

JAIPUR VIDYUT VITARAN NIGAM LIMITED
OFFICE OF THE SUPERINTENDING ENGINEER (PROC)
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SPECIFICATION FOR SUPPLY OF 33 KV HORN GAP FUSE SETS WITH POST 2X24 KV
INSULATORS (UN-ASSEMBLED) & 11 KV HORN GAP FUSE SETS WITH 1X24 KV POST
INSULATORS (UN-ASSEMBLED) AGAINST TENDER NOTICE NO. JPD/SE/PROC./SPO-III/TN-
4355

Last Date of receipt of tenders	19.08.2011 upto 2:30 PM
Date of opening of tenders	19.08.2011 at 3:00 PM
Cost of Specification	Rs. 2500.00 (Rs. Two Thousand Five Hundred only)
Validity	120 days from the next date of opening of techno-commercial bids
Earnest Money	Rs. 1,50,000.00 (Rs. One Lac fifty Thousand only) / Exemption Certificate / Vendor Registration Of Class " D " Category.
Tendered Quantity	33 KV Horn Gap Fuse Sets with P.I. -312 Sets
	11 KV Horn Gap Fuse Sets with Pl. -1851 Sets

NOTE : The bidders are advised to go through the complete specification carefully before filing the bid in their own interest.

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Note:- The bidder, 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 can be downloaded from JVVNL website www.jaipurdiscom.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 (Proc.), Jaipur Discom, Jaipur then the copy available with Superintending Engineer (Proc.), Jaipur Discom, Jaipur 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 FOR SUPPLY OF 33 KV HORN GAP FUSE SETS WITH POST 2X24 KV INSULATORS (UN-ASSEMBLED) & 11 KV HORN GAP FUSE SETS WITH 1X24 KV POST INSULATORS (UN-ASSEMBLED) AGAINST TN-4355.****1.0 SCOPE :**

This specification covers the design, manufacture, testing before dispatch, packing & forwarding and delivery of 33 KV Horn Gap Fuses and 11 kV Horn Gap Fuses (including hardwares and post insulators). The Horn Gap Fuses shall be required for protection of lines and distribution Transformers at various sites of Jaipur Discom, the details of principal parameters/various parts of horn gap fuses are indicated in subsequent clauses hereunder.

1.1 It is not the intent to specify completely herein all details of the design and construction of equipments. However, the equipment shall conform in all respects to high standards of engineering, design and workmanship and shall be capable of performing in continuous commercial operation upto the Bidder's guarantee in a manner acceptable to the Purchaser, who will interpret the meanings of drawings and specifications and shall have the power to reject any work or material which in his judgment is not in accordance therewith. The offered equipment shall be complete with all components necessary for its effective and trouble free operation along with associated equipments, interlocks , protection schemes etc. Such components shall be deemed to be within the scope of supply, irrespective of whether those are specially brought out in this specification and/or the commercial order or not.

2.0 SERVICE CONDITIONS :

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

i) Location	In the state of Rajasthan
ii) Max. ambient air temp. in shade (Deg.C)	50
iii) Min. ambient air temp. (Deg.C)	(-) 5
iv) Average daily ambient air temperature(Deg.C.)	45
v) Max. yearly weighted ambient temp.(Deg.C.)	35
vi) Relative humidity (%)	100
vii) Average annual rainfall (mm)	100 to 1000mm (depending upon area)

viii)	No. of rainy days P.A.	70
ix)	Max. wind pressure (Kg/sq m)	195
x)	Max. altitude above mean sea level (mtrs)	1000
xi)	Isoceraunic level (month/year)	4 months (June to Sept)
xii)	Seismic level (horizontal acceleration)	0.08g

Note : Moderately hot and humid tropical climate conducive to rust and fungus growth. The climatic conditions are also prone to wide variations in ambient conditions. Smoke is also present in the atmosphere. Heavy lightning also occurs during June to October.

3.0 PRINCIPAL PARAMETERS :

3.1 The equipment i.e. horn gap fuse unit covered in this specification shall be a complete unit with 2 x 24 KV Post Insulator type E-32 for use on 33 kV system and 1X24 KV Post Insulator type E-32 for use on 11 kV system The ratings of 33 kV & 11 KV Horn Gap Fuses with post insulators shall be as under :

PARTICULARS/ RATINGS HG FUSES	Specified values (33 KV H.G.)	Specified values (11 KV H.G.)
a) Nominal system voltage kV (rms)	33	11
b) Rated voltage kV(rms)	36	12
c) Rated frequency(Hz)	50	50
d) One minute power frequency withstand voltage kV(rms) (To earth & between poles).	70	55
e) Impulse withstand voltage kV peak).(To earth & between poles).	170	125
f) Permissible temperature rise above ambient temp. (50 deg cent.)	40 deg. Cent.	40 deg. Cent.
g) Rated Current (Amp)	200	100

3.2 The minimum mechanical & electrical values/ characteristics of 24kV Post Insulators shall be as follows :

S. No.	Particulars	Specified values
1.	Torsional Strength	680mm
2.	Cantilever Strength	9000 N
3.	Tensile Strength	30000 N
4.	Compression Strength	40000 N
5	Highest system voltage (kV rms)	24
6.	Dry & wet power frequency withstand test voltage for one minute(kV rms)	55

7.	Impulse withstand test	125 (KV Peak)
8.	Visible discharge test	18 (KV rms)
9.	Power frequency puncture withstand test voltage (kV rms)	1.3 times the actual dry flash-over voltage of the unit.

3.3 DIMENSIONAL CHARACTERISTICS OF POST INSULATORS :

S.No.	Particulars.	2X24 kV (33 KV HG fuse)	1X24 KV (11KV HG Fuse)
1.	Nominal system voltage.	33 kV	11 KV
2.	No. of units	Two	One
3.	Total height of		
	i) unit	254 mm	254mm
	ii) Stack	508 mm	
4.	Diameter of Insulating part (max.)	210 mm	210mm
5.	Minimum total creepage distance of each unit	430 mm	430mm
6.	Top fitting pitch circle diameter	76 mm	76mm
7.	Bottom fitting pitch circle diameter	76 mm	76mm

3.4 One set of Horn Gap Fuse Shall consist of three single phase units of Horn Gap Fuses.

4.0 GENERAL TECHNICAL REQUIREMENTS :

HORN GAP FUSES :

4.1 The hardware of horn gap fuses shall be designed and manufactured as per enclosed drawing. The horn gap fuse sets are to be used for protection of lines and distribution transformers. The bill of material to complete one set (i.e. for Three phases) shall be as per duly signed drawing No. JPD/SE/Proc./SPO-II/ HG enclosed with this specification.

4.2 The hardware of Horn Gap Fuses shall be constructed out of the best quality of material suitable for weather conditions prevailing in Rajasthan. The workmanship shall be in accordance with the modern engineering practice. All ferrous parts shall be given an anticorrosive finish. The other parts shall be substantially non corrosive. The details of various specific parts for manufacture are as under :

(1) BASE CHANNEL :

The base channel shall be of size 125mmX60mmx542 mm Long(for 33 KV HG Fuse sets) and 75X40x542 mm Long (for 11 KV HG Fuse sets) of **Hot Dip Galvanized** mild steel conforming to ISLC 75 of Tata Reference Book 1970 in case of 33 KV Horn Gap Fuses. The base channel should have holes for mounting post insulators as shown in the drawing enclosed with this specification and as per clause 4.1.2.

(2) HORN STOOL :

Two numbers of Horn Stools of **Hot Dip Galvanized** MS flat of size 50 x 6 mm as detailed in the drawing will be used. The Horn Stool shall be fixed on the top of the post insulators with the help of electro galvanized bolts and spring washers as shown in the drawing. The Horn Stool must be rigid and strong enough for fixing the horn over the top of horn stool, as shown in the drawing. Over the top of the horn stool, the horn will be fixed as shown in the drawing.

(3) ARCING HORN :

Two numbers arcing horns of 12 mm dia of **Hot Dip Galvanized** M.S. round rod will be used. It will be aluminum painted. The base of arching horns should be projecting to 25 mm as shown in drawing.. It shall be fitted on horn stool with the help of horn clamps, nuts, bolts and spring washers. The length of the horn/height should be maintained as shown in the drawing. The horn should have a hole & fixing brass thumb screw with fly nut and flat washer to tie and tighten the fuse wire as shown in the drawing.

(4) BRASS THUMB SCREW :

There shall be one tapped hole on each arcing horn as shown in the drawing. The brass thumb screw will be fixed in the tapped hole provided in each arcing horn. The fuse wire is to be tied with brass thumb screw and tightened with help of fly nut (Brass) and flat washer (Brass). The length of brass thumb screw will be fully threaded and screwed up to the whole depth of the horn. The design must be such that the changing of fuse wire is convenient. There is no loose connection/contact and there should not be any possibility of thumb/jamming on account of arcing when fuse is blown off.

(5) HORN CLAMPING ARRANGEMENT :

There shall be two M.S. Horn clamp of size 50x105x6 mm fixed on horn stool with the help of bolts and nuts, spring washers as shown in drawing for fixing the arcing horns and clamping the conductor. The lower part of the clamping for holding the required conductor shall be of size 50x50x6 mm as shown in drawing. This shall be made from M.S. sheet. The clamp for 33 KV horn gap fuse shall be suitable for ACSR "DOG".

(6) EARTHING TERMINAL :

One number earthing terminal shall be provided on the flange portion of base channel. The M.S bolt of 12 mm dia and 25 mm long shall be used with flat washer for this purpose.

(7) BOLTS, NUTS AND WASHERS :

All the bolts, nuts and washers shall be electro-galvanized. However the thumb screw and its connecting fly nut and flat washer, to be used to fix fuse wire, will be of brass only. The size of various bolts, nuts and washers which are in the scope of supply are as below :

S.NO.	SIZE OF BOLTS, NUTS AND WASHERS.	TO BE UTILISED FOR	qty. for 1 unit of 33 KV	qty. for 1 unit of 11 KV
1.	Bolt size 12mm dia, 25mm long with flat washer & nut.	Earthing terminal	4 Nos.	4 Nos
2.	Bolt size 12mm dia, 38mm long with nuts & spring washer.	For fixing post insulators on base.	8 Nos.	8 Nos
3.	Bolt size 12 mm dia, 25mm long with nuts spring washers.	For fixing horn stool above the post insulators.	4 Nos	4 Nos
4.	Bolt size 5/6 dia 1.25" long with nuts and spring washers.	For fixing arcing horn on horn stool and clamping	16 Nos.	16 Nos
5.	Brass thumb screw (6mm dia. 30mm long) with Brass fly nut (30mm wing dia) flat washer (1mm thick, 20mm outer dia and internal dia. such as to accommodate the 6mm dia brass screw).	For fixing fuse wire on the arcing horn.	2 Nos.	2 Nos.

5.0 POST INSULATORS :

5.1 The 24 kV post insulators units shall be pedestal post type (conforming to IS-5350 Part-III and IS-2544). The insulators shall be constructed out of the best quality of material suitable for weather conditions prevailing in Rajasthan. The workmanship shall be of the highest grade and the entire manufacture shall be in accordance with the modern Engineering practices.

5.2 Where Porcelain Insulators are offered, the insulator shall be made of homogeneous and vitreous porcelain of high mechanical and die-electric strength. It shall have sufficient mechanical strength to sustain electrical and mechanical loading on account of wind load, short circuit forces etc. Glazing of the porcelain shall be of uniform brown or dark brown colour with a smooth surface arranged to shed away rain water. The porcelain shall be free from laminations and other flaws or imperfections that might affect the mechanical or dielectric quality. It shall be thoroughly vitrified, tough and impervious to moisture. The porcelain and metal parts shall be assembled in such a manner and with such material that any thermal differential expansion between the metal and porcelain parts throughout the range of temperature specified in this specification shall not loosen the parts or create undue internal stresses which may affect the mechanical or electrical strength or rigidity of the unit as a whole or stack of two units. The assembly shall not have excessive concentration of electrical stresses in any section or across leakage surfaces. Cement used in the construction of post insulators shall not cause fracture by expansion or loosening by construction and proper care shall be taken to locate correctly the individual parts during cementing. The cement used shall not give rise to chemical reaction with metal fittings and its thickness shall be uniform. The insulator shall be suitable for water washing by rain or artificial means in service condition. Profile of the insulator shall also conform to the relevant IS.

5.3 Cap to be provided on top of the insulator shall be of malleable steel casting or of aluminum alloy. It shall be machine finished and hot dip galvanized in case of malleable steel casting. The cap of 24 kV Post Insulators shall have four numbers of tapped holes spaced on a pitch circle diameter of 76mm. The threads of the tapped holes in the post insulator metal fittings shall be cut after giving anti corrosion protection and shall be protected against rust by greasing or other similar means, all other threads shall be cut before giving anticorrosion protection and shall conform to IS:4218 or latest version thereof. The tapped holes shall be suitable for bolts with threads having anticorrosive protection. The effective depth of threads shall not be less than the nominal diameter of the bolt. The cap shall be so designed that it shall be free from visible corona.

5.4 The casting shall be free from blow holes, cracks and such other defects.

5.5 All the ferrous metal parts shall be given an anticorrosive finish and shall be hot dip galvanized smoothly as per IS:3638 (as amended upto date), IS:2633 or any other equivalent authoritative standard. The other parts shall be substantially non corrosive. The material shall be galvanized only after shop operations upon it have been completed. The metal parts before galvanizing should be thoroughly cleaned of any paint, grease, rust, scales or alkali or any foreign deposit which are likely to come in the way of galvanizing process. The coating on the metal parts shall withstand minimum four one minute dips in copper sulphate solution as per the relevant IEC/IS.

5.6 The insulator unit shall be assembled in a suitable jig to ensure correct positioning of the top and bottom metal fittings relative to one another. The faces of the metal fittings shall be parallel and at right angles to the axis of the insulator and the corresponding holes in the top and the bottom metal fittings shall be in a vertical plane containing the axis of the insulator.

5.7 It shall be the sole responsibility of the Supplier to carry out thorough inspection and quality checks on the insulators at the insulator supplier's works, before offering the insulators for Purchaser's inspection.

5.8 Two Nos. of 2 x 24 kV Post Insulator shall be provided on each pole of 33 kV Horn Gap Fuse set (Total six Nos. of 2 x 24 kV Post Insulator for three phases (Poles) of one set of H.G.) Two Nos. of 1 x 24 kV Post Insulator shall be provided on each pole of 11 kV Horn Gap Fuse set. (Total six Nos. of 1 x 24 kV Post Insulator for three phases (Poles) of one set of H.G.)

5.9 The porcelain and hardware surface coming in contact with cement shall be coated with bituminous paint for cushioning to relieve mechanical stress caused by temperature variation and cement expansion.

5.10 The post insulators shall conform to IS:5350. The total creepage distance of 24 kV post insulator as individual unit shall be minimum 430 mm.

5.11 Following makes of the Post Insulators shall be acceptable for the supply of Horn gap Fuse Set

- i) M/s.Jaipur Glass & Potteries, Jaipur.
- ii) M/s.India Potteries, Kolkata.
- iii) M/s.Bikaner Ceramices, Bikaner.
- iv) M/s.CJI Porcelain, Khurja.
- v) M/s.Vishal Melleable, Ankeleshwar.
- vi) M/s.Allied Ceramices Pvt. Ltd., Kolkata.
- vii) M/s.WSI, Chennai.
- viii) M/s.IEC, Bhopal.
- ix) M/s.MIL, Allahabad.
- x) M/s.Jay Shree Insulators, Vadodara.
- xi) M/s.Birla NGK Insulators Pvt. Ltd., Halol.
- xii) M/s.MIL, Abu Road.
- xiii) M/s.Sarvana Insulators Ltd., Kurinji Padi, Dist Cuddalore, (Tamilnadu).
- xiv) M/s B.H.E.L.

5.12 Besides above, the Post Insulators manufactured by the vendors approved by the Power Grid Corporation of India Ltd (PGCIL) and National Thermal Power Corporation (NTPC) shall also be acceptable.

6.0 TESTS :**6.1 TEST BEFORE DESPATCH :**

The parts of H.G. Fuses i.e. Hardwares and post insulators shall be subject to under mentioned tests separately at respective manufacturer's works before dispatch as per relevant standards.

INSULATORS :**A) Routine test**

- i) Visual examination
- ii) Routine electrical test
- iii) Routine mechanical test

B) TYPE TESTS

- i) Visual examination
- ii) Verification of dimensions
- iii) Visible discharge test
- iv) Impulse voltage withstand test.
- v) Dry power-frequency voltage withstand test.
- vi) Wet power frequency voltage withstand test.
- vii) Temperature cycle test.
- viii) Mechanical strength :
 - a) Bending Test
 - b) Torsion Test.
 - c) Tensile or compressive test.
- ix) Puncture test.
- x) Porosity test.
- xi) Galvanizing test.

C) Acceptance Tests :

- i) Verification of dimensions
- ii) Temperature cycle test
- iii) Mechanical strength test
- iv) Puncture test
- v) Porosity test
- vi) Galvanizing test

TEST ON HORN GAP FUSE UNIT COMPLETE WITH INSULATORS AND HARDWARES**A TYPE TEST (S) :**

- i) Visual examination
- ii) Dimensional checkup
- iii) Temperature rise test
- iv) Power frequency H.V. Test, with inter phase distance as 1000 mm. (for 33 KV HG fuse set) and with inter phase distance as 600 mm. (for 11 KV HG fuse set)

- v) Impulse test. with inter phase distance as 1000 mm.(for 33 KV HG fuse set) and with inter phase distance as 600 mm.(for 11 KV HG fuse set)

B ACCEPTANCE TESTS :

- i) Visual examination
- ii) Dimensional checkup
- iii) Temperature Rise Test
On one sample per lot

6.2 TEST ON BOUGHT OUT ITEMS :

Tests are not required to be performed on small bought out parts like Nuts, Bolts & Washers etc. at the works of manufacturer. Furnishing of test certificates from original manufacturer(s) shall be deemed to be satisfactory evidence. Inspection of the tests at sub contractor's works will be arranged by the supplier when ever required.

6.3 ACCEPTANCE & ROUTINE TESTS :

6.3.1 All acceptance & routine tests as stipulated at clause No.6.1 shall be carried out in presence of purchaser's representative at manufacturer's works of Insulators and Hardwares separately before dispatch.

6.3.2 Immediately after finalization of the programme of type/acceptance, routine testing, the supplier shall give sufficient advance intimation to the purchaser to enable him to depute his representative for witnessing the tests.

The test samples after having withstood the routine tests shall be subjected to the following **Acceptance tests** in the order indicated below :

On Insulators

- i) Verification of dimensions as per approved drawing / ISS.
- ii) Temperature cycle test.
- iii) Mechanical strength test.
- iv) Puncture test.
- v) Porosity test
- vi) Galvanizing test

On Hardwares of Horn Gap Fuse sets

- i) Visual examination
- ii) Dimensional checkup
- iii) Temperature Rise Test (only on one unit per lot)

Fitment of Horn gap Fuse hardwares with Insulator test

One percent of insulators inspected shall be brought at the contractor works for checking of fitment with hardware.

6.3.3 For conducting acceptance tests on post insulators the number of post insulators or post insulators unit shall be selected as under:-

Lot size	number of post insulators unit to be selected
Upto 800	6
801 to 1300	8
1301 to 3200	10
3201 to 8000	14
8001 and above	20

6.3.4 10% samples will be selected from offered lot of complete Horn Gap Fuse sets Hardwares for conducting acceptance tests on the same except fitment test which shall be carried out on one percent of offered lot.

7.00 TYPE TEST CERTIFICATE:

- a) The bidder shall furnish valid and authenticated type test certificate from a Govt. approved/ a Govt. recognized/ NABL accredited laboratory/ ILAC i.e. International Laboratory Accredited laboratory / ILAC i.e International Laboratory Accrediation Cooperation (In case of foreign laboratory) of similar rating and design. Such type test certificates should not be older than three years as on the date of bid opening. For this purpose date of conducting type tests will be considered.
- b) The type test certificates by inhouse 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.
- c) 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)
- d) The type test certificates shall be furnished either in original or duly attested by notary.
- e) The bids of only those bidders shall be considered to be meeting the type test criteria who furnishes complete type test certificates with the bid as per above provision.

f) 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 certificates from a Govt. approved/ a Govt. recognized/ NABL accredited laboratory/ ILAC accredited shall be furnished from first lot (without asking for 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 Rs. 1,50,000 (Rs. One lac Fifty Thousand Only). The initial validity of BG shall be 9 months with claim period of 3 months in addition

- i) Where a new Rajasthan based firm is participating & technically competent.
- ii) Where one or more type test(s) is/ are older than 3 years.
- iii) Where Rajasthan / Outside Rajasthan firm furnishes requisite type test reports of higher rating material

However, the purchaser reserves the right to demand repetition of some or all the type tests in presence of purchaser's representative. For this purpose, the tenderer should indicate unit rate for carrying out such type tests. These test charges shall not be taken into consideration for bid evaluation.

During type tests the disconnecter shall be mounted on its own support structure or equivalent support structure and installed with its own operating mechanism to make the type tests representative.

8.0 TYPE TEST ON SAMPLES SELECTED FROM MATERIAL RECEIVED IN STORES FROM 1st OFFERED LOT (Applicable to Successful bidders who have not furnished valid type test certificate but furnished BG in lieu of Type Test)

The first lot offered shall not be less than 10 % of the ordered qty.

One sample of each type of Horn Gap Fuse sets from the 1st Lot received in purchaser's store shall be selected and sealed for getting it type tested at any Govt. approved/ Govt. recognized/ NABL accredited laboratory/ ILAC i.e. International Laboratory Accredited laboratory / ILAC i.e International Laboratory Accrediation Cooperation (In case of foreign laboratory). The transportation charges of sample(s) from store to test house shall be borne by NIGAM, whereas the charges incurred towards type test of the material at test house shall be borne by the Supplier. The testing charges should be remitted through D.D. in favour the Test House by the supplier with the 1st inspection offer. The name of test house shall be intimated to successful bidder after issue of Purchase order.

At the option of the purchaser, the material received in the stores may be utilized in the field after receipt of successful test reports from CTL, Jaipur for the mandatory test checking on the samples selected from the material received at stores against first lot and subsequent lot(s) in anticipation of successful type test report(s).

A) In case sample(s) from first lot fails in type tests then:

i) Supplier shall have to replace the full quantity of the respective inspected lot supplied to various stores which is lying unused.

ii) For the quantity already utilized against the order in field, a deduction of 30% (thirty percent) of F.O.R. destination price of the material supplied shall be made.

iii) Sample(s) from next lot shall be selected again for type test . All test charges incurred towards type test of the material for second time shall be borne by the Supplier for which the testing charges should be remitted through D.D. in favour of the Test House by the supplier with the 2nd inspection offer.

B) In case sample again fails in the type test then:

i) The quantity supplied/received in stores and lying unused in stores shall stand rejected and shall be lifted back by the supplier.

ii) For the quantity already utilized against the order in field, a deduction of 30% (thirty percent) of F.O.R. destination price of the material supplied shall be made.

iii) Further supplies shall not be accepted and order shall stand cancelled .

The various type tests as per relevant standards shall be conducted on each type of Isolator.

9.0 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 dispatch 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 supplying 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 advance intimation to enable the purchaser to depute his representative for witnessing the acceptance and routine tests.

The inspection charges (Inspectors traveling , boarding & lodging) would be to the purchaser's account.

Calibration Certificates:

The supplier shall present the latest calibration certificate(s) of testing instruments / equipments to be used for the testing of the materials covered in the purchase order to the authorized inspecting officer/ inspecting agency of the purchaser. The testing instruments / meters/ apparatus etc. should be got calibrated by the supplier from time to time from independent laboratory accredited from NABL or the manufacturer of the testing instruments having traceability to NPL or NABL accredited laboratory. The calibration certificates should not in any case be older than one year at the time of presenting the same to the inspecting officer/ inspecting agency of the purchaser. The testing instruments / equipments should be duly sealed by the calibrating agency and mention thereof shall be indicated in the calibration certificates(s).

10.0 QUALITY ASSURANCE PLAN :

10.1 The Bidder shall invariably furnish following information along with his offer, failing which his offer shall be liable for rejection. Information shall be separately given for Horn Gap fuses hardware unit and post insulators.

- i) Statement giving list of important raw materials.
- ii) Names of sub suppliers for the raw materials, list of standards according to which the raw materials are tested, list of tests normally carried out on raw materials in presence of Supplier's representative, and copies of test certificates.
- iii) Information and copies of test certificates as in (i) and (ii) above in respect of bought out accessories.
- iv) List of manufacturing facilities available.
- v) Level of automation achieved and list of areas where manual processing still exists.
- vi) List of areas in manufacturing process, where stage inspections are normally carried out for quality control and details of such tests and inspections.

vii) List of testing equipments available with Bidder for final testing of equipment 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 specified test requirements.

10.2 The Supplier shall, within 30 days of placement of order shall submit following information to the Purchaser.

i) List of raw materials as well as bought out accessories and the names of sub-suppliers selected from the lists furnished along with offer.

ii) Type test certificates of the raw materials and bought out accessories.

iii) Quality Assurance Plan (QAP) with hold points for Purchaser's inspection. The quality assurance plan and hold points shall be discussed between the Purchaser and Supplier before the QAP is finalized.

11.3 The supplier shall submit the routine test certificates of bought out accessories and central excise passes for raw materials at the time of routine testing.

11.0 DRAWING :

11.1 The one set of following drawings/documents of the equipment covered by this specification shall be furnished by the Bidder along with their offer:-

i) Outline dimensional drawings of Horn Gap Fuse Set with insulator and list mentioning bill of material with complete details regarding metal hardware fittings.

ii) Assembly drawings showing complete details of all parts and separating mechanism and mass of main component part.

iii) Drawings showing dimension of upper and lower metal parts along with PCD of post insulator.

iv) Descriptive literature and manufacturing data on insulator shall be furnished.

v) Type test reports (as per Clause 6.2 of Section-VII).

vi) Test reports, literature, pamphlets of the bought out items and raw materials.

vii) Detailed views of the insulator stacks & metallic and hardware unit.

11.2 The Supplier shall within 2 weeks of placement of order shall submit 3 sets of final versions of all the above said drawings along with bill of material, as per bidding documents, for purchaser's approval. The purchaser shall communicate his comments / approval on the drawing(s) to the supplier within two weeks. The supplier shall, if necessary, modify the drawings and resubmit 3 copies of the modified drawings within two weeks for purchaser's approval. The delay in submission of the modified drawings (if called for) complete in all respect and in acceptable form beyond two weeks time (as stated above), shall be on supplier's account.

11.3 The manufacturing of the equipment shall be strictly in accordance with the approved drawings and no deviation shall be permitted without the written approval of the Purchaser. All manufacturing and fabrication work in connection with the equipment prior to the approval of the drawing shall be at the Supplier's risk.

11.4 Approval of drawings/work by Purchaser shall not relieve the Supplier of his responsibility and liability for ensuring correctness and correct interpretation of the latest revision of applicable standards, rules and codes of practices.

12.0 PACKING AND FORWARDING :

12.1 Each Horn Gap Fuse Set Hardwares shall be legibly and indelibly marked to show the following :

- a) Name or trade mark of manufacturer.

The Post Insulators shall be legibly and indelibly marked to show the following :

- a) Name or trade mark of manufacturer.
- b) Month and year of manufacture.

Such marking on porcelain shall be printed, not embossed and shall be applied before firing.

12.2 The Horn Gap Fuse sets (hardwares) shall be suitably packed in double gunny bags worthy of rail/ road transport. The supplies shall have to insert in each case / bag packing list giving item wise details of articles in the packing as mentioned in the list. The post insulators shall be packed in crates suitable for vertical/ horizontal transport as the case may be and suitable to withstand handling 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 Supplier without any extra cost.

The inspected lot of Post Insulators should be directly delivered / dispatched from their (manufacturer's) works to consignee's stores.

12.3 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) Total weight of consignment.
- e) Handling and unpacking instructions.
- f) Bill of material indicating contents of each package.

13.0 QUANTITY AND DELIVERY REQUIREMENTS :

The scope of supply shall include a supply of 1% extra quantity of bolts, nuts, washers, and such other small loose items free of cost.

14.0 DELIVERY SCHEDULE

The delivery of quoted quantity should be completed in **Four months** period including commencement period of maximum 30 days. 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.

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

15.0 TEST CHECKING OF MATERIAL AT STORES:

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 :

15.1 SAMPLING

One sample out of each sub lot/ lot of 50 sets for 33 KV Horn gap fuse sets and 100 sets for 11 KV Horn Gap fuse sets or part thereof from each inspected lot received in stores shall be selected from each store 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 or elsewhere as arranged by JVVNL shall be carried out in the presence of representative of the supplier after identification / confirmation by him that sample so selected belongs to them.

15.2 TESTS

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

- a) Visual examination , verification of dimensions, weight and marking as per PO/ GTP / approved drawing.
- b) Post Insulators :
 - i) Mechanical strength test.
 - ii) Porosity Test
 - iii) Puncture Test
- c) All galvanized parts. - Uniformity of galvanization test.

Testing of the material shall be got done at the test laboratory of the Nigam i.e. at CTL in the presence of the representative of the supplier. Only those test shall be conducted at CTL for which facility with CTL is available.

i) For witnessing of the testing, clear 7 days notice shall be given to the supplier stating date, time & place where the test is to be conducted. The testing shall be started after identification / confirmation of sample by the representative of the supplier that sample selected for testing pertain from the lot supplied by them. In case the supplier does not attend for witnessing the testing, the testing shall be proceeded and completed and action be taken as per the contract.

ii) The CTL shall send copies of test reports to the purchaser, consignees and the supplier.

15.3 CRITERIA FOR ACCEPTANCE

In case of failure of any of sample (s) in any of the above tests, the material contained in the lot / sub-lot received in store to which the samples belong, shall be rejected. The rejected material shall have to be replaced by the supplier free of cost.

15.4 TEST CHARGES :

All test charges incurred towards test checking of the material received in our stores shall be borne by the NIGAM except that of personal expenses of the representative of the supplier for witnessing the tests.

16.00 PAYMENT :

The Payment shall be governed in accordance with the clause No. 1.42 of GCC with the following modifications :-

A) If bidder have submitted valid type test reports with bid:

The 100% payment shall be released after receipt of successful test reports from CTL for the mandatory test checking on the samples selected from the

material received at stores against first lot and subsequent lot(s) in anticipation of successful type test reports.

B) If bidder have not submitted valid type test reports with bid:

i) The 70% payment shall be released after receipt of successful test reports from CTL for the mandatory test checking on the samples selected from the material received at stores against first lot and subsequent lot(s) in anticipation of successful type test reports.

ii) The balance 30% payment shall be released after receipt of successful type test reports on the samples selected from the material received in the stores.

C) The due dates for payment shall be considered from the date of submission of the bills along with receipted challans to Sr. Accounts Officer (CPC) of respective Discoms.

17.0 PRICE & PRICE VARIATION:

a) The prices shall be quoted in Rs. per unit on F.O.R. destination basis in the manner detailed in schedule of Prices(Schedule-IV) indicating details of ex-works price, Excise Duty, Sales tax / VAT, freight & Insurance charges and Entry Tax, etc. for delivery at our stores.

b) The quoted price shall be variable as per Price Variation formula given in this specification at Schedule-II without any ceiling. The base date of price variation shall be **1.07.2011** and shall be governed as per clause No.1.10. of Instructions to bidders. The offers in which prices have not been quoted in prescribed manner are liable to rejection.

c) 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.

18.0 Quantity tolerance :

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

SCHEDULE-ISCHEDULE OF REQUIREMENT

The quantity to be purchase is as under:

PARTICULARS OF ITEM	QUANTITY(sets)
33 KV HORN GAP FUSE SETS WITH 2X24 KV POST INSULATORS (UN-ASSEMBLED)	312
11 KV HORN GAP FUSE SETS WITH 1X24 KV POST INSULATORS (UN-ASSEMBLED)	1851

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

SCHEDULE-II A**PRICE VARIATION CLAUSE FOR HARDWARE PARTS**

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 index number for steel and insulators and all India average consumer price index number for industrial workers as specified below. In case of any variation in these prices and index numbers, the prices shall be subject to adjustment, up or down in accordance with the following formula.

$$P1 = P0 \left(0.15 + 0.74 \frac{S1}{S0} + 0.33 \frac{L1}{L0} \right)$$

Where:

P1= Ex-works price payable per Set of Hardware of Horn Gap

P0= Quoted Ex-works price on per Set of Hardware of Horn Gap

S1= Ex-works price in Rs. Per MT of steel angles (as per IS:2062) for sections below and including 330x330 mm for lighter sections as published by IEEMA on the basis of actual dispatch and applicable on first working day of the month, one month prior to the date of receipt of inspection offer letter intimating readiness of material or actual month indices of receipt of material by consignee whichever is lower.

S0= Ex-works price in Rs. Per MT of steel angles (conforming to IS:2062) for lighter angles below and including 330x330 mm as published by IEEMA prevailing as on first working day of month, one month prior to the date of tender opening i.e.

L1= The average labour index published by the Central Labour Bureau Shimla Government of India as prevailing on first working day of the month, four months prior the date of receipt of letter intimating readiness of material or actual month of receipt of material by the consignee whichever is lower.

L0= The average labour index published by the Central Labour Bureau Shimla, Government of India as prevailing first working day of the month, four months prior to the date of tender opening i.e.

a) The base date of steel as on _____(So)

b) The labour index as prevailing on _____(Lo)

The amount of VAT/MODVAT benefit should be considered by the tenderer in quoted prices.

Note:-

In case material is offered for inspection within contractual delivery schedule.

The date of delivery for allowing PV shall be the date of receipt of inspection call in the office, provided material is received within 5 days from issue of DI (in case of dispatches to same destination station), within 10 days from issue of DI (in case of dispatch within Rajasthan) and within 20 days from issue of DI (in case of dispatches from outside Rajasthan). In case, if material is received beyond the

period specified above, the PV shall be allowed considering receipt of inspection offer or receipt of material in stores whichever is advantageous to Nigam.

In case material is offered for inspection beyond contractual delivery schedule.

The date of delivery shall be the date of receipt of inspection call in the office or actual date of receipt of material by the consignees or contractual delivery whichever is advantageous to Nigam.

SCHEDULE-II B

IEEMA/PVC/INSL/2003

Effective from : 1st April,03

PRICE VARIATION CLAUSE FOR INSULATORS

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, index number for insulators and all India average consumer price index number for industrial workers as specified below. In case of any variation in these prices and Index numbers, the prices shall be subject to adjustment, up or down, in accordance with the following formula.

$$P = \frac{P_o}{100} \left(15+5 \frac{Zn}{Zno} + 53 \frac{IN-INSLR}{Ino_INSLR} + 27 \frac{W}{Wo} \right)$$

Wherein

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

Po = Price quoted/confirmed.

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

Ino-INSLR = Index number for insulators based on relative prices and weightage (as given in brackets) of wholesale price index for fuel, power, light & lubricants (28), whole sale price index for basic metals, alloys & metal products (15), wholesale price index for wood & wood products(6) and Ball clay (4), calculated considering their values as on 1st January, 2003 as base equal to 100 (Refer Notes).

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

NOTE:- The above and indices are as published by IEEMA vide circular reference N o. IEEMA/(PVC) INSLR --/-- of the month of JULY,2011

Zn = Price for electrolytic high grade zinc (refer notes) . This price is as applicable on the first working day of the month , two months prior to the date of delivery.

IN - INSLR = Index number for insulators based on relative prices and weightages (as given in brackets) of whole-sale price index for fuel power, light and lubricants (28) wholesale price index for basic metals, alloys & metal products (15), wholesale price index for ball clay (4), wholesale price index for wood and wood products (6), calculated considering their values as on 1st January 2003 as base equal to 100

(Refer Notes). This index number is as applicable on the first working day of the month, two months prior to the date of delivery.

W = All India average consumer price index number for industrial workers (base 2001 = 100), as published by Labour Bureau, Ministry of Labour, Govt. of India. This index number is as applicable on the first working day of the month, four months prior to the date of delivery.

BASE DATE:- 1.07.2011

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 bidders)

NOTES :

a) All prices of raw material considered for arriving at the index number for insulators are exclusive of Modvatable excise duty and exclusive of any other central, state or local taxes, octroi etc.

b) All prices as on 1st working day of calendar month.

c) The details of the prices considered are as under :

1) The prices of electrolytic high grade Zn (in Rs./MT) is ex-works price as quoted by primary producer of Zn.

2) The prices of ball clay (in Rs./Kg) is the average price of "N-1" type ball clay as quoted by the two manufacturer.

3) The wholesale price index for fuel, power, light & lubricants, basic metals, alloys and metal products and wood and wood products are as published by the office of the Economic Advisor, Ministry of Industry, Govt. of India, New Delhi with base 1993-94=100. These wholesale price indices are being published weekly on provisional basis. However, the same get finalized after eight weeks and are normally available after two months. Therefore, we are considering in our calculations these final indices published by Economical Advisor for the Saturday of the Month, two month prior to the date of which the price of ball clay and Zn is considered. For example for calculating index number for insulators on 1st working day of month of Oct., the basic price of Zn and ball clay are to be considered as on 1st working day of Oct., and the wholesale price indices for fuel, power, light and lubricant, basic metal, alloy and metal products and wood and wood products are to be considered as published by economic adviser for the first week ending Saturday of the month of August.



JAIPUR VIDYUT VITRAN NIGAM LIMITED

A Govt. of Rajasthan Undertaking
Prescribed technical specification for supply of

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

Unless otherwise specified elsewhere in this specification, the rating as well as performance and testing of the isolators shall conform to the latest revisions and amendments of the following standards available at the time of placement of order.

S.No.	Technical Specification to which Material shall confirm	Name of IS/standard	other particulars
1.	Recommended practice for hot dip galvanizing of iron and steel	IS:2629	
2	Method of testing uniformity of coating on zinc coated articles	IS:2633	
3.	Specification for porcelain post insulators for systems with nominal voltages greater than 1000 Volts	IS:2544	
4.	ISO General purpose metric screw Threads	IS:4218	
5.	Dimensions of indoor and outdoor porcelain post insulators and post insulator units for systems with nominal voltages greater than 1000Volts	IS:5350	
6.	Expulsion high voltage fuses for above 1000 Volts.	IS:9385	

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 shall confirm	Name of IS/standard	other particulars

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

SCHEDULE-III (A)

TN-4355

**ITEM : 33 KV Horn Gap Fuse Sets with 2X24 KV Post Insulators and
11KVHorn Gap Fuse Sets with 1X24 KV Post Insulators****PRE-QUALIFICATION REQUIREMENT**

The bidder should fulfill following qualification requirements for successful participating in the bid 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 manufacturer of offered item. The offers from authorized dealer/ sole selling agent/sole distributor shall not be entertained.

b) Old / new Suppliers:- Any bidder having their works located within or outside the state of Rajasthan has albeit participated for the first time in particular Discom & meeting minimum qualification requirement (whether Raj. Or outside Rajasthan) has supplied the bided material / higher rating in other utility shall be treated as an old Supplier. Rajasthan based firms not meeting minimum quantity supplied criterion but having manufacturing and adequate testing facility and technical know-how shall be considered as new firms and would be eligible for trial order only.

2.0 Past supply and performance criteria:

The bidder shall meet both past supply and performance criteria as detailed below for opening of bids.

2.01) PAST SUPPLY

2.01.1) The bidder is required to quote for minimum 10% of tendered quantity, failing which the 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 2xQQ/ (QQ being the quoted quantity in Kms.) of similar item / higher rating of tendered material / equipment **in last three financial years from the date of opening of technical-commercial bid. Material supplied under Turnkey Project shall be considered for qualifying requirement if bidder either furnishes a certificate of the Discoms / Utility that same material / equipment has been supplied to them or furnishes proof of supply i.e. receipted challans of the material / equipment supplied to Discoms / Utility.**

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

2.01.3) In support of fulfillment of past supply criteria, the bidder shall furnish documentary evidence in the form of certificate from Chartered Accountant in the prescribed proforma (schedule- VIIIA) only. This prescribed proforma should be either in original or copy duly attested by Notary. The bidder shall also sign and affix seal on the prescribed format C.A. certificate. The certificate should have membership number with the name & address of then chartered accountant. Certificate should clearly indicate the quantity supplied, period of supply, voltage class/ accuracy class of material etc. in the format prescribed. Any deviation to the format or information diverted format will not be considered and rejected.

3. PERFORMANCE CRITERIA

(i) If a bidder could supply upto 50% of ordered quantity in previous bid upto date of opening of subsequent bid and scheduled delivery period expired, the bid of such bidder will not be opened in the Discom for that item.

(ii) However, if the supplies have been completed for a quantity more than 50% but not completed upto date of opening of subsequent bid and scheduled delivery period expired, then quantity equal to the quantity pending in previous bid for that item shall be reduced from the subsequent bid quantity to be allocated to the bidder.

4. TYPE TEST CRITERIA

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

b) The type test certificates by in house laboratory of bidding firm even if it is a Govt approved/ Govt recognized/ NABL accredited Laboratory / ILAC accredited, shall not be accepted, in case of their own bid. This will not apply if bidding firm is Govt. Company/ Public Sector Undertaking.

c) 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)

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

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

f) However, in the following cases the Bidder is not in a position to furnish Type Test Certificate as mentioned above, 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. approved / Govt. recognized / NABL Accredited laboratory / ILAC Accredited laboratory shall be furnished from first lot received in Nigam store (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. 1,50,000/-** (One Lac Fifty Thousand Only) . 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 3 years.
- iii) Where Rajasthan/out side Rajasthan firm furnishes requisite type test report of higher rating material.

5. 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 prices 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.
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 relation for a period of two 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.

6. BLACK LISTING

Bids of the firms black listed shall not be opened. Bidders are liable for black listing for five years in any of the following circumstances:-

(i) There are sufficient and strong reasons to believe that the suppliers 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 materials issued for specific works etc.

(ii) The suppliers continuously refuses to pay Nigam dues after registered notice even after lapse of six months without showing adequate reasons and where the registering authority is satisfied that no reasonable dispute attracting reference to settlement committee or court of law exists for the supplier's action.

(iii) 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 dealings or where security consideration including suspected disloyalty to the Nigam so warrant.

(iv) if a registered supplier , being non tenderer for supply but still submits applications giving after receipt / opening of bids received after due process.

Note-I If a supplier after having bided for a work / supply or after negotiations acceptance of order gives applications voluntarily vitiating the fair bidding process , it shall also tantamount to malpractice.

Note-II Severment once done will continue for the notified period of debarment even if the dues are deposited prior to the expiry of such severment period.

However , the relations be deemed to have been restored after expiry of severment period mentioned in the order but the bid of such bidder will not be opened in that discom where severment was done if the recoverable amount has not been deposited by the firm i.e. severment done by one Discom for non supply and corresponding recovery will not be effective in other Discom after expiry of notified period but the bid of such bidder will not be opened in that particular Discom if the firm has not deposited amount recoverable.

APPEALS AND APPLICATIONS :-

Appeal against the order of blacklisting, debarment and severment can be filed before BOD. The BOD may reduce or waive the penalty if sufficient reasons / supporting documents are furnished by supplier.

7. GENERAL CONDITIONS

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 Specification 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 failing which the bid will summarily rejected.

IV) The bidder should possess adequate testing facilities for carrying out routine & acceptance test of items as per relevant standard(s) at their works. The bidder shall furnish documentary evidence in support for conducting routine & acceptance test.

Schedule-III-B**BANK GUARANTEE IN LIEU OF FURNISHING OF TYPE TEST CERTIFICATE****(On Rajasthan Non-Judicial Stamp Paper worth Rs. 100/-)**

To,

**The Superintending Engineer(Proc.),
Jaipur Vidyut Vitran Nigam Limited,
Old Power House Premises,
Near Ram Mandir, Bani Park,
Jaipur**

Dear Sir,

Whereas Jaipur Vidyut Vitran Nigam Limited, Jaipur (hereinafter called the Purchaser) has issued a tender enquiry under TN-4355 for procurement of _____(name of material).

Whereas M/s _____(hereinafter called the bidder) has furnished a bid for supply of _____to the Superintending Engineer(Proc.), Jaipur Vidyut Vitran Nigam Limited.

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(Proc.), Jaipur 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 JAIPUR in Rajasthan.

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

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 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**

Witnesses:

1.

2.



JAIPUR VIDYUT VITRAN NIGAM LIMITED

A Govt. of Rajasthan Undertaking
SCHEDULE OF PRICES

(Must be filled by the bidder and returned with the bid)

The Superintending Engineer (Proc. /MM), _____ Vidyut Vitran Nigam Limited

_____ with reference to your invitation to bid against specification No....., we agree to supply at prices (firm/variable) given as follows

S. No.	Particulars of Material	Quantity offered	Unit Ex-works Price (in Rs.)	Excise duty (Per Unit)		Cess on Excise Duty(Per Unit)		CST/VAT (Per Unit)		Freight (Per Unit) (In Rs.)	Insurance (Per Unit) (In Rs.)	Total Price In Rs. (Per Unit) Col. No. (4+6+8+10+11+12)	Entry Tax @ _____ % on Col. 13 (In Rs.)	All adjusted unit F.O.R. Destination Price including Entry Tax Col. No.13+14	Total Contract Value (In Rs.)
				Rate	Amt	Rate	Amt	Rate	Amt						
1.	2.	3.	4.	5.	6.	7.	8.	9.	10.	11.	12.	13.	14.	15.	16.

Notes:-

- (i) **The bidder is required to quote the prices in the above format only. Bids having prices quoted in other format/manner are liable to be ignored.**
- (ii) **The bidder must fill each and every column of the above format . Mentioning “extra/ Inclusive” in any of the column may lead for rejection of the price bid.**
- (iii) **No cutting/ overwriting in the prices is permissible.**
- (iv) **The unit Ex-work price to be indicated in Col. No. 4 should be exclusive of taxes & duties which are to be indicated in separate columns meant for the purpose. .**
- (v) **In case of price bid break-up is given component wise and also given sum total by the bidder but there is a difference between aggregate of component wise and sum total , then lesser of the two will be taken into account.**

Signature of bidder with rubber stamp

TN-4355

**ITEM : 33 KV Horn Gap Fuse Sets with 2X24 KV Post Insulators and
11KVHorn Gap Fuse Sets with 1X24 KV Post Insulators**

Must be filled in by the tenderer and attached with Technical Bid (Part-I)

**To,
The Superintending Engineer (Proc),
Jaipur Vidyut Vitran Nigam Limited,
Jaipur.**

Dear Sir,

With reference to your invitation to tender against specification No.JPD/SE/Proc/TN-4355, 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	33KV Horn Gap Fuse Sets with 2X24 KV Post Insulators	312 Sets			
2.	11KV Horn Gap Fuse Sets with 1X24 KV Post Insulators	1851 Sets			

- The offer is valid for a period of 120 days after the date of opening of this tender.
- The prices are variable with base date of different component as per PV formula given at Schedule-II
- It is noted that the quantity as mentioned in the specification are approximate and we agree to supply any quantity as per your requirement.
- The delivery shall strictly be in accordance with our delivery 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 this Schedule-II of this specification.
The material shall conform to your specification No.JPD/SE/Proc/ TN-4355 and as per relevant ISS in all respect.
- We conform that we agree to all the terms & conditions as well as the technical stipulation of your specification No.JPD/SE/Proc/TN-4355 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 A

GUARANTEED TECHNICAL PARTICULARS FOR 11 KV & 33 KV HORN GAP FUSES WITH POST INSULATORS (TO BE FILLED IN BY BIDDERS SEPARATELY FOR HARDWARE PART AND INSULATOR PART OF HORN GAP FUSES)			
A. SCHEDULE OF GUARANTEED TECHNICAL PARTICULARS FOR HARDWARE PART OF HORN GAP FUSES :			
S.No	Particulars	33 KV Horn Gap Fuse	11 KV Horn Gap Fuse
1	Name of Manufacturer		
2	2 Weight of one complete Horn Gap Fuse (Hardwares only) single phase.		
3	a) Size of brass thumb screw with fly nut.		
	b) Size and Nos. of brass washers with each unit		
4	Nos. and size of various electro plated nuts, bolts and spring washers		
5	Whether holes of base of horn stool and channel & relevant bolts shall match with the holes of post Insulator unit designation No. E-32 (as detailed at Table No. 1 of IS:5360 (Part-III)/1971.		
6	Tolerances (As per IS):		
	a) Dimensions.		
	b) Metal parts.		
7	Standard to which galvanisation conforms		
8	a) Arcing Horn size		
	b) Material		
9	Whether suitable to withstand temperature rise of 40 deg. Cent at 50 deg cent ambient.		
B) FOR INSULATOR PART (24 kV POST INSULATORS) OF HORN GAP FUSES SETS			
1	Manufacturer's Name and Country of Manufacture		
2	Standard(s) according to which the Post Insulators are manufactured.		
3	a) Manufacturer's type/ designation of post insulators.		
	b) Make		
	c) Drawing No		
	d) Catalogue No.		
4	Glaze		
5	Mass of insulator unit in Kg		
6	No. of insulators per stack		
7	Total height of post insulator Unit (mm).		
8	Height of		
	a) Upper metal fitting.(mm)		
	b) Bottom metal fitting.(mm)		
9	Diameter of Insulating part in mm.		
10	Minimum creepage distance in mm.:		

S.No	Particulars	33 KV Horn Gap Fuse	11 KV Horn Gap Fuse
	i) Total		
	ii) Protected		
11	Dry arcing distance (mm)		
12	Diameter of base plate(mm)		
13	Details of holes in bottom and Upper metal fitting for assembly with metal hardware and middle metal fittings		
	i) Nos. and dia of holes with PCD in upper metal fitting.		
	ii) Nos. and dia of holes with PCD in bottom metal fitting.		
14	Material used for :		
	i) Cap		
	ii) Cement		
	iii)Sanding		
	iv) Cushion		
	v) Porcelain Shell		
	vi) Paint		
	vii)Pedestal		
	Mechanical Values		
15	Ultimate bending strength _ upright		
16	Ultimate bending strength _ inverted		
17	Ultimate torsional strength		
18	Ultimate tensile strength		
19	Ultimate compression strength		
	ELECTRICAL VALUES		
20	Rated voltage (kV)		
21	Rated frequency (Hz.)		
22	Dry one minute power frequency withstand voltage (kV rms)		
23	Wet one minute power frequency withstand voltage (kV rms)		
24	Dry power frequency flashover voltage (kV rms)		
25	Wet power frequency flashover voltage (kV rms)		
26	Dry impulse withstand voltage of 1.2/50 micro sec. positive wave(kVP)		
27	Dry impulse withstand voltage of 1.2/50 micro sec. negative wave(kVP)		
28	Dry impulse flashover voltage of 1.2/50 micro sec. Positive wave(kVP)		

S.No	Particulars	33 KV Horn Gap Fuse	11 KV Horn Gap Fuse
29	Dry impulse flashover voltage of 1.2/50 micro sec. negative wave(kVP)		
30	Power frequency puncture withstand voltage of unit in kV (rms).		
31	Visible discharge voltage KV(rms)		
32	Does the post insulator unit conform to the latest version of IS:2544 (Yes/No)		
33	Whether post insulator marked with ISI certification mark (YES/NO)		
33	Statement of type test reports furnished		
	Name of test lab		
	Dt. of test		
	Dt of report		
	Rating of Equipment Tested		
34	Marking		

Signature of tenderer with stamp
Dated.



JAIPUR VIDYUT VITRAN NIGAM LIMITED

A Govt. of Rajasthan Undertaking

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

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

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

S.No.	Particulars of technical & other Performance data	Reasons for deviations/departure.
--------------	--	--

(Signature)
Name & Designation
with seal of the bidder



JAIPUR VIDYUT VITRAN NIGAM LIMITED

A Govt. of Rajasthan Undertaking
DEPARTURE/DEVIATION FROM TECHNICAL SPECIFICATION

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

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

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

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



JAIPUR VIDYUT VITRAN NIGAM LIMITED

A Govt. of Rajasthan Undertaking
DEPARTURE FROM COMMERCIAL TERMS & CONDITIONS OF THE
SPECIFICATION

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

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

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



JAIPUR 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 Completion	Qty in MT	Order No. & Date	Name & details of purchasing authority	Date of
1	2	3	4	5	6

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

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

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

TN-4355

Schedule-VII-A

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

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

Signature of C.A.

Name:
Address

Membership No.

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

CA Firm(_____)

SCHEDULE-VIII

JAIPUR VIDYUT VITRAN NIGAM LIMITED

DELIVERY SCHEDULE

TN-4355PART – 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
1	33 KV HORN GAP FUSE SETS WITH 2X24 KV POST INSULATORS (UN-ASSEMBLED)	30 Days from the date of receipt of detailed Purchase Order.		Three Months after commencement period.
2.	11 KV HORN GAP FUSE SETS WITH 1X24 KV POST INSULATORS (UN-ASSEMBLED)	30 Days from the date of receipt of detailed Purchase Order		Three Months after commencement period

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:-

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 Tenderer



JAIPUR VIDYUT VITRAN NIGAM LIMITED

A Govt. of Rajasthan Undertaking

List of Equipments and Technical Hands Available with the Firm

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

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

1. Name and Address of Manufacturer.
2. 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.

SCHEDULE-X

JAIPUR VIDYUT VITARAN NIGAM LIMITED
OFFICE OF THE SUPERINTENDING ENGINEER (PROC)
OLD POWER HOUSE PREMISES, NEAR RAM MANDIR, BANIPARK, JAIPUR-6

FAX:0141- 2208098, TELE:0141- 2208098

SPECIFICATION FOR SUPPLY OF 33 KV HORN GAP FUSE SETS WITH 2x24 KV POST INSULATORS (UNASSEMBLED) AND 11 KV HORN GAP FUSE SETS WITH 1x24 KV POST INSULATORS (UNASSEMBLED).

AGAINST TENDER NOTICE NO. JPD/SE(Proc)/SPO.III/TN-4355

Last Date of receipt of tenders	19.08.2011 upto 2:30 PM
Date of opening of tenders	19.08.2011 at 3:00 PM
Cost of Specification	Rs. 2500.00 (Rs. Two Thousand Five Hundred only)
Validity	120 days from the next date of opening of techno-commercial bids
Earnest Money	Rs. 1,50,000.00 (Rs. One Lac fifty Thousand only) / Exemption Certificate / Vendor Registration Of Class " D " Category.
Tendered Quantity	33 KV Horn Gap Fuse Sets with P.I. -312 Sets
	11 KV Horn Gap Fuse Sets with PI. -1851 Sets

NOTE :-

1. Furnishing of Proof of deposition of cost of bid documents, Earnest Money/ exemption certificate as per Clause 1.03 & 1.16 of Section-I(Instruction to bidder) along with downloaded bid documents is essential otherwise the "BID OFFER" will not be opened. However the bidders who get themselves registered with JVVNL as per clause no. 1.5.3 of section (General Condition of Contract) before submitting of bid documents against this bid enquiry for supply of quoted item(s) under appropriate category are not required to furnish Earnest Money Deposit. They shall furnish the proof of such valid registration with their bid .Cost of bid document shall be furnished in the form of Crossed Bank Draft / Bankers Cheque payable in the name o "A.O. (MM) , JVVNL, JAIPUR ". EMD if required shall be furnished in accordance with Clause No. 1.03.1 of Section – I (Instructions to Bidders)

2. The Rajasthan/Central Govt. undertakings/Corporation/Company are exempted from furnishing of Earnest money subject to furnishing of such certificate / documentary evidence in support of their being Govt.(Central/State) undertaking.

3. Bidder shall quote both F.O.R. destination and Ex-works price , including packing and forwarding charges. Freight, and insurance charge shall also be quoted separately as per schedule of requirement and price (Schedule-IV)

otherwise their offer shall likely be ignored. The price quoted should be variable without any ceiling as per price variation formula as mentioned in schedule-II

4. Receipt of Earnest Money Deposit or valid registration certificate or certificate that the tenderer is a Government undertaking/ Corporation / Company shall necessarily be accompanied with tender otherwise the tender shall be rejected.

5. The tender offer shall be furnished in **two part** system in the following manner purchases exceeding Rs. 50 lacs

- i) **First envelope containing proof of deposition of cost of Bid documents & EMD.** Name of item, bid no., time of bid submission, due date for opening of bid and the word 'Envelope-I & Cost of bid documents and Earnest Money / Valid Registration Certificate under relevant class / A certificate of being a Rajasthan / Central Govt. undertaking' should be clearly written on the front side of the envelope.
- ii) **Second envelope for techno-commercial bid.** Name of item, bid no., time of bid submission, due date for opening of bid and the word 'Envelope – II & Techno-Commercial Bid' should be clearly written on the front side of the envelope.
- iii) **Third envelope for price bid.** Name of item, bid no., time of bid submission, due date for opening of bid and the word 'Envelope – III & Price Bid' should be clearly written on the front side of the envelope.

Note: Envelope III containing price bid will be kept in the safe custody of the concerned engineer / officer. It will be opened at a later date in respect of those bidders whose offers are found / adjudged technically and commercially acceptable. The date of opening of "Price Bid" shall be intimated to successful bidders in due course of time. In case of deviation from the stipulated clauses of bid specifications, price bid of the bidder will not be opened.
- iv) **Fourth envelope containing above three envelopes.** Name of item, bid no., time of bid submission and due date for opening of bid should be clearly written on the front side of the envelope. (All the above envelopes shall be duly sealed individually).

The bidder shall ensure that their tenders are furnished /submitted strictly in the manner detailed in the specification.

7. The tenders not accompanied with qualification requirement as per schedule-III(B), 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:

- i) Capacity, capability and competency proofing documents.
 - a) Capacity/orders of similar and higher rating of tendered equipment booked as on date of tendering with type and rating and construction details of equipment for which order received be indicated.
 - b) Copy of purchase orders of Erstwhile RSEB or JVVNL/AVVNL/JdVVNL for similar or higher rating equipment latest executed.
 - ii) Year wise past experience for last 5 years of similar or higher rating of tendered equipment.
 - iii) The details of testing facilities available at the works and copies of latest type test certificates, carried out on similar item/equipment.
 - iv) Quality assurance plan.
 - v) Complete guaranteed technical particulars, out lines and general arrangement drawings alongwith Bill of Material.
8. Technical deviation including GTP and commercial deviations including delivery if any shall invariably be mentioned in Schedule-VI(A) "departure from specification" attached with this specification. Mentioning of such deviations elsewhere in the offer will not be considered as deviations. The printed terms and conditions of sales and others if any attached with the tender will not be considered.
9. Tenders without schedule I to IX shall be rejected.
10. Tenders shall be furnished in single copy.
11. Tenderers shall indicate in their bid the name and complete address of excise authorities under whose jurisdiction their works / office falls.
12. Any cutting/overwriting in the figures of the tendered documents should also be clarified/ indicated in the words duly signed.
13. JVVNL 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 technical bid (Part-I).
14. JVVNL 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).
15. Deviation of any kind shall not be quoted in price bid, if found quoted, the same shall be ignored.
16. The purchaser will respond in writing to any request for clarification on tender documents which it receives no later than 15 days prior to deadline for submission of tender, after which no correspondence shall be entertained.

17. The following facilities are to be provided by the supplier at his own cost to the inspecting officer of JVVNL.

- (a) Suitable accommodation.
- (b) Local conveyance between arrival point, place of stay, works and departure point.
- (c) 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.