

M.P.MADHYA KSHETRA

VIDYUT VITARAN CO.LTD.

(A Wholly Owned Govt. of M.P. Undertaking)

BHOPAL



TENDER SPECIFICATION

NO.CMD/MK/04/245

(DUE FOR OPENING ON 27.02.12)

FOR SUPPLY OF

**'ISI' MARK AAA & ACSR
PANTHER CONDUCTORS**

**CHIEF GENERAL MANAGER (PUR),
OFFICE OF THE CHAIRMAN AND MANAGING DIRECTOR,
M.P.MADHYA KSHETRA VIDYUT VITARAN Co. LTD.,
NISHTHA PARISAR, BIJLEE NAGAR, GOVINDPURA,
BHOPAL-462023**

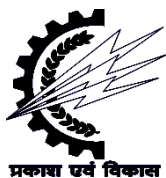
PHONE NO.(0755)- 2678280, 2678325

FAX NO. (0755)- 2589821

Website – www.madhyavitaran.nic.in

TENDER SPECIFICATION NO. CMD/MK/04/245**DUE FOR OPENING: ON 27.02.12****Name of Item:- 'ISI' MARK AAA & ACSR CONDUCTORS**

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**OFFICE OF THE CHAIRMAN & MANAGING DIRECTOR
M.P.MADHYA KSHETRA VIDYUT VITARAN CO. LTD.**

(A Wholly Owned Govt. of M.P.Undertaking)

NISHTHA PARISAR, BIJLINAGAR, GOVINDPURA, BHOPAL-462023

Phone:, 2678325, 2678280, Fax No.2589821 E.mail ce_purchase@mpmkvvc.com

TENDER – NOTICE

Online tenders are invited for supply of following items from **manufacturers only** as per Tender Specifications. The Bid Seals (Hashes) will be received online on the portal <http://mpmkvvc.mpeprocurement.gov.in> up to date & time indicated below. The Tenders will be opened in the office of the undersigned as mentioned in tender time schedule (key date). If desired, the bidder or their duly authorised representative may remain present at the time of opening of tender.

TENDER SPECN. NUMBER	NAME OF ITEMS	APPROX VALUE (Rs. in Lakhs)	TENDER FEE (in Rs.)	DATE OF OPENING OF TECH.BID OF TENDER
CMD/MK/ 04/245	AAA Dog Conductor 100 sq.mm. 4000.000 Kms. AAA Rabbit Conductor 05 sq.mm. 1700.000 Kms. AAA Weasel Conductor 03 sq.mm. 650.000 Kms ACSR Panther Conductor 90.000 Kms.	2520.00	2000.00	On 27.02.12 (at 11:30 hrs.)
TOTAL		2520.00 Lakhs		

- The complete tender would be available on website stated above from **06.02.12** onwards.
- Tender documents can be purchased **only online** from <http://mmkvvc.mpeprocurement.gov.in> by making online payment for the Tender Document Fees.

3. The Bid Data should be filled in and the Bid Seals (Hashes) of all the envelopes and the documents which are to be uploaded by the Bidders should be submitted online upto as per time schedule (Key Dates).
4. The Bidders shall have to submit their Bids **online** (decrypt the bids and re-encrypt the bids) and **upload the relevant documents forms** as per time schedule (Key dates). Original Earnest Money Deposit Instrument of amount Rs. 50,000/- should reach the office of the undersigned by 27.02.12 upto 11 a.m. in the Hard copy envelope.
5. Since the online bidders are required to sign their bids online using Class III – **Digital Certificates** only, hence they are advised to obtain the same at the earliest. For further information, Contractors are requested to contact **NexTenders (India) Pvt. Ltd.**, A-6 Sahyog Parisar, E-8 Shahpura, Opp. Maakhan Lal University, Bhopal – 462 039, Tel No. 0755-4075010, Email Address : bhopal@nextenders.com
6. *(Note : It may take upto 4 working days for issue of Digital Certificates)*
7. **Bidders intending to participate in the Tender are required to get themselves trained on the e-Procurement System.** *The Bidders are required to contact the Service Provider - Wipro – NexTenders to confirm their session in advance.*
8. Tender documents can be purchased *only online* by 2.00 p.m. of 06.02.12 and downloaded only online from <http://mpmkvvc.mpeprocurement.gov.in> **upto 20.02.12** till 17.30 p.m. by making online payment for the Tender Document Fees.
9. The EMD of Rs. 50,000/- in favour of Sr. A.O. (HOAU), MPMKVV Co.Ltd. payable at Bhopal, along with HARD COPY of tender & supporting documents duly filled up *excluding the , Price & Quantity schedule and Commercial Deviation*, shall be *dropped* in the tender box of Purchase Section, O/o CMD, Bhopal on or before date 27.02.12 till 11.00 a.m.
10. **Bids not accompanied with an acceptable bid security as specified in bidding documents, in a separate cover or bids accompanied with bid security of inadequate value shall be rejected by the procurer and in such cases bids shall be returned to the bidders unopened.**
11. The corrigendum or addendum to the bidding documents if any will be published on the Company's website www.madhyavitaran.in. *Hence participant bidders are **advised to regularly visit the website** for any amendment to the bidding documents* until the last date of bid submission. This office shall not in any way be responsible for any ignorance of the bidders about the corrigendum or addendum.
12. Other details can be seen in the tender documents

13. **Key Dates : Single Submission MultiOpening with Prequal**

S.N.	MPMKVVC Stage	Contractor Stage	Start Date & Time	Expiry Date & Time
1	Tender Preparation And Release of NIT	06.02.12	03.02.12 10:30	04.02.12 17 :00
2		Tender purchase Online	04.02.12 17:01	20.02.12 11:00
3		Tender Download	04.02.12 17:01	20.02.12 17:30
4		Submit Bid – Hash Online	04.02.12 17:01	22.02.12 17:30
5	Close for Bidding Generation of Super Hash		22.02.12 17:31	23.02.12 17:30
6	Submit bids online _ Re-encryption		23.02.12 17:31	27.02.12 11:00
7	Open EMD & Technical / PQ bid	-	27.02.12 11:30	27.02.12 17:00 Physical i.e. Hard copy sub. By 1100 hrs of 27.02.12
8	Open Financial/ Price – Bid	-	13.03.12 11:00	13.03.12 16:00

Note :- In case if any above date(s) is declared a holiday/local holiday then the date will get shifted to the next working day.

- a) The Company reserves the right to reject any or all the tenders or accept any tender in full or part as considered advantageous to the Company, whether it is lowest or not, without assigning any reason whatsoever it may be.
- b) The tender notice and complete tender and further information – ‘if any’, shall also be available on our website **www.madhyavitaran.nic.in**. For purpose of the single **Hard Copy** submission and going into the details of Tender only, the tender may be downloaded from this website.

(SANJEEV P. PURANIK)
CHIEF GENERAL MANAGER (PUR)

OFFICE OF THE CHIEF GENERAL MANAGER (PUR)

M.P.MADHYA KSHETRA VIDYUT VITARAN Co. Ltd.,

NISHTHA PARISAR, BIJLINAGAR, GOVINDPURA, BHOPAL (MP)

Online Issue after Online Payment of Tender fee only.

Tender issued to M/s

TENDER FORM

The undersigned hereby tender and offers (subject to the Company's conditions of tendering) the MP Madhya Kshetra Vidyut Vitaran Co. Ltd., Bhopal to supply the plant, machinery and materials and execute and do the several works and things which are described or referred to in the Details of Technical Particulars, attached to tender document no. CMD/MK/04/P-IV/245 and its enclosure and in Schedules to the side Details of Technical Particular copies of which are annexed here to, and which under the terms thereof are to be supplied, executed and done by the contractor and to perform and observe the provisions and agreements or the part of the contract contained in or reasonable to be referred from the said tender documents for the sums and at the rates sets out in Schedule-I annexed here to.

The questionnaire enclosed with this tender document has been fully answered and is enclosed herewith (if the questionnaire is not answered in full, the answer to various question may be taken so as to be advantageous to the Company unless contrary is mentioned in the body of the tender). Date the Day

TENDERER'S SIGNATURE

(with seal)

IMPORTANT INSTRUCTIONS TO BIDDERS AND BID CONDITIONS

1. The bidders are requested to kindly go through the instructions and various terms and conditions contained in Annexure-I & II of the Tender document except as modified/ laid-down hereunder. It may be noted that any condition or stipulation contrary or which are inconsistent will not be accepted. Bidders are requested to ensure that all such schedules / Annexures along with questionnaire (duly filled-in), are submitted along with their offer. The bidders should also note that in absence of any of the schedules, their offer is likely to be rejected.

2. The tender is in three parts as explained below:-

(a) **PART-I:** This part is fulfilling the requirement of deposit towards **Earnest Money**. The tenderer in this envelope should put either the original money receipt in support of having deposited cash with Sr. A.O.(H.O.A.U), MPMKVVCL, Bhopal towards Earnest Money OR the Bank Draft for the purpose OR the photocopy of the Permanent Registration of the firm with District Industries center as SSI Unit of M.P. **and valid competency certificate (both the certificates)** for the items quoted duly attested by the General Manager of DIC of the area, or Photo copy of valid registration certificate for the item quoted, issued by NSIC for small or medium scale unit, as the case may be, should be submitted in Part-I. The certificate should be valid on the date of opening of tender and duly attested by the General Manager of NSIC of area.

Please note that without requisite EMD / valid EMD exemption certificate as mentioned above, the offer(s) (Part-II and Part-III of the TS) may not be considered for opening.

(b) **PART-II:** - Envelope for this part shall contain Technical and Commercial aspects of the Bid and documents supporting the same excepting the Commercial deviation schedule (which is to be submitted online).

NOTE : THE PRICE BID (S) AND COMM. DEVIATION SCHEDULES ARE TO BE **SUBMITTED ONLINE** AND NOT IN HARD COPY; KINDLY NOTE.

3. **Method of submission of bids and their opening:**

(a) **The bidder has to submit the tender online to the MP Govt. designated e procurement agency M/s Nextenders.**

(b) There have to be two envelopes for each Bid as explained above at point No. 2. All the two envelopes shall then be put in **one main envelope**. The main envelope shall be super scribed as under:-

- (i) "T.S. **CMD/MK/04/245** DUE FOR OPENING ON 27.02.12
- (ii) "THIS ENVELOPE CONTAINS TWO ENVELOPES TOWARDS PART-I AND II OF THE BID"
- (iii) "IT IS CERTIFIED THAT WE CATEGORICALLY AGREE TO THE FOLLOWING CLAUSES OF THIS TENDER SPECIFICATION":-
- | | | |
|---------------------------|---|--------|
| (a) PAYMENT TERMS | : | AGREED |
| (b) SECURITY DEPOSIT | : | AGREED |
| (c) PENALTY | : | AGREED |
| (d) PERFORMANCE GUARANTEE | : | AGREED |

In absence of above certification on the main envelope itself, the same shall not be opened and the offer might be rejected.

Important Note :

THE PART II CONTAINING GENERAL TECHNICAL & COMMERCIAL SCHEDULES (EXCEPT COMML. DEVIATION SCHEDULE) OF THE TENDER AND SUPPORTING DOCUMENTS THEREOF SHOULD **INVARIABLY BE HARD BOUND, BINDED COPY** SUCH THAT PAPERS THEREIN ARE FIRMLY SECURED & NON REPLACABLE (Please note that spiral bounded copy would **not** be accepted).

- (c) Even after certification on the body of the main envelope, if any ambiguity is found upon opening of the main envelope or even after opening of the Price Bids subsequently, the offers shall be rejected.
- (d) In addition to the superscription as detailed above on the main envelope, each of the two envelopes towards Part-I, & Part-II are to be superscribed as under:-
'Part-I, & Part-II (as the case may be) of Tender Specification no. CMD/MK/04/245 due for opening on 27.02.2012'.
- (e) Upon successful verification of the fulfillment of the requirement of earnest money deposit on opening of envelope of Part-I, second envelope towards Part-II will be

opened on the same day, provided superscription as explained in point no.3(a) is clearly made. **The price bid shall be opened only online at a later date for the tenderers who have fulfilled the eligibility criteria of the tender. This date shall be intimated to such all tenderers separately.**

4. The questionnaire appended in Annexure-V should be very clearly answered.

5. **'ISI' MARK CONDUCTORS:-**

The bidders/tenderers, who possess the ISI marking rights for AAA & ACSR PANTHER conductors should only quote against the instant tender specification. The offers quoted for non-ISI marked conductors shall not be entertained and shall be summarily rejected. The valid ISI Marking certification number for AAA & ACSR conductors may be mentioned on the main envelope itself.

As regards the ISI marking right, the question no.11 of Part-"C" – Technical Information of Questionnaire (Annexure-V) must be read carefully and furnish the information accordingly.

6. The quoted prices should be **VARIABLE** and indicated strictly in the format appended with this tender specification in Price Schedule-D. The prices quoted in any other manner/format shall not be considered.

7. Central Discom may not entertain any deviation from commercial terms and conditions as specified in the tender specification and the offers showing deviations are likely to be rejected.

8. To enable quick and easy examination and evaluation of the bids, it is advised to take care of following instructions while submitting bids:-

(a) Please flag the following sections (containing related documents/form)

- i. G.T.P.
- ii. General questionnaire
- iii. Technical questionnaire
- iv. Commercial questionnaire
- v. Technical Deviation
- vi. Commercial Deviation
- vii. Past Experience
- viii. Sales Tax Certificate
- ix. ISI License
- x. Type Tests
- xi. PAN number detailing copy

(b) Please give pages no. (even hand written will do) to each page of bid submitted and make and place an index for the important sections as per (a) above at the beginning of the bid.

(c) Photo copy of the orders/performance reports received from other Electricity Boards/Govt. Undertakings etc. should be enclosed, in case no orders have been

received from Discoms/MPSEB in the past. However, the details of the past experience either of Discoms/MPSEB or any other Power Utilities have to be given in Schedule-A.

- (d) As far as possible, only below mentioned documents should be put in Part-II of the Bid and in the following sequence:-
- (i) Tender form in original
 - (ii) Questionnaire duly answered (Annexure-V)
 - (iii) Schedule-A (towards performance and past experience)
 - (iv) Schedule-B (towards commercial deviations)
 - (v) Schedule-C (towards technical deviations)
 - (vi) Schedule-D (towards Guaranteed technical particulars)
 - (vii) Certificates towards capacity, Sales Tax Clearance, ISI License and type tests.
 - (viii) Undertaking
 - (ix) Declaration - I
 - (x) Declaration – II (in respect of conflicting interest clause)
 - (x) Printed literatures towards technical specification etc.

9. **CONFLICTING INTEREST:-**

Bidder shall not have a conflict of interest with one or more parties. Participation by bidder(s) with a conflict of interest situation will result in the disqualification of all bids in which it is involved. Central Discom considers a conflict of interest to be a situation in which a party has interest that would improperly influence that party's performance of official duties or responsibilities, contractual obligations or compliance with applicable laws and regulations, and that such conflict of interest may contribute to or constitute a prohibited corrupt practice. A bidder may be consider to be in a conflict of interest with one or more parties if including but not limited to:-

- i) have controlling share holders as his/her family members viz spouse, son, daughter, father, mother or brother etc. in common or
- ii) have a relationship with each other, directly or through common third parties that puts them in a position to have access to information about or influence on the bid of another bidder.

The bidders shall be requested to furnish following documents in this regard:-

- i) Copy to latest Income Tax return/Permanent Account Numbers (PAN) of all the partners/Directors (in case of company) along with names, addresses and telephone Nos./ Mobile Nos. of each Partner/Director.
- ii) Latest partnership/ownership deed of the firm quoting the tender.
- iii) Copy of list of directors (in case of a company) with names, addresses and telephone Nos./Mobile Nos. of each director.

- iv) Power of Attorney to sign the tender documents and all correspondence before and after placement of order.
- v) Copy of Sales Tax clearance certificate

10 Minimum Quantity to be Quoted:- Please ensure that at-least **20%** of the tendered quantity in each size of the conductor for which the bidder quotes should be offered by him, failing which offer is liable for rejection.

11. FINANCIAL CRITERIA:-

The purchaser will take account of the following financial criteria to verify the qualifications of the lowest evaluated bidder. These criteria shall be evaluated on a **Pass – Fail** basis only:-

- (a) **Financial Situation:-** The audited financial statements of accounts for the last three (3) years submitted by bidder shall be evaluated. The bidder's balance statement for the last year of audited accounts should show that it has positive net worth. The bidders' income statement should show average annual sales in supply of material and equipments for the last three years that are more than **10%** of the tender value (**Rs. 2520 Lakh**).
- (b) **Availability of Financial Resources:-** The documents submitted by the bidder, including the audited financial accounts, must demonstrate that the bidder has adequate working capital available to undertake this contract, which will be equal to at least **15%** of the tender value (**Rs. 2520 Lakh**). If the bidder's working capital is inadequate, the bidder should supplement this with a Banker's letter confirming the availability of a line of credit such that the bidder's available working capital plus line of credit are in total at least **15%** of the tender value (**Rs. 2520 Lakh**).

12. DELIVERY SCHEDULE:-

(i) **15%** of the quantity ordered shall be supplied **within two months** from the date of receipt of order which will be presumed as seven days from the order issue date (for postal transit) and to be completed within **six equal monthly installments** thereafter. *However earlier deliveries would be preferred and would be welcome.*

(ii) Any delay in delivery beyond this period shall attract penalty even though offer for pre-delivery inspection is made timely within the terminal date of delivery.

(iii) The material should be delivered to the consignees within 15 days from the date of issue of despatch instructions/clearances. Any delay in delivery beyond this period shall attract penalty even though offer for pre-delivery inspection is made timely within the terminal date of delivery.

(iv) Deferment of deliveries:- **Company reserves the right to defer or reschedule the delivery.** *Deferment of delivery may extend to several months.*

13. ACCEPTANCE OF MATERIAL:-

- (i) Sample from the supplied AAA & ACSR Panther Conductor Drums shall be selected randomly from the each lot received in various Area Stores against a particular dispatch Instruction letter and shall be subjected to satisfactory routine/acceptance test on all the randomly sample selected as per IS:398(Part iv) 1994 (with latest amendments) at ERDA Vadodara/CPRI, Bangalore or any NABL accredited Laboratory.
- (ii) (a) It is only after the results of all the tests conducted on all the randomly selected Samples of AAA & ACSR Panther Conductors are found satisfactory, the payment clearances shall be issued on receipt of satisfactory test results In this regard, the testing charges shall be borne by the MPMKVVCL.
- (b) If any of the randomly selected Sample of AAA & ACSR Panther Conductors fails in any of tests then the entire lot against the particular D.I. shall be rejected and the testing charges for the failed AAA & ACSR Panther Conductors shall be recovered from the firm.
- (iii) In case of any dispute relating to test results against the rejected lot and on contesting by the supplier, the retesting of another randomly selected samples from the rejected lot at ERDA Vadodara/CPRI Bangalore or any NABL accredited Laboratory, in presence of firm's representative may be considered at the discretion of MPMKVVCL. The retesting charges including other expenses viz. transportation, loading/unloading etc. shall be borne by the supplier. In case of failure of the sample in second testing, the entire lot shall be finally rejected and shall have to be lifted & replaced by the supplier.

No further representations/requests shall be entertained and the decision/discretion of MPMKVVCL in this regard shall be final and binding on the supplier.

- (iv) In case of the lot(s) is / are finally rejected and lifted by the firm for replacement, the material shall be reoffered for inspection against replacement of the rejected lot and same shall be accepted treating as a fresh lot. Accordingly, the conditional MRC(s) issued earlier against which supplied lot is rejected shall be treated as withdrawn and cancelled. Please note that on account of rejection and replacement of material, the date of receipt of material shall be considered afresh and any delay in replacement of material and levy of penalty thereof shall be on supplier's account.

14. TYPE TEST CERTIFICATE:-

The clause no.18 of Annexure-II may please be read as hereunder:-

Type Test Certificate with respect to the tests indicated in Annexure-III for the quoted items *shall compulsorily be enclosed by the tenderer along with their offer* in support of evidence of compliance of the Specifications. The type test certificate should be only from **NABL accredited Labs. The type test certificate from other than NABL accredited Labs. shall not be accepted. The type test report/certificates for the tests conducted as per latest applicable ISS on the tendered items/material should not be older than five years from the date of opening of tender.** However if earlier dated type test reports are submitted with the bid, then if successful, the bidder would be allowed to make available the latest legitimate,

type test report within the delivery commencement period. However type test report for each Conductor for which bid is done should necessarily accompany the bid.

15. RANDOM TESTING:-

The Central Discom has option to get the conductors tested at NABL accredited Labs for the tests specified in relevant ISS/TS. The other provisions of clause no.32 (Random Testing) of Annexure-II shall also be applicable.

16. POOL RATES:-

The bidders, specially the SSI Units of the State are advised to quote their own individual rates. It may please be noted that if more than one bidder quotes the same rate, suggestive of a cartel, then such offers may not be considered by the Central Discom. It may also please be noted that the competitive rate quoted by each bidder may be one of the main criteria for quantity to be ordered on each successful bidders.

17. FACTORY INSPECTION OF NEW FIRMS:-

In case of new firms/participants quoted for the first time, their factory inspection shall be carried out by the Central Discom's representative(s) with a view to ascertain whether they are a qualified manufacturer and are having adequate facilities technical know-how and practical experience for manufacturing of the quoted item.

18. PARTICIPANTS:- This bidding is open to **only Manufacturers who possess ISI** marking rights for AAA & ACSR Panther Conductors .

19. PRICE CONSIDERATION ZONE:-

Subject to fulfilling the financial, experience and techno-commercial criteria, the MPMKVCL reserves the right to distribute the quantities amongst the bidders other than lowest also. While in the normal course counter offer shall be limited to the bidders whose computed FOR rate including taxes, duties and freight, other levies is within the price band of 1.10 times of the lowest acceptable offer on merit basis; the Company also reserves the right to examine and accept the offers beyond above price band on counter offer price basis in case of urgency.

20. QUANTITY ALLOCATION TO ELIGIBLE BIDDERS:-

Generally the quantity allocation to the eligible bidders is done on the following pattern:-

- (i) **In cases where lowest acceptable F.O.R. destination rate is from a regular firm:-**
60% of the proposed quantity to L-1 bidder (limiting the same to offered quantity) and balance 40% quantity amongst L-2 and L-3 bidders falling within price consideration zone of 10% above L-1 and at the price of L-1. The order shall be placed to L-3 when the offered quantity by L-2 is less than the balance 40% and at the price of L-1. However the bidders shall have to offer a minimum of **30%** of the proposed quantity, below which their bid shall not be evaluated.
- (ii) **In cases where lowest acceptable F.O.R. destination rate is from a New firm (not supplied material to Discoms of MP and whose supply performance is not known)**

and difference between L-1 and other eligible bidders is within price consideration zone of 10% :-

- (a) Capacity of the L-1 bidder or 50% of proposed quantity, whichever is lower, to L-1 bidder (subject to satisfactory factory inspection prior to placement of detailed order and limiting the same to offered quantity) and balance quantity amongst L-2 and L-3 bidders only falling within the price consideration zone of 10% above L-1 and at the price of L-1. Order shall be placed to L-3 when the offered quantity by L-2 is less than the balance 50%, at the price of L-1. However the bidders shall have to offer a minimum of 30% of the proposed quantity, below which their bids shall not be evaluated.
- (b) However, the above pattern of quantity allocation amongst the eligible bidders is provisional. The allocation beyond the L-3 bidders may be made in situations demanding such action in order to arrange the required quantity of material and taking into consideration the quantity offered, production capacity, experience and past performance of the bidder. The decision/ discretion of MPMKVVCL, Bhopal in this regard shall be final and binding on the bidders.
- (iii) **In any of the cases of 20(i) & 20(ii)(a) above where L-2 & L-3 do not accept the counter offer-** The bidder who has quoted/offered the **Lowest Acceptable Rate** will be required to accept the enhanced quantity allocations, if it is within the offered quantity by him. In the event of non acceptance, the bid security (EMD) shall be forfeited, along with punitive action against the firm including debarring the firm with Discom CZ for a certain period as may be decided by MPMKVVCL, Bhopal. An intimation to the GM(DIC) in case of State SSI Units and to the GM(NSIC) in case of outside State Units shall be given for taking action against the firm.

21. UNSATISFACTORY PERFORMANCE:-

Even on fulfillment of all the criteria it may please be noted that:-

- (i) Offers of those bidders who have been debarred / black listed for future business with Central Discom/ MPSEB/ other Discoms, *for Conductor supply* may be summarily rejected.
- (ii) In case of those bidders whose past performance has not been found to be satisfactory against previous tenders of MPSEB/Companies formed on restructuring of MPSEB, they may not be considered for order. Following shall attribute to poor performance of a bidder:-
- Non-execution of previous order(s)/inordinate delay in supply of material.
 - Failures of material in testing & non-replacement of the same by the supplier.
 - Failures of material enmasse as reported by the field officers.
 - Non replacement of WGP failed Conductor timely.

22. (i) It is obligatory on the part of the bidders that FOR destination (anywhere in stores of Central Discom i.e. Bhopal, Gwalior & Guna) prices are quoted clearly giving break up of prices in the following elements in the Price Schedule-D enclosed with the documents.

- (a) Unit Ex-works rates including packing charges.
- (b) Excise duty applicable as on the date of bid.
- (c) Sales Tax: (i) C.S.T
(ii) VAT & surcharge, if any applicable on above.

- (d) Forwarding & freight charges.
(e) Any other levies/taxes.

M.P. Madhya Kshetra Vidyut Vitaran Company Ltd., Bhopal is a registered dealer for availing the benefit of concessional rate of Sales/Commercial Tax. For this purpose necessary declaration form shall be furnished after receipt of material at destination, this should be kept in mind by the tenderer while quoting the competitive prices. The TIN Number of MPMKVVCL is **23263609361**.

- (ii) Any charges as may be applicable as per laws in force must be clearly specified otherwise any such salient charges, even statutory charges, shall not be payable in the event of an order.
- (iii) Excise duty will be paid only on ex-works price (inclusive of packing charges) and sales tax as applicable shall be paid on ex-works price (inclusive of packing charges) PLUS excise duty only.
- (iv) *Forwarding and freight charges will not be includible for claiming either excise duty or sales tax.*

23. Blacklisting of firm :-

Bidders may please note that in the event of violation of any of the terms and conditions of this tender or the terms and conditions of the subsequent supply order / work contract so issued, either partly or completely, (then) in such event the MPMKVVCL Co. reserves every right to take penal actions which may *inter alia* include **termination of the contract and / or blacklisting and debarring the tenderer** from participating in future tender/tenders for stated number/numbers of year along with the other penalties as stated in the tender document. Before debarring / blacklisting or contract termination, the concerned firm would be first served a notice to the effect, so that it gets an opportunity to represent it's point of view.

(SANJEEV P. PURANIK)
CHIEF GENERAL MANAGER (PUR)

ANNEXURE-I

GENERAL INSTRUCTIONS TO BIDDERS/TENDERER

1. GENERAL

Chief General Manager (Pur) on behalf of "The Madhya Pradesh Madhya Kshetra Vidyut Vitaran Co. Ltd." herein-after referred to as "Central Discom", will receive sealed tenders/bids for supply of materials/equipments in accordance with the attached specifications for supply to Area Stores at Bhopal, Gwalior & Guna only in Madhya Pradesh.

2. BASIC QUALIFICATION OF BIDDERS

This bidding is open for Manufacturers who possess the **ISI Marking Rights for AAA & ACSR PANTHER Conductors** and provide satisfactory evidence:-

- (a) That they are qualified Manufacturer who regularly manufactures **ISI Marked AAA & ACSR Panther Conductors** of the type specified and have adequate technical knowledge and practical experience.
- (b) That they do not anticipate change in the ownership during the proposed period of contract (if such a change is anticipated, the scope and effect thereof shall be defined).
- (c) That, they have adequate financial stability and status to meet the financial obligations pursuant to the scope of the assignments. The bidders should submit atleast two copies of their profit and loss account and balance sheet for the last two years including turn over.
- (d) That, they have adequate plant and manufacturing capacity available to perform the assignment properly and expeditiously within the time period specified. The evidence shall consist of written details of the installed manufacturing capacities and present commitments (excluding the assignment under this specification). If the present commits are such that the installed capacity results in inadequacy of the manufacturing capacities to meet the requirement of equipments/material corresponding to this bid, then the details of affirmative arrangements to be organized by the Bidder for this purpose shall also be furnished.
- (e) That they have established quality assurance systems and organization designed to achieve high level of quality equipment and reliability during their manufacturing activities. This could be seen during factory inspection of the bidder's works in event of order to his firm.

3. AMENDMENT IN SPECIFICATIONS

The Central Discom may revise or amend the specification and drawing, prior to the date notified for opening of Price Bid of tender. Such revision/ amendment, if any, will be communicated to all those who have bought the tender documents as Amendment/ Addendum to the invitation of tender.

4. REQUIREMENT TO READ THE TENDER SPECIFICATION BY BIDDER

The tenderers are requested to go through all the contents of Tender Specification before preparing their tender bids for submission.

5. BIDS RECEIVED BY MESSENGER

When tenders are delivered by special messenger, the same should be dropped in the Tender Box, kept in the office of Chief General Manager (Pur) M.P. Madhya Kshetra Vidyut Vitaran Co. Ltd., Nishtha Parisar, Bijali Nagar, Govindpura, Bhopal (MP) – 462023, on all working days during working hours indicated in tender notice. **Nobody is authorized to receive or grant receipt for tender delivered by hand.**

6. TELEX/TELEGRAPHIC/FAX BIDS

Offers through Telex/Telegraph/Fax will not be considered under any circumstances.

7. DELAYED/ LATE BIDS

(a) The tenderers shall have to ensure that tender is submitted in stipulated time. Central Discom shall not assume any responsibility for any postal delays either for the late receipt of documents by bidder or late receipt of bids by the Central Discom. No Extension in time shall be granted on such grounds.

(b) Also, tender documents received after due date and time of submission will not be accepted on any pretext whatsoever, even if the process of opening and reading of offers be under continuation.

8. ALTERNATIVE BIDS

Bid should be submitted as per intent of tender documents; any alternative offers are liable to be rejected. Central Discom reserves the right to reject all such alternatives which are not indicated in tender specifications and may not discuss merits/demerits of such bids.

9. MISTAKES IN BIDS

Rates should be quoted in both figures and words. In case of ambiguity between rates in figures and words, lower of the two/beneficial to the Discoms shall be considered. Such offers can also be rejected.

10. LUMPSUM BASED BIDS:-

Offers giving lump sum prices, instead of unit prices as required in the tender specification, without giving the details required in the attached price schedule shall be out rightly rejected. The prices are, therefore, necessarily be quoted strictly in the format of price schedule attached with this bid specification.

11. PRINTED TERMS AND CONDITIONS IN BIDS

Supplier's printed terms and conditions will not be considered as forming part of the tender under any circumstances whatsoever.

12. ALTERATIONS/CORRECTIONS IN BIDS

Any alteration/correction in the tender document should be counter-signed. Further, no post tender alteration/correction shall be entertained.

13. INCOMPLETE BIDS

Tender which is incomplete or obscure is liable for rejection.

14. ACCEPTANCE OF PART/WHOLE BIDS-RIGHTS THEREOF

Central Discom reserves the right to accept/ reject wholly or partly any tender without assigning any reason whatsoever. The Central Discom in this regard shall not entertain any correspondence.

15. AMBIGUITIES IN CONDITIONS OF BIDS

In case of ambiguous or self-contradictory terms/conditions mentioned in the bid, interpretation as may be advantageous to the Central Discom shall be taken without any reference to the tender.

16. DISQUALIFICATION OF BIDS

A Bid which gets opened before the due date as a result of improper or no indication having been given on the cover to indicate that it is a tender, will be disqualified. Bidders will not be permitted to change the substance of his tender on post interpretation/improper understanding grounds. This includes post tender price changes/ modifications etc. after opening of Price Bid. In such events, otherwise, that is, when a bidder does not comply, tender will be rejected.

17. EARNEST MONEY - ESSENTIAL

No tenders shall be accepted without submission of Earnest Money Deposit (EMD) in the proper form, valid for one year, unless otherwise exempted.

18. LANGUAGE OF BIDS

All tenders should be made either in English or in Hindi only.

19. INCOME TAX/SALES TAX CLEARANCE CERTIFICATE

The tender shall furnish Income Tax Clearance Certificate from competent authority. Alternatively, the tenderer shall give reasons of his inability to furnish such a certificate. The Central Discom reserves the right to reject any tender if Income Tax & Sales Tax certificate or the reasons for the tenderer's inability to furnish such certificates are not furnished.

20. QUESTIONNAIRE FILLING IS ESSENTIAL

All the Questionnaire / Schedules along with specification are enclosed for technical/commercial terms & conditions. It is compulsory on the part of the bidder to furnish all details as sought in these. In case, these are not filled in and enclosed with the offer, the Bid will be rejected.

21. PERFORMANCE/PAST EXPERIENCE RECORDS OF BIDDER

In case of new supplier, not yet executed orders from MPSEB / Discom's of MP, they should have minimum 3 years experience of manufacturing of AAA & ACSR Panther Conductors and supplying of at least 25% of the tendered quantity to SEB's / Discom's or Projects of SEB's / Discom's of different states. Supplier having past experience in manufacture and supply of materials should furnish the list of supplies made during the last three years for the materials supplied by them, as per enclosed Schedule V. This should be kept in the envelope Part-II Commercial/Technical Bid, failing which Bid will be rejected.

22. SUBMISSION OF BIDS

- (i) (i) **The tender hard copy shall be submitted in two (2) parts:-**
Part-I shall contain **"EARNEST MONEY DEPOSIT/DOCUMENT WHICH ENTITLE FOR EXEMPTION FROM EMD"**.
Part-II shall contain **"COMMERCIAL BID AND THE TECHNICAL BID"**.
The Price bid (s) is to be submitted **ONLINE**.
- (ii) Tender submitted on behalf of companies registered with the Indian Companies Act, for the time being in force, shall be digitally signed by a person duly authorized to submit the Tender on behalf of the Company and shall be accompanied by certified true copies of the resolutions, extracts of Articles of Association, special or general Power of Attorney etc. to show clearly the title, authority and designation of persons signing the Tender on behalf of the Company.
- (iii) **The two parts of the hard copy of the bid, shall be submitted in two separate sealed envelopes and these envelopes shall be properly superscribed as Part-I "Earnest Money Deposit", Part-II "Commercial Bid and Technical Bid"**. Each envelope shall also be superscribed with *name of item and T.S. No.* for which the tender is submitted, the name of the said tenderer and the date of opening, as advertised.
The hard copy of the Bid shall be submitted in one copy only. **BUT SHOULD BE HARD BOUND** and contained in Envelope (Part II). The Envelope should be thick enough to bear the document load and should not tear in normal handling.

23. Date and time of opening of bids - changes

Tender shall be opened online on the due date and time as notified in the presence of the tenderers or their authorized representatives. If the due date of opening/ submission of tender documents are declared a holiday by the Central/ State Government or Local Administration, it will automatically get shifted to the next working day, for which no prior intimation shall be given. The tender opening shall be continued on subsequent days, in case the opening of all the tenders is not completed on the day of opening.

It may please be noted that the due date/ time of opening can be altered, extended, if felt necessary by the purchaser, without assigning any reason thereof. However, due intimation shall be communicated in such a case.

24. Opening of E.M.D. & Commercial and Technical bid

The first envelope of Earnest Money Deposit shall be opened on the due date and time, as notified in the Notice Inviting Tenders. **The concerned Company Official receiving the tenders or his duly authorised Officer shall first open the Earnest Money Deposit envelope of all the Bidders and verify the Earnest Money Deposit or EMD exemption document submitted (in the Part – I envelope). He shall check for the validity of Earnest Money Deposit as required. In case, the requirements are incomplete, the bid will be declared invalid.**

The requirement for EMD shall be verified and thereafter, the second part, i.e. the Commercial & Technical Bid submitted online by the Bidders shall be **opened online** on the same date in respect of eligible tenderers.

25. Opening of Price Bid (S)

Opening of Price bid (s) on subsequent date:-

- (a) After opening of first two parts (i.e. Part-I and Part-II), the deviations from the Company's terms & conditions, if any, proposed by the tenderer in regard to Commercial and technical Bid, as per prescribed schedules, given along with the tender documents, shall be notified and clarifications, if required by Company, shall be submitted by the tenderers, either at the time of scrutiny of tender or within the time prescribed. **Any deviations from payment terms, penalty, security deposit and performance guarantee clauses of tender specification shall not be acceptable, in any case and the offer shall be liable for rejection outrightly.**
- (b) The bidder shall have no scope to change their Price bid (s). In case deviations and clarification on Commercial and Technical matters are not submitted by the tenderer within the time prescribed by the Company then the Company reserves the right to refuse to reject the bid and thus, the tenderer should ensure that their tender is strictly in conformity with the specifications.
- (c) *The Price bid (s) would be opened ONLINE only and the bidders whose bid has technically & Commercially qualified would only be eligible for Price bid (s) opening.*

The decision of the Company in this respect shall be final and acceptable to the tenderer.

26. CANVASSING OF BIDS

Tenders shall be deemed to be under consideration, after opening of tender/ bid, till placement of order. During this period, the bidders or their authorized representatives or other interested parties are advised strongly, in their own interest, to refrain from contacting by any means any of the Central Discom's personnel or Representative, on matters relating to tender under study. The Central Discom if considered necessary, may obtain clarification

about technical or commercial terms by requesting such information from any or all of the tenderers in writing or as deemed fit.

27. DESTINATIONS WHERE MATERIALS ARE REQUIRED

The materials as per technical specifications required for various Area Stores of Central Discom. The location of Area Stores is indicated in Annexure-IV. The prices quoted should be on FOR destination basis, anywhere in Central Discom Area Stores.

28. VALIDITY OF BIDS

The offers shall be **valid for 180 days**. Validity of the offer shall be counted from the date of opening of bids. Those who do not agree for a validity of 180 days will do so at their own risk and their offers are liable to be rejected

29. AUTHORISATION/LOCAL REPRESENTATIVE

Only authorized representative, possessing necessary authority letter from the bidder who have participated in the tender shall be allowed to attend the tender opening. In case the firm has appointed local representative for signing letters/committed documents on behalf of the firm, the firm will be required to furnish "Power of Attorney" along with the name, address phone number etc. properly through the firm's representative, before opening of the tender.

30. ACCEPTANCE OF TENDER

- i) The Central Discom may reject any or all tenders or to accept any tender considering advantageous to Central Discom whether it is the lowest offer or not.
- ii) The Central Discom may split the quantities against the tender on more than one bidder for the same item. The Central Discom shall assign no reasons for this and the same will be binding on the bidders.

31. QUANTITY

The quantity indicated the Price Schedule-D is tentative. Actual procurement of quantities may be different then these, to any extent and to which Central Discom reserves absolute right. Further, Central Discom reserves the right to split the procurement quantity on any number of tenders.

(SANJEEV P. PURANIK)
CHIEF GENERAL MANAGER (PUR)

ANNEXURE-II

GENERAL TERMS & CONDITION GOVERNING THIS TENDER SPECIFICATIONS

1. SUBMISSION OF TENDERS:-

Sealed tenders in duplicate (in the manner specified in general instructions to the bidder) for supply of ISI Marked AAA & ACSR Panther Conductors to various Area Stores of Central Discom, as per the technical schedule enclosed and in accordance with various terms and conditions of tendering from manufacturers must reach this office by the specified time and date. Tenders received late or delayed on any account will not be considered.

2. EARNEST MONEY

- (i) The bidder shall deposit the Earnest Money amount vis-à-vis the value of the materials offered as shown here under:

Value of Material		Earnest Money
(a)	Upto Rs. 50,000/-	Nil
(b)	Above Rs. 50,000/- & upto Rs. 2.5 Lakh	@ 1%
(c)	Above Rs. 2.5 Lac & upto Rs. 3.0 Lakh	Rs. 2,500.00
(d)	Above Rs. 3.0 Lakh & upto Rs. 7.0 Lakh	Rs. 5,000.00
(e)	Above Rs. 7.0 Lakh & upto Rs. 15.0 Lakh	Rs. 7,000.00
(f)	Above Rs. 15.0 Lakh & upto Rs.25.0 Lakh	Rs.10,000.00
(g)	Above Rs. 25.0 Lakh & upto Rs.35.0 Lakh	Rs.15,000.00
(h)	Above Rs. 35.0 Lakh & upto Rs. 50.0 Lakh	Rs.20,000.00
(i)	Above Rs. 50.0 Lakh & upto Rs.75.0 Lakh	Rs.30,000.00
(j)	Above Rs.75.0 Lakh & upto Rs.100.0 Lakh	Rs.40,000.00
(k)	Above Rs. 100.0 Lakhs	Rs.50,000.00

- (ii) The bidders are permitted to quote for part quantities and pay earnest money only to the extent of the participation on the basis of slabs specified above
- (iii) The Earnest Money can be deposited in one of the following forms only:

- a) **In cash:-** to be deposited with the office of **Sr. Accounts Officer (HOAU)**, MPMKVCL, Bhopal.
- b) By Bank Draft in favour of **Sr. Accounts Officer (H.O.A.U.)**, MPMKVCL, payable at Bhopal.

No offer will be accepted without valid Earnest Money Deposit, unless exempted by the Central Discom.

- (iv) The following are exempted from payment of Earnest Money Deposit :-
- a) S.S.I. Units of Madhya Pradesh Permanently registered with DIC/Ancillary Units of MPSEB. **The registration should be permanent and should be specifically for the items quoted in the tender and valid on the date of opening of tender.**
- b) **Small Scale Units registered with NSIC:-** The Small Scale Unit permanently registered with NSIC, whose registration certificate is valid for the item quoted on due date of opening of commercial and technical bid shall be entitled for exemption

from EMD. (The renewal/ amendment of certificate should not be more than 3 years old from the due date of opening of tender) otherwise EMD has to be furnished by the bidder.

- c) The Medium/Large Scale Manufacturing Units, located in Madhya Pradesh (other than SSI/ Ancillary Units to MPSEB and Govt. undertakings) are permitted to furnish the EMD @ 50% (Half) of the rates prescribed above. Here also permanent registration is a must in respect of specified item against this tender.
 - d) Fully owned State/Central Govt. manufacturing Units, if 100% shares are held by the respective Govt. for which documentary evidence must be furnished with the offer.
 - e) The photocopy of the NSIC/SSI Registration Certificate for the tendered items duly notarized/ attested by G.M./ Manager, DIC of the Area/ any officer of Central Discom not below the rank of DGM. shall be furnished with the offer. In case of unattested/un-notarized copy, the original certificate should be produced at the time of tender opening for verification.
- (v) *All the SSI/NSIC units should quote/offer the material only to the extent they are registered for respective items with the SSI/NSIC organization.*
- (vi) In case, the bidder withdraws his offer during the validity period, after placement of order, the EMD amount shall be forfeited.
- (vii) **RETURN OF EARNEST MONEY TO BIDDERS**
- a) EMD shall be returned to the un-successful bidders, as soon as possible, after the tender is decided. No interest shall be paid on EMD amounts.
 - b) EMD of bidders on whom the orders have been placed, shall be returned on acceptance of security deposit. No, interest shall be paid on EMD amount.

3. PRICES AND STATUTORY LEVIES

It is obligatory on the part of the bidders that FOR destination (anywhere in the Area Stores of Central Discom i.e. Gwalior, Guna and Bhopal) prices inclusive of taxes and duties, as quoted by them in the Price Schedule, should be VARIABLE. However, the following information should also be invariably furnished in the Price bid and the questionnaire:-

- (a) Rate of excise duty applicable on the date of bid and the maximum rate of ED as applicable for the quoted item should also be indicated separately.
- (b) Sales Tax: (i) C.S.T.
(ii) VAT& surcharge, if any applicable on above/
- (c) Freight charges as charged by the tenderer may also be indicated separately.
- (d) Any other taxes & duties which may be applicable.
- (e) M.P. Madhya Kshetra Vidyut Vitaran Company Ltd., Bhopal is a Registered Dealer for availing the benefit of concessional rate of Sales/Commercial Tax for this purpose necessary declaration form shall be furnished after receipt of material at destination, this should be kept in mind by the tenderer while quoting the competitive prices. The TIN Number of MPMKVCL is **23263609361.**

4. PRICE VARIATION:

The tenderers are advised to quote their **VARIABLE** prices as per Price Variation Formula, strictly on the base date as specified in the Annexure enclosed with this tender specification.

While claiming the price variation, the supplier shall furnish the Govt. Gazette Notifications/CACMAI published indices/Price Circulars/Invoices issued by the Prime Producers/ any other agency as per P.V. formula as the case may be. The claim towards price variation, if any, shall be submitted directly to the Dy. Director (Bills), MPMKVVCL, Bhopal under intimation to CGM (Pur) of the Corporate Office.

5. PACKING AND FORWARDING

- (a) The supplier shall be responsible for the Stores being sufficiently and properly packed at his expense for transport by rail, road or sea, so as to ensure them being free from loss/damage due to handling and transport to the destination.
- (b) Each package shall be prominently and distinctly marked on at least two faces, indicating the full address of the consignee, destination station, name of material, purchaser's order number, weight and volume of the package etc.
- (c) Each package shall contain in a water proof cover, detailed description indicating the order reference and date and list of the contents. Each item contained in the package or box shall be described sufficiently to enable easy identification. The quantity, weight etc. shall also be given.
- (d) The packing shall conform to the specification, rules and regulations prescribed by the underwriters, railways, Transport Agencies. In case of any loss/damage to the consignment due to non-standard packing, the same shall be made good free of all charges to Purchaser by the supplier. All provisions of this clause shall apply whether the disrupting cause is total or partial in its effects upon the ability of supplier to perform.

6. MODE OF DISPATCH

The bidder should clearly indicate mode of dispatch for the material. In case of dispatch through rail, the material is to be booked for respective destination railway station. In case of dispatch through road transport, the material should be dispatched through bank approved road transporter on door delivery basis only.

- 6.1 In case of the material is dispatched by Rail, the RR should invariably be prepaid. In case the freight is not prepaid, the freight charges paid by the Central Discom, shall be recovered from the supplier with additional 20% of the freight charges.
- 6.2 The RR (in case of dispatch through rail) must be drawn in the name of consignee only. In order to avoid demurrage charges, the consignee must be telegraphically informed of the particulars of the RR no. Type of Wagon, number of wagon, cranable consignment or otherwise etc. as soon as the material is dispatched. Further, a copy of rail receipt and formal invoice in triplicate along with the information regarding weight of package, wagon no., subject to identification mark etc. should also be sent to the consignee as soon as the material is dispatched. In case this is not done and consignee, due to non-receipt/late receipt of RR, unable to obtain delivery on indemnity Bond, all losses and levy of demurrage and wharfage charges shall be to the supplier's account and shall be deducted from his supply bills. This is to clarify that it is not obligatory on

the part of Railways to release the material against I-Bond. In case of refusal by Railways to accept the I-Bond, the liability of wharfage charges shall be to supplier's accounts.

- 6.3 The supplier should obtain a clear RR from the Railways without any ambiguity so as to facilitate proper clearance of goods at the destination.

7. **TRANSIT RISK**

- (a) Responsibility regarding covering of risks during transit of material shall entirely be on the supplier. The Central Discom shall, in any case, not bear the transit risks/ transit insurance charges.
- (b) Transit damages/ shortages/ losses shall be reported by the consignees within 30 days from the receipt of the consignments. Such damages/shortages/losses shall be repaired/ replaced by the suppliers, free of cost within one month from the date of intimation by the consignee without awaiting for his settlement from carrier or Insurance Central Discom etc. If the supplier fails to do so the consignee(s) shall be free to get the repair work done from other sources and they shall be free to recover the cost of such material/ expenses of repairs either from the supplier's balance bills or from the security deposit as deemed fit.
- (c) While the necessary assistance shall be rendered by the consignee in lodging and processing the claims with carriers and the supplier's insurance underwriters, the responsibility shall rest with the supplier to immediately make good the shortages/ losses/ damages, without any extra cost and without waiting for the settlement of the claim.
- (d) **Replacement of goods lost/ broken or damaged including loss due to fire:-**

Notwithstanding anything here-in contained, the supplier shall undertake responsibility for the safe arrival of the material in good condition and without any loss or damage at the final destination and until the same is actually delivered to/ received by the Central Discom at its stores or other places of final destination. For this purpose, material carried by Railway or Road transport or other carriers shall be deemed to be so carried at the risk of the suppliers. In the case of transport damages/shortages, the payment shall be made only for the quantity received in good and working condition and consignee shall lodge claim with the suppliers/ carrier with all necessary documents for settlements of the same with the carriers at supplier's end.

8. **DELIVERY**

- (i) Normally, delivery schedule according to which Central Discom intends to procure material against his specification permits allowing for one month commencement of supplies and completion of the ordered quantities by each bidder thereafter in six equal monthly installments, (as the case may be) depending upon the requirement. The bidders, therefore, should quote for only such quantities which they can supply according to this delivery schedule.
- (ii) However, if the situation so warrants, the Central Discom may at its discretion either reduce the commencement time thereby, requiring supplier to commence supplies

immediately and then ask them to supply the ordered quantities according to its own delivery schedule which may be different from what is specified above in Clause-8(i).

- (iii) While indicating delivery period of the quoted quantities, the suppliers should, therefore keep in mind their financial and production capacity in relation to the existing system/procedure of the Central Discom in regard to related aspects such as pre-dispatch material inspection, payment conditions etc.
- (iv) The supplies are, therefore, advised to indicate their delivery schedule very clearly in the questionnaire appended with this tender specification.
- (b) **Manufacturing Clearance:-** Manufacturing clearances as per the requirement of the conductors shall be released by the Chief General Manager (Purchase), O/o CMD (CZ) MPMKVVCL, Bhopal from time to time. The supplier have to adhere with the delivery schedule as appended in the order agreed upon by the supplier in their offer.

(c) **Deferment of deliveries**

Central Discom reserves the right to defer or reschedule the delivery of orders, if need arises. Subsequently, on the basis of requirement, fresh manufacturing clearances would be released and delivery shall be reckoned from the date of manufacturing clearance afresh.

9. **FORCE MAJEURE :-** The supplier shall not be liable for delay in performing his obligations resulting directly or fro many force majeure condition herein defined as:-

- (a) Any cause which is beyond the reasonable control of the supplier or purchaser as the case may be.
- (b) Natural phenomena, such as floods, draughts, earth-quakes and epidemics.
- (c) Act of any Government Authority, domestic or foreign, such as war, quarantines, embargoes, licensing control or production or distribution restrictions.
- (d) Accident and disruptions such as fires, explosions, increase in power cut with respect to date of tender opening, break-down of essential machinery or equipments etc.
- (e) Strikes, slow down, lockouts continuing for more than three (3) weeks.
- (f) Power shortage
- (g) Scarcity of raw material.
- (h) Failure or delay in the supplier's source of supply due to force majeure causes enumerated at (a) to (d) above, provided the supplier produces documentary evidence to show that there were no other alternative sources of supply available to him or if available, the lead time required was likely to be longer than the duration of the Force Majeure at the normal source of supply.
- (i) Any such delay, lasts for more than one (1) month, the parties shall immediately consult with one another for the purse of agreeing upon a reasonable basis on which he supplier shall resume production of the unfinished work.

All the provisions of this clause shall apply whether the disrupting cause is total or partial in its effect upon the ability of the supplier to perform.

NOTE:- The cause of force majeure condition will be taken into consideration only if the supplier within 15 days from the occurrence of such delay notifies. The Central Discom shall

verify the facts and grant such extension as the facts justify. For extension of delivery period on account of force majeure conditions, the supplier shall submit his representation with documentary evidence for scrutiny by the purchaser and decision of the Central Discom shall be binding on the firm.

10 TERMS OF PAYMENT

10.1 The supplier shall forward the original RR/MTR and Excise Gate Pass directly to consignee along with copies of following documents:-

- i) A copy of bill
- ii) Delivery Challan
- iii) Original copy of excise duty gate pass (wherever applicable) along with a photocopy
- iv) The inspection and/ or T.C. approval
- v) Detailed packing list, if required.

The original bills should be forwarded to the paying authority and should be marked "**ORIGINAL**". The bill should indicate Sales Tax Registration Number and date allotted to him under Sales Tax Act.

10.2 The following documents will have to be forwarded to the paying authority along with bills in triplicate :-

- i) Bill/Invoice
- ii) Xerox copy of despatch documents i.e. RR/ MTR etc.
- iii) Inspection and test certificate approval or Dispatch clearance/instructions.
- iv) Detailed packing list.

10.3 The Material Receipt Certificate will be forwarded by the consignee to the payment authority for payment, as well as to the suppliers towards acknowledgement of receipt of material including part consignment to the extent it is received in good condition and is serviceable.

10.4 The payment of 100% value of material along with full taxes & duties will be made within 45 days from the date of receipt of material at stores in good condition against M.R.C subject to completion of all contractual formalities. The Central Discom shall not be liable for payment of any interest on delayed payment.

For payment, against order placed by CGM (PUR) O/o CMD(CZ), MPMKVCL, Bhopal, the invoice in triplicate with relevant documents such as material receipt in good condition etc. should be submitted to the Director (Fin.) , O/o CMD (CZ), MPMKVCL, Bhopal.

10.6 The company will make above payment directly in the account of suppliers. The company is having its Account in SBI. To make payment directly through Bank the bidders are requested to furnish the information i.r.o. Bank Account as per format Annexure-VII on Rs. 100/- Non Judicial Paper.

11. PENALTY

The time for and the date of delivery of the material stipulated in the order shall be deemed to be the essence of the contract. In case of delay in execution or non-execution of

the order, the Central Discom at its option shall recover from the supplier/ contractor as agreed towards liquidated damages **a sum of ½ % of Ex-works price of any stores not delivered per week or part thereof** subject to a maximum of 10%.

For this purpose, the date of offer of material in the office of Order Placing Authority shall be considered as the date of delivery, subject to the condition that offer has been made 15 days in advance of terminal date of scheduled delivery and material is delivered at stores within 21 days of clearance. For early inspections, offer may be sent telegraphically or by fax. Central Discom will not be responsible for delays for ordinary/ registered post inspection offers. Please note, in case material is not received within 21 days from the date of issuance of despatch instructions, even though the delivery period exists, penalty shall be reckoned from the original delivery period and the period of 21 days allowed for dispatch shall not be permitted and shall be taken into account for calculation of penalty.

12. PERFORMANCE GUARANTEE

- 12.1 If during the course of 18 months subsequent to the date of receipt of consignment or 12 months from the date of commissioning whichever is earlier (wherever applicable) any of the goods found to be defective in materials or workmanship or develops defects during service, they will have to be replaced by the supplier, free of all charges. All necessary arrangements on these accounts will be made by the supplier.
- 12.2 The said material if required to be replaced, shall be collected by the supplier/ firm from Area Stores/ work site at their own cost and at their own responsibility. These materials will like-wise be returned duly repaired/ replaced and tested subsequently by the supplier to the destination indicated on "FREIGHT PAID BASIS" at their cost in a reasonable time of 30 days from the date of intimation. The guarantee period as stipulated in clause 13.1 above shall also be applicable for repaired/replaced material, which shall however be counted afresh from the date of its delivery in our stores/site.
- 12.3 Further, it is clarified that all the charges towards carrying out repairs including packing, forwarding, loading, unloading shall be borne by the supplier. The amount deposited under security deposit clause shall also cover the performance guarantee of the material.
- 12.4 All equipment/ line materials reported failed within the specified guarantee period may be replaced free of cost by the supplier/ Manufacturer/Printer/Printer concerned.
- 12.5 Actual cost of dismantling and replacement of these equipments/ materials with the new ones may be charged to the supplier's account.
- 12.6 To and fro transportation cost of such failed equipment may also be borne by the supplier/ contractor.
- 12.7 In the event of the supplier's inability to adhere to the aforesaid provisions, suitable penal action will be taken against them, which may interalia include blacklisting of the firm for future business with the Central Discom for a certain period.
- 12.8 The replaced units shall be guaranteed for a minimum of 12 months or un-expired guarantee period left as on the date of failure of the unit, whichever is later.
- 12.9 In case the replacement is not made within a period of **two** months from the date of issue of first intimation letter by the concerned Area Store, penalty shall be recovered as agreed towards liquidated damages **@ 0.5% of Ex-works price** of any item not delivered duly replaced per week or part thereof subject to maximum of **5% of Ex-Works price**. If the supplier fails to supply the replacement of material within four and a half months from the date of first intimation then the Area Stores will take action to

recover from the supplier the cost of conductor inclusive of all taxes, duties, freight and price variations etc. for the conductor not replaced.

13. SECURITY DEPOSIT

- 13.1 On acceptance of offer, the supplier will have to deposit an amount of 10% of the total value of the order in cash or Demand Draft or Bank Guarantee as Security Deposit.
- 13.2 Cash to be deposited with office of Sr. A.O. (H.O.A.U.)MPMKVVCL,Bhopal and original receipt produced to this office shall be returned after conveying the acceptance of Security Deposit.
- 13.3 Demand Draft to be drawn in favour of Sr. A.O. (H.O.A.U.) MPMKVVCL, Bhopal drawn on any nationalized/scheduled Bank and payable at Bhopal.
- 13.4 Bank Guarantee in lieu of cash deposit on any nationalized/ scheduled bank strictly as per Board/Company's/Board's proforma (to be supplied along with the order) valid sufficiently to cover the guarantee period.
- 13.5 All SSI Units registered with Industries Department of MP shall be required to pay Security Deposit for only **5% (five percent) value** of the order, subject to maximum of Rs.20,000/- in cash or DD. This concession is for such SSI Units of M.P. who are doing business up to Rs.50 Lakh annually only.
- 13.6 The Security Deposit shall have to be deposited within 30 days of issue of order.
- 13.7 The Central Discom shall forfeit the security deposit in the event of non-execution/ part execution of the orders/poor performance of supplier/contractor besides invoking the Penalty Clauses.
- 13.8 The Security deposit shall be returned to the successful bidder only after due and faithful performance of the order as per terms and conditions of the order and on expiry of guarantee period provided there are no claims outstanding to be recovered against the bidders/ suppliers.
- 13.9 No interest shall be paid by the Central Discom on security deposit furnished by the suppliers.

14. EXTENSION ORDER

- 14.1 The Central Discom reserves right to place an extension order for any additional quantity **to the extent of 50% quantity** of the original order on the same rates, terms and conditions within six months from the date of order.
- 14.2 For such extension orders, **Letter of Intent** or telegraphic orders, if placed within 6 months time shall be considered as per provisions of this clause though detailed confirmatory order may be placed after expiry of 6 months period.

15. BASIC INFORMATION TO BE FURNISHED BY BIDDER:-

The tender shall be submitted within the following information:-

- (a) Details of place of manufacture, manufacturing equipments and short history of plant.
- (b) Manufacturing process in respect of the offered/item(s) be given with reasonable details.

16. TESTING FACILITY & TESTS TO BE CONDUCTED

The bidder must give their production capacity, all about testing lab. and line testing facilities available with them in details for the tendered material. The bidder should also give the details of Tests proposed to be conducted in their labs in the event of order, with details of Indian Standard Specifications/codes.

17. MATERIAL TEST CERTIFICATE

- 17.1 The material to be supplied against order should be strictly ISI Marked as per specification detailed in Annexure-III (A) & (B).
- 17.2 The successful tenderer shall have to furnish material test certificate in respect of chemical composition and physical properties etc. from Government approved Laboratory, corresponding to each batch of supplies. In case of Govt. approved Laboratory, documentary evidence regarding its recognition shall be furnished otherwise T.C. shall not be accepted.
- 17.3 **Material & Components:-** The material and component not specifically stated in this specification but which are necessary for satisfactory operation of the equipment/item specified, shall be deemed to be included unless specifically excluded and shall be supplied without any extra cost.
- 17.4 Each item of the lot should be tested by the supplier and routine test certificate in duplicate giving the result of all tests prescribed in the relevant ISS (as mentioned in the Technical Specification Schedule) for ordered items shall be submitted to the office of the Order placing Authority for approval along with the letter/ offer for inspection of the material. Please note that each lot will be inspected at your works, which includes witnessing of all tests prescribed in ISS.
- 17.5 **ISI marking:-** Only ISI marked conductors would be procured against this tender specification and thus "the bidders/tenderers, **who possess the ISI Marking License rights for AAA & ACSR Panther Conductors, should only quote** against the instant tender specification. *The offers quoted for non-ISI marked conductors shall not be entertained and shall be summarily rejected.*

A Photostat copy of the certificate from BIS for authorizing the material as ISI Marked should be furnished. The ISI License should be valid on the date of opening of tender and should be kept constantly renewed throughout the period of supply of conductor against this tender specification. Those who do not have their ISI Licenses valid on the date of opening of tender (Part-I & II) should note very carefully that due weightage in order share shall only be granted to them, if they submit necessary documentary evidence to the effect that their license is under renewal with BIS. Documentary evidence thus has to be an acknowledgement from BIS to this effect. Copy of the ISI License duly attested indicating its last validity/last renewal has to be necessarily provided with the tender.

18. TYPE TEST CERTIFICATES

All tenderers whether new or old are advised to submit type test certificate of the material on tender from the Government/Standard Laboratory.

Wherever applicable or called for photocopies of type test certificates from the Govt. Standard Test Laboratories in India or from Laboratories of International repute duly attested by "Competent Testing Authority" should be submitted.

Type test reports/ certificates for the tests conducted as per latest applicable ISS on the tendered item/ material shall not be older than 5 years on the date of opening of technical/ commercial bid.

19. INSPECTION AND TEST CERTIFICATE

i) On receipt of the offer for pre-despatch inspections, the material shall be got inspected by Central Discom's inspecting officer or by a third party officer authorized by MPMKVVCL within a reasonable period (normally within 7 to 15 days). The supplier shall extend all necessary testing assistance and co-operation to the inspecting officer of the Central Discom to carry out testing of material at his works.

ii) The packing list containing the required details such as individual stranded lengths would in the drum and their total length, gross weight, rate weight and net weight etc. shall invariably be provided long with the offer made for inspection else the offer shall not be entertained and the inspection shall not be conducted. The delay in arranging inspection, due to non-submission of the requirement of packing list, shall be to the firm's account and they will be held responsible for the consequences thereof.

Any rejection of conductor on account of the deviations observed in the standard wire length/ total short lengths "or" gross weights etc. shall be to the firm's account and no relaxation in this regard shall be admitted for acceptance of material. This ultimately will also reflect on the performance indicator of the firm in future tender.

Further, the supplier shall not dispatch the material unless & until inspection reports/test certificates are approved and specific dispatch instructions for the inspected lots are issued by O/o O/o CGM (Pur) MPMKVVCL, Bhopal

20. FAKE INSPECTION CALL

All such firms, who after giving inspection call, do not offer materials to Inspecting Officer for inspection due to one or the other reasons, shall be required to remit a sum of Rs. 5,000/- per officer towards the charges incurred on arranging the inspection on such false inspection calls.

21. RIGHT TO CARRYOUT THE INSPECTION DURING MANUFACTURING

i) The Central Discom, at its option, will inspect the material on order during its process of manufacturing including the inspection of raw material and will request the supplier to carry out such tests as may be necessary to ensure proper quality check. Samples of components of the material shall be subjected to quality check by the inspecting officer during manufacturing. In the event of stage inspection, if any discrepancy is noticed, the supplier shall be given immediate notice to suspend further manufacturing until corrective measures are taken and the process cleared.

During pendency of the of the order, the factory inspection may be conducted by Central Discom's authorized officers as & when felt necessary for ensuring production of quality material.

The supplier will extend all reasonable and necessary assistance to the inspecting officer of the Central Discom to carry out testing of equipment/material at his works.

22. RECOVERIES FOR LIABILITIES AGAINST OTHER CONTRACTS:-

All amount recoverable from the successful bidders against earlier contracts including orders on sister concern with the Central Discom will be adjusted from payment due against the contract that may be awarded under this specification.

23. ROYALTIES AND PATENTS:-

All royalties for patents or any charges for usage or infringement thereof that may be involved in the supply shall be included in the offered price and the supplier shall protect Purchaser against any claim thereof. Supplier is fully responsible for such contractual dealing and purchaser shall not be called upon to bear any such charges.

24. PERFORMANCE/PAST EXPERIENCE RECORDS OF BIDDER:-

The supplier shall have minimum **three** years successful experience in manufacturing and supply of material offered by the firm. If the tenderer does not possess this experience, his tender may not be considered. The tenderer should furnish the record of their past performance and experience for the last five years (if any) in the enclosed Schedule-A (along with the photocopies of the orders/performance reports received from other Electricity Boards/Govt. Undertakngs etc., in case of no orders received from MPSEB in the past), failing which the tenderer may not get any preference for his past experience. The performance reports in respect of the supply made by the tenderers, from the purchasers should invariably been enclosed with the offer.

25. PRODUCTION CAPACITY ASSESSMENT

- (i) All firms should enclose proof of their latest maximum production capacity per annum. In respect of MP SSI Units, the certificate should be issued by SISI, Indore.
- (ii) All Outside State Units are also required to give proof of their latest production capacity with their offer.

This may be noted that production capacity may be taken into consideration for deciding the order share of various bidders, in addition to other criteria which the purchaser may adopt to assess the capability of the supplier.

- (iii) To be kept in the envelope Part-II Commercial/Technical Bid, failing which Bid will be rejected.

26. DEVIATIONS FROM TERMS & CONDITIONS

Should the tenderer desire to depart from theses conditions and/or technical specifications in any respect, he shall draw attention to such deviations as per Annexure 'B' and 'C' stating fully the reasons thereof. Unless this is done, these conditions and specified specifications will held good.

27. COMPLIANCE OF REGULATIONS

The supplier shall warranty that all Goods covered under procurement, shall have been produced, sold, despatched, delivered, tested, in strict compliance with all applicable Rules, Regulations including Industries (Development and Regulations) Act 1951 and any amendment there under, labour agreements, working conditions and technical codes and requirements, as applicable from time to time.

The supplier should execute and deliver such documents, as may be needed, by the purchaser in evidence of compliance. All laws, Rules and Regulations are required to be incorporated in this reference. Any liability arising out of contravention of any of the laws shall be the sole responsibility of the vendor and the purchaser shall not be responsible in any manner whatsoever.

28. CANCELLATION OF ORDER

28.1 The Central Discom may upon written notice of default, terminate contract in the circumstances detailed hereunder:-

- a) If in the opinion of the Discom, the supplier fails to deliver the material within the time specified or during the period for which extension has been granted by the Board/Company.
- b) If in the opinion of the Discom, the supplier fails to comply with any of the other provisions of this contract or material is found not in accordance with prescribed specifications and or the approved samples.
- c) If as a result of stage inspection, it is revealed that material and/ or, workmanship is substandard which is likely to affect the performance of the finished product, a notice would be served by the Central Discom to the supplier to suspend further activities and to take urgent steps towards corrective measures, failing which the entire order would be cancelled.

28.2 In the event of such termination, the Discom shall exercise its discretionary power as :-

- a) To recover from the supplier the agreed liquidated damages as approved in the Clause No.12 above.

OR

- b) To purchase from elsewhere after giving due notice to the supplier on account and at the risk of the contractor such stores/ material not so delivered or others of similar description in respect of consignment not yet delivered.

OR

- c) To cancel the contract reserving Central Discom's right to recover damages.

28.3 *In pursuance to clause no. 28.1 & 28.2 above, M.P.M.K.V.V.Co.Ltd. shall exercise its discretionary power to **black-list/debar** the supplier/contractor for further business with M.P.M.K.V.V.Co.Ltd. for a declared period on breach of the contract.*

28.4 Notwithstanding that the powers under clause (28.2a, b & c) referred to above, are in addition to the rights and remedy available to the Discom under the general law of India relating to Contract.

28.5 In the event of risk purchase of stores of similar description, the opinion of the Discom shall be final. In the event of action taken under clause 28.2(a) or (b) above, the supplier shall be liable to pay for any loss, which the Central Discom may sustain on

that account but the supplier shall not be entitled to any saving on such purchases made against the default.

28.6 The decision of the Central Discom shall be final regarding the acceptability of the stores supplied by supplier and the Central Discom shall not be required to give any reason in writing or otherwise at any time for the rejection of the stores/ material.

28.7 In the event, Central Discom does not terminate the order as provided in clause 28.1 & 28.2 above, the supplier shall continue execution of this order, in which case he shall be liable to the Central Discom for liquidated damages for the delay as per clause – 11 until supplies are accepted.

29. REDUCTION OF RATE DUE TO SUBSEQUENT TENDER

As a result of opening of the subsequent tender, if the rates received are found to be lower, then the pending supply against order shall be accepted at the **lower** rates.

30. ARBITRATION

If, at any time, any question, dispute or difference, whatsoever shall arise between the purchaser and the supplier, upon, or in relation to or in connection with the Contract, either party may forthwith give to the other, notice in writing of the existence of such question, dispute or difference, and the same shall be referred to the adjudication of two arbitrators, one to be nominated by the Purchaser and the other to be nominated by the Supplier or in the case of said arbitrators not agreeing, then to the adjudication of the Umpire to be appointed by the arbitrators, whose decision shall be final and binding on the parties and the provisions of the Indian Arbitration and Conciliation Act-1996 and of the rules there under and any statutory modification thereof shall be deemed to apply. The arbitrators or the Umpire, as the case may be, are bound to give a detailed speaking award assigning reasons for the findings.

Supplies under the Contract shall be continued by the supplier during the arbitration proceedings, unless otherwise, directed in writing by the Purchaser or unless the matter is such that the work cannot possibly be continued until the decision of the arbitrators or of the Umpire, as the case may be, is issued.

31. JURISDICTION

Any dispute or difference, arising under, out of, or in connection with this tender/ contract order shall be subject to exclusive jurisdiction of competent court at Jabalpur only.

32. VALIDITY OF BIDS

The tenders should be valid positively for acceptance upto **180 days** from the date of opening of the bids, otherwise they are liable to be rejected. If necessary, the validity of the offer will have to be extended for further period if required by Central Discom. No change in the price or any other terms shall be allowed during validity period.

In case, the tenderer withdraws his offer during the validity period, the EMD amount shall be forfeited.

33. RANDOM TESTING-

- 33.1 Inspection of material before despatch or waiver of inspection will not relieve the supplier from his responsibility to supply the material strictly in accordance with the specification. The Central Discom shall have option to test the samples selected at random from the supplies affected and subject it to routine/ type test as per relevant ISS and Technical specifications.
- 33.2 In case, the samples fail to withstand the required test, the entire lot will be liable to be rejected (i.e. unused material so supplied) and the supplier will have to refund the amount paid, including all taxes and duties, as well as the test charges thereof, after inspection. Such quantities or rejected material as identified, shall be removed by the supplier and replaced in full at his own cost. Company will not be responsible for levy of taxes on such rejected material and deduction shall be in totality.
- 33.3 In case of random checking of the supplies, if any deviation is noticed, a notice shall be given to the supplier, who shall arrange to depute his representative within 15 days for joint inspection.

In case any dispute arises in regard to weight/length measurement of conductors at consignees end, the inspection of such dispatched lots shall be conducted in presence of representative of the firm and unless a joint inspection is carried out and the dispute is resolved, no quantity of conductors, out of disputed lots shall be issued by the consignee(s).

If during joint inspection any deviation is observed and material supplied is found not conforming to standards laid down in the relevant ISS, the Company reserves the right to impose any appropriate penalty for full quantity of material supplied against the order. The decision of the Company in this respect shall be final and binding on the supplier.

34. SUBMISSION OF DESPATCH DETAILS

On completion of supplies, a statement showing details of offer and supplies made shall be furnished to this office promptly i.e. in first week of following month in following proforma:-

Sl. No.	Size of AAA & ACSR Panther conductor	Offer		D.I.		Consignees	Qty. supplied	MRC No. & date
		Date	Qty.	Date	Qty.	Date		
1	2	3	4	5	6	7	8	9
1.								
2.								
3.								
4.								

Note:- Size-wise position of AAA & ACSR Panther Conductors is to be furnished.

35. CHANGE IN DESPATCH DESTINATION:-

If any firm requests for change in the destinations after issue of dispatch instructions, in such cases, only 2/3rd of freight charges shall be paid to the firm against their supplies made to the revised destination, in case such requests are considered by the Central Discom.

36. VARIATION IN THE ORDERED QUANTITY:-

Supply to each destination can vary $\pm 3\%$ of the quantity as indicated in dispatch Instructions. However, variation in the total quantity supplied shall be limited to within $\pm 1\%$ of the ordered quantity in each size.

37. CORRESPONDANCE:-

Copies of all important correspondence regarding the order shall be enclosed to the following:-

- (i) CGM (Pur), O/o CMD(CZ), MPMKVVCL, Bhopal
- (ii) Dy. Director (Bills), O/o CMD(CZ),MPMKVVCL, Bhopal,
- (iii) Concerned consignee,
- (iv) Sr. Accounts Officer (H.O.A.U.)/Regional Accounts Officer
- (v) S.E.(Stores), MPMKVVCL, Bhopal.

38. CLIMATIC CONDITIONS

The climatic conditions where equipment is intended for installation could be taken as under:-

(i)	Maximum temperature of air in shed	52°C
(ii)	Minimum temperature of air in shed	-3°C
(iii)	Maximum relative humidity	95 % (The humidity some time approaches saturation point)
(iv)	Minimum relative humidity	10 %
(v)	Average number of dust-storm days per annum	40 days
(vi)	Average number of rainy days per annum	90 days
(vii)	Number of months of tropical monsoon conditions per annum	3 months
(viii)	Average annual rainfall	1250 mm
(ix)	Maximum wind pressure	150 Kg / Sq. mm
(x)	Altitude not exceeding	1000 meters
(The limit of ambient temperature shall be 52°C peak and 35°C average over a period of 24 hours)		

(SANJEEV P. PURANIK)
CHIEF GENERAL MANAGER (PUR)

ANNEXURE-III (A)

GENERAL PARTICULARS AND TECHNICAL PARTICULARS FOR AAA CONDUCTOR

1. **SCOPE:-** This specification provides for the manufacture, testing before despatch, supply and delivery of **ISI Marked All Aluminium Alloy (AAA) conductors**.
2. **STANDARD:-** The conductor shall strictly comply with the Indian Standard Specification IS:398 (Part-IV)1994 with latest amendments unless otherwise stipulated in this specification, or any other International Standards which ensure equal or higher quality material and workmanship.
3. **MATERIAL:-**
 - 3.1 The conductors offered shall be of best quality and workmanship.
 - 3.2 The wires shall be smooth and free from all imperfections such as spills and splits and rolling and wire drawing defects etc. resulting in reduction in cross-sectional area over the entire length.
4. **TOLERANCE:-**
The following tolerances shall be permitted:
 - (i) Tolerance on nominal diameter wires $\pm 1\%$ (plus minus one percent).
5. **MODULUS OF ELASTICITY AND COEFFICIENT OF LINER EXPANSION:**
The values of the final modulus of elasticity and co-efficient of liner expansion for AAA Conductor shall be as given here under:

Item	No. of wires	Final modulus of Elasticity GN/Sq.mm. (practical)	Coefficient of Linear expansion per °C	Density at temp. of 20°C
AAAC	7	$0.6324 \times 10^{+6}$ Kg/cm ²	23.0×10^{-6} (Alu. Alloy)	2.7 Kg/dm^3 (Alu. Alloy)

The wires of Aluminium alloy conductor shall be of heat treated Aluminium, magnesium, silicon alloy having composition appropriate to the technical and electrical properties as specified in Table-I of IS:398(Pt-IV)/1994.

6. **JOINTS IN WIRES:-** In AAA Conductors there shall be no joint in any wire of stranded conductor containing wires except those made in the base rod or wire before final drawing.
7. **STRANDING:**
 - 7.1 The wires used in manufacture of a stranded conductor before stranding, should satisfy all requirements of IS: 398 (Part-IV)/1994 with its latest amendments. The lay ratio of the layer shall be within the limit given under class-8 below.

7.2 In all constructions, the successive layers shall have opposite directions of lay. The outer-most layer being right handed, the wires in each layer shall be evenly and closely stranded.

8. **LAY RATIO**:-The lay ratio (Ratio of the axial length of a complete turn of the helix formed by an individual wire in a stranded conductor to the external diameter of the helix) shall be within the limits given below :-

Item	No. of Wires			Ratio of Al. wire dia to Steel wire dia	Lay ratio for Al. wire	
	Outer Aluminium	Central Aluminium	Total		Max.	Min.
AAA Conductor	6	1	7	N.A.	14	10

9. **PACKING AND MARKING:**

(A) The conductor shall be wound in non-returnable reels or drums conforming to IS:1778 – 1961 (Specification for Reels and Drums for bare wire) or the latest version thereof. The drums shall be marked with the following details:-

- (a) Manufacturer's name.
- (b) Trade mark, if any.
- (c) Drum number & identification number.
- (d) Size of conductor.
- (e) Number and lengths of pieces of conductor in each drum.
- (f) Gross mass of the packing.
- (g) Net mass of conductor
- (h) ISI or relevant International standard specification mark, if any.
- (i) Name and address of the consignees

10. **PACKING CONDITION:-**

10.1 The reels/drums shall be of such constructions as to assure delivery of conductors free from displacement and damage and should be able to withstand all stresses due to handling and the stringing operation so that conductor surface is not dented, scratched or damaged in any way during manufacturer, transport and erection. The conductor shall be properly lagged on the drums.

10.2 The conductor drum should be suitable for wheel mounting. Before reeling, the cardboard or other suitable material shall be secured to the drum and inside flanges of the drums. After reeling the conductor, the exposed surface should be wrapped with suitable soft material e.g. polythene sheet etc. across the flanges to protect the conductor from dirt, grit and damage during transportation and handling and also prevent ingress of rain water during storage/transport.

10.3 All wooden components shall be manufactured out of seasoned wood of good quality free from defect that may materially weaken the component parts of the drums. Preservatives treatment for anti-termite/anti-fungus shall be applied to the entire drum with preservatives of a quality which is not harmful to the conductor.

11. STANDARD LENGTH AND GROSS WEIGHT OF CONDUCTOR:-

The gross weight of each package shall not exceed the following limits, subject to a tolerance of + 10% (ten percent).

- (i) For Aluminium alloy conductors of sizes 34 mm² (Weasel) : **1000 Kg**
- (ii) For Aluminium alloy conductors of sizes 55 mm² & 100 mm² : **1500 Kg**
(Rabbit & Dog respectively)
- (iii) The **standard length** of AAA conductor shall be as under:-

SNo	AAA Conductor of size	Code Word	Standard length
1.	34 mm ²	Weasel	2.000 Kms
2.	55 mm ²	Rabbit	1.500 Kms
3.	100 mm ²	Dog	1.200 Kms

Longer lengths shall be acceptable. Short lengths of not less than 50% of the standard lengths, as indicated above, shall be acceptable to the maximum extent of 10% of the quantity ordered for each size.

12. VARIATION IN THE ORDERED QUANTITY:

Supply to each destination can vary plus/minus 3% (three percent) of the quantity as indicated in Despatch Instructions. However, variation in the total quantity supplied shall be limited to within plus minus 1% (one percent) of the ordered quantity in each size.

13. TESTS:-

- 13.1 Samples of individual, Aluminium Alloy wires for tests shall be taken before stranding from not less than 10% of the spools/coils. If samples are taken after stranding, they shall be obtained by cutting 1.2 meters from the outer end of the finished conductor from not more than 10% of the reels.
- 13.2 The mechanical tests shall be carried out on single wires only and not on complete conductor.
- 13.3 The following tests shall be carried on Aluminium Alloy wires as per detailed procedure given in IS:398(Part-IV)/1994:-
- Measurement of lay ratio of conductor
 - Nominal size of individual wire
 - Breaking load test
 - Elongation test
 - Resistance test.
- 13.4 The rejection and re-test procedure shall be followed as stipulated in IS:398(Part-IV)/1994.

14. CHECKING AND VERIFICATION OF LENGTH OF CONDUCTORS:

- 14.1 **END SEALING:-** Both the ends of each length of the conductor should be properly sealed with epoxy compound/metal crimp with embossing/punching of suppliers identification (Trade Mark) and Drum Identification number on the seal.
- 14.2 The supplier/manufacturer of Conductor should arrange for the inspection by the representative of purchaser specially authorized for this purpose. At least 5% of the

total number of drums of conductors taken at random should be checked to ascertain the lengths of conductor adopting either of the following two methods:-

- (a) The drum along with the conductor should be weighed and six empty drums along with protective laggings & studs etc. normally used for winding the conductor should also be weighed. Net weight of the conductor should be calculated by subtracting the average weight of the six empty drums from the gross weight of the conductor and drums. Having known the weight of the conductor, the length of the conductor can be computed.

In case of empty conductor drums, a check weightment of every one in ten empty drums shall also be done before the conductors are wound on the drums.

- (b) Arrangements should be made available in the works of the manufacturer for transferring the conductor from one reel to another at the same time measuring the length of the conductor so transferred by means of a meter. Percentage shortage if any in the length thus obtained and as declared by the supplier in the packing list shall be applied to all the drums.

15. **CHECK MEASUREMENT:** Where length of conductor is verified by weightment basis the determining factor will be length /weight ratio of the sample drums verified at the firm's premises of the lot of which the drum under measurement at the consignee's end forms a part:

- i Wherever at the end of the consignee, length measurement machines are available conductors shall be accepted by verification of length only and where the length measurement machines are not available, conductor shall be accepted on weightment basis.
- ii In case, where the recorded weight on the drum tallies with the measured weight at consignee end, then the conductor length shall be accepted as recorded on the drum. In other cases, the determining factor **will be weight/ length ratio of the sample(s)** inspected at the firm's premises of the lot of which the drum under measurement at the consignee's end forms a part. The factors of weight/length ratio shall *however be made available to the consignees in the dispatch instructions itself*. If such factors are not available due to some reasons, actual measurement of diameter shall be made and weight/length ratio shall be obtained for the purpose of computing length.

(A) SIZE AND PROPERTIES OF AAA CONDUCTORS

(Table 2 is of IS:398 Part – IV 1994)

Sr. No.	Actual Area	Stranding & wire dia	Approximate overall dia	Approximate mass	Calculated maximum resistance at 20°	Approximate calculated breaking load
	mm ²	mm	mm	Kg/Km	Ohm/km	KN
2.	34	7/2.5	7.5	94.00	0.9900	10.11
3.	55	7/3.15	9.45	149.20	0.6210	16.03
5.	100	7/4.26	12.78	272.86	0.3390	29.26

**(B) PROPERTIES OF ALUMINIUM ALLOY WIRES USED IN THE CONSTRUCTION OF AAA
CONDUCTORS**

(Table 1 is of IS:398 Part – IV 1994)

Size (Code- Word)	Diameter			Gross Sectional Area of nominal dia wire	Mass	Resistance 20°C	Breaking load (Min.)	
	Nominal	Min.	Max.				Before stranding	After stranding
1	2	3	4	5	6	7	8	9
mm ²	(mm)	(mm)	(mm)	(mm ²)	Kg/km)	(Ohm/Km)	KN	KN
34 (Weasel)	2.5	2.47	2.53	4.909	13.25	6.845	1.52	1.44
55 (Rabbit)	3.15	3.12	3.18	7.793	21.04	4.290	2.41	2.29
100 (Dog)	4.26	4.22	4.30	14.250	38.48	2.345	4.40	4.18

(SANJEEV P. PURANIK)
CHIEF GENERAL MANAGER (PUR)

ANNEXURE-III (B)

DETAILED TECHNICAL SPECIFICATION AND PARTICULARS FOR ACSR PANTHER CONDUCTOR

1 SCOPE

This specification provides for manufacture, testing before despatch and supply (for destination Ex-our Stores/Site Store any where within the state of Madhya Pradesh) of Panther ACSR size 30/7/3.00 mm. The Technical Specification contained in this section is for the guidance of the tenderers. Any deviations from purchaser's specification will be considered on their relative merits or performance, efficiency, durability and over all economy consistent with the purchaser's requirement herein after stipulated. Such deviation shall be clearly entered by the tenderer in [Schedule-C](#).

2 STANDARDS

The ACSR Conductor shall conform to the following Indian Standard/International Standards, which shall mean latest revisions/ amendments/changes adopted and published.

i.	IS:209	Zinc
ii.	IS:398	Specification for Aluminium conductors for overhead transmission purpose
iii.	IS: 1521	Method of Tensile Testing of Steel
iv.	IS:1778	Reel and drums for bare conductors
v.	IS:2629	Recommended practice for Hot Dip Galvanising Iron and Steel
vi.	IS:2633	Method of Testing Uniformity of coating Zinc coated Articles.
vii.	IS:4826	Galvanized coating on Round Steel wires
viii.	IS:6745	Method of Determination of weight of Zinc coating zinc coated Iron and Steel Articles
ix.	IS:8263	Radio influence voltage of high voltage insulators methods of measurement

3. RAW MATERIALS AND DIMENSIONS

- 3.1 ACSR Panther shall comprise of 30 strands of 3.00 mm dia of aluminium and 7 strands of 3.00 mm hot dip galvanized High tensile steel and shall have conductivity equivalent to 130 sq. mm. Copper. The conductor shall conform to IS:398 Part-II and standard technical particulars as per [Schedule-E](#) of this specification.

- 3.2 All strands containing magnetic materials shall be located in the central portion of the conductor. Each layer of the conductor shall be of uniform conductance and of the same kind or type of material.
- 3.3 The conductor shall be capable of withstanding the normal handling, necessary for manufacture and erection (such as reeling, unreeling and pulling through stringing sheaves), under sufficient tension to keep the conductor off the ground etc. without being deformed from a circular cylindrical form in such a way so as not to increase radio interference and corona loss.

4. QUALITY

- 4.1 The aluminium strands shall be hard drawn from electrolytic aluminium rods having purity of not less than 99.5% and the copper content shall not exceed 0.04%. The producer's test certificates, in respect of impurity content of aluminium conductor etc., shall have to be furnished before manufacture of conductor in order to assess whether aluminium rods of correct quality have been used for aluminium strands.
- 4.2 The steel wire strands shall be drawn from high carbon steel wire rods produced by either the acid or the basic open hearth process, or by the electric furnace process, or basic oxygen process and shall conform to the following requirements as to the chemical composition.

<u>Elements :</u>	<u>% Composition</u>
Carbon	: 0.50 to 0.85
Manganese	: 0.50 to 1.10
Phosphorus	: Not more than 0.035
Sulphur	: Not more than 0.045
Silicon	: 0.10 to 0.35

- 4.3 The steel produced by Bessemer process shall not be used for drawing steel wire strands.
- 4.4 The steel strands shall be hot dip galvanized and shall have zinc coating of minimum 240 gm/sq. meter of the uncoated wire surface. The zinc coating shall be reasonably smooth, continuous, of uniform thickness and free from imperfections not consistent with good commercial practice, and shall meet the test requirements specified hereinafter. The steel wires shall be of such quality and purity that, when drawn to the zinc of strands specified and coated with zinc, the finished strands and the individual wires shall be of uniform quality and have the same properties and characteristics as prescribed in relevant Indian Standard. The quality of electrolytic High Grade (HG) zinc shall conform to IS-209 and its purity shall have 99.95 percent.
- 4.5 All the aluminium as well as steel strands shall be smooth, uniform and free from all imperfections, such as spills and splits, die-marks, scratches, abrasions and kinks etc. after drawing and also after stranding.
- 4.6 The finished conductor shall have a smooth surface without any surface cut, abrasion, scuff marks and shall be free from dirt, grit etc. Even if the damage to

conductor is acceptable from mechanical considerations, it will not be acceptable from electrical considerations, and full care should be taken not to supply damaged conductor.

- 4.7 The conductor when subjected to tension of 50% of the ultimate strength of the conductor, neither the surface shall depart from its cylindrical form nor the strands shall move relative to each other in such a way as to get out of place or disturb the longitudinal smoothness of the conductor.
- 4.8 Failure of any sample to meet the above requirements shall be sufficient cause for rejection of the lengths of conductor represented by the sample. Particular care shall, therefore, be taken during manufacture, handling, packing and transportation of the conductor, to see that the surface is not denuded or damaged in any way.

4.9 Joints in Strands:-

4.9.1. Aluminium Strands :

- a. Joints in the aluminium strands in the 18 wire inner layers of the conductor shall be allowed as per Clause 8.1 of IS-398(part-II), i.e. not two such joints should be within 15 meters of each other in complete stranded conductor. These joints shall be made as per IS:398 and thereafter suitably annealed such that the tensile strength of the joint shall be more than 14.67 kg/mm^2 and secondly the other physico-mechanical properties of the joints like, electrical resistance, elongation modulus of plasticity etc. are comparable with that of the unjointed strand.
- b. No joint shall be permitted in the Aluminium wires in the outermost layer (i.e. 18 wire) of conductor.
- c. The offers which do not conform to the above requirements of joints in the outermost layer of the conductor, shall not be considered :-

4.9.2. Galvanized steel core strands :-

- a. There shall be no joint of any kind in the finished steel strands entering into the construction of the core except those in the base rod or wire before final drawing.

5. CLEANING

The conductor shall be free from excessive amount of die, grease, metal particles and dirt. The tenderer shall describe in complete details the method which he proposes to use in formal production to clean the conductor. The effectiveness of the cleaning process shall be subject to verification.

6. TEMPERATURE RISE CURVES OF CONDUCTOR

The tenderer shall furnish curves for current in amperes (50 cycles) versus temperature rise (Deg-C) for the ACSR Panther Conductor for various temperature conditions

7. STANDARD LENGTH:

- 7.1 The conductor shall be supplied in the standard lengths of 1.5 kms. (1500 metres \pm 5%)
- 7.2 Not less than 95% of the total quantity of the conductor shall be supplied in standard lengths. Thus, the quantity of the conductor in length shorter than standard one shall not exceed 5% of the total quantity to be supplied. Further, no single

conductor length in respect of such 5% (max.) supply in random lengths, shall be shorter than 50% of the standard length. Each shorter length shall have to be packed in separate drum.

8. PACKING :

8.1 General

- 8.1.1 The conductor shall be wound on non-returnable wooden drums strong enough and provided with lagging of adequate strength, manufactured to protect the conductor against all damage and displacement during transit, storage and subsequent handling and stringing operations in the field. The conductor may be supplied duly wound on steel/wooden drums. However, the purchaser reserves the right to award the contract for supply of conductor either with steel drum or wooden drum. The wooden drums shall generally conform to IS: 1778 as amended upto date. Only one conductor length shall be packed on each drum.
- 8.1.2 The drums shall be suitable for wheel mounting.
- 8.1.3 The general construction of wooden drums shall be as shown in the enclosed drawing No.FT/11/145. However, the drums shall be suitable for letting off the conductor under controlled tension of the order of 500 kg minimum.

8.2 CONSTRUCTION OF WOODEN DRUMS

All wooden components shall be manufactured out of seasoned soft wood free from defects that may materially weaken the component part of the drums. Preservative treatment shall be applied to the entire drum of such a quality which is not harmful to the conductor.

8.3 FLANGES

- 8.3.1 The flanges shall be of two ply construction with each ply at right angles to the other and nailed together. Further the outer face of the flange shall be reinforced with the circumferential battens fixed in octagonal shape. The nails shall be driven from the inside face of flange, punched and then clenched on the outer face. The flange board shall not be less than the nominal thickness by more than 2 mm. There shall be at least 3 nails per plank of ply with maximum nail spacing of 70-75 mm.
- 8.3.2 Where a slot is cut in the flange to receive the inner end of the conductor, the entrance shall be in line with the periphery of the barrel. 5 mm M.S. Plate Triangular shape shall be provided at outer side of both the flanges, which shall be fitted on studs with the help of bolts and nuts as shown in enclosed drawing.

8.4 SPINDLE HOLE

Spindle hole shall be provided at the centers of the planks of the plies and cast iron bushings of 100 mm. Dia holes shall be fitted on either side of both the flanges.

8.5 BARREL AND SUPPORTS

The end supports shall be securely fixed to the flanges by nailing and may be of disc or segmented type. The middle barrel support of two ply construction of disc type with a 100 mm dia hole concentric with the holes in the flanges shall be provided at the centers of the barrel supports.

8.6 BARREL

The wooden battens used for making the barrel of the conductor drum shall be of segmental type. These shall be nailed to the barrel supports with at least two nails.

The battens shall be closely butted and shall provide a round barrel with smooth external surface. The edges of the battens shall be rounded or chamfered to avoid damage to the conductor.

8.7 BARREL STUDS

M.S studs shall be used for construction of drums. The flanges shall be holed and the barrel supports slotted to receive them. The barrel studs shall be threaded over a length on either end, sufficient to accommodate washers, spindle plates and nuts for fixing flanges at the required spacing.

8.8 IRON COMPONENTS

Normally, the nuts on the studs shall stand protrude of the flange. All the nails used on the inner surface of the flange and the drum barrel shall be counter sunk. The ends of barrel shall generally be flushed with the top of the nuts.

8.9 PROTECTIVE ARRANGEMENT

The inner cheek of the flanges and drum barrel surface shall be painted with a bitumen based paint.

8.10 Before reeling, cardboard or double corrugated or thick bituminized waterproof bamboo paper shall be secured on the drum barrel and inside of flanges of the drum by means of a suitable adhesive material. These protective wrapping and adhesive materials used shall be of quality, which is not harmful to the conductor. Medium grade kraft paper shall be used in between the layers of the conductor.

8.11 After reeling the conductor the exposed surface of the outer layer of conductor shall be wrapped with water proof thick bituminized bamboo paper/polythene sheet to prevent the conductor from dirt, grit and damage during transport and handling.

8.12 After application of bituminized paper/polythene sheet protective lagging or circumferential battens of 15 mm thickness shall be provided suitably where conditions warrant such provision in order to protect conductor from damage during transit in the event of breakage/damages of the external protective lagging.

8.13 Minimum space of 125 mm shall be provided between the inner surface of the external protective lagging and outer layer of the conductor.

8.14 The thickness of the external protective lagging or circumferential battens shall be sufficient to withstand transit hazards. Each batten shall be securely nailed across grains as far as possible to the flange edge with at least 2 nails per end. The length of the nails shall be not less than twice the thickness of the battens. The nails shall not protrude above the general surface and shall not have exposed sharp edges or allow the battens to be released due to corrosion.

8.15 The conductor ends shall be sealed with firms marking/monogram and secured with the help of 'U' nails or bolts on the side of one of the flanges to avoid loosening of the conductor layers during transit handling.

- 8.16 The conductor shall be securely fastened at each end to the reel. The outer end of the conductor shall be fastened while it is under tension. The tension shall be such that no looseness is transmitted to the internal layers. The conductor shall be tightly and uniformly wound on the reel. Each wrap shall be laid snugly against the side of the preceding wrap and each layer shall be wound neatly over the preceding layer.
- 8.17 Any damage to the conductor due to non-fulfilling the above condition will be in the account of supplier and replacement of such conductor will be done by the supplier and replacement of such conductor will be done by the supplier free of cost

9. **MARKING**

Each drum shall have the following information stenciled on it in indelible ink along with other essential data:

- i. Maker's name and address or trade mark.
- ii. Contract/Specification No.
- iii. Name and address of the consignee
- iv. Name of the destination
- v. Drum number
- vi. Size of the conductor
- vii. Length of the conductor in metres
- viii. Gross weight of the drum with protective lagging including conductor
- ix. Weight of empty drum with protective lagging
- x. Net weight of the conductor
- xi. Arrow marking for unwinding
- xii. Position of the conductor end.
- xiii. Lot number

10. **QUALITY ASSUARANCE PROGRAMME**

10.1 To ensure that the equipments and services under the scope of this contract whether manufactured or performed within the Contractor's premises or at the Purchaser's site or at any other place of work are in accordance with the specifications, the Contractor shall adopt suitable Quality Assurance Programme (QAP) to Control such activities at all points, necessary. Such programme shall be outlined by the Contractor and furnished along with their offer, which shall be finally accepted by the purchaser after discussions before the award of contract.

10.2 The Quality Assurance Programme of the Contractor shall generally cover the following:

- a) Organizational structure for the management and implementation of the proposed quality assurance programme
- b) Documentation control system
- c) Qualification data for tenderers key personnel
- d) The procedure for purchase of materials, parts, components and selection of Sub-contractor's services including vendor analysis, source inspection, incoming raw-material inspection, verification of materials purchased etc.
- e) System for shop manufacturing and site erection controls including process controls and fabrication and assembly controls

- f) Control of non-conforming items and system for corrective actions.
- g) Inspection and test procedure both for manufacture and field activities
- h) Control of calibration and testing of measuring and testing equipments
- i) System for indication and appraisal of inspection status.
- j) System for quality audits
- k) System for authorizing release of manufactured product to the purchaser
- l) System for maintenance of records
- m) System for delivery
- n) A quality plan detailing out the specific quality control procedure adopted for controlling the quality characteristics relevant to each item of equipment furnished.

10.3 Quality assurance documents and their system for quality assurance, quality audit, process control inspection, calibration system, records, deviation and rejection systems, sub-vendor control and system, organization structure will be open for the inspection to the engineers or a team of representative of the Board.

10.4 Quality Assurance Documents :

The contractor shall be required to submit the following Quality Assurance Documents within three weeks after award of the contracts.

- a) Material test reports on components as specified in the specification.
- b) The inspection plan with verification, inspection plan check points, verification sketches, if used and methods used to verify that the inspection and testing points in the inspection plan were performed satisfactorily.
- c) Factory test results for testing required as per applicable codes and standards referred in the specification.

11. INSPECTION

11.1 The Purchaser's representative shall at all times, be entitled to have access to the works and all places of manufacture where conductor shall be made or prepared, and the representative shall have full facilities for unrestricted inspection of the contractor's works, the raw materials, the manufacture of the conductor and for conducting necessary tests as detailed herein-after.

11.2 The supplier shall keep the Purchaser informed in advance of the time of starting and of the progress of manufacture of conductor in its various stages, so that arrangement could be made for inspection.

11.3 The material shall be inspected by our representative prior to despatch. For this purpose supplier are required to offer material for inspection 15 days in advance. No conductor shall be dispatched from its point of manufacture before it has been satisfactorily inspected and tested/unless the inspection is waived off by the Purchaser in writing. In the later case also the conductor shall be dispatched only after the satisfactory testing for all tests specified hereinafter, have been completed.

11.4 The acceptance of any quantity of conductor shall in no way relieve the supplier of any of his responsibility for meeting all the requirements of the specification, and shall not prevent subsequent rejection, if such conductor is later found to be defective.

12. TESTING

12.1 Test details mentioned below are to be carried out on ACSR Panther Conductor.

Acceptance test

To be carried out by the supplier in presence of Board's representative. Expenditure to carry out these acceptance tests will be on suppliers account.

- a) **Visual examination** : Clause 14.1 of the specification
 - i) Visual and dimensional check on drums
 - ii) Visual check for joints, scratches etc.
 - iii) Verification of length
- b) Measurement of diameters of individual Aluminium & Steel wire : As per IS 398(Part-II)
- c) Measurement of lay ratio : As per IS 398(Part-II)
- d) Breaking load test on steel and aluminium strands : As per IS 398(Part-II)
- e) Ductility test (Torsion and : As per IS 398(Part-II) elongation)
- f) Wrapping test on steel and aluminium strands : As per IS 398(Part-II)
- g) Resistance test on aluminium wires : As per IS 398(Part-II)
- h) Galvanizing test : As per IS 398(Part-II)

12.2 Routine tests

The routine tests shall be same as acceptance test and shall be carried out on each strand/coil/length by the supplier.

12.3 The purchaser will have the right of having, at his own expense any other test(s) of reasonable nature carried out at Suppliers premises or at site or in any other place in addition to the aforesaid tests, to satisfy that the material comply with the specification.

13. Test Reports

13.1 Copies of test reports for the above tests shall be furnished in at least two (2) copies for necessary approval before despatch of material.

13.2 The test reports for the acceptance tests shall clearly state the designated numbers of the drums and net length of the conductor covered by the report. The reports shall clearly indicate the minimum values specified for each test and minimum/maximum value of diameter and lay-ratio permissible to facilitate checking of the test reports.

14. Test Procedure

14.1 Visual examination test

i) Visual and dimensional check on drums

The drums shall be visually and dimensionally checked to ensure that they conform to the requirement of this specification.

ii) Visual check for joints, scratches etc.

The conductor drums shall be rewound in the presence of the inspector. The inspector shall visually check for scratches, joints etc. and ensure that the conductor generally conform to the requirement of this specification.

iii) Verification of length :

The supplier/manufacturer of conductor should arrange for the verification of length of conductor by the representative of the purchaser specially authorized for this purpose. The length verification will be done in the quantity of drums as desired by the Inspecting Officer subject to a minimum of 5% of the total number of drums of a lot of conductor taken at random to ascertain the declared length of conductor. The length of conductor actually measured may be cross checked by taking weight of empty drum and drum with conductor wound on it. The manufacturer should have arrangement for transferring the conductor from one drum to another and at the same time measuring the length of the conductor by means of a meter.

(SANJEEV P. PURANIK)
CHIEF GENERAL MANAGER (PUR)

ANNEXURE-IV***PRICE VARIATION FORMULA FOR ALL ALUMINIUM ALLOY
CONDUCTOR***

1. For the purpose of calculating price variation on Aluminum Alloy Metal, the ex-works price (excluding excise duty and sales tax) of M/s BALCO, as indicated by M/s CACMAI Price Circular, will be taken into account, irrespective of source from where the same is produced.
2. **Base Price of All Aluminium Alloy Metal:-** The tenderers are advised to quote their prices of conductor on ex-works rate of Rs.152650/- per MT, which is the ex-works price of M/s BALCO as per price circular no.01- A January 2012 dtd. 6.01.2012 of M/s CACMAI, New Delhi applicable w.e.f 03.01.2012.
3. **Final Price of All Aluminium Alloy Metal:-** The price variation on all Aluminium alloy metal shall be calculated on the basis of ex-works prices of M/s BALCO (excluding E.D. & S.T.) as indicted by M/s CACMAI, New Delhi applicable prevailing 15 days prior to the date on which conductor is notified for inspection (i.e. the date of receipt of offer along with the packing list), subject to delivery schedule, shall be taken provided material so inspected is cleared for despatch after pre-despatch inspection or the pre-despatch inspection is waived and material permitted for dispatches.
4. Price variation on All Aluminium Alloy Metal shall be admissible on weight of these inputs in one kilometre of conductor as per IS:398(Part-IV)/1994. **No extra weight will be permitted on either wastages or losses:-**
5. For every Rupee increase/decrease per MT in the ex-works price of All Aluminium Alloy Metal, the price of finished conductor will vary at the following rates:

Actual area of AAA conductor as per IS:398 (Part-IV)/1994	Rate of variation in Rupee per Km
34 mm ² (Weasel)	0.09400
55 mm ² (Rabbit)	0.1492
100 mm ² (Dog)	0.2728

6. General clauses applicable for price variation formulae, for AAA conductors are showing hereunder:-
 - (i) The price variation will be restricted to the contractual delivery period only.
 - (ii) If the delay is occasioned due to force majeure conditions, for which extension in time is agreed to by the purchaser as per terms of the contract, then the price variation may also be applicable for the extended delivery period. However, permitting claim for price variation on extended period is the sole discretion of the purchaser and intimation in his regard shall be given by the purchaser separately.
 - (iii) If the delay is occasioned not due to force majeure conditions and extension in time corresponding to the delay is also not agreed to by the purchaser, then the PV will be admissible either for the period the contractual delivery date or the actual delivery date, whichever gives less PV i.e. whichever is advantageous to the Central Discom.
 - (iv) There will be no ceiling for price variation both upward and downward.

- (v) For the purpose of reckoning the date of the delivery to decide the PV, the date of receipt of offer along with packing list of conductors for inspection, subject to delivery schedule, will be taken into account provided the conductor is cleared after pre-despatch inspection or materials are passed after inspection or if the pre-despatch inspection is waived.
- (vi) The supplier would continue delivery at the contractual delivery rate. The prices of the conductors shall normally be updated/ revised, depending upon the availability of price circulars of M/s CACMAI, New Delhi for Al. alloy.

It may be, however, be noted that in the absence of such updation of rates, the suppliers will have to continue making supplies and they can submit supplementary bills towards PV, as and when the updation of rates is conveyed to them by the Central Discom. The suppliers shall, in *no case, be entitled to stop or withhold the supplies on the ground of not updating the prices* or not acceding to the request of the firms in regard to delivery extension.

(SANJEEV P. PURANIK)
CHIEF GENERAL MANAGER (PUR)

ANNEXURE-V

PRICE VARIATION FORMULA FOR ACSR PANTHER CONDUCTOR

Price Variation for ACSR Panther conductor will be permitted only for variation in the cost of EC Grade Aluminium wire Rods and HTGS Core Wire, as per details given below. It may be carefully noted that no price variation will be admitted on any other component/input.

1. ALUMINIUM :

For the purpose of calculating price variation of Aluminium Metal, the ex-works prices (exclusive of Excise Duty and Sales Tax) of EC Grade Aluminium Wire Rods as declared by M/s CACMAI, the average price of M/s. BALCO, M/s NALCO & M/s HINDALCO will be taken into account, irrespective of whether Aluminium is procured in the form of ingots/billets and bars and irrespective of source from where EC Grade aluminium is procured by the supplier.

2. HTGS CORE WIRE :

For the purpose of calculating price variation of HTGS Wire, the ex-works prices (exclusive of Excise Duty and Sales Tax) of 3.00 mm to 4.090 mm size HTGS Core Wire (ACSR Core Wire) as declared by M/s CACMAI, will be taken into account, irrespective of source of its procurement.

3. BASE PRICE :

- (i) EC Grade Aluminium Wire Rods :- The quoted prices of conductor will be considered based on the ex-works price of EC Grade Aluminium Wire Rods prevailing as on 01.01.12., as declared by M/s CACMAI, the average price of M/s BALCO, M/s NALCO & M/s HINDALCO.
- (ii) HTGS Core Wire :- The quoted prices of conductor will be considered based on the ex-works price of 3.00 mm to 4.090 mm size HTGS Core Wire (ACSR Core Wire) prevailing on 01.01.12 as declared by M/s CACMAI.

4. FINAL PRICE

- (i) **EC Grade Aluminium Wire Rods** :- For the purpose of calculating price variation of Aluminium, final ex-works prices (exclusive of Excise Duty and Sales Tax) of EC Grade Aluminium Wire Rods as declared by M/s CACMAI , the average price of M/s BALCO, M/s NALCO & M/s HINDALCO and as applicable 15 days before the date when conductor is contractually due to be ready for inspection shall be applicable.
- (ii) **HTGS Core Wire** :- For the purpose of calculating price variation of HTGS Wire, the ex-works prices (exclusive of Excise Duty and Sales Tax) of 3.00 mm to 4.090 mm size HTGS Core Wire (ACSR Core Wire) as declared by M/s CACMAI on the first working day of the calendar month in which the conductor is contractually due to be ready for inspection, shall be applicable.

5. Price Variation on Aluminium and HTGS Core Wire shall be admissible on weight of these inputs in one kilometer of conductor. Accordingly, weight of Aluminium in 1 Km of Panther ACSR will be taken as 586 Kgs and weight of HTGS Core Wire will be taken as 390 Kgs. No extra weight will be permitted on either wastages or losses.
6. For every Rupee increase/decrease per MT in the ex-works price of EC Grade Aluminium Wire Rods and HTGS Core Wire, the price of finished conductor will vary at the following rates :-

Sr. No.	Item	Rates of variation in Rs./Km due to rise/fall of Re.1 / MT on	
		EC Grade Aluminium	HTGS Core Wire
1.	ACSR Panther	0.586	0.390

7. General clauses applicable for price variation formula for ACSR conductor is shown hereunder :-

- (i) The price variation will be restricted to the contractual delivery period only.
- (ii) In case delay in delivery is occasioned and extension in time corresponding to the delay is not agreed to be the purchaser, then the PV will be admissible either for the period upto the contractual delivery date or the actual delivery date, whichever gives less PV i.e whichever is advantageous to the Discom-CZ
- (iii) For the purpose of reckoning the date of the delivery to decide the PV, the date of receipt of offer along with packing list of conductors for inspection, subject to delivery schedule, will be taken into account provided the conductor is cleared after pre-despatch inspection is waived.

8. For the claim of price variation, due to increase / decrease in the price of EC Grade Aluminium Wire Rods / 3.00 mm to 4.09 mm size HTGS Core Wire (ACSR Core Wire), photocopy of relevant price circulars of M/s CACMAI, towards documentary evidence duly certified and attested by the supplier will have to be submitted.

(SANJEEV P. PURANIK)
CHIEF GENERAL MANAGER (PUR)

ANNEXURE – V**SCHEDULE OF QUESTIONNAIRE
PART "A": GENERAL INFORMATION
(TO BE KEPT IN THE ENVELOPE PART-II,
(COMMERCIAL/TECHICAL BID))**

- (i) Strike off, whichever is not applicable.
(ii) Separate sheets should be used, wherever necessary.

1.	Name & Address of the Bidder	
2.	Name & Address of the firm/Company etc	
	(a) Registered office	
	(b) Factory/ works address	
	(c) Telegraphic address	
	(d) Telephone Nos.	
	(e) Fax Nos.	
	(f) E-mail :	
3.	Confirm whether bidder is a Manufacturer	Yes/ No.
4.	Only Manufacturer to give following particulars	
	(a) Address of factory	
	(b) Year of starting manufacture	
	(c) Whether same/similar materials Manufactured/printed earlier, (if yes, give reference	
	(d) Yearly/monthly production Capacity	
	(e) Maximum yearly production achieved so far	
5	Whether the firm is an MP SSI Unit	Yes/ No
	(a) If yes, write registration No.	
	(b) Whether documentary evidence regarding registration enclosed	
	(c) Items of registration	
	(d) Period of Registration	
	(e) Furnish latest copy of competency certificate	Yes/ No
6	(a) Whether the bidder is old participant with MPSEB	Yes/ No
	(b) If yes, whether document evidence enclosed.	
7.	Any other information that bidder If yes, whether document evidence enclosed.	If yes, give details may like to give in order to highlight his bid

PLACE:

DATE

SIGNATURE OF TENDERER

NAME IN FULL

DESIGNATION/ STATUS IN THE FIRM

COMPANY SEAL

ANNEXURE – V

*PART “B”: COMMERCIAL INFORMATION
(TO BE KEPT IN THE ENVELOPE PART-II,*

(COMMERCIAL/TECHICAL BID)”

(i) Strike off, whichever is not applicable.

(ii) Separate sheets should be used, wherever necessary

1.	I	Earnest Money details	Bank draft/ Bankers cheque in favour of Sr. A.O. (H.O.A.U.) MPMKVVCL,Bhopal / Cash with the office of Sr. AO (H.O.A.U.), MPMKVVCL, Bhopal
	li	(a) Amount of EMD	Rs.
		(b) Particulars/details	
	iii	If exempted, state whether the bidder is	SSI Unit of M.P./ Small Scale unit registered with NSIC/ Fully owned State/ Central Govt. Unit.
	iv	Whether reference of documentary evidence regarding exemption enclosed.	Yes/ No
	vi.	Whether permanent EMD is available with the Central Discom (documentary evidence about acceptance of Permanent EMD be enclosed)	
2.		Whether the offer is valid for 180 days from the date of opening of commercial / technical bid	Yes/ No (If no, state validity period).
3.		State whether the quoted prices are Variable	
4.		Whether prices quoted are on FOR destination basis or not.	
5.		Indicate percentage of ED as applicable to you (as on the date of bid)	
6.		Indicate max. rate of ED as applicable for the quoted item.	
7.		Indicate concessional rate of VAT/Central Sales Tax as applicable to you.	
8.		Freight charges	
	(a)	Whether mentioned separately in the respective column of price bid.	
	(b)	If so, amount be indicated.	
9.		Mode of dispatch (Note:- Despatch by road is only acceptable).	
	(i)	Whether the tenderer agrees to supply through bank approved road transport.	
	(ii)	Whether the tenderer agrees for payment after receipt of material in good	

	condition.	
10.	Whether Income Tax Clearance certificate provided with the offer. Mention year for which this is enclosed.	
11.	Whether Sales Tax Clearance certificate provided with the offer. Mention year for which this is enclosed.	
12.	Delivery Schedule of the quoted quantities	
(i)	Details of quoted quantities:	
	Rabbit	
	Raccoon	
	Dog	
(ii)	Whether agreeable to Central Discom's delivery clause. If agreeable, please indicate commencement period from the date of receipt of order.	
(iii)	Indicate delivery after expiry of commencement time of various sizes.	
	Weasel	
	Rabbit	
	Dog	
13.	Whether you are agreeable to the Payment Terms specified in clause no.10 of Annexure-II of this tender specification. (No deviation is however acceptable to the Central Discom).	
14.	Whether you are agreeable to the Penalty specified in clause no.11 of Annexure-II of this tender specification. (No deviation is however acceptable to the Central Discom).	
15.	Whether you are agreeable to the Performance Security Deposit Clause specified in clause no.13 of Annexure-II of this tender specification. (No deviation is however acceptable to the Central Discom).	
16.	Whether you are agreeable for accepting Extension orders to the extent of 100% quantity of the original order as detailed in clause no.14 of Annexure-II of this tender specification or not.	
17.	Whether clause no.7 " Transit Risk " of Annexure-II of this tender specification is acceptable to you (Please note that responsibility to cover transit risk is entirely yours)	
18.	Whether you are agreeable to accept clause no.19 of Annexure-II regarding	

	“Inspection & Test Certificate” or not		
19.	Whether you are agreeable to accept extension orders from RE Co-operative Societies of the State on the same rate as of the order if placed against this tender specification and, on other terms & conditions to be mutually negotiated between you and RE Co-operative Societies of the State or not.		
20.	Whether you are agreeable to clause no.32 Random Testing of Annexure-II or not.		
21.	Please confirm that the rates quoted by you hold good for part quantities also i.e. for less quantities than quoted by you. (As order may be placed for less quantities also than quoted)		
22.	Discount		
	(a)	Whether any rebate/discount is offered	Yes/No
	(b)	If yes, whether the rebate is unconditional/conditional.	
	(c)	Rate/Amount of Rebate/Discount.	
	(d)	If conditional, state conditions.	
23.	In case any rebate is offered then, specify the same in detail		

Certified that information give above is true and correct and shall be binding upon us for this tender specification.

PLACE:

SIGNATURE OF TENDERER

NAME IN FULL

DATE

DESIGNATION/ STATUS IN THE FIRM

COMPANY SEAL

ANNEXURE– V

*PART “C”: TECHNICAL INFORMATION
(TO BE KEPT IN THE ENVELOPE PART-II,*

(COMMERCIAL/TECHICAL BID)”

- (i) Strike off, whichever is not applicable.
- (ii) Separate sheets should be used, wherever necessary.

S.No.	Particulars	Bidders response
1.	i	Whether material offered is exactly as per the technical specification.
	ii	If not, give details of technical deviation in Deviation Schedule.
2		Whether the copies of orders received during last 3 years from other State Electricity Board/NTPC & from other organizations/ Govt. Undertakings have been enclosed for similar materials with the offer or not.
3.		Whether performance certificate from such organizations regarding supplies enclosed.
4.		Whether pamphlets/technical details literature along with drawing etc. furnished with the offer
5.		Whether the tender agrees to furnish material test certificates in respect of chemical composition and physical properties, wherever required, from Govt./Govt. approved Lab. With each bath of supplies.
6.		Whether details of manufacturing process furnished with offer.
7.		Whether all testing facilities for conducting tests as per relevant ISS are available with your factory or not. If so, give details. In case non-availability of facilities, indicate approved Lab. available where tests are proposed to be conducted.
8.		Whether list of Plants & Machinery provided with the offer (This is necessary for those who have not made supplies to MPSEB/ Discoms against their order.
9.		Whether list of testing equipments & testing facilities provided with the offer. (This is necessary for new suppliers who have not made supplies to MPSEB/Discoms against their order.
10.		Whether Guaranteed Technical Particulars as per prescribed format furnished. (This is must for all bidders whether new or regular suppliers)
11.		Whether test certificates duly issued by the Govt. or Govt. Approved Lab. for the material quoted

	provided with the offer.	
12.	Whether you agree for inspection by Central Discom's representative prior to dispatch and bear the testing charges for all tests as per relevant standards.	
13.	ISI License/Marking Rights.	
	I. In case of having valid ISI License	
	(a) Whether you have marking rights as per relevant ISS for	
	i. ACSR conductor	
	ii. AAA Conductor	
	(b) Indicate validity of your ISI License for marking rights and enclose attested copy of ISI License in support of the same.	
	i. ACSR conductor	
	ii. AAA Conductor	
	II. In case of your ISI License is not valid on the date of opening of tender.	
	(a) Indicate its last validity and enclose attested copy of ISI License showing the validity.	
	(b) Whether applied for renewal for ISI License and if so, to enclose proof (This proof has to be an acknowledgement from the BIS regarding having received your application for renewal indicating period for which renewal is under consideration) and indicate following:	
	(i) Date on which application to BIS sent for renewal.	
	(ii) Letter no. & date of BIS acknowledging your application (enclose(iii) copy of the letter)	
	(iii) Whether you are continuing Marking your product with ISI Mark	
	ii Whether you agree for inspection by Central Discom's representative prior to despatch and bear the testing charges for all tests as per relevant standard.	Yes/No
	ACSR	
	AAA	
	(Please note that those who have ISI license should ensure to keep its validity beyond 6 months after date of opening of tender.	
14.	Whether you have rewinding machine available with you for transferring conductor from one Reel to another.	

15.	Whether details of manufacturing process furnished with the offer.	
-----	--	--

PLACE:

SIGNATURE OF TENDERER

NAME IN FULL

DATE

DESIGNATION/ STATUS IN THE FIRM

COMPANY SEAL

ANNEXURE-VI (A)*LIST OF CONSIGNEE AREA STORES*

Sr. No.	Name of Consignee	Name of Place to which material are to be dispatched	Concerned Sr. AO/RAO MPMKVVCL.....
01.	Addl. GM/DGM (Stores), MPMKVVCL	Bhopal	Bhopal
02.	Addl. GM/DGM (Stores), MPMKVVCL	Gwalior	Gwalior
03.	Addl. GM/DGM (Stores), MPMKVVCL	Guna	Guna

ANNEXURE-VI(B)*LIST OF SCHEDULED BANKS*

S.No.	Name of Sr. Accounts Officer/ Regional Accounts Officer	Name of Bank
1	BHOPAL	State Bank of India, Sultania Road, Bhopal
2	GWALIOR	State Bank of India, Jiwaji Chowk, Gwalior
3	GUNA	State Bank of India, Guna

SCHEDULE-A*TO BE KEPT IN THE ENVELOPE, PART-II COMMERCIAL/TECHNICAL BID*

Bidder's Name & Address:

To,

**The Chief General Manager(Pur),
O/o CMD, MPMKVV Co. Ltd.,
Nishtha Parisar, Bijlinagar,
Govindpura, BHOPAL-23**

Dear Sir,

Sub: - **Performance/ past experience.**

We furnish herewith the record of our performance and experience of quoted items as follows:-

Sl. No.	Purchaser's Name and Address	Order Number and Date placed during last 5 years	Size-wise Quantity of conductor ordered (Kms)	Quantity of conductor supplied (Kms)	Value of order (Rs. in Lakh)	Size-wise Qty. (Kms) pending for execution with delivery schedule	Reasons for non-completion of order.
1	2	3	4	5	6	7	8

PLACE:

DATE

SIGNATURE OF TENDERER

NAME IN FULL

DESIGNATION/ STATUS IN THE FIRM

COMPANY SEAL

Note: - Photocopy of the orders & performance reports received from other State Electricity Boards/ Govt. undertakings etc. should be enclosed.

SCHEDULE-B

TO BE KEPT IN THE ENVELOPE, PART-II COMMERCIAL/TECHNICAL BID

Bidder's Name & Address:

To,

**The Chief General Manager(Pur),
O/o CMD, MPMKVV Co. Ltd.,
Nishtha Parisar, Bijlinagar,
Govindpura, BHOPAL-23**

Dear Sir,

Sub: - **Commercial Deviations.**

The Commercial Deviations & variations to the specifications stipulated in the tender, for the item quoted are, as under:-

Sl. No.	Condition	Clause No. of tender document	Page No. of Tender document	Statement of deviations and variations
1	2	3	4	5

2. Except aforesaid deviations, the entire order, if placed, on us shall be executed in accordance with your specifications and any other conditions, variations/deviations etc. if found, elsewhere in our offer should not be given any considerations while finalizing the tender.

PLACE:

SIGNATURE OF TENDERER

NAME IN FULL

DATE

DESIGNATION/ STATUS IN THE FIRM

COMPANY SEAL

Note: - Continuation sheet of like size & format may be used as per bidder's requirements and shall be annexed to this schedule.

SCHEDULE-C

TO BE KEPT IN THE ENVELOPE, PART-II COMMERCIAL/TECHNICAL BID

Bidder's Name & Address:

To,

**The Chief General Manager(Pur),
O/o CMD, MPMKVV Co. Ltd.,
Nishtha Parisar, Bijlinagar,
Govindpura, BHOPAL-23**

Dear Sir,

Sub: - **Technical Deviations.**

The Technical Deviations & variations to the specifications stipulated in the tender, for the item quoted are, as under:-

Sl. No.	Condition	Clause No. of tender document	Page No. of Tender document	Statement of deviations and variations
1	2	3	4	5

2. Except aforesaid deviations, the entire order, if placed, on us shall be executed in accordance with your specifications and any other conditions, variations/deviations etc. if found, elsewhere in our offer should not be given any considerations while finalizing the tender.

PLACE:

DATE

SIGNATURE OF TENDERER

NAME IN FULL

DESIGNATION/ STATUS IN THE FIRM

COMPANY SEAL

Note: - Continuation sheet of like size & format may be used as per bidder's requirements and shall be annexed to this.

3	--do---	100 Sq.mm.	AAA Dog Conductor	4000.000 Kms.									
4		200 Sq. mm	Panther Conductor	90.000 Kms.									

NOTE:- (1) Quantities mentioned above are purely tentative and are subject to change at the discretion of the Central Discom to any extent.
(2) Bidders should quote atleast **20%** of the quantity given in Tender for the type of Conductor that they bid for.

PLACE:

DATE

SIGNATURE OF TENDERER
NAME IN FULL
DESIGNATION/ STATUS IN THE FIRM
COMPANY SEAL

SCHEDULE-E

(G.T.P.)

GUARANTEED TECHNICAL PARTICULARS OF CONDUCTORS

The information regarding GTP as below in respect of **AAA Conductors** may please be furnished in **separate sheets**.

Sl.No.	Technical Particulars (Guaranteed) Code Word and Actual Sectional Area	Weasel 34 Sqmm	Rabbit 55 Sqmm	Dog 100 Sqmm
(a)	Aluminum Alloy Wires			
(b)	Complete conductor (All Al. alloy) Stranding and wire dia			
2.	Stranded and wire dia			
(a)	Aluminium Alloy			
3.	Nominal Aluminum Area (Sq.mm)			
4.	Cross Sectional Area of Nominal Diameter wire (Sqmm)			
5.	Overall Diameter of conductor (mm)			
6.	Breaking load of conductor in KN			
7.	Minimum breaking load in KIN for			
(a)	Before stranding			
(b)	After stranding			
8.	Mass (Kg. per Km)			
(a)	Aluminum Ally Wire			
(b)	Conductor (AAAC) (Note:-No tolerance will be given on nominal wire diameter).			
9.	Resistance in Ohms per Km at 20°C			
10(a)	Continuous maximum current rating of conductor (Amps in still air at 45°C ambient temperature			
(b)	Temperature rise for the above current °C.			
11.	Purity ¹³ . of Aluminum Alloy			
12.	Maximum working tension for complete conductor KN			
13.	Modulus of Elasticity (GN/mm ²) of			
(a)	Aluminium			
(b)	Conductor			
14.	Co-efficient of linear expansion per degree centigrade			
(a)	Aluminum alloy			
(b)	Conductor			
15.	Standard length of each piece in Km			
16.	Tolerance, if any, on standard length.			
17.	No. of standard lengths in one reel.			

18.	Complete dominions of the reel in cms. & weight (Kg.). Attach drawing as per relevant SS.			
19.	Mass of conductor in one reel in Kg			
(a)	Minimum			
(b)	Maximum			
20.	Mass of the reel in Kg with protective laggings etc.			
21.	Gross Mass of the reel including mass of conductor with protection lagging etc. (in Kg.)			
22.	Standard according to which the conductor and drum will be manufactured			
(i)	Conductor			
(ii)	Drum			
23.	Other particulars, if any			

PLACE:

DATE

SIGNATURE OF TENDERER

NAME IN FULL

DESIGNATION/ STATUS IN THE FIRM

COMPANY SEAL

SCHEDULE –F**(A) Guaranteed Technical Particulars of ACSR Panther Conductor**

S.NO.	PARTICULARS	VALUE	
1	ACSR Panther Size	37/3.00	
2	Stranding and wire dia in mm		
a)	Aluminium	30/3.00	
b)	Steel	7/3.00	
3	Overall dia in mm	21.00	
4	Approximate total weight (kg/km)	976	
5	Approximate current carrying capacity in Amps (40°C Ambient and 30°C rise)	427	
6	When corrected to standard weight calculated D.C. resistance at 20° C (Ohm/km)	0.1390	
7	Rated tension strength in Kg	9127	
8	Lay Ratio		
i	Steel core for ACSR (Max)	28	
	Steel core for ACSR (Min)	13	
ii	Aluminium layers		
	12 wire layer (Max)	16	
	(Min)	10	
	18 wire layer (Max)	14	
	(Min)	10	
9	Modulus of elasticity in Kg/Cm ²	0.686 x 10 ⁶	
10	Co-efficient of linear expansion (per deg. C x 10 ⁻⁶)		
i)	Aluminium	17.80	11.5
ii)	HTGS Wire		
11	Strands		
a	Material	Steel	Aluminium
b.	Diameter in mm		
	Nominal	3.00	3.00
	Minimum	2.94	2.97
	Maximum	3.06	3.03
c	Cross sectional area for nominal diameter of wire in mm ²	7.069	7.069

d.	Mass in Kg/Km	55.18	19.11
e.	Minimum breaking load in KN		
	Before stranding	9.29	1.17
	After stranding	8.89	1.11
f	Maximum resistance at 20° C in Ohm/km	-	4.107
g	Zinc coating of steel wire		
	Minimum mass of coating	240 g/m ²	
	Number of one minute dip for precece test	3 nos.	
	Quality of zinc	Electrolytic high grade zinc – 99.95% purity as per IS : 209-1966.	
12.	Joints in strands		
	a) Steel	There shall be no joints except those in the base rod or wire before final drawing	
	b) Aluminium	No joint shall be permitted in the aluminium wires in the outermost layer of the ACSR Conductor. Joints in the individual aluminium wires in the inner layers are permitted in addition to those made in the base rod or wire before final drawing, but no two such joints shall be less than 15 M apart in the complete stranded conductor. Such joints shall be made by the cold pressure butt welding.	
	c) Ultimate tensile strength of joints in Aluminium	14.67 Kg/mm ²	

PLACE:

SIGNATURE OF TENDERER

NAME IN FULL

DATE

DESIGNATION/ STATUS IN THE FIRM

COMPANY SEAL

SCHEDULE –F*(B) Questionnaire of Guaranteed Technical Particulars of ACSR Panther Conductor*

S.No.	Description	Value
1.	Maker's Name	
(i)	Aluminium Rod	
(ii)	Steel Wire/Rods	
(iii)	Complete Conductor	
2.	Specification to which	
(i)	Raw materials pertain	
(ii)	Conductor to be manufactured	
3.	Particulars of Raw Materials	
(i)	Purity of Aluminium Rods (%)	
(ii)	Carbon in HTGS wire	
(iii)	Size of HTGS Wire	
4.	Particulars of ACSR Conductors	
(i)	Copper equivalent area (sq.mm.)	
(ii)	Stranding, lay & wire dia. (mm)	
(iii)	Nominal overall dia. (mm)	
(iv)	Approximate Total Weight (kg/km.)	
(a)	Steel Sections (kg.)	
(b)	Aluminium Section (kg.)	
(c)	ACSR Conductor (kg.)	
5.	Guaranteed ultimate tensile strength	
6.	Calculated D.C. resistance /km. of conductor when corrected to standard weight at 20 deg. C	
7.	Section Area of	
(i)	Aluminium Strand in sq.mm.	
(ii)	Steel Strand in sq.mm.	
(iii)	Total Sectional Area of Conductor in sq.mm.	
8.	Equivalent modulus of elasticity	
(a)	Aluminium (kg./cm ²)	
(b)	Steel (kg./cm ²)	

(c)	ACSR Conductor	
9.	Co-efficient of liner expansion	
(a)	Aluminium per deg. C	
(b)	Steel per deg. C	
(c)	ACSR Conductor per deg. C	
10.	Mean Lay Ratio	
(i)	First layer	
(ii)	Second layer	
(iii)	Third layer	
11. (i)	Continuous maximum current rating of conductor in Still air at 40 deg C ambient temperature (amp.)	
(ii)	Temperature rise for the above current (deg. C)	
12 (i)	Standard length of conductor (km.)	
(ii)	Tolerance in length (in %)	
(iii)(a)	Random length in % of ordered quantity	
(b)	Minimum length of random length (Meters)	
(c)	Net weight of conductor in one drum (as per standard length)	
(d)	Weight of an empty drum in Kg.	
13.	Particulars of strands	
(i)	Diameter	
(a)	Standard (mm)	
(b)	Maximum (mm)	
(c)	Minimum (mm)	
(ii)	Standard Sectional Area (sq.mm.)	
(iii)	Weight per km.	
	Standard (kg)	
	Maximum (kg)	
	Minimum (kg)	
(iv)	Minimum ultimate tensile strength (kg.)	
(v)	Minimum breaking load for wire of	
(a)	Standard dia (kg.)	
(b)	Minimum (kg)	

(vi)	Calculated resistance per km. at 20 deg. C when corrected to standard weight	
(a)	Standard (Ohm)	
(b)	Maximum (Ohm)	
(vii)	Final stress (kg./sq.mm.)	
(viii)	Zinc coating	
(a)	Uniformity of coating, number and duration of dips (according to Preece test)	
(b)	Minimum weight of coating (gms/sq.mm.)	
(c)	Purity of zinc and the standard to which it will conform	
14.	Minimum number of twists in 150mm length (withstanding capacity)	
15.	Dimensions of wooden drum.	
(a)	Diameter of flange without outer most lagging	
(b)	Diameter of flange with outer most lagging	
(c)	Outer diameter of barrel with circumferential battens	
(d)	Inner diameter of bush of the hub plate	
(e)	Outermost transverse width (end to end of flange)	
(f)	Inner Transverse width (between two inner checks of the flanges)	
(g)	Width of each ply of the flange	
(h)	Number of ply in each flange	
(i)	Diameter of mild steel tie rod in mm.	
(j)	Number of tie rods	
(k)	Size of packing washer of tie rods	
(l)	Size of hub plates	
(m)	Size of bolts of Hub plate	
(n)	Thickness and height of outermost octagonal reinforcement ply.	
(o)	Barrel batten size.	
(p)	Flange lagging size	
(q)	Size of barrel supports-width of each ply	
(r)	Gap to be maintained between and inside surface of external lagging in mm	
(s)	Size of nails	

(t)	Depth of counter sinking of nails inside the wood	
16.	Diameter of steel drums	
(a)	Diameter of flange without outermost lagging	
(b)	Diameter of flange with outermost lagging	
(c)	Outer diameter of barrel	
(d)	Inner diameter of spindle hole	
(e)	Outermost transverse width (end to end of flange)	
(f)	Inner Transverse width (between two inner checks of the flanges)	
(g)	Width of the flange	
(h)	Diameter of tie rod in mm.	
(i)	Number of tie rods	
(j)	Size of packing washer of tie rods	
(k)	Size of bolts	
(l)	Gap to be maintained between outermost layer of conductor and inside surface of external lagging in mm.	
17.	Type of paper and water proof material to be use for packing the conductor in drums	
18.	Whether manufacturing facility for 37 strand ACSR is available with you	
19.	Any other particulars which the tenderer may wish to give	

PLACE:

SIGNATURE OF TENDERER

NAME IN FULL

DATE

DESIGNATION/ STATUS IN THE FIRM

COMPANY SEAL

SCHEDULE-G*SOURCE OF MATERIAL AND PLACES OF MANUFACTURE, TESTING
& INSPECTION*

S.No.	Item	Source of procurement of material	Place of manufacture	Place of testing and inspection
1.	All Aluminum Alloy Conductor			
2.	PANTHER Conductor			

PLACE:

SIGNATURE OF TENDERER

NAME IN FULL

DATE

DESIGNATION/ STATUS IN THE FIRM

COMPANY SEAL

UNDERTAKING

I,Sole proprietor/ partner of M/s. is giving undertaking that details given are correct to the best of my knowledge and I agree to abide by all your Tender/Order terms and conditions.

PLACE:

DATE

SIGNATURE OF TENDERER

NAME IN FULL

DESIGNATION/ STATUS IN THE FIRM

COMPANY SEAL

Declaration by the Tenderer- I

We confirm that no Service or retired Officer(s) or employee(s) of the Central Discom are partner(s) of the firm having share or have any interest in the firm. It is also confirmed that the firm has no relationship with any / serving / retired officer(s) or employee(s) of the CENTRAL DISCOM.

PLACE:

SIGNATURE OF TENDERER

NAME IN FULL

DATE

DESIGNATION/ STATUS IN THE FIRM

COMPANY SEAL

Declaration by the Tenderer - II

(To be submitted on non-judicial stamp paper worth Rs.100/-)

I sole proprietor / partner / of
M/s,..... under take that I am not interested as a proprietor and/or partner
and/or in any other party/firm, which is participating in Tender No. 245 of Central
Discom due for opening on **27.02.12** for procurement of 'ISI' mark AAA & ACSR Panther
Conductors.

PLACE:

DATE

SIGNATURE OF TENDERER

NAME IN FULL

DESIGNATION/ STATUS IN THE FIRM

COMPANY SEAL

ANNEXURE - VII

*UNDERTAKING BY M/S FOR
ACCEPTING PAYMENT THROUGH "DIRECT CREDIT" INTO THEIR BANK ACCOUNT*

THIS DEED OF UNDERTAKING executed this of Two Thousand and Eleven by ----- , a Company/ Firm incorporated under the laws of Companies Act 1956 , and having its Registered Office at (hereinafter called the "Supplier/ Contractor" which expression shall include its successors, executors and permitted assigns) in favour of Madhya Pradesh Madhya kshetra Vidyut Vitran Company Limited a Company incorporated under the Companies Act, 1956 and having its Registered Office at Nishtha Parisar, Bijalee Nagar, Govindpura ,Bhopal (hereinafter called the "MPMKVVCL" which expression shall include its successors, executors and permitted assigns).

WHEREAS the "Supplier/Contractor" received Purchase Orders /Works Orders/ Contracts Orders, hereinafter called "Order" from MPMKVVCL and that the "supplier/Contractor" has agreed to supply goods/ services to the "MPMKVVCL" according to various orders awarded on the former by the latter and pursuant to the terms and conditions of these "Order" the payments against "Bills" are released by "MPMKVVCL" in routine from time to time. Also, in addition to the present "Orders" the "Supplier/ Contractor" generally has or may have similar ongoing business transactions with the "MPMKVVCL".

AND WHEREAS, the "Direct Credit" is a facility being offered by MPMKVVCL as per the Terms of the undertaking and MPMKVVCL is within its rights to deny or withdraw if the "supplier / Contractor" is found to be acting in violation of the terms of service under taking.

AND WHEREAS among the various prevalent modes of effecting payments, the mode of "Direct Credit" into contractors specified bank account through system like Banks' RGS/NEFT mode is considered to be a convenient and efficient mode of payment, subject to the convenience and practicality of the same at "MPMKVVCL" end, and the "supplier/ Contractor" desires for release of payment, against the bills submitted to "MPMKVVCL" through this mode.

And whereas, the "Supplier/Contractor" agrees to avail the "Direct Credit" channel for receiving sums due against the bills and that the "Supplier/Contractor" accepts such terms regulations, conditions, stipulations laid down by MPMKVVCL from time to time for the purpose.

1. That the "Direct Credit" being offered shall be extended to the "supplier/Contractor" on whom a valid order has been placed by the MPMKVVCL and the "bills" of whom shall be directly credited to the bank account held in the name and title of "Supplier/Contractor", as per the request of he Supplier /Contractor in this deed of undertaking.

2. MPMKVVCL presupposes, and the same is acknowledged by the "Supplier/Contractor", that the MPMKVVCL shall rely upon all electronic communications, orders or messages to Its banker for Direct Credit" facility office by MPMKVVCL.

3. And whereas, the "Supplier/ Contractor" agrees to execute from time to time necessary agreement form(s), authority latter(s) and any other related documents for this purpose, for availing the "Direct Credit" facility offered by "MPMKVVCL".

4. And the MPMKVVCL shall not be liable for any direct, indirect or consequential loss or damage sustained by the "Supplier/ Contractor" by any direct or indirect use of or reliance on the electronic communication, orders or messages. MPMKVVCL shall also not be liable to "Supplier/ Contractor" for any loss or damage caused arising in connection with the "Direct Credit" facility and/ or this Agreement, on account of interruption or stoppage of "Direct Credit" facility arising on account of circumstances not attributable to MPMKVVCL or beyond control of the MPMKVVCL or as contained is other clauses of this agreement.

5. That although MPMKVCL shall strive to maintain the availability of facility to the "Supplier/Contractor" the same is not guaranteed by MPMKVCL and MPMKVCL does not accept any responsibility for not effecting or not completing any transaction entered through the "Direct Credit" facility due to any break-down in computer hardware of software systems including any break-down on internet services or any other event.

6. Provided that MPMKVCL shall not withhold payment to the "Supplier/Contractor" without sufficient cause, which shall be informed by MPMKVCL to the "supplier/Contractor" on the finding of such sufficient cause.

7. And that, MPMKVCL reserves the right to modify, change, add or cancel the facility of "Direct Credit" offered, the changes will be notified to the "Supplier/Contractor".

8. That, notwithstanding the conditions in Clause 1 to 7 stipulated above, the MPMKVCL reserves the right to withdraw the facility of "Direct Credit" anytime without notice and without assigning any reason whatsoever.

Obligations of the "supplier /Contractor"

1. The "Supplier/Contractor" agrees to pay charges/fees, if any, for the "Direct Credit" facility as may be charged by the bankers of MPMKVCL prescribed from time to time.

2. In support of above information we, the "Supplier/Contractor" hereby enclose a blank cancelled cheque indicating the ECS Number of our branch along with deed.

3. The "Supplier/Contractor" hereby undertakes and agrees to protect MPMKVCL against all claims and liabilities arising directly or indirectly due to any delay in payment.

4. Any dispute between "Supplier/Contractor" and the MPMKVCL with regard to the transactions done through "Direct Credit" facility will be subject to the jurisdiction of the competent Courts at Bhopal and will be governed by Indian Laws in force from time to time.

5. By signing the undertaking the "Supplier/Contractor" hereby confirms that the Terms of the facility herein contained shall constitute the agreement between MPMKVCL and the Supplier/Contractor" for the use of the "Direct Credit" facility.

6. Authorized signatory confirms that he/they is /are duly authorized by the "Supplier /Contractor" to execute this agreement, through the resolution passed by the Board of Directors, copy of which is annexed.

NOW THEREFORE THIS UNDERTAKING WITNESSTH as under:

1.0 In view of evident convenience and efficiency accruable due to such mode of payment we "Supplier/Contractor" do hereby declare that tender our consent to bear the bank charges or any other charges associated with the operation of the said mode of payment i.e. the mode of "Direct Credit" into "Supplier/ Contractors" designated bank account through Bank's appropriate system e.g. RTGS/NEFT, online Internet Banking etc. The "MPMKVCL" shall be at liberty to deduct or recover such charges from us in any manner including deduction from our bills, claims, deposits, etc., even though not spelt out in the "Order".

2.0 We the "Supplier/Contractor" further declare that for the purpose of facilitating such payments, we tender following particulars of our bank account:

Name of Company/ Firm (“Supplier/Contractor”)	
Income Tax Permanent Account Number	
Name of Bank	
Name and title of the Account	
Name and address of the Bank Branch	
Contractor’s Bank Account No. In Which payments is to be transferred.	
ECS Code as detailed in the “Supplier/ Contractor” Cheque Book.	
IFSC code of the Band Branch	
SWIFT code of Bank Branch	
IBAN code of Bank Branch	

3.0 Without affecting the generally and total responsibility in terms of this Deed of Undertaking, We “Supplier/Contractors” hereby undertake to immediately provide any other information/particulars required by the “MPMKVVCL” in this regard in the form of fresh Undertaking. We also undertake to inform any changes in these particulars immediately to the MPMKVVCL in the form of a fresh Undertaking, and agree to the condition that any payment due on that day shall not be released till the changes are duly accepted and implemented in MPMKVVCL “Direct Credit” System or as may be advised by the MPMKVVCL in this regard.

4.0 We, the “Supplier/Contractors” further declare that credit of monies, with or without deduction of Bank charges into our above-mentioned accounts shall be comprehensive and complete legal discharge of MPMKVVCL’s payment liability to the “Supplier/Contractor” in respect of bill/claim to which the payments relates to, so far as the mode of payments is concerned.

5.0 We further declare that we fully understand that the exercise of mode of payment as mentioned above is at the sole discretion of the “MPMKVVCL”, and “MPMKVVCL” is at liberty to make due payments with the existing or any other prevalent mode of payment as per its convenience and practical consideration.

6.0 Changes, if any ,of the information given in this document, constitution of the firm etc. shall be intimated by the “Supplier /Contractor” to MPMKVVCL on immediate basis, on a similar undertaking and that “MPMKVVCL” shall not consider any subsequent changes without similar undertaking by the “Supplier/Contractor”.

“MPMKVVCL” will not be held accountable for any wrong payment in case the “Supplier/ Contractor” falls to intimate timely regarding the above charge.

IN WITNESS WHEREOF/THEREOF the Contractor have through their Authorized Representatives executed these presents and affixed Common seal /seals of their respective Companies /firms on the day, month and year first above mentioned.

Further, we being the corporate entity i.e. A Company constituted under the Companies Act, 1956, this undertaking is also supported by a Board resolution attached herewith. (Applicable in case of Companies / any other authority in case of Firm Proprietary Concern Society etc)

WITNESSES

1.

(Signature of Authorized Representative)

(Name in Block Letter)
(Address)

Name:
Designation:
Common Seal of Company/Seal of Firm

2.

(Name in Block Letter)
(Address)

[Note: - The Deed of Undertaking shall be attested by Notary Public of the place of the executants(s)].