	AJMER VIDYUT VITRAN NIGAM LIMITED OFFICE OF THE SUPERINTENDING ENGINEER (MM) Corporate Identification Number (CIN) – U40109RJ2000SGC016482 Regd. Off. Vidyut Bhawan, Makarwali Road, Panchsheel Nagar, Ajmer 305 004. TEL. 0145-2644529 FAX 0145-2644542. email- semmajmer@gmail.com Website – www.avvnl.com
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**SPECIFICATION FOR SUPPLY OF GALVANISED M.S.FORGED PINS FOR
11 KV PIN INSULATORS (11 KV PINS) AGAINST TENDER NO. TN-1102**

Last Date & time for down loading of tenders	08.02.2017 up to 1.30 PM
Last Date & time for submitting of tenders	08.02.2017 up to 5.00 PM
Date of opening of tenders	09.02.2017 up to 2.30 PM
Cost of Specification	Rs. 2500.00 (Rs. Two Thousand Five Hundred only)
Tender Processing fees	Rs. 1000.00 (Rs. One Thousand only)
Validity	120 days from the next date of opening of Techno commercial bid.
Earnest Money	Rs. 1,50,000.00/- (Rs. One Lacs Fifty Thousand only) / Exemption Certificate / Vendor Registration Of Class “D” Category.
TENDERING QUANTITY	Galvanised M.S. Forged Pins for 11 KV Pin Insulators (11 KV Pins)- 10,00,000 Sets
CONTACT PERSON (AUTHORISED BID SIGNATORY)	Superintending Engineer (MM) AVVNL, Ajmer
CORRESPONDENCE ADDRESS:	Makarwali Road, Panchsheel Nagar, Ajmer
MOBILE NO.	9414004258
TELEPHONE & FAX Nos.:	0145-2644529 / 0145-2644542
WEBSITE & E-MAIL:	1. Web: www.avvnl.com 2. Web: http://risl.rajasthan.gov.in , Email: info.risl@rajasthan.gov.in

Address of RISL:-
Raj Comp Info Services Limited (RISL)
1st Floor, Yojana Bhawan, Tilak Marg, C-Scheme,
Jaipur (Rajasthan)
Phone: 0141- 5103902, 4031900 Fax: 0141-2228701
Web: <http://risl.rajasthan.gov.in>, Email: info.risl@rajasthan.gov.in

Note: The bidders in their own interest are advised to go through the complete specification carefully.

VERY VERY IMPORTANT :

- i) The bidders in their own interest are advised to go through the complete specification carefully.
- ii) The material to be purchased against above Bid is meant for Ajmer Discoms. The bidders are required to quote the price for delivery of material anywhere in AVVNL.
- iii) In case of successful bidders, the purchaser reserves the right to distribute quantity awarded will issue purchase orders for which bidder will have to furnish BGs in AVVNL. However, for opening of tender the bidder should be registered vender in class “A” category of AVVNL or furnish requisite EMD.
- iv) Clause No. 1.12.3 (c) & 1.12.4 of Instructions to bidders stands amended as under:

- (a) Existing Qualification Requirement for minimum quantity to be quoted is Reduced to one third.
- (b) Counter offer will be given to all responsive bidders.

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Note:- The bidders, in their own interest, are requested to read very carefully Section-I (Instruction to bidders), Section-II (General Condition of Contract) & Section-III (Technical Specification) before filling the bid. The Bid documents be downloaded from website www.avvnl.com, <http://eproc.rajasthan.gov.in> & www.sppp.rajasthan.gov.in. No hard copy of the bidding documents will be provided to the bidders through this office. In case of any discrepancy found in bidding documents downloaded from the website and appended with the bid (as a bid document) and original copy of such document available in the office of Superintending Engineer (MM), Ajmer Discom, Ajmer then the copy available with Superintending Engineer (MM), Ajmer Discom, Ajmer will be considered as final document for all purpose. The cost of Bid document as published in NIT shall be furnished along with downloaded bid document in the manner prescribed in bid document.

Section-III**TECHNICAL SPECIFICATION AND OTHER REQUIREMENTS FOR GALVANISED M.S FORGED PINS FOR 11 KV PIN INSULATORS (11 KV PINS) AGAINST TN-1102****1.0 SCOPE :**

1.1 This specification covers the design, manufacture, inspection and testing before despatch, supply and delivery of Galvanised M.S.Forged Pins specified herein for their satisfactory operation in 11 KV Sub-Transmission lines in Rajasthan.

1.2 The technical specifications, contained herein ,are for the guidance of the bidders. Any deviation from the Purchaser's specification will be considered on their relative merits in respect of performance, efficiency, durability and overall economy consistent with the requirements stipulated herein after. Such deviations shall be clearly entered by the bidders in the form as per Schedule-VI of the specification.

2.0 CLIMATIC CONDITIONS :

2.1 The pins shall be suitable for being installed directly in air with power conductors of 11 KV Double Circuit and Single Circuit Sub-transmission lines. They shall be therefore suitable for satisfactory operation under the tropical climatic conditions listed below :

i) Location	in the state
ii) Maximum ambient Air Temperature (deg.C)	50
iii) Minimum Ambient Air Temperature (deg.C) Temperature (deg.C)	(-) 2.5
iv) Average daily Ambient Air Temperature (deg.C)	32.2
v) Maximum relative humidity (%)	100
vi) Minimum relative humidity (%)	50
vii) Average rainfall per annum (mm)	150-1000
viii) Number of rainy days per Annum	70
ix) Altitude above mean sea level (meters)	100-1000
x) Isoceraunic level (Days/Annum)	25(thunder storm)
xi) Maximum wind pressure (Kg/sq.m.)	195
xii) Seismic level (Horizontal Acceleration)	0.08 g

3.0 PRINCIPAL PARAMETERS :

The 11 KV galvanized M.S. Forged Pins suitable for use with 11 KV Pin Insulators (Confirming to ISS:731:1971 with latest amendments if any) shall comply in all respects with the ISS:2486 (Part-I):1993 & ISS:2486(Part-2/1989) (with latest amendments if any).

3.1 DETAILS OF GALVANISED M.S.FORGED PINS :

The 11 KV Galvanised M.S. forged pins should be suitable to be used with 11 KV Pin Insulator respectively for a three phase, 11 KV Sub-transmission lines in a moderately polluted atmosphere.

3.2 DRAWINGS :

Detailed drawings must be furnished along with bid. The drawing shall comply with IS 2486(Part-I)/1993 & IS:2486 (Part-II)/1989 with latest amendment if any. The 11 KV Galvanised M.S.Forged Pins shall be suitable for use with 11 KV Pin Insulator (confirming to IS 731/1971 with latest amendment, if any) respectively.

4.0 GENERAL TECHNICAL REQUIREMENTS :

4.1 HEADS :

The head shall be of steel and shall be in accordance with Fig.1 of IS:2486 (Part-2) / 1989 with latest amendments, if any. They shall screw into a thimble fixed in the pin hole of the insulators. The dimensions of the gauges for these heads are given in fig. 2 to 4 of aforesaid IS.

4.2 PINS :

The 11 KV Galvanized M.S. Forged Pins suitable for use with 11 KV Pin Insulators (Conforming to IS:731/1971 with latest amendments if any) shall comply in all respects with the IS: 2486 (Part-1)/1993 & IS:2486 (Part-2)/1989 with latest amendments if any. The dimensions of the line pins shall be as given in fig. 5 of the above mentioned ISS.

4.3 STALKS :

The stalk length of line pins shall be measured above the seating face of the collar conforming to IS:2486 (Part-2)/1989.

4.4 SHANKS :

The shank length of the line pins shall be measured below the seating face of the Collor & conforming to IS:2486 (Part-2)/1989.

4.5 GALVANISED M.S.FORGED PINS :

i) GALVANISATION :

All ferrous pins and nuts shall be hot dipped galvanised. The galvanisation shall conform to IS: 2633/1986 with latest amendments and satisfy the requirements given in IS:4759/1984. The threads on the nuts & tapped holes shall be cutout after galvanising & shall be well oiled or greased. Spring washers shall be electro galvanised conforming to service grade No.4 of IS:1573/1986(latest amended).

ii) FAILING LOAD :

The 11 KV Pins shall be offered for minimum failing load of 5 KN.

iii) DIMENSIONS : The 11 KV Pins for supply under this specification shall be of small steel head as per figure No. 5 of IS:2486 (Part-2)/ 1989 and shall have the following dimensions.

- a) Stalk length. : 165 mm
- b) Shank length. : 150 mm
- c) Hexagon nut : M20 as per IS:1363(Part-3) /1992
- d) Spring washer : Nominal size 20 as per IS:3063/1972.

4.6. THREADS :

Threads shall be as specified in IS:4218 (Part-2) /1976 and matching with 11 KV Pin Insulators conforming to IS:731/1971 (with latest amendments if any)

4.7 HEXAGON NUTS :

Hexagon Nuts of M-20 size shall conform to IS:1363(Part-3):1992 (latest amended).

4.8 SPRING WASHERS :

Spring washers shall conform to IS:3063:1972 (Latest amended).

4.09 MATERIAL DESIGN AND WORKMANSHIP :

4.09.1 GENERAL :

i) All raw materials to be used in the manufacture of these pins shall be subject to strict raw material quality control and to stage testing/quality control during manufacturing stage to ensure the quality of the final end product. Manufacturing shall conform to the best engineering practices adopted in the field of high voltage transmission. Bidders shall therefore offer pins as are guaranteed by them for satisfactory performance on 11 kV Sub-transmission Lines.

ii) The design, manufacturing, process and material control at various stages be such as to give maximum working load, highest mobility, best resistance to corrosion, good finish, elimination of sharp edges and corners.

4.10 TESTS

4.10.1 TEST BEFORE DESPATCH: The 11 KV Galvanised M.S.Forged pins and accessories shall be subjected at maker's works before despatch, to the tests mentioned here-under as per IS: 2486(Part.1)/1993 (with latest amendments).

4.10.2 ROUTINE TESTS :

The following tests shall be conducted on each unit by the bidder at his works as per relevant standard - IS:2486 (Part-1)/1993 (latest amended) :

- a) Visual Examination (Clause-8)

4.10.3 ACCEPTANCE TESTS :

The following tests shall be conducted on samples taken at random from a lot as per relevant standard, IS:2486 (Part-1)/1993 (latest amended) in presence of purchaser's representative :

- a) Verification of dimensions (Clause 8 & 9.2.2)
- b) Galvanizing Test (Clause 9.4)
- c) Mechanical Tests (Clause 9.5)

5.0 TYPE TESTS

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

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

5.02 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).

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

5.04 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**. The initial validity of Bank Guarantee shall be nine months with claim period of three months in addition.

- i) Where a new Rajasthan based firm is participating & is technically competent.
- ii) Where one or more type test(s) is/ are older than 5 years.
- iii) Where Rajasthan/outside Rajasthan firm furnishes requisite type test reports of higher rating material.

5.05 The following shall constitute the type tests which are to be conducted on atleast three units of each rating as per relevant standard IS:2486 (Part-1)/1993 (Latest amended) :-

- a) Freedom from defects (Clause 5 & 6).
- b) Verification of dimensions (Clause 8 & 9.2.2)
- c) Galvanising Test (Clause 9.4)
- d) Mechanical Tests (Clause 9.5)
- e) Chemical Composition Test (Clause 9.6)

5.2 SAMPLING : As per IS:2486 (Part-1)/1993 (latest amended)

5.3 TOLERANCE ON TEST RESULTS : As per IS:2486(Part-1)/1993 & IS:2486 (Part-2)/1989(latest amended).

6.0 TESTING FACILITIES :

The bidder must indicate clearly about the various testing facilities for type test as well as for routine/sample tests as per relevant ISS is respect of M.S.Forged Pins as are available at their works. In case no testing facilities are available at the bidder's works particulars of the place where such testing is proposed to be conducted during the course of inspection must be indicated.

7.0 INSPECTION

All the tests (as mentioned at Clause 6.1.2) 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 furnished 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 program 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. The inspection charges would be to the purchaser's account.

8.0 PACKING & FORWARDING :

- i) All 11 KV Galvanised M. S. Forged pins shall be packed in double bags, one HDP bag (inner) and one gunny bag (outer) or in double gunny bag. The gross weight of each packing shall not normally exceed 50 Kg.
- ii) The packing shall be of sufficient strength to withstand rough handling during transit, storage at site and subsequent handling in the field.

9.0. PRICES & PRICE VARIATION:

a) The prices quoted shall be variable as per price variation formula given in the specification (**Schedule-II**). The IEEMA formula allowing price variation for transmission line accessories & H/W containing all steel as under, shall hold good for 11 KV Pins with **base date 1st day of one month prior to the date of opening of technical bid (i.e. B.D. 01.01.2017)**.

$$P = \frac{P_o}{100} (20 + 58 \frac{SBIR}{SBIR_o} + 7 \frac{Zn}{Zn_o} + 15 \frac{W}{W_o})$$

The details of this PV clause are available at (Schedule-II).

- 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 old indices are discontinued then the PV shall be admissible with the new indices.
- c) The date of delivery (i.e. date of readiness of material) is to be considered as per clause No. 1.10 of Section-I(Instructions to bidder).

10. DELIVERY SCHEDULE

The bidder is required to quote monthly delivery. The delivery of quoted quantity should be completed in **Ten months** period including commencement period of **maximum 30 days in equal monthly installments**. In case ordered quantity is different than quoted quantity, then monthly delivery shall be adjusted proportionately. Bids in which monthly delivery schedule is not indicated shall be ignored.

The bidders are required to indicate the delivery schedule in the schedule attached with the Specification.

11.0 TEST CHECKING OF MATERIAL AT STORES

11.1 The material received in the stores of the NIGAM shall be subjected to the test checking at stores before final acceptance of the material, the procedure for the same shall be as under :

11.2 SAMPLING

One sample out of **each sub-lot / lot of 3000 Nos.** or part thereof from each inspected lot received in stores shall be selected for test checking of material and shall be got tested. The selection of sample from the material received at stores shall be done as soon as material is received in stores without the presence of the representative of the supplier. However, testing of sample(s) at CTL shall be carried out in the presence of representative of the supplier after identification / confirmation by him that sample so selected belongs to them. In case the supplier disputes that the selected samples does not pertain to them, then fresh sample shall be selected in the presence of the representative of the supplier and test(s) be carried out.

11.3 TESTS

The following tests shall be carried out on the above items :

- a) Visual Examination, Verification of Dimension, weight and marking
- b) Mechanical Test.
- c) Galvanisation (Uniformity) Test.

11.4 Test of the material shall be got done at the test laboratory of the respective Discom in the presence of representative of supplier. For witnessing of the testing, clear 7 (seven) days notice shall be given to the supplier by fax/ speed post stating date, time & place where the test is to be conducted. In case the supplier do not attend for witnessing the testing, the testing shall be proceeded and completed and action be taken as per the contract.

11.5 The witnessing officers of the respective Discom or as designated by the purchaser shall send copies of test reports to the purchaser, consignees and the supplier and AO (CPC) of respective Discom.

11.6 Only those tests shall be conducted at CTL for which facility with CTL is available.

12.0 CRITERIA FOR ACCEPTANCE

12.1 Visual Examination, Verification of Dimension, weight and marking. As per specification/ ISS

12.2 Mechanical test.

In case of failure of sample in Mechanical Test, the material contained in the lot / sub-lot to which the sample belongs, shall be rejected. The rejected material shall have to be replaced by the supplier free of cost.

12.3 Galvanisation (Uniformity) Test.

12.2.1 The sample(s) shall be first tested for (n-2) number of dips where (n) is specified number of dips in the contract. If the sample(s) does not pass the uniformity of Galvanisation Test for (n-2) dips, the material shall be rejected and the material relating to relevant lot / sub-lot to which sample(s) pertains shall have to be replaced by the supplier free of cost.

12.2.2 If the sample has passed the uniformity of Galvanisation Test for (n-2) dips, then it shall be tested for (n-1) dips. If the sample has not passed the uniformity of Galvanisation Test with (n-1) dips, then material pertaining to relevant lot / sub-lot shall be accepted with a deduction @ 10% of cost of material.

12.2.3 If the sample has passed the uniformity of Galvanisation Test with (n-1) dips, then sample shall be tested for last one dip of one minute to complete the test for 'n' dips. If the sample does not pass the uniformity of Galvanisation Test with 'n' dips, then the material pertaining to relevant lot/ sub-lot shall be accepted with a deduction @ 5% of cost of material.

12.2.4 If the sample(s) have passed the Test with number of dips as specified in the contract (n), then material pertaining to relevant lot / sub-lot shall be accepted.

13.0 TEST CHARGES :

All test charges incurred towards test checking of the material received in our stores shall be borne by the NIGAM.

14.0 PAYMENT :

Payment shall be made only after receipt of successful test report from the CTL of AVVNL on the samples selected from the material received at the stores. However, the due dates for payment shall be considered from the date of submission of the bills along with receipted challans to Accounts Officer (CPC) of respective Discom

15.0 IDENTIFICATION & MARKING :

Each 11 KV Pin shall be marked with the manufacturer's name or trade mark.

16.0 QUANTITY TOLERANCE : Quantity tolerance of plus minus 2% of ordered quantity shall be allowed for completion of supply .

SCHEDULE-I**SCHEDULE OF REQUIREMENT**

S.No.	Particulars	Qty	Qty in Nos.
1	Galvanised M.S. Forged Pins for KV Pin Insulator(<u>11 KV Pins</u>)	11	10,00,000

The requirement of 11 KV pins as indicated above is tentative and can be increased or decreased at the time of placing of the order.

SCHEDULE-II**IEEMA/PVC/TL-A&H/2001(R-3)****Effective from 1st April.2014****PRICE VARIATION CLAUSE FOR TRANSMISSION LINE ACCESSORIES AND HARDWARES.**

CONTAINING:(A) BOTH ALUMINIUM & STEEL (B) ONLY ALUMINIUM
(C) ONLY STEEL

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

(A) Transmission line accessories & hardware containing both **Aluminium & Steel**

$$P = \frac{Po}{100} (20 + 40 \frac{Al}{Alo} + 5 \frac{Zn}{Zno} + 20 \frac{SBIR}{SBIRo} + 15 \frac{W}{Wo})$$

(B) Transmission line accessories and hardware containing only **aluminium** :

$$P = \frac{Po}{100} (20 + 65 \frac{Al}{Alo} + 15 \frac{W}{Wo})$$

(C) Transmission line accessories and hardware containing only **steel**:

$$P = \frac{Po}{100} (20 + 58 \frac{SBIR}{SBIRo} + 7 \frac{Zn}{Zno} + 15 \frac{W}{Wo})$$

Wherein :

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

Po = Price quoted/confirmed.

Alo = Price of EC grade aluminium ingots (refer notes) .

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

SBIRo = Price of Steel Billet-Retail (refer notes).

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)

The above prices and indices are as published by IEEMA vide Circular reference NO. IEEMA (PVC)/ TLA&H (R-3) / _ / _ of the Month of **1st day of one month prior to the date of opening of technical bid.**

Al = Price of EC grade aluminium ingots. (refer notes).

This price is as applicable on the 1st working day of the month , **two** month prior to the date of delivery.

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

This price is as applicable on the 1st working day of the month, **two** month prior to the date of delivery.

SBIR = Price of Steel Billets-Retail. (refer notes).

This price is as applicable on the 1st working day of the month, **two** month 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 on the first working day of the month, **four** months prior to the date of delivery.

For example, if the date of delivery falls in July,2015, the applicable price of Aluminum (Al) ,Zinc (Zn) and Steel Billets-Retail (SBIR) should be for the month May,15 and all India average consumer price index number (W) should be for the month of March,2015 .

The date of delivery (i.e. date of readiness of material) is to be considered as per clause No. 1.10 of Section-I(Instructions to bidder).

Schedule – III

	AJMER VIDYUT VITRAN NIGAM LIMITED OFFICE OF THE SUPERINTENDING ENGINEER (MM) Corporate Identification Number (CIN) – U40109RJ2000SGC016482 Regd. Off. Vidyut Bhawan, Makarwali Road, Panchsheel Nagar, Ajmer 305 004. TEL. 0145-2644529 FAX 0145-2644542. email- semmajmer@gmail.com . Website – www.avvnl.com
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Prescribed technical specification for supply of
 (Name of Material/Equipment/Machinery/T&P etc.)
GALVANISED M.S FORGED PINS FOR 11 KV PIN INSULATORS (11KV PINS)

S.No.	Technical specification which material/equipment/ Machinery/T&P shall conform	Name of IS/other standard specification to which material should conform	Other particularsto if any.
1.	Specification for Insulator fittings for overhead power lines with nominal voltage greater than 1000 V	IS:2486	
	General requirements and test	Part-1	BS:3288(International Standard)
	Dimensional Requirements	Part-2	IEC:120
2.	Hexagonal Head Bolts, Screws and Nuts of Product grade C	IS:1363 (Part.1)	
	Hexagonal Nuts (Size range M.5 to M.36)	IS:1363 (Part.3)	
3.	Metric Screw Threads	IS:4218	
4.	Dimensions for radii under the heads of bolts and screws.	IS:4172	
5.	Recommended practice for Hot dip galvanising of Iron & Steel.	IS:2629	
6.	Specification for Zinc	IS:209	
7.	Dimensions for nominal lengths and threads length for bolts, screws and studs.	IS:4206	
8.	Schedules for wrought steel for general engineering purpose. Steel specified by tensile and/or yield properties,	IS:1570 (Part.1)	
9.	Specification for Carbon steel forgings for general engineering purposes.	IS:2004	
10.	Method for determination of Zinc coating on Zinc coated iron steel articles.	IS:6745	

S.No.	Technical specification which material/equipment/ Machinery/T&P shall conform	Name of IS/other standard specification to which material should conform	Other particularsto if any.
11.	Electroplated coatings of zinc on iron and steel.	IS:1573	
12.	Introduction & general information for threaded fasteners.	IS:1367 (Part-1)	
13.	Product grades & tolerances	IS:1367 Part-II	
14.	Mechanical properties & test methods for Bolts screws and studs with full load ability.	IS:1367 Part-III	
15.	Plain washers(Ist revision)	IS:2016	
16.	Methods of testing uniformity of coating of zinc coated article	IS:2633 (IInd revision).	

Certified that we agree to all the aforesaid technical specification except at S.No..... for which our technical specification shall be as under:-

S.No.	Technical specification which material/equipment/ Machinery/T&P shall conform	Name of IS/other standard specification to which material should conform	Other particularsto if any.

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

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

(On Rajasthan Non-Judicial Stamp Paper worth Rs. @ 0.25% of BG amount or Rs. 25,000/-, whichever is less.)

To,

The Superintending Engineer (MM),
Ajmer Vidyut Vitran Nigam Limited,
Makerwaki Road, Panchsheel Nagar,,
Ajmer -305004.

Dear Sir,

Whereas ajmer Vidyut Vitran Nigam Limited , Ajmer (hereinafter called the purchaser) has issued a bid enquiry under TN..... for procurement of (Name of material) .

Whereas M/s (hereinafter called the bidder) has furnish a bid for supply of to The Superintending Engineer (MM&C), Ajmer Vidyut Vitran Nigam Limited, Ajmer or his Nominated officer (s) .

Whereas in accordance with the provision of the specification of the afore said 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 bid, makes default in furnishing the required type test certificates. Also whether the occasion or ground has arisen for such demand the decision of The Superintending Engineer (MM), Ajmer Vidyut Vitran Nigam Limited, 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 AJMER in Rajasthan.

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

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 upto Unless demand or claim in writing is presented on the Bank within three months from that date, the bank shall be released and discharged from all liabilities thereunder. 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

Witness:

- 1.
- 2.

SCHEDULE-III-A**QUALIFICATION REQUIREMENT**

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 **3.33%** of 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, voltage Class, Rating of the Transformer 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/ equipment. Such type test certificates should not be older than 5 years as on the date of bid opening. For this purpose date of conducting type test will be considered.

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

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

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

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

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

i) Where a new Rajasthan based firm is participating & is technically competent.

ii) Where one or more type test(s) is/ are older than 5 years.

iii) Where Rajasthan/outside Rajasthan firm furnishes requisite type test reports of higher rating material.

4.0 POOR RECORD OF PERFORMANCE AND DELIVERY :

The bidders 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 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	Levy of maximum recovery on account of delay in delivery along with severment of relations for a period of 2 years

commence supplies.	from the date of issue of order or in next two bids whichever is later along with forfeiture of EMD / cancellation of vendor registration.
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5.0 (A) Black listing of a firm:

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

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

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

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

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

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

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

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

(B) Severment of Business relation:

(a) After having given Show Cause Notice of 30 days, and having established & cogent reasons for Severment of business relation as given below, the firm should immediately be severed the business relations for a period of 2 to 3 years indicating reasons of doing so, in the letter itself, and a copy of such severment should be given to the firm, with the approval of CLPC:-

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

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

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

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

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

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

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

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

(C) **DEBARMENT**

Reasons on which Debarment can be made:-

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

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

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

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

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

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

6.0 **APPEALS AND APPLICATIONS:-**

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

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

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

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

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

Schedule-IV `A`**TN-1102
ITEM- 11 KV PINS****Must be filled in by the bidder and attached with Technical Bid (Part-I)**

To,

The Superintending Engineer (MM),
Ajmer Vidyut Vitran Nigam Limited,
Ajmer.

Dear Sir,

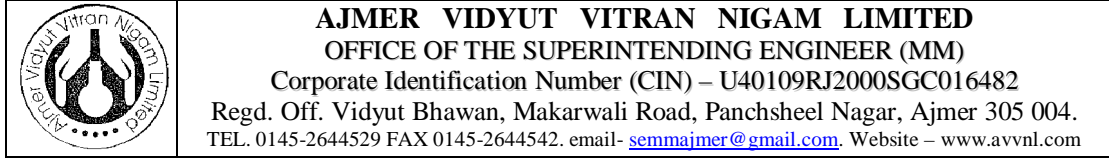
With reference to your invitation to bid against specification No. **AVVNL/SE(MM)/E4-A2/TN-1102**, we agree to supply the following quantity :

S. No.	Particulars of Items	Bid Quantity	Qty. Offered	Justification of quantity offered as per Qualifying Requirement	Status of Type Test Certificates.
1.	2.	3.	4.	5.	6.
1	11 KV PINS	10,00,000			

1. The offer is valid for a period of 120 days from the next date of opening Techno commercial bid.
2. The prices are variable as per P.V. Formula given at Schedule-II.
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 (Section-II), we are liable to pay recovery for delay in delivery as per clause No.1.24 of Section-II of this specification.
The material shall conform to your specification No. **AVVNL/SE(MM)/E4-A2/TN-1102** 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. **AVVNL/SE(MM)/E4-A2/TN-1102** and there are no deviations other than as specified in the Schedule-VI (A & B).

Yours faithfully,

**Signature of bidder with stamp
Dated.**

Schedule – V

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

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

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

S.No.	Particulars of technical & other Performance data	Reasons for deviations/departure.
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(Signature)
Name & Designation
with seal of the bidder.

SCHEDULE-V(A)**GUARANTEED TECHNICAL & OTHER PARTICULARS OF
11 KV GALVANISED M.S.FORGED PINS.**

(To be filled in by the bider and sent along with bid)

S.N.	Description	11 KV PINS
1.	a) Manufacturer's Name & address.	To be filled by bidder
	b) Work's address	To be filled by bidder
2.	Minimum failing load (KN)	5 KN
3.	Standard specification to which the material shall conform.	IS: 2486 (Part-1)/1993 & IS: 2486 (Part-2)/1989 with latest amendments if any.
4.	Dimensions (mm):-	
a)	Total length.	315 mm
b)	Shank length.	150 mm
c)	Stalk length.	165 mm
5.	Type of threads.	As per IS 4218 (Part-2)/1976
6.	Threads per inches.	IS 4206
7) a	Type of Galvanisation.	Hot dip
b)	Galvanisation shall conform to.	As per IS: 2633/1986 with latest amendments if any.
8.	Hexagon nut shall conform to	M-20 IS: 1363(Part-3)/1992
9.	Spring washer shall conform to	Size 20 IS: 3063/1974
10.	Electro-galvanisation of spring washer shall conform to.	As per IS: 1573/1986
11.	Packing details :-	
a)	Type of packing	double bags, one HDP bag (inner) and one gunny bag (outer) or in double gunny bag
b)	Weight of each pin (approx.)	925 gms.± 2%
c)	No. of Pins in each packing.	50 Nos.
d)	Weight of each package (kg)	Less than 50 Kg.
12.	Tolerance in dimensions,if any.	As per IS: 2486 (Part-1)/1993 & IS: 2486 (Part-2)/1989 with latest amendments if any
13.	Tolerance in Weight	± 2% of 925 gms
14.	ISI certification license number, if any.	
15.	Any other relevant information the bider would like to indicate.	
16.	Manufacturer's trade mark to be embossed on the pins.	To be filled by bidder
17.	Other details/informations.	

Signature

Name & Designation with seal of the firm

Schedule – VI (A)

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.
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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)**DEPARTURE FROM COMMERCIAL TERMS & CONDITIONS OF THE
SPECIFICATION**

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

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

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

Schedule – VII**LIST OF PAST SUPPLIES**

The bidder shall state under this schedule whether material and equipments, similar to those offered in the bid 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 mentioned order	whether still to be executed	Delivery stipulated in	Remarks to be
7	8	9	10

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

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

SCHEDULE-VIIA**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 & particulars of purchasing authority	Order No. & Date against which item(s) supplied	Unit	Ordered		Actual Supplied		Remarks
						Qty	Value (Rs.)	Qty	Value (Rs.)	

Signature

Signature of C.A.

Name & Designation
With Seal of the BidderName:
Address

Date _____

Place _____

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(_____)

SCHEDULE-VIII

DELIVERY SCHEDULE
TN-1102
PART – A

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

S.No.	Particular Of Material	Commencement Period	Rate Of Supply per Month	Period for Completion of delivery of Entire material
	Galvanised M. S. Forged Pins for 11 KV Pin Insulator (11 KV Pins)	30 Days from the date of receipt of detailed Purchase Order.	Equal Monthly Installments	Nine Months after commencement period.

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

PART - B

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

S.No.	Particular Of Material	Commencement Period	Rate Of Supply per Month	Period for Completion of delivery of Entire material

- 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 Bidder

Schedule – IX

**List of Equipments and Technical Hands Available with the Firm
(To be filled in by the bidders & enclosed with the bid)**

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

1. Name and Address of Manufacturer.
2. Place where works exist.
3. Details of machinery particularly with B.H.P. of each item installed.
4. Details of staff employed in the works.
5. Date when started the manufacturing of item under reference.
6. List of items manufactured.
7. Literature and drawings of items manufactured showing their description, size, design and other important technical particulars.
8. Details of order so far, executed alongwith the names of organization to whom supplied.
9. Manufacturing capacity.
10. Is the workshop open for inspection by the representative of the board, if required?
11. Statement of financial resources and Banking Reference alongwith Balance-Sheet for previous two years.
12. Testing facilities available for the manufactured articles in the testing laboratory of works.
13. Whether the Firm is a small/medium/large scale industry.
14. Registration No. with :-
 - i. Small Scale, National/State.
 - ii. DGTD
 - iii. State Industries Department.

(Signature)

Name & Designation
with seal of the bidder.