



**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-1377**

**SUPPLY OF LIGHTNING ARRESTER OF 30 KV 10 KA STATION TYPE**

Last date for receipt of tenders	<b>23.01.2018 upto 12:00PM</b>
Date & time of tender opening	<b>23.01.2018 at 3:00 PM</b>
Bid security to be deposited	i) General Bidder : Rs. 13, 806.00 ii) Sick Unit : Rs 6903.00 iii) SSI unit of Rajasthan : Rs3451.00*
Cost of the specification	Rs 2,950.00 ( non-refundable)
Tender processing Fee	Rs 1,000.00 ( non-refundable)
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 tha Small Scale Industries , whose cases are pending before the Board of Industrial and Financial Reconstruction (BIFR) shall furnish self attested documentary evidence duly attested by notary to claim the above.

**IMPORTANT DATES**

S. N.	Events	Date & Time	Location
1.	Last Date of downloading of tender specifications	Up to 22.01.2018 (04:00 PM)	<a href="http://www.jdvnvl.com">www.jdvnvl.com</a> & <a href="http://www.eproc.rajasthan.gov.in">http://www.eproc.rajasthan.gov.in</a>
2.	Last Date of Deposit of cost of Tender Specifications, Processing fee & Bid Security	Up to 22.01.2018 (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 23.01.2018 (12:00 PM)	<a href="http://www.eproc.rajasthan.gov.in">http://www.eproc.rajasthan.gov.in</a>
4.	Opening of Technical Bid	23.01.2018 (03:00 PM)	<a href="http://www.eproc.rajasthan.gov.in">http://www.eproc.rajasthan.gov.in</a>
5.	Opening of Price Bid	To be intimated separately to the qualified bidders	<a href="http://www.eproc.rajasthan.gov.in">http://www.eproc.rajasthan.gov.in</a>

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1. Tender documents will be made available on e-Tendering portal [www.eproc.rajasthan.gov.in](http://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](http://www.eproc.rajasthan.gov.in) . The bidders can download bid up to 04:00 p.m. one day prior to schedule date of opening of respective bid mentioned above documents and submit their bids online up to 12:00 p.m. on schedule of respective bid mentioned above.
2. Eligible bidders should submit their bid well in advance instead of waiting till last date JdVVNL will not be responsible for non-submission of bids due to any website related problems.
3. The cost of Tender specification **Rs. 2950/-** (Non-Refundable) 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 favour 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).

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 30 KV 10 KA HEAVY DUTY SURGE ARRESTERS (LIGHTNING ARRESTERS) AGAINST TN-1377****1.0 SCOPE:**

- 1.1 This specification provides for the design, engineering, manufacture, assembly, stage testing, inspection and testing before despatch, packing, forwarding and delivery of Metal Oxide (gapless) Surge Arresters complete with accessories for 33 KV system as specified hereunder.
- 1.2 It is not the intent to specify completely herein all the details of design and construction of Surge Arresters, However, Surge Arresters shall conform in all respects to the high standard of design and workmanship and be capable of performing in continuous commercial operation up to Bidder's guarantee in a manner acceptable to 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 are not in accordance therewith. The Arresters offered shall be complete with all parts, necessary for their effective and trouble free operation. Such components shall be deemed to be within the scope of supply, irrespective of whether they are specifically brought out in the commercial order or not.

**2.0 STANDARDS:**

- 2.1 The Surge Arresters shall conform to the latest editions and amendments available at the time of supply, of the standards listed hereunder:

<b>S. No.</b>	<b>Standard Ref No.</b>	<b>Title</b>
1.	IEC 99-4	Specification Part. 4 for Surge Arresters without gap for AC system.
2	IS:3070 (Part-III)	Specification for Lightning Arresters for alternating current System
3	IS:2629	Recommended practice for hot dip galvanising of iron and steel.
4	IS:2633	Method for testing uniformity of coating on Zinc coated articles.
5	IS:5621	Specification for large hollow porcelain for use in electrical installation.
6	IS:2147	Degree of protection provided by enclosures for low voltage switchgear and control gear.
7.		Indian Electricity Rules 1956.

Note:

- i) For the purpose of this specification all technical terms used hereinafter shall have the meaning as per IEC specification.
- ii) For the parameters of the Arrester which are not specified in IEC specification for Surge Arresters, the provisions of ISS 3070 (Part.III) shall be applicable.

2.2 Surge Arresters meeting with the requirements of other authoritative standards, which ensure equal or better quality than the standards mentioned above shall also be acceptable. Where the equipment offered by the Bidder conforms to other standards, salient points of difference between the standards adopted and the specified standards shall be clearly brought out in the offer. Four (4) copies of the reference standards in English language shall be furnished along with the offer.

### 3.0. CLIMATIC CONDITIONS:

3.1 The Surge Arresters and accessories shall be suitable for continuous satisfactory operation under climatic conditions listed below.

- |   |                                      |
|---|--------------------------------------|
| 1. Maximum ambient Air Temperature in shade (deg.C).        | 50 DEG. C                            |
| 2. Minimum Ambient Air Temperature in shade(deg.C).         | (-) 5 DEG.C                          |
| 3. Maximum relative humidity(%)                             | 95%                                  |
| 4. Minimum relative humidity                                | 10%                                  |
| 5. Height above mean sea level                              | Less than 1000M                      |
| 6. Dust Storms are liable to occur in the period            | from March to July.                  |
| 7. Average No. of thunder Storm Days / annum.               | 40 days.                             |
| 8. Average annual rainfall (mm)                             | 10 to 100 cms<br>(Depending on area) |
| 9. Average No. of months of tropical monsoon condition p.a. | 4                                    |

All the electrical devices shall be given tropical and fungicidal treatment to enable their satisfactory operation in the above climatic conditions.

### 4.0 PRINCIPAL PARAMETERS:

The Surge Arresters offered under this specification shall conform to the parameters given below.

S. No	Particulars	System parameters for 30 KV Station type
1	Nominal system voltage (kv rms)	33
2	Highest system voltage (kv rms)	36
3	1.2/50 microsecond impulse voltage with stand level	
a	Transformer and reactors (kvp)	170
b	Other equipment and lines (kvp)	170
4	Minimum prospective symmetrical	25

	fault current for 1 second at Arrester location (KA rms)	
5	Anticipated levels of temporary over voltage and its duration.	
a	Voltage(p.u.)	1.5
b	Duration(Seconds)	1/10
6	System frequency(Hz)	50 Hz plus minus 1.5
7	Neutral Grounding	Effectively Earthed
8	Number of Phases	Three
Note:	1. 1 p.u. =	$36 \times \sqrt{2}$ kvp

## 5.0 GENERAL TECHNICAL REQUIREMENTS:

- 5.1 The Surge Arresters shall conform to the technical requirements as per Annexure-A.
- 5.2 The energy handling capability of each rating of Arrester offered, supported by calculations, shall be furnished in the offer.
- 5.3 The Station Type Surge Arresters shall be fitted with pressure relief devices and arc diverting ports and shall be tested as per the requirements of IEC specification for minimum prospective symmetrical fault current as specified in Annexure-A.
- 5.4 The grading ring on each complete Arrester for proper stress distribution shall be provided if required for attaining all the relevant technical parameters.
- 5.5 PROTECTIVE LEVELS:  
The basic insulation levels and switching impulse withstand levels of the lines and equipment to be protected have been specified in clause 4.0, "Principal Parameters".

The protective characteristics of the Arresters offered shall be clearly specified in the schedule of guaranteed technical particulars.

## 5.6 GENERAL REQUIREMENTS:

- 5.6.1 The materials and components not specifically stated in this specification but which are necessary for satisfactory operation of the equipment are deemed to be included in the scope of supply unless specifically excluded.
- 5.6.2 Unless otherwise brought out separately by the Bidder in the schedule of deviations the Surge Arresters offered shall conform to the specification scrupulously. All deviations from the specification shall be brought out in the schedule of deviations. The discrepancies between the specification and the catalogues or literature submitted as part of the offer shall not be considered as valid deviations unless specifically brought out in the schedule of deviations.
- 5.6.3 Any deviation which has not been specifically brought out in the schedule of deviations of the Bid Proposal Sheets, shall not be given effect to. The deviations brought out in the schedule shall be supported by authentic documents, standards and other references.

- 5.6.4. Each individual unit of Surge Arresters shall be hermetically sealed and fully protected against ingress of moisture. The hermetic seal shall be effective for the entire life time of the Arrester and under the service conditions as specified. The Bidder shall furnish sectional view of the Arrester, showing details of sealing employed.
- 5.6.5 The bidder shall furnish in the offer, a sectional view of pressure relief device employed in the Station type Surge Arresters offered.
- 5.6.6 The Surge Arresters shall be suitable for hot line washing.

**5.7 Construction:**

- 5.7.1 All the units of Arresters of same rating shall be interchangeable without adversely affecting the performance.
- 5.7.2 The Surge Arresters shall be outdoor and suitable for pedestal/ clamp type mounting.
- 5.7.3 All the necessary flanges, bolts, nuts, clamps etc., required for assembly of complete Arrester with accessories and mounting on support structure to be supplied by the Purchaser shall be included in Bidder's scope of supply.
- 5.7.4 The drilling details for mounting the Arrester on Purchaser's support shall be supplied by the Supplier.
- 5.7.5 The minimum permissible separation between the Surge Arrester and any earthed object shall be indicated by the Bidder in his offer.

**5.8. PORCELAIN / POLYMERIC HOUSING:**

- 5.8.1 The housing may be of Porcelain or Polymeric.
- 5.8.2 Where the bidders are quoting for Surge Arresters with Porcelain Housing, all porcelain housings shall be free from lamination cavities or other flaws affecting the maximum level of mechanical and electrical strengths.
- 5.8.3 The porcelain shall be well vitrified and nonporous.
- 5.8.4 The creepage distance of the Arrester housing shall be as per Annexure-A.
- 5.8.5 The porcelain petticoat shall be preferably of self cleaning type (Aerofoil design). The details of the porcelain housing such as height, angle of inclination, shape of petticoats, gap between the petticoats, diameter (ID and OD) etc., shall be indicated by the Bidder in his offer in the form of a detailed drawing.
- 5.8.6 The Arrester housing shall conform to the requirements of IEC specification.

**5.9. GALVANISATION, NICKEL PLATING ETC.:**

- 5.9.1. All ferrous parts exposed to atmosphere shall be hot dip galvanised as per IS: 2629 as amended from time to time. Tinned copper / brass lugs shall be used for internal wiring. Screws used for electrical connections shall be either made of brass or nickel plated.

5.9.2. Ground terminal pads and name plate brackets shall be hot dip galvanised.

5.9.3 The material shall be galvanised only after completing all shop operations.

#### **5.10. ACCESSORIES AND FITTINGS:**

5.10.1 All necessary accessories and earthing connection leads shall be in the Bidder's scope of supply.

5.10.2 Terminal connector conforming to IS: 5561 shall be supplied along with the arrester.

5.11. The grounding terminal shall be suitable for accommodating Purchaser's grounding connection to steel earth mat.

5.12. Name Plate:

The arrester shall be provided with non-corrosive legible name plate indelibly marked with the following information:

1. JdVVNL
2. Order No.
3. Manufacturer's name, address, Phone & Fax Number, trade mark and identification no. of the Arrester being supplied.
4. Rated Voltage.
5. Maximum continuous operating voltage.
6. Type.
7. Rated Frequency.
8. Nominal discharge current.
9. Line discharge class.
10. Pressure relief current in kA rms.
11. B.I.L. of the equipment to be protected.
12. Year of manufacture.
13. Date of despatch.
14. Date of Expiry of Warranty.

#### **6.0. TESTS:**

##### **6.1 TEST BEFORE DESPATCH:**

The Surge Arrester of various rating and accessories shall be subjected at maker's works before despatch, to the following tests as per relevant standards.

##### **A) ROUTINE TEST ON EACH UNIT AS PER RELEVANT STANDARDS:**

1. Measurement of reference voltage.
2. Residual voltage test.
3. Satisfactory absence from partial discharges and contact noises.
4. For arrester units with sealed housing leakage check shall be made on each unit.
5. Current distribution test for multi Column arrester.

##### **6.2 TYPE TESTS:**

6.2.1 The bidder shall furnish valid and authenticated type test reports 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 along with detailed dimensional drawing duly signed & verified by testing agency also showing size & numbers of blocks dimensions contained in the housing along with bid as per requirement of the Tender Specification. Such type test certificates should not be older than **5 (Five) years** as on the date of bid opening. For this purpose date of conducting type test will be considered. The type test certificates shall be furnished either in original or copy duly attested by notary.

6.2.2: Following type tests shall be conducted on one unit of each rating as per relevant standard.

1. Insulation withstand test.
2. Residual voltage test.
3. Bending test on arrester housing assembly.
4. Long duration current impulse withstand test.
5. Operating duty test.
6. Pressure relief test (Only for station type)
7. Artificial pollution test on porcelain.
8. Partial discharge test.
9. Housed arresters.
  - a) Temperature cycle test.
  - b) Porosity test.
10. Galvanising test on exposed ferrous metal parts.
11. Any other type test which are not specified above but covered as per amendment/latest edition of relevant IS/IEC.

### **6.3 TEST ON BOUGHT OUT ITEMS:**

Tests are not required to be performed on bought out equipments/items like, Terminal connector etc. at the works of manufacturer. Furnishing Test Certificate of bought out items from the original equipment manufacturers shall be deemed to be satisfactory evidence. Inspection of the tests at Sub-contractors works will be arranged by the supplier whenever required.

### **6.4 ROUTINE/ACCEPTANCE TESTS:**

The following tests shall be got conducted in presence of purchaser's representative, as per stipulation of the relevant standards. Acceptance tests whenever possible shall be conducted on the complete arrester unit. No. of samples to be selected for acceptance tests shall be nearest lower whole number to the cube root of the number of arresters to be supplied.

1. Measurement of power frequency reference voltage on the complete arrester at the reference current measured at the bottom of the arrester.
2. Lightning Impulse residual voltage.
3. Partial discharge test.
4. Visual inspection & verification of dimension.
5. Special thermal stability test.
6. Galvanising test on Ferrous metal parts.
7. Any other tests as per IS.

### **6.5 TOLERANCE ON TEST RESULTS:**

As per relevant standards/specifications.



**6.6. CHECKING AT STORES (TEST AT CTL):**

One out of every 50 nos. Surge Arresters will be selected for checking at Store for visual, dimensional, weight, marking etc. as per relevant ISS/GTP/approved drawing.

"Payments shall be made only after receipt of successful test report from our Central Testing Laboratory (CTL) on the samples selected from the material received at the stores, however, the payment priority shall be maintained from the date of submission of bills along with receipted challans to the Sr. Accounts Officer (Cash & CPC), JdVVNL, Jodhpur."

**7.0 INSPECTION:**

All the tests (as mentioned at Clause 6.4) and Inspection shall be made at the place of manufacturer unless otherwise especially agreed upon by the bidder and purchaser at the time of purchase. The bidder shall afford the inspection officer(s) representing the purchaser all reasonable facilities without charges, to satisfy him that the material is being supplied in accordance with this specification. The purchaser has the right to have the tests carried out at his own cost by an independent agency whenever there is a dispute regarding the quality of supply.

The Inspection may be carried out by the purchaser at any stage of manufacture/before despatch as per relevant standard.

Inspection and acceptance of any material under the specification by the purchaser, shall not relieve the bidder of his obligation of furnishing material in accordance with the specification and shall not prevent subsequent rejection if the material is found to be defective. The Bidder shall keep the purchaser informed in advance, about manufacturing programme so that arrangements can be made for inspection.

The purchaser reserves the right to insist for witnessing the acceptance/routine testing of the bought out items.

The bidder shall give 15 days (for local supplies/30 days (in case of foreign bidder) advance intimation to enable the purchaser to depute his representative for witnessing the acceptance and routine tests.

**8.0 QUALITY ASSURANCE PLAN :**

8.1 The Bidder shall invariably furnish the 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 material, list of standards according to which the raw materials are tested, list of tests normally carried out on raw material in the presence of Supplier's representative, and 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.
  - iv) Level of areas in manufacturing process where stage inspections are normally carried out for quality control and details of such tests and inspections.
  - v) Special features provided in the equipment to make it maintenance free.
  - vi) List of testing equipment available with the Supplier for final testing of equipment specified and test plant limitation, if any vis-a-vis the type, special, acceptance and routine tests specified in the relevant standards. These limitations shall be very clearly brought out in the schedule of deviations from specified test requirements.
- 8.2 The Supplier shall within 30 days of placement of order submit the following information to the Purchaser.
- i) List of raw material as well as bought out accessories and the name of the material as well as bought out accessories and the names of sub-suppliers selected from those furnished along with the offer.
  - ii) Type test certificates of the raw material and bought out accessories.
  - iii) Quality assurance plan(QAP) with hold 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 finalised.
- 8.3 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.
- 9.0 **DOCUMENTATION:**
- 9.1. All drawings shall conform to International Standard Organisation (ISO) "A" series of drawing sheets / Indian Standards specifications. All drawings shall be in ink and suitable for microfilming. All dimensions and data shall be in S. I. Units.
- 9.2 The Bidder shall furnish one set of following drawings along with his offer:
- i) General outline drawings of the complete Arresters with technical parameters.
  - ii) Drawing showing clearance from grounded and other live objects and between adjacent poles of Surge Arresters, required at various Heights of Surge Arresters.
  - iii) Drawings showing details of pressure relief devices.
  - iv) Details of grading rings, if used.
  - v) Mounting details of Surge Arresters.
  - vi) Details of line terminal and ground terminals.
  - vii) Volt-time characteristics of Surge Arresters.

- viii) Details of galvanising being provided on different ferrous parts.
- ix) The detailed dimensional drawing of housing such as ID, OD, thickness and insulator details such as height, profile of paticcoats, angle of inclination and gap between successive petticoats total creepage distance etc.

### 9.3 TEST REPORTS:

- i) One copy of acceptance test reports shall be furnished to the Purchaser.
- ii) All records of routine test reports shall be maintained by the Supplier at his works for periodic inspection by the Purchaser.
- iii) All test reports of tests conducted during manufacture shall be maintained by the Supplier. These shall be produced for verification as and when requested for by the Purchaser.

### 10.0 **PACKING AND FORWARDING:**

10.1 The equipment shall be packed in suitable crates so as to withstand handling stresses during transport and outdoor storage during transit. The Supplier shall be responsible for any damage to the equipment during transit, due to improper and inadequate packing. The easily damageable material shall be carefully packed and marked with the appropriate caution symbols. Wherever necessary, proper arrangement for lifting such as lifting hooks etc., shall be provided. Any material found short inside the packing cases shall be supplied by the Supplier without any extra cost.

10.2 Each consignment shall be accompanied by a detailed packing list containing the following information:

- a) Name of the consignee.
- b) Details of consignment.
- c) Destination.
- d) Sign showing upper/lower side of the crate.
- e) Handling and unpacking instructions.
- g) Bill of materials indicating contents of each package.

10.3 The Supplier shall ensure that the packing list and bill of materials are approved by the Purchaser before despatch.

10.4 The material shall be transported within India to the respective destination by Road Transport as the case may be at the option of the Purchaser.

### 11.0 **Delay in Delivery of Inspected Material at Store:**

If the material are not delivered within 7 days at same station, 14 days for station within State and 20 days by the suppliers situated outside the State from the date of receipt of the Dispatch Instructions. Charges shall be recovered @ Half Percent per week or part thereof (for actual delay in receipt), maximum up to 3% of the Dispatch Instructions consignment value (Ex-works). This will be in addition to Clause No. 1.24 (1) of GCC.

**12.0 PAYMENT IN ABSENCE OF TYPE TEST REPORTS**

15% payment shall be withheld in case firm does not furnish complete valid type test reports, which will be released on production of satisfactory complete type test reports. In case of failure of any of the type test reports, the withheld 15% payment shall be forfeited for the used material and remaining unused material will be lifted back by the supplier.

**However, the above provision will be applicable only for the old manufacturers who have supplied similar item to any of the State Electricity Board/ Utility and the same have been type tested as per provisions of relevant ISS.**

**13.0 DELIVERY SCHEDULE:**

The bidder is required to quote monthly delivery. The delivery of quoted quantity should be completed in **8 months** period including commencement period of **maximum 60 days**. In case ordered quantity is different than quoted quantity, then monthly delivery shall be adjusted proportionately. Tenders in which monthly delivery is not indicated shall be ignored.

**14.0 GST Clause:**

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.

**15. ADDITIONAL ORDER**

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

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

**ANNEXURE-A**  
**(Surge Arresters)**

**TECHNICAL REQUIREMENTS FOR METAL OXIDE (GAPLESS) SURGE ARRESTERS AGAINST TN- 1377.**

<b>S. No.</b>	<b>Particulars</b>	<b>Requirement of parameters</b>
1	Rated arrester voltage (KV)	30
2	Maximum continuous operating voltage (MCOV) KV (rms)	25
3	Installation	Outdoor
4	Class	<b>Station class Heavy duty</b>
5	Type of construction	Single column, single phase
6	Nominal discharge current corresponding to 8 / 20 micro second wave shape (KA peak)	10
7	Type of mounting	Pedestal
8	Connection (between phase to earth) / (between phase to phase)	Phase to Earth
9	Line discharge class	2
10	Ratio of switching impulse residual voltage to rated voltage of arrester	As per provision of IEC – 99 – 4 (latest amended)
11	Minimum prospective symmetrical fault current for pressure relief test (KA rms)	40
12	Terminal connector suitable for ACSR conductor size	Single Dog
a)	Take off	For both vertical & horizontal
13	Voltage (corona extinction) (KV rms)	Rated voltage of arrester
14	Partial discharge	As per provision of IEC – 99 – 4 (latest amended)
15	Whether insulating base and discharge counter with milli ammeter are required	No
16	Minimum creepage distance of arrester housing	900 mm

**SCHEDULE-I****SCHEDULE OF REQUIREMENT**

The quantity to be purchased is as under:

<b>S. No.</b>	<b>Particulars of item</b>	<b>Quantity</b>
1	30 KV 10 KA heavy duty Surge Arresters (Lightning Arresters) station type conforming to specification and relevant ISS with latest amendments, if any.	208 nos.

The above mentioned quantity is provisional and the purchaser reserves the right of revising the same at the time of placing the order.

**SCHEDULE- II****PRICE VARIATION CLAUSE FOR SURGE ARRESTERS**

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

$$P = \frac{P_o}{100} \times \left( 20 + 15 \frac{ZN}{ZNo} + 15 \frac{CO}{COo} + 10 \frac{BI}{Blo} + 10 \frac{BC}{BCo} + 10 \frac{FP}{FP_o} + 15 \frac{W}{Wo} + 5 \frac{AL}{ALo} \right)$$

Wherein,

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

P<sub>o</sub> = Price quoted / confirmed.

ZNo = Price of electrolytic high grade zinc (refer note).

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

COo = Price of Cobalt (refer notes).

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

Blo = Price of Bismuth (refer notes).

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

BCo = Price of Ball Clay (refer notes).

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

ALo = Price of Aluminium Ingots (refer notes).

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

FPo = Wholesale price index number for fuel & power (refer notes).

This Index number is as applicable for the first Saturday of the month, three months prior to the date of tendering.

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

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

For example, if the date of tendering falls in May, 2010, the applicable basic price of raw materials i.e. ZNo, COo, Blo, ALo and BCo should be as circulated by IEEMA as on 1<sup>st</sup> April, 2010 and the applicable wholesale price index number for fuel & power (FPo) should be for the week ending 1<sup>st</sup> Saturday of the

month of February, 2010 and all India average consumer price index number (Wo) should be for the month of February, 2010.

The above prices and indices are as published by IEEMA vide circular reference number IEEMA(PVC)/ARSTR/--/-- prevailing as on first working day of the month ..... I.e. one month prior to the date of tendering.

ZN = Price of electrolytic high grade zinc (refer notes).

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

CO = Price of cobalt (refer notes).

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

BI = Price of Bismuth (refer notes).

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

BC = Price of Ball clay (refer notes).

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

AL = Price of EC Grade Aluminium Ingots (refer notes).

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

FP = Wholesale price index number of fuel & power (refer notes).

This index number is as applicable for the 1<sup>st</sup> Saturday of the month, four months prior to the date of delivery.

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

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

If the date of delivery in terms of clause given below falls in December, 2010 the applicable price viz. ZN, CO, BI, BC and AL should be those as published by IEEMA prevailing as on 1<sup>st</sup> October, 2010 and the applicable wholesale price index number (FP) and all India average consumer price Index number (W) both should be for the month of August, 2010.

Notes :

- (a) All prices of raw materials are exclusive of modvatable excise duty / C.V.D. and exclusive of any other central, state or local taxes, octroi etc. as under.
- (b) All prices are as on 1<sup>st</sup> working day of the month.
- (c) The details of prices are as under :-
  1. The prices of electrolytic high grade zinc (in Rs./MT) is the ex-factory / ametter price of a primary producer of zonc.
  2. The price of cobalt (in Rs./Kg) is the landed cost which is worked out as average price of low and high of cobalt for previous month in US\$/lb (as published in Metal Bulletin) converted into Rs/Kg by IEEMA's Banker's Exchange rate prevailing as on the first working day of the month under



- consideration plus (+) the customs duty as applicable as on the first working day of the month under consideration.
3. The price of Bismuth in (Rs/Kg) is the landed cost which is worked out as average price of low and high of Bismuth for previous month in US\$/lb(as published in Metal Bulletin) converted in Rs/Kg by IEEMA's Banker's rate prevailing as on the first working day of the month under consideration plus (+) the customs duty as applicable as on the first working day of the month under consideration.
  4. The price of bell clay in Rs./MT) is the average ex-works price as quoted by two manufactures.
  5. The price of Aluminium (in Rs./MT) is the average price of EC Grade Aluminium Ingots as quoted by three primary producers of aluminium as per IS:4028-1987.
  6. Wholesale price index number for Fuel & Power is published by the office of Economic Adviser, Ministry of Industry, Govt.of India, New Delhi with base 2004-05 = 100. This wholesale price index gets finalized after 8 weeks and is normally available after two month. Therefore, we are considering in our circular the final index published by the Economic Adviser for the 1<sup>st</sup> Saturday of the month two months prior to the month for which the prices of ZN, Co, BC, BI and AL considered.

Base date = **The base date will be 1.12.2017 irrespective of date of tender opening.**

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

- a) The prices quoted shall be variable as per Price Variation Formula given in the Specification (Schedule-II) without any ceiling.
- b) If the price variation formula is changed, the same shall be applicable for the price variation. During the transit period when both old and new indices are being circulated, then the admissible Price Variation shall be applicable, which is advantageous to Nigam, and the period from which the old indices are discontinued then the P.V. shall be admissible with the new indices.
- c) The date of delivery applicable for claiming price variation shall be the date prevailing on the first day of Calendar month which shall be determined in the manner prescribed hereunder:-

(i) When the material is offered within stipulated delivery schedule : For allowing P.V. the date of delivery shall be considered the date on which material is notified as being ready for inspection or date of receipt of inspection call in the office.

(ii) When the material is offered after expiry of stipulated delivery schedule : For allowing P.V. in the cases supplies are made after the expiry of scheduled delivery, the price prevailing in the last month of the stipulated scheduled delivery or the date on which material is notified as being ready for inspection or date of receipt of inspection call in the office, whichever is beneficial to Nigam shall be allowed.

(iii) When the material if offered ahead of delivery schedule on the request of Jodhpur Vidyut Vitran Nigam Limited : Normally supplies ahead of delivery schedule shall not be accepted. However in case of urgency of material, if supplies are accepted ahead of delivery schedule, PV shall be allowed on the basis of the material is notified as being ready for inspection or date of receipt of inspection call in the office.

(iv) When the material is offered ahead of delivery schedule by firm at their own and accepted by Nigam on the request of firm: Normally the request of the firm to accept the material ahead of delivery schedule will not be accepted. In case firm offers supplies ahead of delivery schedule at their own and such request is accepted by Nigam, the price prevailing in the last month of stipulated delivery schedule or the date on which material is notified as being ready for inspection or date of receipt of inspection call in the office, whichever is beneficial to Nigam shall be allowed.

**SCHEDULE - III****JODHPUR VIDYUT VITARAN 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 to which material/equipment/Machinery/T&P shall confirm	Name of IS/other standard specification to which material should	Other particulars if any. confirm
-------	---	--	--------------------------------------

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 to which material/equipment/Machinery/T&P shall confirm	Name of IS/other standard specification to which material should	Other particulars if any. confirm
-------	---	--	--------------------------------------

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

**SCHEDULE-III (A)****QUALIFICATION REQUIREMENT****FOR LIGHTNING ARRESTOR (TN – 1377)**

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

**1.0 STATUS OF BIDDER:-**

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

**2.0 PAST SUPPLY & PERFORMANCE CRITERIA: -**

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

**2.01 PAST SUPPLY:-**

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

**Note:** Requirement of quantity manufactured, 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 shall furnish documentary evidence in the form of certificate from Chartered Accountant in the enclosed prescribed proforma only. This prescribed proforma should be furnished either in original or copy duly attested by Notary. The bidder shall also sign and affix seal on the C.A. Certificate. The certificate should have membership number with the name & address of the chartered accountant. Certificate should clearly indicate the quantity supplied, period of supply, type of material etc. in the format prescribed, any deviation to format or information diverted format, will not be considered and rejected.

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

**2.02 PERFORMANCE CRITERIA:-**

2.02.1 i) If a bidder has supplied 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 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.

**3.0 TYPE TEST CRITERIA:-**

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

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

3.02 The bidder should furnish documentary evidence in support of the laboratory whose type test have been furnished, that the said laboratory is a Govt. / a Govt. approved / a Govt. recognized / NABL accredited laboratory / ILAC accredited (in case of foreign laboratory).

3.03 The type test certificates shall be furnished either in original or copy duly attested by notary.

3.04 The bids of only those bidders shall be considered to be meeting the type test criteria who furnishes complete type test certificate with the bid as per above provision.

However, in the following cases the bid of the bidder may be considered meeting the type test criteria if the bidder furnishes an undertaking stating that valid type test certificate from a Govt. / Govt. approved / Govt. recognized / NABL accredited / ILAC accredited laboratory shall be furnished from first lot (without asking any delivery extension) along with bank guarantee with the technical bid from a Nationalized / Scheduled Bank in prescribed proforma at Schedule-III C or DD / Pay Order amounting to Rs. 5 Lac/Rs.1.5 Lac / Rs.0.5 Lac in case where the value of the purchase (corresponding to tendered quantity) under consideration is more than 1.5 Crore / up to 1.5 Crore/ Upton 0.5 Crore respectively. The initial validity of Bank Guarantee shall be nine months with claim period of three months in addition.

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

#### 4.0 POOR RECORD OF PERFORMANCE AND DELIVERY:

The bidder who have been black listed or with whom business relations have been severed **in any of the state 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 and 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:

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 bribery, corruption, fraud, vitiating fair under process including substitution of or interpolation in bids, pilfering or unauthorized use or disposal of NIGAM's material issued for specific works etc.

(ii) Where a supplier or his partner or his representative has been convicted by a court of Law for offences involving moral turpitude in relation to the business dealing or where security considerations including suspected disloyalty to the Nigam/state so warrant the blacklisting.

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

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

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

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

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

#### (B) Severment of Business relation:

(a) After having given Show Cause Notice of 30 days, and having established &cogent reasons for Severment of business relation as given below, the firm should immediately be severed the

business relations for a period of 2 to 3 years indicating reasons of doing so, in the letter itself, and a copy of such severment should be given to the firm, with the approval of CLPC:-

(i) The supplier continuously refuses to pay Nigam dues without showing adequate reasons and where the purchasing authority is satisfied that no reasonable dispute attracting reference to Settlement Committee or Court of Law exists for the supplier's action of non-supply.

(ii) When vendor does not accept LOI/detailed purchase order awarded on its accepted prices and terms & conditions or does not comply with the contractual formalities.

(iii) When vendor/supplier who otherwise completed contractual formalities but does not commence supplies on the date of opening of technical bid of the freshtender/completion of schedule delivery period whichever is later.

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

2. Severment done purely/ mainly on account of non-deposition of dues against the supplier/vendor/contractor could be lifted by CLPC, if the dues are deposited prior to the expiry of such severment period.

3. Severment done by one Discom for non-supply of material and /or corresponding non-recovery of dues will not be effective in other Discoms except in respect of common purchase cases of three Discom.

4. On severment of business, the EMD/SD/vendor registration security will be forfeited.

5. The orders in execution satisfactorily will not be cancelled other than the order on which severment has been done.

### **(C) DEBARMENT**

Reasons on which Debarment can be made:-

(i) The competent authority may debar the supplier on account of his performance or other disabilities, if it is no longer considered fit to remain under vendor registration as per his obligation under vendor registration.

(ii) If at any subsequent stage of inspection of firms after award of contract, it is found that firm does not have sufficient tech. staff or required/necessary technical equipments, the purchasing authority can debar the firm for one year or next tenders whichever is later. The debarment will be lifted only on re inspection of firm's works; the defects noticed earlier are fully rectified to the satisfaction of Nigam.

(iii) When contract agreement executed and supplies commenced but could supply only up to 50% of ordered quantity and scheduled delivery period expired, then the firm can be debarred for one year or next tender whichever is later in that Discom only for that particular item/rating/capacity/size etc.

(iv) The suppliers who have been awarded contract for supply of material is not adhering to the periodic delivery schedule, the contract awarding authority reserve the right to terminate the contract and may debar the firm in participating in tender for a period of 2 to 3 years.

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

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

**6.0 APPEALS AND APPLICATIONS:-**

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

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

I) The bidder shall clearly indicate the deviations such as 'Technical Deviation & Commercial Deviations' in the prescribed proforma only. The deviations indicated elsewhere in the bid shall not be accepted.

II) The bidder must clearly fill up each and every particular of guaranteed technical particulars annexed with Technical Specifications otherwise he will be responsible for Technical Non-responsiveness.

III) All documents required in the prescribed format are to be furnished along with the bid itself only except an attested copy of BIS license (wherever it is required), failing which the bid will be summarily rejected.

IV) However, a copy of BIS License may be submitted by the bidder up to the official working hours of one working day prior to the schedule / notified date of opening of price bid.



**Schedule-III-B****BANK GUARANTEE IN LIEU OF FURNISHING OF TYPE TEST CERTIFICATE**

(On Rajasthan Non-Judicial Stamp Paper worth 0.25% of BG value or maximum upto Rs. 25,000/-)

To,

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

Dear Sir,

Whereas Jodhpur Vidyut Vitran Nigam Limited, Jodhpur (hereinafter called the Purchaser) has issued a tender enquiry under TN\_\_\_\_\_for procurement of \_\_\_\_\_(name of material).

Whereas M/s \_\_\_\_\_(hereinafter called the bidder) has furnished a bid for supply of \_\_\_\_\_to the Superintending Engineer(MM&C), Jodhpur Vidyut Vitran Nigam Limited, Jodhpur.

Whereas in accordance with the provision of the specification of the aforesaid TN\_\_\_\_\_, the bidder can deposit a bank guarantee in lieu of the requirement of furnishing the type test certificates.

Whereas M/s \_\_\_\_\_(the bidder) have requested us (Name of the Bank) to furnish the bank guarantee, in lieu of the type test certificate, for an amount equivalent to Rs. \_\_\_\_\_(in words also) only.

Under this Bank Guarantee, we (Name of the Bank) hereby undertake unconditionally and irrevocably to guarantee as primary obligator and not as Surety merely, the payment to the purchaser on his first demand without whatsoever right of objection on our part and without his first claim to the bidder, in the amount not exceeding (amount of guarantee in figures and words).

Payment pursuant to this undertaking will be demanded by the purchaser from the Bank and will be met by the Bank without question in the case in which the bidder, on receipt of the order and/or after the acceptance of this tender, makes default in furnishing the required type test certificates as to whether the occasion or ground has arisen for such demand the decision of the Superintending Engineer (MM&C), Jodhpur Vidyut Vitran Nigam Limited, Jodhpur shall be final.

The liability of the Bank shall not at any time exceed Rs. \_\_\_\_\_(Rupees \_\_\_\_\_).

The undertaking will be determined on but will not withstanding such determination, continue to be in force till the expiry of 3 months from that date.

No indulgence or grant of time by the purchaser to the bidder without the acknowledgement of the Bank will discharge the liabilities of the Bank under this guarantee.

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

All disputes arising under the said guarantee between the Bank and the bidder or between the bidder and the purchaser pertaining to the guarantee shall be subject to the jurisdiction of Courts only at Jodhpur in Rajasthan.

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

Notwithstanding anything contained herein before, the Bank's liability under this guarantee i.e. restricted to Rs. \_\_\_\_\_ (Rupees \_\_\_\_\_) and the guarantee shall remain in force within three months from that date, the Bank shall be released and discharged from all liabilities there under. However, the validity of the bank guarantee shall be extended as and when required by the purchaser.

IN WITNESS WHEREOF THE Bank has executed these presents the day \_\_\_\_ month \_\_\_\_ and year \_\_\_\_\_.

Yours faithfully,

(Bankers)  
EXECUTANT

Witnesses:

- 1.
- 2.

**Schedule-IV `A`  
TN-1377**

**ITEM- 30 KV 10 KA (Lightning Arresters) Station type**

**Must be filled in by the tenderer and attached 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-1377, we agree to supply the following quantity :

S. No.	Particulars of Items	Tendered Quantity	Qty. Offered	Justification of quantity offered as per Qualifying Requirement	Status of Type Test Certificates.
1.	2.	3.	4.	5.	6.
1	30 KV 10 KA heavy duty Surge Arresters (Lightning Arresters) station type	<b>208nos.</b>			

1. The offer is valid for a period of 120 days after the date of opening of this tender.
2. The prices are variable with base date as on first working day of month, one month prior to the date of opening of tender.
3. It is noted that the quantity as mentioned in the specification are approximate and we agree to supply any quantity as per your requirement.
4. The delivery shall strictly be in accordance with our delivery schedule as given in Schedule-VIII of this specification. In case we fail to deliver the materials as indicated in the clause No.1.23 of GCC (Schedule-II), we are liable to pay recovery for delay in delivery as per clause No.1.24 of this Schedule-II of this specification.

The material shall conform to your specification No. JdVVNL/SE/MM&C/TN-1377 and as per relevant ISS in all respect.

5. We conform that we agree to all the terms & conditions as well as the technical stipulation of your specification No. JdVVNL/SE/MM&C/TN-1377 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.....**

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

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

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<b>S.No. Particulars of technical &amp; other Performance data</b>	<b>Reasons for deviations/departure.</b>
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**(Signature)**

**Name & Designation  
with seal of the bidder**

**SCHEDULE-V(A)****GUARANTEED TECHNICAL PARTICULARS FOR SURGE ARRESTERS AGAINST TN-1377****(To be filled by bidder)**

<b>S. No.</b>	<b>Description</b>	<b>30 KV,10 KA Station Class</b>
1 i.	Name & Adress of manufacturer.	
ii.	GST registration NO.	
2	Arrester class & type	
3	Applicable standard	
4	Rated arrester voltage (KV)	
5	Rated frequency (Hz)	
6	Max. continuous operating voltage (MCOV) KV (rms)	
7	Nominal discharge current (KA p) with 8 / 20 micro second wave	
8	Line discharge class	
9	Ratio of switching impulse residual voltage to rated voltage of arrester	
10	Minimum energy discharge capability (KJ / KV)	
11	Max. switching current impulse residual voltage at	
i)	125 Amps.	
ii)	250 Amps.	
iii)	1000 Amps.	
12	Maximum residual voltage with one micro second current wave at	
i)	10 KA (KV peak)	
ii)	5 KA (KV peak)	
13	Max. residual voltage with 8/20 (KV peak) micro second wave.	
i)	1.5 KA	
ii)	5 KA	
iii)	10 KA	
iv)	20 KA	
14	Minimum Prospective Symmetrical Fault current for one sec. at arrester location (KA rms)	
15	Lightning impulse withstand voltage of arrester housing with 1.2/50 micro second wave (KVPeak)	
16	One minute power frequency withstand voltage of arrester housing (dry/wet) (KV rms)	
17	Partial discharge (pc) at 1.05 times MCOV	
18	High current short duration impulse with stand level with 4 / 10 micro	

	second wave (KVPeak)	
19	Pressure relief current (KA rms)	
20	Over voltage withstand capability – KV	
a)	100 seconds.	
b)	10 seconds.	
c)	1 second	
d)	0.1 second	
21	Reference voltage (KV rms)	
a)		
b)	Reference current	
22	Numbers of unit per phase and rating of each unit	
a)		
b)	Unit rating of non linear resistors (KV rms)	
c)	Numbers of non linear resistors per unit	
d)	Dimensions of non linear resistors disk (height & dia.)	
23	Assembling position of the unit (for multiunit arresters)	
24	Minimum total creepage distance (mm)	
25	Leakage current (mA)	
26	Total weight of arrester (Kg.)	
27	Maximum cantilever strength of Surge arrester (including wind load).	
28	Overall height of surge arrester (mm)	
29	Maximum distance recommended from equipment to be protected by surge arrester (Mtr.)	
30	Minimum distance between grounded object (mm)	
31	Minimum distance between arrester phase legs (mm)	
32	Type of arrester housing (porcelain)	

33. Statement of type test reports furnished:

Name of test as per clause no. 6.2.2	Details of test reports			
	Name of test lab	Date of test	Date of report	Rating of equipment tested

34. Any other particulars

Signature of bidder.....  
Name of Firm.....  
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:-

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

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

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

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

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

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

If executed partially to be mentioned <b>(Quantity)</b>	whether still to be executed	Delivery stipulated in order	Remarks
7	8	9	10

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

**(Signature)**

Name & Designation  
with seal of the bidder.

**SCHEDULE-VIIA****TN-1377****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 Electrical Utilities / Government Departments / Discoms/ SEBs as detailed out below:*

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 & seal 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

C A Firm (\_\_\_\_\_)

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

**JODHPUR VIDYUT VITRAN NIGAM LIMITED**

**SCHEDULE-VIII**  
**TN-1377**

**DELIVERY SCHEDULE**  
**PART-A**

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

<b>S.No.</b>	<b>Particular of material</b>	<b>Commencement period</b>	<b>Rate of supply per month</b>	<b>Period for completion of delivery of entire material</b>
1.	30 KV 10 KA heavy duty Surge Arresters (Lightning Arresters) station type	After 60 days from date of receipt of Purchase order	Equal monthly rate	Six months after commencement Period

**Note :- In case ordered quantity is different than quoted quantity, then monthly delivery shall be adjusted proportionately. Tenders in which monthly delivery schedule is not indicated, shall be ignored.**

**PART-B**

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

<b>S.No.</b>	<b>Particular of material</b>	<b>Commencement period</b>	<b>Rate of supply per month</b>	<b>Period for completion of delivery of entire material</b>

Note:- (i) During the commencement period, the process of model assembly and submission of B.O.M. for approval shall be got completed.

(ii) During the commencement period the contractual formalities shall be got completed.

**Signature**  
**Name & Designation**  
**with seal of the tenderer.**

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

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

## Schedule - X

**GENERAL PARTICULARS ABOUT THE TENDER IN BRIEF**

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

**TELEPHONE: - 0291-2651376****FAX: - 0291-2746539**

**SPECIFICATION FOR SUPPLY OF 30 KV SURGE ARRESTERS UNDER SPECIFICATION NO.JUD/SE/MM-IV/TN-1377.**

Last date for receipt of tenders	<b>23.01.2018 upto 12:00PM</b>
Date & time of tender opening	<b>23.01.2018 at 3:00 PM</b>
Bid security to be deposited	iv) General Bidder : Rs. 13, 806.00 v) Sick Unit : Rs 6903.00 vi) SSI unit of Rajasthan : Rs3451.00*
Cost of the specification	Rs 2,950.00 ( non-refundable)
Tender processing Fee	Rs 1,000.00 ( non-refundable)
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 tha 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.

**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 (**Schedule-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

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## Schedule – XI

**Format of Affidavit**

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).

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 taken or may adopt option after approval of purchaser to withheld **5%** (in case of established suppliers)/ **1%** (in case of Micro, Small & Medium scale industries of Rajasthan)/ **2%** (in case of sick industries) / **10%** (in case of other suppliers) amount in lieu of performance security from each bill on pro-rata/ proportionate basis. 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.****

**APPENDIX-A**

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

**PERFORMA OF BANK GUARANTEE FOR BID SECURITY**

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

To,

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

1. Whereas \_\_\_\_\_ (name of the Bidder) (hereinafter called “the Bidder”) has submitted its bid dated \_\_\_\_\_ (date of submission of bid) for \_\_\_\_\_ (name of contract/ name of the material with Bid no. / TN No. \_\_\_\_\_) (hereinafter called “the Bid”).
2. KNOW ALL PEOPLE by these presents that WE \_\_\_\_\_ (name and address of branch of Bank ) of \_\_\_\_\_ (name of country), having our registered office at \_\_\_\_\_ (addresses of bank) (hereinafter called “the Bank”), are bound unto \_\_\_\_\_ (name of Purchaser) (hereinafter called “the Purchaser”) in the sum of Rs. \*\_\_\_\_\_ for which payment well and truly to be made to the said Purchaser, the Bank binds itself, its successors, and assigns by these presents sealed with the Common Seal of the said Bank this \_\_\_\_\_ day of \_\_\_\_\_ 20\_\_\_\_.
3. THE CONDITIONS of this obligation are :
  - i. If the bidder withdraws its Bid during the period of bid validity specified by the Bidder in the Bid Form; or
  - ii. If the bidder refuses to accept the correction of error in his Bid; or
  - iii. If the bidder, having been notified of the acceptance of its Bid by the purchaser during the period of bid validity:
    - a. Fails or refuses to execute the Contract Agreement within the time specified in purchase / work order, if required, or
    - b. Fails or refuses to furnish the performance security within the time specified in purchase / work order in accordance with the GCC, or
    - c. Fails to commence supply of goods or services or execute work as per purchase / work order within time specified.
  - iv. If the bidder breaches any provision of the Code of integrity specified in the RTPP Act and Chapter VI of the RTPP Rules.
4. We undertake unconditionally and irrevocably to guarantee as primary obligator and not as surety merely to pay to the purchaser a sum of Rs. \_\_\_\_\_ (in words Rs. \_\_\_\_\_) upon receipt of its first written demand, without the purchaser having to substantiate its demand, provided that in its demand the Purchaser will note

that the amount claimed by it is due to it owing to the occurrence of one or all of the above three conditions specifying the occurred condition or conditions.

5. The decision of the Superintending Engineer (MM&C), Jodhpur Vidyut Vitaran Nigam Limited, Jodhpur shall be final whether breach has been committed on the right to demand the amount of guarantee from us which has accrued to the purchaser.
6. This guarantee shall not cease or determine, if the purchaser grants time or indulgence or vary the terms of the contract with the Contractor or without our consent or knowledge.
7. The guarantee herein contained shall not be affected by any change in the constitution of the Contractor.
8. We \_\_\_\_\_ further undertake not to revoke this guarantee during its currency except with the previous consent of the Superintending Engineer (MM&C), Jodhpur Vidyut Vitaran Nigam Limited, Jodhpur.
9. All disputes arising under the said guarantee between the Bank and the Nigam or between the Contractor and the Nigam pertaining to the guarantee, shall be subject to the jurisdiction of the Courts in Jodhpur, Rajasthan alone.
10. This guarantee will remain in force up to and including one hundred eighty (180) days after the date of the opening of bids, i.e. upto \_\_\_\_\_, with a further grace period of Ninety (90) days and any demand in respect thereof should reach the Bank not later than the above date.

Yours faithfully,  
Bankers (EXECUTANT)

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

Witness :

1. \_\_\_\_\_.
2. \_\_\_\_\_.

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

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

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