs 162500.00*
Validity	120 days from the next date of opening of techno-commercial bid.

***In case SSI unit of Rajasthan quotes the less than the tendered quantity , then they are required to furnish Bid security @ 0.5% of the value of the quantity offered by them, failing which bid shall be considered non-responsive.**

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 attestdocumentary 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 29.07.2020 (04:00 PM)	www.jdvvn.com & http://www.eproc.rajasthan.gov.in
2.	Last Date of Deposit of cost of Tender Specifications, Processing fee & Bid Security	Up to 29.07.2020 (4:00 PM)	Office of Sr. A.O (Cash & CPC), JdVVNL , New Power House, Industrial Area, Jodhpur
3.	Last Date & time of submission of electronic bid	Up to 30.07.2020 (12:00 PM)	http://www.eproc.rajasthan.gov.in
4.	Opening of Technical Bid	30.07.2020 (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/- 1475/-**(Non-Refundable) 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. The Bid Security amount (as applicable) to be paid by demand draft/banker's cheque in favous of SR.AO(CASH & CPC), JDVVNL, Jodhpur (Payable at jodhpur) **342003 up to 4.00**

p.m.upto one WORKING day prior to schedule date of opening of respective bid or Bank guarantee, in specified format, of a scheduled bank in favour of superintending Engineer (MM&C), JDVVNL, Jodhpur be deposited to the Sr. Accounts Officer (MM&C), JdVVNL, New Power House, Industrial Area, Jodhpur-342003 **up to 4.00 p.m. up to one WORKING day prior to schedule date of opening** of respective bid and obtain a receipt/acknowledgement thereof. No other mode of deposit shall be accepted. At the time of depositing the Bid Security amount or Bank Guarantee, 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/-.

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 is 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

SECTION -III

TECHNICAL SPECIFICATION FOR SUPPLY OF MINI-TRUCK/ VAN MOUNTED SINGLE PHASE CENTRALIZED CONTROL UNIT CABLE FAULT LOCATING EQUIPMENT SUITABLE FOR LOCATING FAULT ON LOW /MEDIUM / HIGH VOLTAGE POWER CABLES UP TO 33 KV AGAINST TN-1638.

OBJECTIVES AND SCOPE OF WORK:

1.0 SCOPE :

- 1.1 This specification is intended to cover the design, manufacture, assembly, testing at manufacturer's works, supply, delivery, installation & commissioning of Special General Purpose Mini-Truck / Van Mounted Single Phase centralized control unit Cable Fault Locating Equipment Suitable for Locating Fault on Low /Medium / High Voltage Power Cables up to 33 KV Complete with all materials and accessories for efficient and trouble free operation.
- 1.2 It is not the intent to specify completely herein all details of the design and construction of equipments. However, the equipment shall conform in all respects to high standards of engineering, design and workmanship and shall be capable of performing in continuous commercial operation up to the Bidder's guarantee in a manner acceptable to the Purchaser, who will interpret the meanings of drawings and specifications and shall have the power to reject any work or material which in his judgment is not in accordance therewith. The offered equipment shall be complete with all components necessary for its effective and trouble free operation along with associated equipments, interlocks, protection schemes etc. Such components shall be deemed to be within the scope of supply, irrespective of whether those are specifically brought out in this specification and/or the commercial order or not.
- 1.3 The scope covers complete design, engineering & supply of the Comprehensive Van Mounted Multifunctional Cable Fault Locator system shall be used for Cable Fault conditioning (burn-down), Pre-Location, Route Location, Pin-pointing & Testing of HT & LT cables of different types & sizes. The set shall be suitable to carrying out the above-mentioned multifunction on power cables of various voltage levels mainly 33KV, 11KV, 415V and control cables with 1.1 KV grade. The set shall be used for cable types namely XLPE, PVC, PILC with Al / Cu conductor. The cables are laid underground (under plain earth, trenches, or RCC surface), above ground or partly under & partly above ground with maximum cable length around 25 Km.
- 1.4 The several runs of cables of different voltage levels are laid on common racks / underground trench and during the cable fault identification process, nearby cables shall be in charged condition; hence the accuracy of the set being offered shall not suffer due to the above. The set shall be capable to identify and locate faults for all types of cable faults including high resistance, low resistance or intermittent / flashing faults using a single or combination of units in the set. Vendor shall specifically mention the use of individual unit being offered for the particular type of fault with range. The various units being offered by the vendor as a comprehensive multifunctional set shall be fully compatible with each other, wherever required.
- 1.5 The Technical specification required of the various units attached to the comprehensive multifunctional set for Cable Fault conditioning (burn-down), Pre-Location, Route Location,

Pin-pointing & Testing are given below. Point-wise conformity to the specifications shall be submitted along with the offer without which the offer shall be liable for rejection.

The comprehensive cable fault locator set shall be suitable for fault locating and pinpointing the following types of cable faults viz.

- High resistance
- Low resistance
- Intermittent type or flashing faults.
- Sheath Fault location

The type of faults The Comprehensive Van Mounted Multifunctional Cable Fault Locator system shall be used for Cable Fault conditioning (burn-down), Pre-Location, Route Location, Pin-pointing & Testing of HT & LT cables of different types & sizes may be 3-phase short circuit, ground fault, phase fault and open circuit.

The cable fault locator set should be suitable to locate cable fault and trace cables in areas with multiple energized / de-energized cables in the same route without affecting the accuracy.

2.0 STANDARDS:

- 2.1 The equipment shall conform to the latest edition of the relevant standard. The bidder shall mention the applicable standard and shall furnish a copy of the authentic English version of the standard along with the offer.
- 2.2 Equipment meeting with the requirements of any other authoritative standards, which ensure equal or better quality than the standard mentioned above shall also be acceptable. If the equipment offered by the Bidder conforms to any other standard adopted and the specific standards shall be clearly brought out in relevant schedule. Two copies of such standards with authentic English Translations shall be furnished along with the offer.

3.0 CLIMATIC CONDITIONS:

Equipment to be supplied against this specification shall be suitable for satisfactory continuous operation under the following tropical conditions:-

S. No.	Particulars	value
1.	Peak ambient air temperature in shade.	55 DEG C
2.	Minimum ambient air temperature in shade	(-) 5 DEG C
3.	Maximum relative humidity.	95%
4.	Minimum relative humidity	10%
5.	Dust storms are liable to occur during the period	from March to July
6.	Height above mean sea level	less than 1000M
7.	Average number of thunder storm days per annum.	65 DAYS
8.	Average annual rainfall	10-100 cm (Depending on area)
9.	Number of months of tropical monsoon conditions p.a.	4

Note:

Climate may be moderately hot and humid tropical conducive to rust and fungus growth. The climatic conditions are also prone to wide variations in ambient conditions. Smoke is also present in the atmosphere. Heavy lightning also occurs during June to October.

4.0 GENERAL REQUIREMENT

The system should be capable for conducting the following functions:

- a) Cables to be tested up to 33kV.
- b) Pre – locating of faults by the following method
 - Pulse Reflection Method (Pulse Echo)/TDR Method
 - Secondary Impulse Method / ARC Reflection Method (ARM)
 - Impulse Current Method.
 - Decay Method
- c) DC Test set 0-40 kV or more.
- d) Surge generator 0-32 kV
- e) Pin Pointing of cable fault using acoustic method, coincidence method and delay time mode method with suitable display to indicate various parameters.
- f) Cable route tracing by audio frequency generator or any other latest technique in order to give depth of the cable etc. on LCD display.
- g) Cable identification from bunch of cables
- h) Cable Drum Rack

4.1 The single phase measuring set up shall be provided with 50 mtr of HT cables, LT main cable, earthing cable, and RF cable.

Note: Cables shall conform to relevant standards.

4.2 The CFL van shall have practical safety devices including automatic checks inter-locking circuit, built in forced discharge circuit and the high voltage can be prepared only after all prerequisites are checked by the safety circuit so as to ensure that no damage is caused to the equipment in case the surge lead is connected to a live HT cable accidentally that is necessary protection against back feeding to be provided in any of the cases described below.

4.3 The output voltage shall remain turned off or cannot be turned on in case of :

1. Undue voltage rise in the output on earthing connection on the surge capacitor.
2. Flash over in the testing mode.
3. Thermal overloaded of the voltage stages of particular component such that the cause of disconnection shall be indicated by signal lights (LED's).
4. If the back door/ HV side of the VAN is open.

4.4 The complete system shall be made operative via centralized control unit responsible for various functions i.e. testing, burning, surging and SIM mode and continuous monitoring of the safety circuits shall be indicated on centralized control unit.

4.5 The control unit shall be provided with suitable digital voltagemeter and ammeters.

4.6 The system should be capable of locating all types of permanent and transient faults viz. core shorts, core to earth shorts, high impedance faults, core breaks, flash over etc.

4.7 The system should work on input supply of 220 V \pm 10%. 50 Hz single phase supply to safeguard the equipment against the abnormally high / low voltage current, the power supply current with a suitable protection system should be incorporated in power supply system. The equipment should be suitable for operation in JODHPUR DISCOM where ambient

temperature may go up to 50 deg C. The supplier shall commission the equipment and guide our Engineers in the testing procedure with complete literature of the equipment.

5.0 CERTIFICATE AND INSTRUCTION BOOK :

The supplier/contractor shall be required to furnish to the purchaser office/consignee, whichever is necessary the following documents along with the consignment.

- Printed pamphlets/catalogues.
- Instruction Book
- Test Certificates.
- Guarantee card.

6.0 DETAILED TECHNICAL SPECIFICATION :

The cable fault locating system shall consist of the following:

- Microprocessor based Transient Recorder/Fault Locator.
- D.C Test, Surge and Burn Units.
- A pin – pointing set, cable route tracer, cable identification set and measuring wheels etc. should be supplied. All necessary cables should be supplied suitably mounted on drums. The system shall work on input supply of 220 V \pm 10%, 50 Hz, \pm 5% single phase.
- Constant monitoring of all safety circuits such as monitoring circuits etc to be in built in control unit.

6.1 COMPREHENSIVE INTEGRATED HV FAULT PRE-LOCATON & CONTROL UNIT :

Pre-location of faults in cables shall be carried out using the principle of Secondary Impulse Method/ Arc Reflection Mode with the help of highly sophisticated Menu driven microprocessor based Digital Fault Locator. The equipment should have at least following features:

- Should be fully menu-guided
- Should feature interactive menu-guidance
- Should have automatic cursor setting for fault location
- Should have measuring input voltage proof min 250 V
- Display should be color LCD.
- Should have facility for printer connection via RS 232/USB
- Should have facility for data transfer to PC through RS 232/USB
- Should have facility for memory up to 100 records.
- Suitable software to be provided for handling, storage and analysis of results as a part of the unit.
- It should have automatic far end indication and fault recognition with distance indication.
- The instrument shall have the features to display the fault trace and continuous reflection traces. In addition the instrument should have a feature to display differential trace of faulty cable with respect to a healthy cable.
- **Should support following methods:**
 - Pulse Echo Method / Time Domain Reflection (TDR)
 - Secondary Impulse Method (SIM)/Arc Reflection Method
 - Impulse Current Method (ICM)
 - Decay Method

Technical data:

- Output voltage of transmitting pulse: Min 10V upto150 V
- Pulse width of transmitting pulse: (40ns ... 04us) min
- Voltage withstand: 250V AC (50/60 Hz)
- Output impedance: 20-1600 Ohms Auto ranging as well as manually selectable.
- Measuring ranges @ $v/2=80m/\mu s$: 50m-50Kms Auto ranging as well as manually selectable.
- Measuring accuracy: Within 3Mtr in all ranges
- Sampling rate: 200 MHz
- Resolution: min 1.5 m
- Propagation velocity $v/2$: 100-150 m/ μs
- Number of memories: at least 100
- Display: LCD display
320x240 resolution
- Power supply for operation and/or charging: 100-240V (50/60 Hz)
- Operating temperature: -20 ... +55°C
- Storage temperature: -20 ... +60°C

Dimensions : To be specified by the Bidder
 Weight : To be specified by the Bidder

6.2 DC High Voltage Test set :

It shall also be possible to carry out the Insulation Testing and high voltage DC testing of the cable under test from the same unit. The comprehensive set shall be utilized for performing the high voltage DC testing of the cables for accessing the health of the cable insulation by measuring the leakage current. It shall have the following features:

- (a) The unit shall be handy/Van Mounted and of rugged construction. It shall have built in discharge unit for automatic discharge after shutdown.
- (b) The set shall have all the safety features necessary for the protection against high voltage e.g. auto discharging after switching off, high voltage ON/ OFF with security, Auto-OFF in case of break in power supply etc.
- (c) The DC Cable Test Voltage of the Set shall have a range of 0 – 32 KV min DC Voltage.
- (d) The set shall be provided with an adjustable leakage current range up to at least 50mA with a minimum resolution of 1 mA. It shall also be provided with a leakage current indicator.
- (e) The set shall automatically trip on the leakage current exceeding the set limit value with the display of breakdown voltage.
- (f) The unit shall include mains leads, earth cable, HV connecting cable, earth terminals, battery connecting cables with battery clips, all required and related accessories with carrying case and users' manual with complete operating and maintenance instructions.

D.C. Testing: 0-32KV min DC Continuously adjustable (Auto Ranging)

6.3 Surge Generator Unit:

The Surge Generator Unit shall be used as thumper for charging of cable under test (i.e. defective cable) till sufficient flashover is achieved at the point of fault. The set shall be used in conjunction with Surge Receiver Unit for fault pinpointing. It shall have following features:

- (a) Surge Voltage Range: 0-4KV, 0-8 KV, 0-16 KV & 0-32 KV
- (b) Surge Energy: Minimum **2000 Joules or more** in each range except 0-4KV where it should be 2000 Joules or more.

Note: Surge energy should be displayed during testing.

- (c) The set should be provided with standard safety features like 'Zero start voltage interlock', 'High voltage ON lamp', automatic grounding upon shutdown, Auto-OFF in case of power supply break and overload protection with circuit breaker etc.
- (d) Surge rate: continuously variable from 3 Sec to 8 Sec min. & Single impulse feature shall also be available.
- (e) The unit shall be compatible for use with Surge Receiver Unit and Arc Reflection Unit.
- (f) The unit shall include mains leads, earth cable, HV connecting cable, earth terminals, battery connecting cables with battery clips, all required and related accessories with carrying case and user's manual with complete operating and maintenance instructions.

Impulse	:	0-32 kV in suitable steps of 0-8/0-16/0-32 kV and each step continuously variable.
Surge Energy	:	2000 Joules (Min)
Impulse interval	:	Single shot, 20 per minute approx.
Safety Protection	:	- 2 automatic discharging devices (internal and external discharge) - Reliable operated surge switch electromagnetic operated - Separate system and protection grounding device - Safety control circuit according to VDE 0104
Fault Burning	:	Up to 210mA (min.)
Surge Generator LT or Thumper		
Voltage Range	:	0-4KV
Discharge Energy in Joules	:	2000 Jules (min.) or more

Note: Surge energy should be displayed during testing.

6.3.1 Filter Unit or ARC reflection Filter Unit or ARC Stabilizing:

Generally pulse echo or reflection method is applied for cable fault location however it may not be suitable for high impedance or resistance faults. Therefore to overcome these limitations in pulse echo method, a suitable band pass filter unit should be supplied to stabilize this ARC at the flashover or the point of fault.

The offered filter must simplify the operation causing less stress, causing minimum damage on the tested cables to detect the high resistive faults. There should be complete compatibility of TDR, Surge Generator/Thumper with the filter unit. This unit must filter or stabilize the arc at the fault point and record the same in the supplied TDR to compare it with previous trace recorded without the filter unit in the same core. Suitable coupler for coupling the filter unit with the TDR and Surge generator must be supplied.

The offered filter must contain switching elements necessary for the triggering and the coupling of the pulse. After the pre-location using the SIM/ARM method, there must a decoupling element which must by pass the surge generator for making it ready for use in

pinpointing the cable fault. The control unit should connect automatically the filters with appropriate coupler with the surge generator and TDR when ARM/SIM mode.

6.3.2 Inductive coupler:

Inductive Coupler for pre-location of high resistance faults with a Surge Voltage Generator according to the Impulse Current Method (ICM).

6.3.3 Capacitive coupler:

Capacitive voltage divider for location of intermittent cable faults up to 32 KV to perform the Decay Method.

6.4 Integrated Fault Conditioning Unit (Burn-Down Set):

This set shall be capable for burning down high resistance faults in cables to facilitate the fault pre-location. The Unit shall have the following features:

- (a) The voltage range of the Burn-down Unit shall be at least up to 0-32 KV with adjustable current up or more 210 mA.
- (b) The unit shall be provided with applied Voltage & fault discharge current meters.
- (c) The Unit shall be provided with a thermal overload protection and shall have auto-reset feature.
- (d) The Unit shall be provided with protective terminals to prevent accidental contact.
- (e) The Unit shall be provided with safety earthing facility for safe operation.

6.5 Surge Wave Receiver Unit (Pin-Pointing Set):

It shall function as a directional acoustic listening device for pinpointing of flashover faults in underground power cables. It shall have the following features:

1. The unit shall be handy & rugged, and shall comprise of receivers, headphones, sensors, amplifiers and any other auxiliary items as necessary for operation of the unit. The set should provide detection of both acoustic and electromagnetic pulses emitted from an arcing fault when it is surged.
2. The set should be able to determine the proximity and direction to the cable fault by measuring electromagnetic surge and acoustic emission.
3. The set should be able to measure the time delay between acoustic and electromagnetic signals.
4. In the acoustic mode the set should have a feature to filter and eliminate background noise and electromagnetic interferences.
5. It should be able to pinpoint the exact location of the fault.
6. The instrument should be battery operated.
7. The set should have mute feature to activate while in motion.
8. It should have adjustable feature for adjusting the electromagnetic gain & acoustic gain.
9. It should have an LCD display with backlit feature.
10. The unit shall be provided with acoustic headphone set to receive the acoustic signal for pin pointing the fault point.
11. The LCD display shall indicate the cable route through the electromagnetic signal in bar graph form & the proximity to fault point by a numeric display.
12. The unit shall include lightweight receiver with carrying straps, handy sensor, all required and related accessories with carrying case and user's manual with complete operating and maintenance instructions.

Features:

- Acoustic method including manhole distance location
- Accurate route tracing
- Digital indication of proximity of the fault
- Cable depth measurement in combination with the surge coil
- Water-resistant design
- Integrated head phone
- Large illuminated LCD display
- Digital filters for suppression of traffic noise
- Easy menu operation
- Lightweight

6.6 CABLE ROUTE TRACER:

The Cable Route Locator shall be suitable for cable fault location process of underground cables by identifying the cable from the surface, without excavation. The equipment shall be capable of tracing the buried cables with the ability to measure the depth of the cable. The unit shall have at least the following features:

- a. The set shall comprise of a transmitter & receiver.
- b. The set shall be battery operated (rechargeable) and portable type, rugged construction with necessary accessories & bag / case.
- c. The cable tracing shall be done with audio & visual signals so as to make it easy to follow & trace the cable route.
- d. It shall be possible to detect the depth of the cable (at least 4 meter) at any point by using sufficient wattage of the generator up to 200 watts at least.
- e. Automatic impedance matching shall be required for better operations.
- f. It shall also be possible to detect the AC signals (50 Hz) from a charged cable without transmitter.
- g. Filters shall be provided to optimize the measurements and minimize the ambient noise.
- h. The transmitter of the tracer should be capable of energizing the cable either by magnetic induction or by direct conductive connection to the cable.
- i. The receiver should filter out electric noise and static noise.
- j. The unit should also be able to determine the depth of the cable.
- k. The unit should be suitable to trace cables in areas with multiple energized / de-energized cables in the same route.

a) Audio Frequency Generator:

The audio frequency generator should be ideal for locating the route of underground cable as well as for pinpointing of cable faults when used with receiver and identification of particular cable from the bunch of the cables.

Technical Specification:

LF output power:	200 Watt or more (adjustable normally or automatically)
O/P Frequencies:	To be indicated by the bidder/contractor.
Output Adjustment	to be specified by the bidder
Permitted load resistance:	any short circuit, open circuit, continuous but with reactive load etc
Power Supply:	Unit should be capable to work on mains AC supply with built in charging and battery unit.

b) The audio frequency receiver:

The audio frequency receiver set should be battery operated and suitable to above frequencies. The receiver should be connected directly to the search coil. The coil can be rotated to 0-45 degree or 90 deg spans in position for added veracity should have set fourth high impedance and should provide maximum attenuation of external noise.

6.7 Cable Identification Set:

The system is to be used for selection of single core and multi core cables from a bunch of cables. The system should consist of a transmitter and Receiver unit and shall be light, portable, with facility to identify even live cables. The unit should be completely menu – driven, with graphic display.

Technical Data**Transmitter**

Output voltage	: 100V (min.) (15 pulses/min)
Output current	: 100A (min.) or more
Power Supply	: 230v, 50 Hz/ Battery operated

Receiver

Display	: Graphic LCD/ Analog signal
Sensitivity	: 100%; at 400 Ω loop resistance
Power Supply	: Battery operated

6.8 Connection Cables:

All the cables required for the operation of the cable Fault Locating system shall be at least 50 mtrs. Mounted on suitable drums along with RF cable of 50 mtrs. Cable for operating the fault locator in detached mode Viz. earthing cable, main cables, HV cable, auxiliary earthing cable.

Cable drum rack

Hand operated cable drums with lockable brakes for accommodation of:

- 50 m high voltage cable
- 50 m mains cable 3x4 mm²
- 50 m ground cable 16 mm²
- 50 m RF cable (TDR)
- 50 m Auxiliary Cable 16 mm²

High Voltage Cable

50 m flexible HV coaxial cable with coaxial plug, connection clamps and strain relief

Rated voltage:	80 kV DC -
Insulation material:	EPR

Mains cable

50 m, 3x4 mm², with mains plug
Mains plug type CEE 32A

Ground cable

50 m with tapping ferrules every 3 m, including clamps
Type: YF 16 mm² transparent

RF Cable

50 Meters for connecting the TDR to the faulty cable. This should be separate as the combination of HT and TDR cable shall not be suitable as the HT cable generally gets faulty in operation.

Auxiliary earth cable

15 Meters for creating an auxiliary earth in case of non availability of system earth to safeguard the system.

6.9 Tools:

The following Tools shall be supplied.

- Discharging Rods 80 KV
- Measuring Wheel,
- Operator Cabin Fan
- Earth Spikes
- Digital Multi-meter Reputed make
- Insulation Tester 0-10 KV (5 mA short Circuit Current)
Make: Reputed make
- Set of spanners, screw drivers etc.

Any other tool not mentioned above but otherwise required should also be supplied.

6.10 Safety Measure:

The control unit should be Computerized (menu driven) based and responsible for all the control operation of various functions such as Mode Selection Surge Test, Burn and Arc Reflection, Range Selection, Voltage and current limit adjustment, Surge sequence selection, auto discharge, earth monitoring, etc. from a single button and no access to the high voltage side shall be available to the operator as well as Operator guidance with on-screen help texts. The control unit should provide a visual indication of failure of safety circuits/incorrect selection etc. with possible corrective methods. Constant monitoring of all safety circuits such as earth monitoring circuit etc. should be inbuilt into the control unit, safety interlock monitoring etc. Safety function should be incorporated in the van suitably.

6.11 Mounting Van for the Comprehensive Set:

All the Units of the Comprehensive Van Mounted Multifunctional Cable Fault Locator system consisting of Cable Fault conditioning (burn-down), Pre-Location, Route Location, Pin-pointing & Testing of HT & LT cables shall be mounted on a suitable Equipment Mounting van with Power Supply connection arrangement fitted with at least four heavy duty wheels and one hook at the front for facilitating transportation by means of a vehicle. However, it shall be also possible to use each unit of the comprehensive set independently for the respective functions.

6.12 Mounting, Pre wiring and Mechanical fittings on Van:

Steel frame for mounting the following instruments:

- i) Computer Aided fault locator
- ii) High pressure test: All the equipments should be mounted on steel frames.
- iii) Rotating cable drums should be provided for:
 - HV cable drum-50m
 - Mains cable drum-50m
 - Earthing cable drum-50m
 - Auxiliary earthing drum-50m
 - R.F. cable drum-50m
- iv) Safety screens be provided to isolate the HV area from operating area.
- v) Suitable cupboards and tables for storing hand held instruments, writing desk.
- vi) Revolving chair for operator and sitting arrangement of 4 persons.
- vii) Diesel driven van with conditioning.
- viii) Fully carpeted side walls & roof for Electrostatic Protection.
- ix) Fully Insulated floor for safety.

7.0 Generator-set:

The generator-set shall meet the below mentioned specifications. & has to be placed at specially created housing in the van body / side body of the van.

Rated Output	5.6 KVA
Maximum Output	6.5 KVA
Rated Voltage	220 Volts
Frequency	50 Hz
Fuel	Petrol / 3 Ltr Per Hour
Starting	Self Start by key
Oil Alert	Provided
AVR	Automatic Voltage Regulation
Frame	Pipe Full Frame
Battery	Extra
Dimension (LxWxH) mm	708 x 548 x 493
Weight (Dry)	78 Kgs approx

Preferred make: HONDA/TOSHIBA

8.0 Specifications for Fabrication of CABLE FAULT LOCATING VAN on vehicle.

I. Body Structure: The structure shall be made of steel sections as mentioned below & 12 mm thick Blata Packing with anti-vibration (Reinforced Rubberized Flat Section) over chassis frame:

- (a) Runner / Strengthening member – MS Channel 100x50x5mm
- (b) Cross Member - MS Channel 75x40x4mm
- (c) Floor frame - MS Angle 40x40x5mm
- (d) Super Structure (Hoop Sticks) - Top Flat section 40x40x2.5mm/
MS Square Tube 40x40x2mm
- (e) Super Structure(Roof Curvature/ - Top Flat Section 40x40x2.5mm
Taper & Flat surface) MS Square Tube 40x40x2mm
- (f) Entire structure , spring Leaf Floor Angles are to be anti-corrosive treatment

And paints .

- (g) Vehicle should be in one cabin.
- (h) Rear End is to be provided with red reflectors.
- (i) Mud Guards are to be provided.
- (j) Ballata Packing (Rubber Packing between Chassis & body).
- (k) Stairs should be with aluminum checkered plate.
- (l) Lock Should be of good quality(Godrej with OEM certificate)

II. Paneling:

- a) External - 18SWG G.L Sheet
- b) Roof - 20SWG G.L.Sheet
- c) Internal - Carpeting Over 3mm Fly.

III. Insulation: All Walls and roof will be insulated with 40mm thick thermocoal Sheet.
- Fully Carpeted side Walls & Roof for Electrostatic protection.

IV. Flooring: Base of Floor - Water Proof Ply 12mm thick Screwed through base floor of 3/6 mm MS .Sheet welded to floor frame.
Upper Layer - Vinyl Floor Sheet 2mm thick fixed over fly.

V. Doors:

- a) Hinged type doors (Double leaf inside collapsible) shall be provided for Main Compartment.
- b) Hinged Type outside open able (Ambulance type) rear doors
- c) Rear door to be provided with cable cutout section (6"x6")

VI. Windows: Adequate size of windows two way horizontal full sliding glass of 5mm thick Toughened glass encased in Aluminum Sections slide on Aluminum 'Z' Section in crew compartment. The window shall have including robust type locking arrangement from inside. In equipment portion both sides shall have fixed Window. All glass windows should be covered with removable metal frame with metal net.(Should be Protected from Stone).

VII. Electrical Fitments:

- a) 05 Nos. Light and 02 Nos. Light Battery Operated.
- b) Fan (3 nos.)
 - c) Tube Lights and Fans should be mounted such that its frame should not be touch or isolated from vehicle body.

VIII. Painting: Complete body of the Van will be Painted OFF WHITE colour With P.U. Paint after surface treatment.

IX. Others: Van will be fabricated as per standard fabrication practice and Specifications confirming to All India Motors Vehicles Act. Provisions of Standards Fitment will be kept such as First Aid Box, Fire Extinguishers, Rear Bumpers, Stephaney, Cradle, Tool Box, Rear View Mirrors etc.

X. Guarantee (For VAN): Notwithstanding to that specified in this specification, the supplier is responsible to provide all necessary component for satisfactory working of the system in locating the fault in the cable. The VAN should be guarantee as per the manufacturer's specifications. The supplier shall have to offer to JDVVNL the same

standard Guarantee card of the principal manufacturer of the Van. Registration of the van shall in the name of purchaser.

11.0 Detailed scope of work:

The overall scope comprises to supply and installation of cable fault locating machine, training and post installation support.

(i) Supply and Installation of fault locating machine :

To supply cable fault locating system at office spread across the jurisdiction of the Discom. The supply and installation will be made at JdVVNL site across the Discom. All the items will be in the name of JdVVNL / licensed to JdVVNL.

(ii) Operation and Training :

To provide classroom training to the 5 Nos. personnel of the Discom at each district headquarters, where the machines are to be supplied.

The vendor will provide training to Discom Personnel at district headquarter in at least one or more batches. Each batch will cover 5 people. The training will be provided by trained coaches who are competent in the subject.

NOTE: The supplier of the fault locating machine shall post one trained person at their own cost for operation of the cable fault locating system for one year on each district head quarter where the machine is to be supplied. During this period the person would locate cable faults as appear from time to time using fault locating machine and at the same time provide onsite training to the engineers/technicians of the JDVVNL.

The vendor will have make its own arrangement of boarding, lodging, travel etc for its instructor(s) at the district headquarter.

(iii) Guarantee and post installation support :

All the supplied cable fault locating machines to have comprehensive onsite guarantee (inclusive of parts and labour) for 66 months from the date of supply or 60 months from the date of installation & commissioning. Post installation support as per the given service levels.

S. N.	Item	Service level
1.	General Purpose Mini-Truck/ Van Mounted Single Phase Centralized Control unit Cable Fault Locating Equipment Suitable for Locating Fault on Low /Medium / High Voltage Power Cables up to 33 KV.	To be attended within 12 hours The fault to be removed within 36 hours In case the problem remains unresolved for more than 72 hours then the Machine will have to be replaced with a standby. On repair of the fault the original machine will have be replaced with the standby machine If the repair is not removed within 1 Month, then the vendor will have to supply new Machine.

The vendor will have to create a central help desk at Jodhpur to register the complaints of the users. The help desk application should allow the help desk personnel log the user's complaint along with date and time.

The helpdesk will operate from 9.00 am to 6.00 pm on all working days. The list of holidays and regional offs are declared by the state government every year. The vendor will have to confirm the holidays / regional offs with JDVVNL before assuming that the office is closed.

The help desk will have facilities management staff in adequate numbers in order to attend the problems as per the given service levels.

The help desk will have Fax / telephone / etc facility so as to find out the status of complaint / facility management personnel availability etc for communication with JDVVNL.

These numbers will be informed to concerned SE (O&M) and the nodal officer in writing. Any change in the numbers will have to be informed immediately.

Help desk will have personnel and telephone in coming lines in adequate numbers to attend the complaint promptly. The complaint will be deemed to be rectified when the faulty equipment is rectified successfully and the facility management personnel takes the written sign off from the concerned officer in charge.

(iv) Extended Guarantee :

The extended guarantee period shall be for 5 (Five) years after expiry of the initial guarantee period of 5 (Five) years. The obligation of the supplier during extended guarantee period shall be same as defined in the initial guarantee period.

We intent to award post warranty annual maintenance and repairs contract for a period of five years. The annual maintenance & repairs rate contract includes cost of labour and materials/ components. A separate performance bank guarantee must be deposited by the successful tenderer at the rate of 5% of charges quoted for five year, before completion of the initial guarantee period of five years.

The extended warranty shall come into force after expiry of initial guarantee period, i.e., free service shall be provided in the extended guarantee period during which no charges of any sort shall be payable.

This would include minimum one monitoring visit, **once in a month**, by the supplier's representative.

The extended guarantee contract may broadly include the following.

- (a) Scheduled **monthly** inspection and maintenance of the equipment towards preventive maintenance based on specific need of the equipment.
- (b) Unscheduled on call corrective and remedial maintenance services to set right any malfunctioning of the equipment, replacement of unserviceable components, as per the nature of the complaint so that the equipment is placed in to service again. It is expected that such calls shall be attended within a period of 12 hours of receipt of such intimation from the field officers so that there is minimum down time of the equipment.
- (c) The format of reporting for said visit shall be mutually finalized after issue of order.

The extended guarantee contract shall form part of supply contract. **The charges as would be quoted by the tenderer for such extended guarantee contract for 5 years shall be loaded in the quoted prices of the main equipment to arrive at computed adjusted prices for comparison purpose and to award contract to most economical proposal, i.e. supply of equipment + extended guarantee cost involved for 5 years after expiry of normal guarantee period of 60 months from supply.**

Payment of annual extended guarantee contract shall be made annually on prorata basis after expiry of one year period on verification of bills by the Engineer designated for particular station where services are to be rendered by the supplier.

(v) Penalty :

In case the supplier fails to adhere to attend the service level as mentioned above and also fails to provide standby machine within 72 Hours, penalty of Rs. 10,000/- per day subject to maximum of 10% in all respect of the Purchase Order value (without GST) will be levied by JDVVNL.

(vi) REPLACEMENT OF DEFECTIVE/DAMAGED MATERIALS:

Notwithstanding anything contained in the above liquidated damages clause when the whole or part of the supplied by the supplier are found to be defective/damaged or are not in conformity with the specification or sample, such defects or damages in the materials / equipments installed shall be rectified within 72 hours from the date of intimation/information from the system of defect/damage either at the point of destination or at the supplier's works, at the cost of supplier, against proper security and acknowledgement. If the defects or damages are not rectified or replaced within this period, the vendor shall pay a sum towards liquidated damages as per liquidated damages clause given above, for the delay in rectification/replacement of the defects or damages. Though all substations are manned by Nigam employees/staff, the substation attendant of the utility shall ensure the proper upkeep of the system at field; however, contractor shall monitor the same for operational defects.

12.0 ADDITIONAL ORDER

Repeat orders 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.

13.0 QUALITY ASSURANCE PLAN :

- 1) The Bidder shall invariably furnish following information along with his offer, failing which the offer shall be liable for rejection. Information shall be separately given for individual type of equipment offered.
 - i) Statement giving list of important raw materials, names of sub-suppliers for the raw materials, list of standards according to which the raw material are tested, list of tests normally carried out on raw material in the presence of Supplier's representative, copies of test certificates.
 - ii) Information and copies of test certificates as in (i) above in respect of bought out items.
 - iii) List of manufacturing facilities available.
 - iv) Level of automation achieved and list of areas where manual processing exists.
 - v) List of areas in manufacturing process, wherestage inspections are normally carried out for quality control and details of such tests and inspections.
 - vi) Special features provided in the equipment to make it maintenance free.
 - vii) The bidder should have adequate facilities to carryout accurately all required tests during manufacturing and routine/acceptance tests as per relevant ISS/IEC standards at the final end routine/acceptance. The supplier will ensure that all testing/measuring instruments/apparatus are calibrated at regular periodicity from reputed test house as per relevant standards and a certificate of testing authority is made available to purchaser's inspector at the time of inspection. Such calibration certificates, in any case shall not be older than one year on the date of such tests".
 - viii) List of testing instruments and apparatus along with their last date of calibration, available with the Bidder for testing of equipment specified and test plant limitation, if any, vis-a-vis the type, special, acceptance and routine tests testing during manufacture specified in the relevant standards. These limitations shall be very clearly brought out in "Schedule of Deviations".
- 2) **The Supplier shall also submit the following information to the Purchaser, along with drawings/GTPs/BOM of ordered material, within 15 days of placement of order for purchaser's approval:-**

- i) Name of the raw material as well as bought out accessories and the names of sub-suppliers selected from those furnished along with the offer.
 - ii) Test certificates of the raw material and bought out accessories/items.
 - iii) Quality Assurance Plan (QAP) withhold points for Purchaser's inspection. The QAP and Purchaser's hold points shall be discussed between the Purchaser and the Supplier before the QAP is finalized.
- 3) The Supplier shall submit the routine test certificates of bought out items and raw material at the time of routine testing of the fully assembled equipment.

14. Purchasing on the Risk & cost of supplier, in case of non-execution of order/delay in delivery.

As per field requirement, as it is, material (s) / equipment (s) is /are urgently required to Nigam and for which final notice has been given to supplier but supplier is being breach of agreement against stipulated delivery schedule, if at any time during the currency of the contract, the performance in whole or in part be prevented or delayed by more than the three months of the delivery schedule, the purchaser reserves the right to procure the material/equipment on order or part thereof from any other source at the risk and cost of the contractor/ supplier.

15. Detailed Scope of work :

The bidder/ OEM or jointly or subsidiary firm/ company of the OEM situated in India, shall quote price of all spare parts along with financial bid at which the work order will be awarded as per requirement in addition to the AMC charges.

16. After Opening of Techno-commercial Bid, each bidder/OEM or jointly or subsidiary firm/ company of the OEM situated in India will have to arrange a demonstration of its product, if required by the Nigam.

- 17.** 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.

- 18.** Every Micro, Small & Medium enterprises of Rajasthan shall be required to submit an affidavit in schedule-XI, along with duly filled bid document

SCHEDULE OF REQUIREMENT

Name of the Item	Quantity
MINI-TRUCK/ VAN MOUNTED SINGLE PHASE CENTRALIZED CONTROL UNIT CABLE FAULT LOCATING EQUIPMENT SUITABLE FOR LOCATING FAULT ON LOW /MEDIUM / HIGH VOLTAGE POWER CABLES UP TO 33 KV	05 Nos.

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

SCHEDULE- II

**PURCHASE OF MINI-TRUCK/ VAN MOUNTED SINGLE PHASE CENTRALIZED
CONTROL UNIT CABLE FAULT LOCATING EQUIPMENT AGAINST TN-1638**

PRICE ARE `FIRM`

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 material/equipment/ Machinery/T&P shall confirm confirm	Name of IS/other standard specification to which material should	Other particularsto which if any.
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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 material/equipment/ Machinery/T&P shall confirm confirm	Name of IS/other standard specification to which material should	Other particularsto which if any.
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(Signature)

Name & Designation with seal of the bidder

SCHEDULE-III-A**QUALIFICATION REQUIREMENT****ITEM:-MINI-TRUCK/ VAN MOUNTED SINGLE PHASE CENTRALIZED CONTROL UNIT CABLE FAULT LOCATING EQUIPMENT (TN- 1638)**

The **bidder/OEM or jointly or subsidiary firm/ company of the OEM situated in India** 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/OEM or jointly or subsidiary firm/ company of the OEM situated in India must be a Manufacturer/ Distributor or bona-fide dealer in the goods (Cable Fault Locating Machine).**
- b) **Old/ New suppliers:- Any bidder/OEM or jointly or subsidiary firm/ company of the OEM situated in India** 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/OEM or jointly or subsidiary firm/ company of the OEM situated in India shall meet both past supply and performance criteria as detailed below for opening of tenders:-

2.01 PAST SUPPLY:-

- 2.01.1 The bidder/OEM or jointly or subsidiary firm/ company of the OEM situated in India is required to quote for minimum 10% of tendered quantity failing which their offer may be considered Non-Responsive.
- 2.01.2 The bidder/OEM or jointly or subsidiary firm/ company of the OEM situated in India 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 5 financial years** from the date of opening of technical-commercial bid.

Note: Requirement of quantity manufactured, minimum quantity to be offered and amount of Bank Guarantee to be furnished in absence of test certificate shall be reduced to 25% for Rajasthan based units.

- 2.01.3 In support of fulfillment of the past supply criteria, The bidder/OEM or jointly or subsidiary firm/ company of the OEM situated in India 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/OEM or jointly or subsidiary firm/ company of the OEM situated in India 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 on the letter head. Certificate should clearly indicate the quantity supplied, period of supply, voltage Class, Rating of the offered equipment 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/OEM or jointly or subsidiary firm/ company of the OEM situated in India has supplied up to 50% of ordered quantity in previous tender up to date of opening of subsequent tender and scheduled delivery period expired, the bid of such **bidder/OEM or jointly or subsidiary firm/ company of the OEM situated in India** 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 up to 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/OEM or jointly or subsidiary firm/ company of the OEM situated in India**.

3.0 **TEST CRITERIA:-**

- 3.01 The bidder/OEM or jointly or subsidiary firm/ company of the OEM situated in India shall furnish valid and authenticated 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 test certificates should not be older than 5 years as on the date of bid opening. For this purpose date of conducting test will be considered.

The test certificate by in house laboratory of private tendering firm/OEM 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/OEM or jointly or subsidiary firm/ company of the OEM situated in India should furnish documentary evidence in support of the laboratory whose 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 test certificates shall be furnished either in original or copy duly attested by notary.

- 3.04 The bids of only those bidder/OEM or jointly or subsidiary firm/ company of the OEM situated in India shall be considered to be meeting the test criteria who furnishes complete test certificate with the bid as per above provision.

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 Severmentof 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. Onseverment 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.
- V) **The date of conducting test shall be before the date of opening of Technical Bid.**

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. JdVVNL/SE/MM&C/TN-**1638** 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 Test Certificates.
1	2	3	4	5	6
1	Mini-truck/ van mounted single phase centralized control unit cable fault locating equipment suitable for locating fault on low /medium / high voltage power cables up to 33 KV	5			

- The offer is valid for a period of 120 days from the date of opening of this tender.
- The prices are 'FIRM'.
- 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. (Section-II), we are liable to pay recovery for delay in delivery as per clause No. 1.24 of this SECTION-II of this specification.

The material shall conform to your specification No. JdVVNL/SE/ MM&C/TN-**1638** 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. JdVVNL/SE/MM/TN-**1638** 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.
--	--------------------------------------

(Signature)

Name & Designation
with seal of the bidder.

Schedule – V(A)

SCHEDULE OF GUARANTEED TECHNICAL PARTICULARS FOR GENERAL PURPOSE PORTABLE CABLE FAULT LOCATING EQUIPMENT & VAN AGAINST TN-1638.

(TO BE FURNISHED ALONG WITH TENDER)

S.N.	Description	Technical Particulars Offered
1.	Name & Address of the Manufacturer/ Dealer / Distributor	
2.	Manufacturers'' Address of works	
3.	Digital Fault Locator :	
i	Make	
ii	Model	
iii	Mains Supply	
iv	Sampling Rate of built in transient recorder	
v	Does the unit automatically mark and display the fault point with distance provided in KMs	
vi	Automatic Parameters setting	
vii	Does the equipment detect cable end automatically even when the cable length is not available	
viii	Operating Range in terms of KMs	
ix	No. of Records stored with all the parameters	
x	Horizontal and vertical shifting of displayed waveforms	
xi	Gain selection and enlargement facility without loss of resolution and accuracy	
xii	Fault Location methods offered	
xiii	Facility to connect printer directly	
xiv	Does the equipment perform self test at start up?	

xv	TFT screen display size	
xvi	Accuracy	
xvi i	Out-put voltage of the transmitting pulse	
xvi ii	Pulse width	
xix	Output impedance	
xx	Resolution	
xxi	Propagation Velocity	
4.	SURGE GENERATOR	
i	Make	
ii	Model No.	
iii	Output voltage continuously variable in each range	
iv	Surge Energy A. 0-4KV B. 0-8 KV C. 0-16 KV D. 0-32 KV	
v	Surge Energy with internally mounted capacitors	
vi	Output pulse for automatic surging	
vii	Facility for single shot	
viii	H.V. zero interlock	
ix	Short circuit protection by internal current limitation	
x	Voltage Indication	
xi	Current measurement	
xii	Built-in automatic discharge device	
xiii	Safety precaution	
5.	DC High Voltage Testing Unit	
i	Make	
ii	Model	
iii	Mains supply	
iv	Leakage current	

v	Insulation Test	
vi	Output voltage (DC Testing) 0-40 KV	
vii	Safety features such protection against high voltage, auto discharge after switching off, high voltage On/OFF with security, Auto-OFF in case of break in power supply etc. (Please mention)	
6.	PIN-POINTING SET	
i	Make	
ii	Model No.	
iii	Battery operated	
iv	Portable	
v	Can pinpointing set be used with the surge generator for pinpointing acoustic disturbances created by dissipation of energy from surge generator at the fault ?	
vi	Does the equipment indicate acoustic disturbances to the operator both audibly on the head phones and visually on a display meter?	
vii	Is the unit able to measure acoustic propagation time wherein time difference between magnetic pulse and acoustic pulse can be measured and evaluated?	
viii	Does the instrument offered incorporate a magnetic detector with separate amplifier?	
ix	Weight of receiver with integrated batteries	
x	Does the unit switch off automatically incase of disconnection from the ground microphone	
xi	Is the unit provided with the suitable ground microphone, which can filter out noise for accurate fault pin-pointing?	
xii	Is the unit equipped with the LCD display of both magnetic field and acoustic field?	
xiii	Does the unit indicate proximity to the fault	
7.	ROUTE TRACING UNIT :	
i	Make	
ii	Model	

iii	Audio Frequency Generator :	
iv	Operating Frequency	
v	Indicators	
vi	Load matching	
vii	Output Power	
viii	In mains and battery operations	
ix	Battery	
x	Audio Frequency Reciver :	
xi	Operating Frequency	
xii	Indicators	
xiii	Signal Strength	
xiv	Dynamic Range	
xv	Battery	
xvi	Dimension	
xvi i	Weight	
8.	CABLE IDENTIFICATION SET :	
i	Make	
ii	Model No.	
iii	Transmitter :	
iv	Output Voltage	
v	Output Current	
vi	Power supply	
vii	Receiver :	
viii	Display	
ix	Sensitivity	
9.	FAULT CONDITIONING / FAULT BURNING UNIT :	
i	Does the machine has a feature for burning down the high resistance faults in the cable to facilitate the fault pre-location .	

ii	Voltage Range	
iii	Current Range	
iv	Is Unit is provided with applied voltage & fault discharge current meters?	
v	Is Safety features such as Thermal Overload protection, auto-reset, protective terminals to prevent accidental contact & earthing facility ?	
10.	CABLES :	
i	Are the cables required for operation of cable testing system mounted on drums with taken out facility.	
ii	Is the cable drum provided with screw terminal for protective earth connection with a monitoring switch so that putting into operation of the system is only possible when the protective earth lead is connected on system side?	
iii	Length of EARTHING CABLE	
iv	Size & type.	
v	Is the earthing cable equipped with tapping ferrules every 3m over the complete length?	
vi	Length of POWER SUPPLY CABLE	
vii	Size & Type	
viii	Length of HV CABLE	
ix	Type & Size of Cable	
x	Is the lead suitable for an operating voltage up to 80 KV DC?	
xi	Type of insulation	
11.	Details of the cable drum(Type & Length)	
i	HV Cable drum	
ii	Mains Cable drum	
iii	Earthing Cable drum	
iv	Auxiliary Cable drum	
v	RF cable Drum	
12.	Accessories Provided with Equipment:	

i	Discharging Rods	
ii	Measuring Wheel	
iii	Operator Cabin Fan	
iv	Earth Spikes	
v	Digital Multi-meter make	
vi	Megger 0-10 KV make	
vii	Set of spanners, screwdrivers etc.	
viii	Any other tool not mentioned above but otherwise required should also be supplied.	
13.	Type of Vehicle and Mounting arrangements Van	
i	Make	
ii	Model	
iii	Mounting :	
iv	All the equipments should be mounted on steel frames modular racks.	
v	Rotating cable drums should be provided for all the cable	
vi	Safety screens are to be provided to isolate the HV area from operating area.	
vii	Revolving chair for operator and	
viii	Sitting arrangements	
ix	Covering of van and flush door from backside.	
x	Any other information, if any.	
14.	GENSET :	
i	Make :	
ii	Rated Output	
iii	Maximum Output	
iv	Rated Voltage	
v	Frequency	
vi	Fuel	
vii	Starting	
viii	Dimension	

ix	Weight	
15.	SAFETY MODULE :	
	Constant monitoring of all safety circuits such as earth monitoring circuit etc. should be inbuilt into the control unit, safety interlock monitoring etc.	
16.	Mounting Van for the Comprehensive Set:	
i	All the Units of the Comprehensive Van Mounted Multifunctional Cable Fault Locator system consisting of Cable Fault conditioning (burn-down), Pre-Location, Route Location, Pin-pointing & Testing of HT & LT cables shall be mounted on a suitable Equipment Mounting van with Power Supply connection arrangement fitted with at least four heavy duty wheels and one hook at the front for facilitating transportation by means of a vehicle.	
17.	Any Other detail	

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.

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 **JVVNL/AVVNL/JdVVNL**, other State Electricity Boards and other Departments /Organisations.

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

SCHEDULE-VIIA**TN-1638****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 FIVE 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 CA Certificate should be furnished on the letter head of CA and must be signed by the bidder/OEM or jointly or subsidiary firm/ company of the OEM situated in India 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.

Schedule-VII B**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.	CABLE FAULT LOCATING EQUIPMENT	After 60 Days from the date of receipt of detailed Purchase Order.	_____ Nos. per month (to be quoted by tenderer)	Completion in three months at equal monthly rate, thereafter.

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/ Dealer / Distributor (with landline, mobile & FAX No.)	
2.	Official email ID	
3.	GSTIN	
4.	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.	
5.	Place where works exist (indicate the name of the only one works from where you want to supply the offered material).	
6.	Details of machinery particularly with B.H.P. of each item installed.	
7.	Details of staff employed in the works	
8.	Date when started the manufacturing of item under reference	
9.	List of items manufactured.	
10.	Literature and drawings of items manufactured showing their description, size, design and other important technical particulars	
11.	Details of order so far, executed along with the names of organization to whom supplied.	
12.	Manufacturing capacity.	
13.	Is the workshop open for inspection by the representative of the board, if required?	
14.	Statement of financial resources and Banking Reference along with Balance-Sheet for previous two years	
15.	Testing facilities available for the manufactured articles in the testing laboratory of works.	
16.	Whether the Firm is a small/medium/large scale industry.	
17.	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: - 0291-274653**

**SPECIFICATION FOR SUPPLY OF MINI-TRUCK/ VAN MOUNTED SINGLE PHASE
CENTRALIZED CONTROL UNIT CABLE FAULT LOCATING EQUIPMENT
UNDERSPECIFICATION NO.JdVVNL/SE/MM&C/TN-1638.**

NIT No.	TN-1638
Last date for receipt of tenders	30.07.2020 upto 12:00 PM
Date & time of tender opening	30.07.2020 at 3:00 PM
Cost of Specification	Rs. 2,950.00 (Two Thousand Nine Hundred & Fifty only) For MSME Of Rajasthan: Rs. 1,475 (One Thousand Four Hundred & Seventy Five only)
Processing of RISL	Rs. 1,000.00 per set (One Thousand only)
Bid security to be deposited	i) General Bidder : Rs. 650000.00 ii) Sick Unit of Rajasthan : RS 325000.00 iii) SSI unit of Rajasthan: Rs 162500.00*
Validity	120 days from the next date of opening of techno-commercial bid.

***In case SSI unit of Rajasthan quotes the less than the tendered quantity , then they are required to furnish Bid security @ 0.5% of the value of the quantity offered by them, failing which bid shall be considered non-responsive.**

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 attestdocumentary 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 X) 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.

Place _____

Signature of

Proprietor/Director Authorized Signatory

With Rubber Stamp and date

GENERAL**Amendments in GCC & ITB**

- 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:-**

BID SECURITY

Bid security shall be 2% **of the estimated value of subject matter of procurement put to bid**. In case of Small Scale Industries of Rajasthan it shall be 0.5% 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 1% 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 unit of Rajasthan quotes the less than the tendered quantity, then they are required to furnish Bid Security @ 0.5% of the value of the quantity offered by them, failing which bid shall be considered non-responsive.

The Bid Security amount (as applicable) to be paid by Demand Draft/Banker's Cheque in favour of SR. AO (CASH & CPC), JDVVNL, Jodhpur (payable at Jodhpur) 342003 **upto 4.00 p.m. upto one WORKING day prior to schedule date of opening** of respective bid or Bank Guarantee, in specified format, of a scheduled bank in favour of Superintending Engineer (MM&C), JDVVNL, Jodhpur, be deposited to the Sr.Accounts Officer (MM&C), JDVVNL, New Power House, Industrial Area, Jodhpur-342003 **upto 4.00 p.m. upto one WORKING day prior to schedule date of opening** of respective bid and obtain a receipt/acknowledgement thereof. No other mode of deposit shall be accepted. At the time of depositing the Bid Security amount or Bank Guarantee, 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 X on Non-Judicial Stamp of Rs. 100/-.

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 is 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

- (i) Performance security shall be solicited from all successful bidders except the department's of the State Government and undertakings, corporations, autonomous bodies, registered societies, co-operative societies which are owned or controlled or managed by the State Government and undertakings of the Central Government. However, a performance security declaration shall be taken from them. The State Government may relax the provision of performance security in particular procurement or any class of procurement.
- (ii) Performance security from the successful bidder shall be **5%** of the amount of supply order (in case of established suppliers)/ **1%** of the amount of supply order (in case of Micro, Small & Medium scale industries of Rajasthan)/ **2%** of the amount of supply order (in case of sick industries) / **10%** of the amount of supply order (in case of other suppliers). 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) 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 charged extra at the prevailing rate on all the settlement Fees as applicable and amended time to time.

7) In case the terms & conditions mentioned in the PO, ITB & GCC are modified/differ from RTTP Act, then RTTP 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 VidyutVitaran 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 VidyutVitaran 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 VidyutVitaran 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.

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

We, the undersigned declare that:

1. Our firm, its affiliates or 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