

**PRASAR BHARATI (BCI)
O/O CHIEF ENGINEER (WZ)
ALL INDIA RADIO & DOORDARSHAN
DOORDARSHAN KENDRA COMPLEX
9TH FLOOR, P.B. MARG, WORLI
MUMBAI-400 030.**

GRAM: AIRWORKS BOMBAY

TEL : 24928773

File No: ADG(E-WZ)/SITC OF REPL. OF HT PANEL/ DDK AHMEDABAD/TVP//2011-12 Date:21.12.2011

NOTICE INVITING TENDER

Tenders are hereby invited on behalf of President of India for Supply, Installation, Testing and Commissioning of Replacement of HT Panel at Doordarshan Kendra Ahmedabad at an estimated cost of **Rs. 12 Lakh** only:-

1. **Replacement of HT Panel at Doordarshan Kendra Ahmedabad** as per details and specification given in the annexure enclosed herewith is to be supplied ,installed & commissioned at **DDK Ahmedabad in west zone.**
2. Tender documents consisting of Technical & financial bid ,schedule of supply and work & set of conditions of contract can be had from O/o The Additional Director General (ENGG.) (WZ), All India Radio & Doordarshan, Old CGO Building,3rd Floor, M.K.Road Mumbai 400020, between 1100 hours and 1600 hours every day except on Saturdays, Sundays and public holidays on payment of prescribed cost of tender.
3. Tenders should be placed in lac-sealed covers with the name of work written on the envelope. Sealed tenders will be received by this office up to **1500 hrs on 01.02.2012** and opened on the same day at **1600 hrs.** by the authorized representative of The Additional Director General (Engg.)(WZ) in presence of such tenderer who may choose to be present.
4. The tender document can be obtained from the Cashier ,O/o The Additional Director General (Engg.)(WZ), All India Radio & Doordarshan, 101,3rd Floor, Old CGO Building,M.K. Road,Mumbai -400020, on payment of Rs. 1000/- in cash/demand draft drawn in favour of The Additional Director General (Engg.)(WZ), All India Radio & Doordarshan ,Mumbai up to **30/01/2012.**
5. Tenderers should quote in figures as well as in words the rates and amounts tendered by them. When a tenderer signs a tender in an Indian language, the total amount tendered should also be written in the same language. While submitting the tender all the tenderers are required to affix their signature with rubber stamp at bottom of all pages.
6. Earnest money amounting to **Rs.24,000/- (Rupees Twenty Four Thousand Only)**in the form of Demand Draft drawn on any nationalized bank in Mumbai in favour of The Additional Director General (Engg.)(WZ) AIR & Doordarshan, Mumbai must accompany the tender.
7. Income tax clearance certificate must also be sent along with the tender, without which the tender is liable to rejection.
8. In addition to the above, the tenderer whose tender is accepted will be required to furnish security deposit for the due fulfillment of the contract consisting of 10% of the tendered amount for the work. The S.D. may be deposited in form of Demand Draft drawn on a nationalized bank or Bank Guarantee in favour of The Additional Director General (Engg.)(WZ), AIR & TV Mumbai, within ten days of award of work, failing which the work order will be revoked.
9. The tender is invited in two bid form i.e. Technical and Financial . Tenderer shall submit their offer in two parts as 'TECHNICAL' and 'FINANCIAL' Both the bids shall be submitted in two separate lac-sealed covers clearly marked as 'Technical' and 'Financial' . The technical bid will be opened on the due date mentioned above. The Financial bid (as format given in Annexure B-2 ,Memorandum page 8 &9 of tender document)of all the tenderer will be taken together with the technical bid and will be opened only for such tenderer who qualify in the technical bidding. Date of opening of the Financial bids will be intimated to the qualified tenderer.

- 10 Tenderers should submit proof of experience in similar works preferably in All India Radio & Doordarshan and information about past experience as well as details of organizational set-up, professional qualification of senior partners and network of after sales-services.
- 11 Tenderer must submit / furnish information against each item asked in Technical Data of specifications.
- 12 Tenderer are requested to enclose the Check list duly filled in as per proforma attached herewith. Incomplete Check list or non compliance may result in rejection of the tender.
- 13 All the works shall be carried out as per the conditions detailed in enclosure to the contract Document.
- 14 Canvassing in connection with tender is strictly prohibited and the tenders submitted by tenderers who resort to canvassing may be rejected.
- 15 The acceptance of a tender will rest with The Additional Director General (Engg.)(WZ), All India Radio & Doordarshan Mumbai who does not bind himself to accept the lowest tender and reserves to himself the authority to reject any or all the tenders received without assignment of any reason.
- 16 Tenders, which do not fulfill all or any of the above conditions or are incomplete in any respect, are liable to summary rejection.
- 17 Tendres are advised to visit the site before submitting the tender for assessment of requirements, additions or deletion for efficient working of system.

(R.SEKAR)
Dy. Director (Engg.)
O/o The Additional Director General (Engg.)(WZ)
AIR & Doordarshan,
MUMBAI.
FOR & ON BEHALF OF THE PRESIDENT OF INDIA

Encl:

- | | | |
|-----------------|---|---------------------------------------|
| 1. Annexure A | : | Special Terms & Conditions |
| 2. Annexure B 1 | : | Tender for Technical Bid |
| 3. Annexure B 2 | : | Tender for Financial Bid |
| 4. Annexure C | : | Conditions for Contract. |
| 5. Annexure D | : | Checklist for Eligibility of tenderer |
| 6. Annexure E | : | Technical specification of HT Panel |
| 7. Annexure F | : | Bill of Material |
| 8. Annexure G | : | Information to be given by Tenderer |

ANNEXURE 'A'

SPECIAL TERMS AND CONDITIONS

1. PRICE & STATUTORY DUTIES :

Prices should be firm and inclusive of freight charges to site at Ahmedabad in West Zone , transit insurance and excise duty, work contract tax & any other duty or tax levied by any agency . Component of excise duty and all other taxes should be indicated separately.

2. WORK CONTRACT TAX :

In case works contract tax is levied by the concern State Government on this work contract, the same shall be deducted from the bills.

3. VALIDITY OF TENDER:

The tendered prices should be valid for 12 months from the date of opening.

4. SECURITY DEPOSIT:

The firm shall give security deposit equivalent to the 10 % of the contract value at the time of signing the contract. The security deposit will remain valid till the firm's commitment under guarantee/warranty clause is discharged fully to the satisfaction of the purchaser. Security Deposit in the form of bank guarantee will also be accepted provided the guarantee is as per proforma provided by this office.

5. TIME FOR COMPLETION OF WORK:

The entire work is to be completed within 4 months from the date of work order. The urgency of Supply/Work will have to be maintained.

6. PLACE OF WORK:

Doordarshan Kendra , Ahmedabad in west zone.

7. PENALTY FOR DELAY:

If the contractor is unable to complete the work of **SITC Replacement of HT OCB Panel at Doordarshan Kendra Ahmedabad** in west zone, within the stipulated period limit, the purchaser, may at his discretion allow additional time as he may consider justified with or without altering the terms and conditions of work order. In the event of failure of the contractor to complete the above work within the stipulated or extended time, the purchaser has right to impose penalty of Rs.500/- per week per lakh subject to a maximum of 5% of Contract value.

8. TERMS OF DELIVERY:

All the materials shall be delivered free at site. The firm will arrange to receive all his materials at site. The purchaser shall, however, provide storage space to the contractor for storing the materials on the clear understanding that such storage is being arranged at the risk of the contractor.

9. INSPECTION:

I. INITIAL INSPECTION:

A. Inspecting authority :-

The Additional Director General (Engg.)(WZ)
All India Radio & Doordarshan,
Doordarshan Kendra Complex
9th Floor, P.B. Marg, Worli
MUMBAI-400 030. or
His authorized representatives

B. Inspecting Officer

Nominee of The Additional Director General (Engg.)(WZ) for inspection at Contractor's factory and at works site during progress and final test. If the Inspecting Authority finds during pre-inspection that the consignment is not as per specifications, the consignment is liable to rejection.

The contractor would approach the inspecting authority for inspection two weeks in advance of the actual date of inspection.

II. FINAL INSPECTION:

Installation officer will carry out final inspection, after completing the installation. The contractor has to fulfill the conditions mentioned in Condition of Contract. The **HT VCB Panel** will be accepted only after meeting the specifications / conditions stipulated in the work contract document.

10. PAYMENT TERMS:

1. 90% cost of work will be paid after supply of the **HT VCB Panel** at Site in good condition after due inspection .
2. Final 10% cost of the work will be paid after successful Installation, Testing & commissioning of the system & completion of all works in all respect by the tenderer.

11. GUARANTEE AND WARRANTEE:

The guarantee period shall be **24 months** from the date of completion of work or handing over of the system after testing whichever is latter. During this period, the contractor shall repair/replace free of charge any part that becomes defective due to faulty material/workmanship.

12. TERMINATION OF CONTRACT:

In the event of undue delay on the part of the contractor for the work of **SITC of HT VCB Panel** at Doordarshan Kendra , Ahmedabad . The Additional Director General (Engg.)(WZ) has the right to terminate the contract at the cost and risk of the contractor.

13. FORCE MAJOURE CLAUSE:

If at any time during the continuance of this contract the performance in whole or in part by either party of an obligation under this contract shall be prevented or delayed by reasons of war, hostility acts of public enemy, civil commotion, sabotage, fires, floods, explosions, epidemic, quarantine restrictions, strikes, lockouts or acts of god (hereinafter referred to as events) and provided notice of happening of any such eventuality is given by either party to the other within 21 days from the date of occurrence thereof neither party shall reasons of such event be entitled to terminate this contract nor shall either party have claims for damages against the other in respect of such non performance or delay in performance and delivery and the contract shall be resumed as soon as practicable after such events have come to an end or ceased to exist and the decision of The Additional Director General (Engg.)(WZ) ,AIR & DD,Mumbai-30 as to whether the deliveries have been so resumed or not shall be final and conclusive.

14. OTHER CONDITIONS:

In addition to the condition mentioned above the contract would also be governed by the following conditions:-

If the stores tendered for the inspection during the fag end of the delivery period are not found acceptable after carrying out inspection, the purchaser is entitled to cancel the contract in respect of the contractor. If however, the stores tendered for inspection are found acceptable, the purchaser may grant an extension of the delivery period subject to the following conditions :-

- a) That the purchaser reserves the right to recover from the contractor liquidated damage on the stores which the contractor has to deliver within the delivery period fixed for delivery.
- b) That no increase in price on account of any of the statutory increase in or fresh imposition of custom duty, excise duty livable in respect of the stores specified in the acceptance of the tender shall be on such of the said stores admissible as are delivered after the date of delivery stipulated in the acceptance of tender.
- c) That notwithstanding any stipulation in the contract for increase in price on any other ground, no such increase which takes place after the date of delivery stipulated in the acceptance of tender shall be admissible on such delivery period stipulated in accepted tender..
- d) But nevertheless, the purchaser shall be entitled to the benefit of any decrease in price on account of reduction in or remission of custom duty, sales tax or on account of any other tax or duty or on any other ground stipulated in the price variation clause which takes place after the expiry of the delivery stipulated in the acceptance of tender.
- e) Contractor shall not dispatch the stores till such time an extension in terms of para-a to d of clause 14 above is granted by the purchaser and accepted by the supplier. If the stores are dispatched by the supplier before an amendment regarding extension is issued by the purchaser and same are accepted by the consignee the acceptance of the stores shall be deemed to the subject to the conditions a to d set out in paragraph above.
- f) The tools and equipments required for carrying out this work will not be arranged by All India Radio & Doordarshan . The contractor shall arrange at his own risk & cost necessary tools and labour following local rules.
- g) The Additional Director General (Engg.)(WZ)/ Director (Engg.) has full power to require the removal, from the premises, of all materials which in his opinion are not in accordance with the specifications and in case of default, The Additional Director General (Engg.)(WZ) / Director (Engg.) to be at liberty to employ other person or remove the same without being answerable or accountable for any loss or damage that may happen or arise and have the full powers to require other proper materials to be substituted there and in case of default The Additional Director General (Engg.)(WZ)/ Director (Engg.) may ask the same to be supplied and all costs which may attend such removal and substitution are to be borne by the contractor.
- h) If in the opinion of The Additional Director General (Engg.)(WZ)/ Director (Engg.) any of the works have been executed with improper materials or defective workmanship the contractor/s is/ are when required by the Additional Director General (Engg.)(WZ) / Director (Engg.) forthwith to re-execute the same and to substitute proper materials and workmanship and in case of default of the contractor/s in doing so within a week the Additional Director General (Engg.)(WZ) / Director (Engg.) is to have full power to employ other persons to re-execute the work and the cost thereof shall be borne by the contractor/s.
- i) After completion of the work the contractor should obtain the necessary certificates from the representatives of The Additional Director General (Engg.)(WZ) & shall hand over the same to The Additional Director General (Engg.)(WZ)/ Director (Engg.). Final adjustment of bills will not be made if the certificate is not handed over.
- j) The installation should be carried out as per Doordarshan Authorities instructions and as laid down by the factory rules. The work should not hinder in any way of normal transmission of DDK Ahmedabad.

ANNEXURE – ‘B-1’
TENDER FOR WORKS
TECHNICAL BID

1 . A Para by Para compliance statement in the form of the table given below describing DD Specification (Please refer Annexure “E”)for the manufacturers quoted items must be attached with the offer by the manufacturer(OEM) on the letter duly signed by OEM and countersigned by the agent or representative of the manufacture with relevant supporting literature ,manuals etc. The compliance statement is to be submitted with the technical bid for all technical as well as general specification for all the **Para 1-10** enumerated in the specification annexed at Annexure “E” This is mandatory & essential requirement . Any offer without compliance statement as detailed above shall be rejected in the first instance without making any reference to the firm or the representative or manufacturer. **The compliance statement from the manufacturer should be in the following format :-**

Para NO & D.D Specification	DD Specs Value & detail	Parametric value of quoted system	Compliance or Deviation	Page No of The bid where this information can be found	Remark
(1)	(2)	(3)	(4)	(5)	(6)

Mere writing on the compliance statement that system complies with the required parameter will not be accepted as compliance .The manufacturer(OEM) has to substantiate the same with either technical manual of the equipment. The compliance is to be submitted for complete bill of material including optional items.

2. A detailed ,complete **Bill of material** shall be attached with the technical offer leaving price column blank. This bill will be exactly same which has been given in financial offer Make .model and quantity of each item must be mentioned.
3. Documentation : One set of Technical Manual s& datasheets must be supplied with the Equipment. One set must be attached with the offer.

MEMORANDUM

A. GENERAL INSTRUCTION

SUPPLY, INSTALLATION, TESTING AND COMMISSIONING OF HT VCB PANEL AT DOORDARSHAN KENDRA AHMEDABAD.

B. EARNEST MONEY DEPOSIT :Rs.24,000/-

C. SECURITY DEPOSIT MONEY :10% OF TENDERED AMOUNT

D. LOCATION : **DOORDARSHAN KENDRA AHMEDABAD**

TIME ALLOWED : 120 days from the date of issue of the order.

Should this tender be accepted, I / We hereby agree to abide by and fulfill all the terms and provisions of the said conditions of contract including special conditions annexed herewith to so far as applicable, or in default thereof to forfeit and pay to the President of India or his successors in Office the sum of money mentioned in the said conditions without prejudice to any other right-of the President. The sum of **Rs 24,000/-(RUPEES TWENTY FOUR THOUSAND ONLY)** being the full value of EMD is to be absolutely forfeited to the said President or his successor in office without prejudice to any other rights or remedies of the said President or his successors in Office. Should I / We fail to commence the work specified in the above memo or should I / We do not deposit the full amount of Security Deposit specified in the above memorandum in accordance with the clause of the said conditions of contract, the said sum shall be retained by Government as on account of such security deposit as aforesaid.

The terms and conditions of the agreement have been explained to me / us. I /We clearly understand them.

Dated the _____ date of _____2011

Witness :

Address :

Occupation :

SIGNATURE OF THE TENDERER WITH SEAL

ANNEXURE – ‘B-2’
TENDER FOR WORKS
FINANACIAL BID

Supply ,Installation ,Testing and Commissioning of HT VCB PANEL at Doordarshan Kendra , Ahmedabad

i) Make & type of each item to be indicated.

ii) Indenter reserves the right to choose & decide the quantity of equipments at the time of finalizing the order.

<u>Sl. No.</u>	<u>Description of Work</u>	<u>Qty.</u>	<u>Unit</u>	<u>Rate</u>	<u>Amount</u>
	<u>A. SUPPLY</u>				
1	Supply of 11 KV / 630 Amp , 50 Hz, 3 Phase HT VCB Panel as per , IS 13118/IEC 60056/IEC 62271-100. Make /Model-----	3	Nos		
2	Supply of 95 Sq.mm XLPE Armored 3 core aluminum cable.	45	Mtr		
	<u>B. WORKS</u>				
1	Installation & testing of HT VCB Panel including miscellaneous civil work .	1	No.		
	a) Supply of Instruction booklet / Manuals & drawings	2	Nos		
2	Providing 2 nos of body earthing for HT Panel of copper plate of 600x600x 3.15mm and copper strip of 25 x 3 mm.	2	Nos		
3	Laying of HT Cable (3 nos. of 95 sq.mm XLPE insulated armored HT cable) from EB HT room to the Kendra HT room and to the new HT Panel / EB Termination .(Approx length 45 mtrs with lugs at both ends) Rates should be quoted for per running meter.	1	Job		
4	Integration of HT Panel with existing 750 KVA HT Transformers (2 Nos) at site.	1	Job		
5	Getting CEA approval and energizing the new installation.	1	Job		
6	Any other item necessary for completion of work.				
	TOTAL				
	Excise Duty (If any)				
	Sales Tax (If any)				
	Service Tax (If any)				
	Octroi Duty / Entry Tax (If any)				
	Any other Charges				
	GRAND TOTAL				
	Rupees:				

TOTAL (IN WORDS)_____

MEMORANDUM

I/ WE HEREBY TENDER FOR EXECUTION, FOR THE PRESIDENT OF INDIA, OF THE WORK SPECIFIED IN THE SCHEDULE OF WORK WITHIN THE TIME SPECIFIED FOR THE SUM OF (In words) Rupees _____
_____ Rupees _____(in numerals) ONLY AND IN ACCORDANCE, IN ALL RESPECTS, WITH THE SPECIFICATIONS, DRAWINGS AND INSTRUCTION IN WRITING REFERRED TO IN THE CONDITIONS OF CONTRACT DETAILED IN ANNEXURES OF THE TENDER FORM AND WITH SUCH MATERIALS AS ARE REQUIRED AND SPECIFIED.

SIGNATURE OF THE TENDERER WITH SEAL

ANNEXURE – ‘C’

CONDITION OF CONTRACT

A. GENERAL CONDITIONS

1. **Interpretation clause :-** The president means the President of India and his successors. The Additional Director General (Engg.)(WZ) / Director Engineering means the Additional Director General (Engg.)(WZ) / Director Engineering for the time being of the zone concerned.

The expression “Works” where used in these conditions shall, unless there be something either in the subject or context repugnant to such constructions, be construed and taken to mean the works by or by virtue of the contract contracted to be executed whether temporary or permanent and whether original, altered, substituted to additional. Words importing the singular number only include the plural number and vice-versa.

2. The person whose tender may be accepted (herein after called the contractor) shall within ten days of the receipt by him of the notification of the acceptance of his tender, deposit with the Additional Director General (Engg.)(WZ) in cash or demand draft drawn on any nationalized bank favoring The Additional Director General (Engg.)(WZ), All India Radio & Doordarshan, Mumbai a sum sufficient with the amount of the earnest money deposited by him with his tender to make up the full security deposits specified in the tender. All compensation or other sums of money payable by the contractor to Government under the terms of his contract or otherwise may be deducted from, or paid by the sale of a sufficient part of this security deposit, or from the interest arising there from or from any sums which may be due or may become due to the contractor by government on any account whatsoever and in the event of his security deposit being reduced by the reason any such deduction or sale as aforesaid, the contractor shall within ten days thereafter make good in cash or government securities endorsed as aforesaid any sum or sums which have been deducted from, or raised by the sale of this security or any part thereof.

3. The contractor is to provide everything of every sort and kind which may be necessary and requisite for the due and proper execution of the several works included in the contract whether original or altered according to the intent and meaning of the drawings and specifications taken together which are to be signed by the Additional Director General (Engg.)(WZ) / Director Engineering and contractor whether the same may or may not be particularly described in the specification or shown on the drawings, provided, that the same are reasonable to be inferred there from and in case of any discrepancy between the drawings and the specifications The Additional Director General (Engg.)(WZ) / Director Engineering is to decide which shall be followed. However the Additional Director General (Engg.)(WZ) / Director Engineering may at his option, on the request of the contractor provide with such tools or accessories as may be at his disposal and can be conveniently loaned to him. If the Additional Director General (Engg.)(WZ) / Director Engineering agrees to provide the contractor with any tools or accessories, the contractor shall deposit as condition precedent a refundable security to the extent of full value of the materials so be loaned to him. The decision of the Additional Director General (Engg.)(WZ) / Director Engineering as to the value of the materials shall be final and binding. The contractor shall be responsible for collecting these tools or accessories from such office, as the Additional Director General (Engg.)(WZ) / Director Engineering may specify, and shall hold the same at his risk and be responsible for and make good their loss or damage due to any cause whatsoever and may ensure return of the same at his cost in as good as condition as these were loaned, fair wear and tear excluded, to such place as may be specified by the Additional Director General (Engg.)(WZ) / Director Engineering. The security amount shall be arranged to be refunded to the contractor by the Additional Director General (Engg.)(WZ) / Director Engineering on return, in good condition, of the loaned items.

The contractor shall also provide all necessary fencing and lights required to protect the public from accident, and shall be bound to bear the expenses of defense of every suit, action or other proceedings at law that may be brought by any person for injury sustained owing to neglect of the above precautions, and to pay and damages and costs which may awarded in any such suit, action or proceedings to any such person or which may, with the consent of the contractor be paid to compromise any claim by any such person.

4. The contractor is to set out the whole of the works in conjunction with an officer to be deputed by the Additional Director General (Engg.)(WZ) / Director Engineering, and during the progress of the works to amend on the requisition of the Additional Director General (Engg.)(WZ) / Director Engineering any errors which may arise therein and provide all the necessary labour and materials for so doing. The contractor is to provide all plant, labour and materials which may be necessary and requisite for the works. All materials and workmanship are to be the best of their respective kinds. The contractor is to leave the works in all respects clean and perfect at the completion thereof. All materials supplied to the contractor and found surplus after the completion of the work shall be returned to the Additional Director General (Engg.)(WZ) / Director Engineering in good condition.
5. Complete copies of the drawings and specification signed by the Additional Director General (Engg.)(WZ) / Director Engineering shall be furnished to the contractor for his own use, and the same of copies thereof shall be kept by the contractor on the site of the work. Inspection and supervision of the Additional Director General (Engg.)(WZ) / Director Engineering or his representatives and the contractor shall at all times during the usual working hours, and at all other times of which reasonable notice of the intention of the Additional Director General (Engg.)(WZ) / Director Engineering or his representative to visit the works shall have been given to contractor, either himself be present to receive orders and instructions or have responsible agent duly credited in writing present for the purpose. Orders given to the contractor's agent shall be considered to have the same force as if they had given to the contractor. the Additional Director General (Engg.)(WZ) / Director Engineering may require the contractor to dismiss any person in the contractor's employ upon the works who may be incompetent or misconduct himself and the contractor is forthwith to comply with such requirements.
6. The contractor is not to vary or deviate from the drawings, specifications or instructions or execute any extra work of any kind whatsoever unless upon the authority of the Chief Engineer / Director Engineering to be sufficiently shown by order in writing or by any plan or drawing expressly given and signed by him as an extra or variation or by any subsequent written approval signed by him. If compliance with the Additional Director General (Engg.)(WZ) / Director Engineering aforesaid order, plan or drawing of approval involves extra work and or expense beyond that involved the execution of the contract works, then unless the same were issued in consequence of some breach of this contract on the part of the contractor, the latter shall be entitled to be paid the price of the said work or the expense aforesaid.
7. The Additional Director General (Engg.)(WZ) / Director Engineering shall have power to make any alteration in deletions from, additions to or substitutions for the original specifications, drawings, and instructions, that could not be envisaged earlier and become a necessity for the technical or other reasons and the contractor shall be bound to carry out the work in accordance with any instructions which may be given to him in writing signed by the Chief Engineer / Director Engineering. Such additions, deletions, alterations or substitutions shall not vitiate the contract but shall be measured, valued and certified by the Additional Director General (Engg.)(WZ) / Director Engineering and the rate for such additional items of work will be the same as for similar items of work in the contract; in the case of lump sum contracts, such rates will be determined on a proportionate basis, vis., value by total work. If however, it is not possible to fix the rates in this fashion, a rate mutually agreed to by the contractor and the Additional Director General (Engg.)(WZ)/ Director Engineering will apply.
8. The Additional Director General (Engg.)(WZ)/ Director Engineering shall have full power to ask the contractor to stop the work for a total period of seven days either at a time or intermittently without any compensation whatsoever being paid to the contractor and the contractor shall stop the work as and when asked by the Additional Director General (Engg.)(WZ) / Director Engineering. This period shall not include the days on which the contractor may stop work of his own accord and at his own responsibility or as a result of damage to any part of the equipment owing to accidents during the execution of work.
9. The contractor shall give not less than five days notice in writing to the Additional Director General (Engg.)(WZ) / Director Engineering before covering up or otherwise placing beyond the reach of measurement any work in order that additions, omissions and alterations not covered by the original contract may be measured, and corrected dimensions thereof be taken before the same are so covered up or placed beyond the reach of measurement, any work without the consent in writing of the Additional Director General (Engg.)(WZ) / Director Engineering and if any work shall be covered up or placed beyond the reach of measurement without such notice having been given or consent obtained, the same shall be uncovered at the contractor's expense, or in default thereof no payment or allowance shall be made for such work or the materials with which the same was executed.

10. All work and materials brought and left upon the ground by the contractor or by his orders for the purpose of forming part of the works are to be considered to be the property of the President and the same are not to be removed or taken away by the contractor or any other person without the special license and the consent in writing of the Director Engineering be the President is not to be in any way answerable for any loss or damage which may happen to or in respect of any such work or materials either by the same being lost or stolen or injured by or otherwise.

11. The Additional Director General (Engg.)(WZ) / Director Engineering has full power to require the removal from the premises of all materials which in his opinion are not in accordance with the specifications and in case of default the Additional Director General (Engg.)(WZ) / Director Engineering will be at liberty to employ other person or remove the same without being answerable or accountable for any loss or damage that may happen or arise to such materials. The Additional Director General (Engg.)(WZ) / Director Engineering has full power to require other proper materials to be substituted thereof and in case of default the Additional Director General (Engg.)(WZ) / Director Engineering may cause the same to be supplied and all costs which may attend such removal and substitution are to be borne by the contractor.

12. If in the opinion of the Additional Director General (Engg.)(WZ) / Director Engineering any of the works have been executed with improper materials or defective workmanship, the contractor is, when required by the Additional Director General (Engg.)(WZ) / Director Engineering forth with to re-execute the same and to substitute proper material and workmanship and in case of default of the contractor in so doing within a week the Additional Director General (Engg.)(WZ) / Director Engineering has full power to employ other persons to re-execute the work and the cost thereof shall be borne by the contractor.

13. Any defects, shrinkage or other faults which may appear within one year from the completion of the work arising out of defective workmanship are upon the direction of the Chief Engineer / Director Engineering to be amended and made good by the contractor at his own cost (unless the Additional Director General (Engg.)(WZ)/ Director Engineering shall decide that Govt. ought to pay for the same) and in case of default the President may recover from the contractor the cost of making good the work (of which the certificate of the Additional Director General (Engg.)(WZ) / Director Engineering shall be final) from any sum that may be then or at any time thereafter may become due to the contractor by the Government under the contract or otherwise of from his security deposit, or the proceeds thereof, or of a sufficient portion thereof.

14. From the commencement of the works to the completion of the same they are to be under the contractor charge.

In any case in which under any clause or clauses of the contract the contractor shall have rendered himself liable to pay compensation amounting to whole of his security deposit (whether paid in one sum deducted by installments) or 50% of the amount of the contact whichever is less or committed a breach of any of the items contained in clause 26, the Additional Director General (Engg.)(WZ) / Director Engineering on behalf of the President shall have power to adopt any of the following coursed, as he may deem best suited to the interests of Government:

- a) To rescind the contract (of which rescission notice in writing to the contractor under the hand of the Additional Director General (Engg.)(WZ) / Director Engineering shall be conclusive evidence) and in which case the security deposit of the contractor shall stand forfeited, and be absolutely at the disposal of Government.
- b) To employ labour paid by AIR & the Doordarshan and to supply materials to carry the work, or any part of the work, debiting the contractor with the cost of the labour and the price of the materials of the amount of which cost and price a certificate of the Additional Director General (Engg.)(WZ) / Director Engineering as to the value of the work done shall be final and conclusive against the contractor.
- c) To take such part of the work as shall be unexecuted out of his hands, and to give it to another contractor to complete, in which case any expenses which may be incurred in excess of the sum which would had been paid to the original contractor if the whole work had been executed by him (of the amount of which excess the certificate in writing of the Additional Director General (Engg.)(WZ) / Director Engineering shall be final and conclusive) shall be borne and paid by the original contractor and may be deducted from any money due to him by Government under the contract or otherwise or from his security deposit or the proceeds of sale thereof, or as sufficient part thereof.

15. In the event of any of the above courses being adopted by the Additional Director General (Engg.)(WZ) / Director Engineering the contractor shall have no claim to compensation for any loss sustained by him by reason of his having purchased or procured any materials or entered into any engagements, or made any advances on account of, or with a view to the execution of the work or the performance of the contract. And in case the contract shall be rescinded under the provision aforesaid the contractor shall not be entitled to recover or be paid any sum for any work therefore actually performed under this contract, unless and until the Additional Director General (Engg.)(WZ) / Director Engineering will have certified in writing the performance of such work and the value payable in respect thereof, and he shall only be entitled to be paid the value to certified.

16. In any case in which any of the powers conferred upon the Additional Director General (Engg.)(WZ) / Director Engineering by clause 17 thereof, shall have become exercisable and the same shall not be exercised, the non-exercise thereof, shall not constitute a waiver of any of the conditions hereof and such power shall, be exercisable in the event of any future case of default by the contractor for which by any clause or clauses hereof he is declared liable to pay compensation amounting to the whole of his security deposit, and the liability of the contractor for past and future compensation shall remain unaffected. In the event of the Additional Director General (Engg.)(WZ) / Director Engineering putting in force either power (a) or (c) of clause 14 vested in him under the proceeding clause he may, if so desires take possession of all or any tools, plant, materials and stores, in or upon the works, or the site thereof or belonging to the contractor or procured by him and intended to be used for the execution of the work or any part thereof paying or allowing for the same in account at the contract rates, or in case of these not being applicable, at current market rates to be certified by the Additional Director General (Engg.)(WZ) / Director Engineering whose certificate thereof shall be final, otherwise The Additional Director General (Engg.)(WZ) / Director Engineering may by notice in writing to the contractor or his clerk of works, foreman or other authorized agent require him to remove such tools, plant, materials or stores for, the premises (within a time to be specified in such notice), and in the event of the contractor failing to comply with any such requisition the Additional Director General (Engg.)(WZ) / Director Engineering may remove them at the contractor's expense or sell them by auction or private sale on account of the contractor and at his risk in all respect and the certificate of the Additional Director General (Engg.)(WZ) / Director Engineering as to the expense of any such removal and the amount of the proceeds and expense by any such sale shall be final and conclusive against contractor.

17. Provided nevertheless that the contractor shall be of the opinion that he is entitled to any extension of time and account of the works being altered varied or added to or on account of any delay by reason for any inclement weather or causes not under the control of the contractor in consequence of orders to that effect from the Chef Engineer / Director Engineering who orders, the Additional Director General (Engg.)(WZ) / Director Engineering is hereby empowered to give him in any or either of such cases it shall be competent for the Additional Director General (Engg.)(WZ) / Director Engineering by an order in writing to extend the aforesaid period for final completion by a such period or periods as he shall deem reasonable and the contractor is to complete the works within such extended period or periods as aforesaid, provided that the contractor shall not be entitled to any extension of time unless he shall within three days after the happening of the event in respect of which he shall consider himself entitled to any extension given to the Additional Director General (Engg.)(WZ) / Director Engineering written notice of such claim to any extension of time and of the ground or grounds and of the amount thereof unless in any case the Additional Director General (Engg.)(WZ) / Director Engineering shall in his discretion dispense with such notice and certify for any extension of time, nevertheless and in case of any extension of time the aforesaid provision for damaged and their amount in default of due completion shall apply in case on non-completion of the works within the extended time. The Additional Director General (Engg.)(WZ) for reason stated may at his discretion waive the penalties of clause 16 even in the absence of the notice or certificate.

18. The contract shall not be assigned or sublet without the written approval of the Additional Director General (Engg.)(WZ) / Director Engineering. And if the contractor shall assign or sublet his contract or attempt so to do, or become insolvent or commence any insolvency proceedings or make any composition with his creditors, or attempts so to do, or if any bribe, gratuity gift, loan requisite reward or advantage, pecuniary or otherwise, shall either directly or indirectly be given, promised or offered by the contractor or any of his servants or agents to any public officer or person in the employ of Government in any way relating to this office or employment, or if any such officer or person shall become in any way directly or indirectly interested in the contract, the Additional Director General (Engg.)(WZ) / Director Engineering and may thereupon by notice in writing rescind the contract and the security deposit of the contractor shall thereupon stand forfeited and be absolutely at the disposal

of Government, and the same consequences shall ensure as if the contract had been resigned under clause 17 hereof and in addition the contractor shall not be entitled to recover or be paid for any work therefore actually performed under the contract.

19. Payments due to the contractor will be made by cheques. Nothing herein contained shall operate to create in favour of the bank any rights or equities vis-à-vis the President of India.

20. A certificate of the Additional Director General (Engg.)(WZ) / Director Engineering or an award of the referee hereinafter referred to as the contractor is to be conclusive evidence of the works having been duly completed and that the contractor is entitled to receive payment of the final balance, but, without prejudice to the liability of the contractor under the provisions of clause 13. No such certificate shall, however, be given, nor shall the work be considered to be completed until the contractor shall have removed all scaffolding, surplus materials and rubbish, and cleaned off the dirt from all wood work, doors, windows, walls, floors, or other parts of any building in, upon or about which the work is to be executed, or of which he may have had possession for the purpose of the execution thereof, not until the additions, omissions and alterations referred to in clause 8 shall have been measured by the Additional Director General (Engg.)(WZ) / Director Engineering whose measurements shall be binding and conclusive against the contractor. If the contractor shall fail to comply with the requirements of this clause as to removal of scaffolding, surplus materials and rubbish, and cleaning off dirt on or before the date fixed for the completion of the work, the Additional Director General (Engg.)(WZ) / Director Engineering may at the expense of the contractor remove such scaffolding surplus materials and rubbish and dispose of the same as he thinks fit and clean off such dirt as aforesaid, and the contractor shall forthwith pay the amount of all expense so incurred, and shall have no claim in respect of any such scaffolding or surplus materials as aforesaid except for any sum actually realized by the sale thereof

21. No labourer below the age of eighteen years shall be employed on the work.

22. Fair Wage Clause.

The contractor shall pay not less than fair wage to labourers engaged by him on the work.

EXPLANATION

‘FAIR WAGE’ means wage whether for time or piece of work fixed by law or otherwise and notified at the time of inviting tenders for the wages prescribed by the C.P.W.D. for the district in which the work is done.

a. The contractor shall, notwithstanding the provisions of any contract to the contrary, cause to be paid a fair wage to laborers indirectly engaged on the work,

b. including any labour engaged by his sub-contractors in connection with the said work, as if the laborers had been immediately employed by him.

c. In respect of all labour directly or indirectly employed in the works for the performance of the contractor’s part of this Agreement, the contractor shall comply with or cause to be complied with the Central Public Works Department Contractors Labor Regulation made by Government in regard to Payment of wages, wage period, deductions from wages recovery of wages not paid and deductions unauthorisedly made, maintenance of employment wage register, wage cards, publication of scale of wages and other terms of employment, inspection and submission of periodical returns and all other matters of a like nature.

d. The Additional Director General (Engg.) (WZ) / Director Engineering shall have the right to deduct, from the money due to the contractor, any sum required or estimated to be required for making good the loss suffered by a worker or workers by reasons of non-fulfillment of the conditions of the contract for the benefit of the workers, non-payment of wages or of deductions made from his or their wages, which are not justified by their terms of the contract or non-observance of the regulations.

e. Vis-a vis Central Government the contractor shall be primarily liable for all payments to be made under, and for the observance of the Regulations aforesaid without prejudice to his right to claim indemnity from his sub-contractor.

f. The regulations aforesaid shall be deemed to be part of this contract and any breach thereof shall be a breach of contract.

23. The Contractor shall adhere to (1) The Minimum Wages Act, (2) The Workman’s Compensation Act, (3) The Factories Act and other relevant Labour Laws.

24. All sums payable by way of compensation under any of these conditions shall be considered as reasonable compensation to be applied to the use of Government without reference to the actual loss or damage sustained, and whether or not any damage shall have been sustained.

In the case of a tender by partners any change in the constitution of the firm shall be forthwith notified by the contractor to the The Additional Director General (Engg.) (WZ) / Director Engineering for his information.

25. All disputes, differences or question including the subject matter of the contract or the rights and liabilities of the parties, hereunder or howsoever arising between the parties except those, the decision where is herein before otherwise expressly provided for shall be referred to the sole arbitration of the The Additional Director General (Engg.) (WZ) / Director Engineering or any person nominated by him and his decision shall be final and binding on the parties. The provisions of Arbitration Act, 1940 or any statutory modifications or re-enactment thereof and the rules made there under for the time being in force shall apply to such arbitration. Work under the contract shall, if reasonably possible, continue during the arbitration proceeding.

26. If at any time after the commencement of the work the President shall for any reason whatsoever not require the while thereof as specified in the tender to be carried out, the The Additional Director General (Engg.) (WZ) / Director Engineering shall give notice in writing of the fact to the contractor who shall have no claim to any payment or compensation whatsoever on account of any profit or advantages which he might have derived from the execution of the work in full but which he did not derive in consequence of the full amount of the work not having been carried out neither shall he have any claim for compensation by reasons of any alteration having been made in the original specification, drawings and instructions which shall involve any curtailment or increase of the work as originally contemplated.

27. In the case of any class of work for which there is no such specification as is mentioned in Rule 1, such work shall be carried out in all respect in accordance with the instructions and requirements of the The Additional Director General (Engg.) (WZ) / Director Engineering.

28. The contractor shall at all times indemnify the President against any claim which may be made under the Workman's Compensation Act.1923 or any statutory modification thereof or other wise for or other wise for or in respect of any damages or compensation in consequence of any accident or injury sustained by any workman or other person whether on the employment of the contractor or not. In every such case including cases in which by virtue of the provisions of Section 12, sub-section (1) of the workmen's Compensation Act, 1923 Government is obliged to pay compensation to a workman employed by the contractor in execution of the work, Government will recover from the contractor the amount of the compensation so paid and without prejudice to the rights of Government under Section 12, sub-section (2) of the said Act, Government shall be at liberty to recover such amount or any part thereof by deducting if from the security deposit or from any sum due by Government to the contractor whether under this contract or otherwise.

Government shall not be bound to contest any claim made against it under Section 12, sub-section (1) of the said Act, except on the written request of the Contractor and upon his giving to Government full security for all costs for Which Government might become liable of consequence of contesting such claim.

29. All works to be executed under the contract shall be executed under the direction and subject to the approval in all respects of the The Additional Director General (Engg.) (WZ) / Director Engineering for the time being who shall be entitled to direct at what point or points and in what manner they are to be commenced, and from time to time carried on.

ANNEXURE “ D”

CHECKLIST FOR ELIGIBILITY OF TENDER

Sr.No.	Checklist Point	Compliance by Tenderer Yes/No.	Supporting Documentary Evidence	Remark
1.	Original Equipment Manufacturers or their Authorized dealers / Distributors.			
2.	Certificates of satisfactory performance of a similar work from at least three actual users.			
3.	Income Tax clearance Certificate.			
4	Dealership Certificate.			
5	Copy of PAN Card.			
6.	Demand Draft of EMD Enclosed			
7.	Compliance statement of Technical specification in the format provided in the tender.			

ANNEXURE “E”

TECHNICAL SPECIFICATIONS OF

H.T. PANEL AT DDK AHMEDABAD

1. GENERAL:

- 1.1 The schematic and the specifications detailed below are indicative of the needs of the buyer and are meant to help the tenderers to quote for their standard equipment, which would meet the specifications, Supply, Installation, Testing and Commissioning (SITC) of the HT system is the whole responsibility of the tenderer. Three numbers of 95 sq.mm XLPE Cables (15Mtr. length each to be laid between RMU and HT Switch gear) also removing existing HT MOCB/OCB Panel.
- 1.2 The HT equipment shall operate satisfactorily under the following conditions:
- (i) +/- 20% voltage variation from the specified voltage.
 - (ii) +/- 10% variation in voltage between phases on full load.
 - (iii) +/- 8% variation in frequency from the specified value of 50 Hz.
 - (iv) Environmental conditions

The equipment will be installed indoors. It shall, however, be suitable for working under tropical conditions with environmental conditions of ambient temperature 50 degree C, RH upto 80% altitude 150Mtr. approximately.

GUARANTEE / WARRANTY : The contractor shall accept that his obligation shall be limited for a period of 24 months from the date of supply of goods, During the guarantee period, the contractor shall repair or replace free of charge any parts that will become defective due to faulty material design or workmanship.

2. HT SWITCH BOARD CONSTRUCTION :

The H.T. switchboard shall consist of Vaccum Circuit Breaker (1) as incomers and Vaccum Circuit Breaker (1+1) as outgoing.

Equipment shall be suitable for operation on the voltage, frequency and system as defined within these specifications and shall have the full load, interrupting and making capacities as specified , for the stated ambient conditions.

Equipment shall be designed for indoor operation having front and back access and shall have an enclosed construction for dampness and dust protection and to prevent entry of vermin that may create electrical short circuits or malfunction. The switch board circuits shall have a degree protection conforming to IP4X.

Equipment shall be designed to approved safety requirements and have all necessary interlock devices to ensure correct and safe operation. Safe access shall be provided in and around equipment for operating and maintenance functions. Warning signs shall be fitted to all hazardous parts of the equipment as required by Indian Regulations.

Equipment shall be designed for maximum interchangeability of components, with ease of replacement to minimize downtime.

Each switch board shall be of sheet steel construction of 2.5 mm thickness on all sides and 2mm on rear side, constructed on the unit principle and shall be suitable for extension from either side.

The switchgear shall be of metal clad construction, totally enclosed, conforming to degree protection, IP4X, self-supporting, having a continuous bus bar of rated current throughout the complete assembly.

Each panel shall have separate enclosed chambers for bus bars, circuit breaker / switch, power cable terminations, control cable termination, control, instruments and protection relays.

Control cables terminations shall be fully accessible without removal of covers, which expose live bus bars or terminals.

Power cable terminations shall be designed to accommodate the size, type and quantity of cables as schedules. The cable chamber portion of panels, having the same ratings, shall be identical for ease of interchangeability.

Each panel shall have provision for earthing the frames and metal work of the switchgear to a common earth system.

All controls, indicators, relays and meters shall be located on the front of the panel. Control switches shall be close/neutral/trip with spring return to the neutral position. Pad locking facilities shall be provided for all shutters and for locking the circuit breaker in the open and closed position.

Each switchboard assembly shall have an engraved label in English language fixed to the front of the assembly stating the switchboard title. Major components shall be clearly labeled to indicate their purpose and function. Manufacturer's name, date of manufacture and all rating details shall also be shown on the switchgear. Inspection and testing of VCB Panels and other materials will be carried out before dispatch to this office.

The integration of Vacuum Circuit Breaker in the panel should be carried out professionally. The assembling should be finished with precision and should have aesthetic look, also easy in maintenance. For ease of maintenance, the different section of the VCB Panel should be easily accessible. **The VCB and panel should be manufactured by same OEM.**

2.1 Applicable Acts and Regulations

Equipment covered by these specifications shall be designed, manufactured and tested in accordance with the latest relevant standards and codes of practice, namely international Electro-Technical Commission (IEC), British Standards (BS) or Bureau of Indian Standards (BIS), as applicable.

S.No.	Description	Codes
1	High Voltage AC Circuit Breakers	IEC/IS: 7987
2	Metal Enclosed Switchgear	IS : 3427
3	Current Transformer	IS : 2705
4	Potential Transformer	IS : 3156
5	Arrangement for Switchgear Busbars, Main Connection and Auxiliary wiring	IS : 5578 IS : 11353
6	Degree of Protection	IS : 2147
7	Relays for power System Protection	IS : 3231
8	Electrical Indicating Instruments	IS : 1248
9	High Voltage Fuses	IS : 5792
10	AC Electricity Meters	IS : 772
11	ALuminium Busbars	IS : 5082

3. VACCUM CIRCUIT BREAKER:

The Vaccum Circuit Breakers of the H.T. switch board shall conform in all respects to IS : 13118-1991/IS – 2516 (Part – I to Part – V Sec.2) 1980 amended up to date specifications for “ Alternating Current Circuit Breakers”.

VACCUM CIRCUIT BREAKERS : QUANTITY 1+1 Nos. (Extra One Number as spare)

Recommended make	:	ABB / SIEMENS / SCHIENIDER ELECTRIC / KIRLOSKAR / CROMPTON GREAVES
Rated Voltage	:	11 KV
Poles	:	3
Rated Frequency	:	50 Hz
Rated Current	:	630 Amp
Short Circuit Breaking Capacity at 11 KV	:	20 KA
Making Capacity	:	52 KA
Duration of short time current	:	3 Sec.
Applicable standard	:	IS 13118/IEC 60056/IEC 62271-100
Type of Mechanism	:	Spring Loaded closing / tripping.
DC Component	:	Less than 50%
Rated Operating Sequence	:	0-3 sec co – 3 min.
Rated break time	:	less than 60 m sec.
Rated closing time	:	less than 60 m sec.
Rated closing / Tripping voltage	:	24V DC
Power required by trip & close coil	:	400 W max

Shall have separate current carrying contacts and arcing contacts.

Auxiliary contacts	:	6 NO and 6 NC
CT Current ratio	:	150 / 5+5
Accuracy class and burden for CT:		
For metering – class I accuracy		
For protection – 5p 10		
Burden – 15 VA		

PT Ratio	:	11 KV / 110 Volt
Type	:	Draw out 3 phase 3 limbs
Ammeter Range	:	0 to 50 amp for CT 150/5.....
Volt meter	:	0 to 15 KV for PT 11 KV/110
Cable Size XLPE	:	95 Sq.mm
Indicating lamps	:	LED array type
Metering	:	Multifunction communicable Metering with interface to PC

PT is required in incoming side in 1 nos of Vaccum Circuit Breaker and PT is required in outgoin side of 2 nos of Vaccum Circuit Breaker. Mechanical / Electrical interlock is to be provided in HT switch gear system.

4. PROTECTIVE DEVICES ;

Each Vaccum circuit breaker shall be provided with the following protective release:

- i. Inverse definite minimum time lag over – current (IDMT) releases for protection against overloads. The over current releases shall be of the indirect release type, energized through current transformers of prescribed ratio. They shall have provision for adjusting the setting form 50% to 200% of normal working current.

- ii. Earth fault release, energized through current transformer for tripping the circuit breaker on earth faults. The release shall be adjustable from 10% to 40% of the normal working current.
- iii. Transformer Protection Relay – 2 nos.

5. METERING:

- (i) Each of incoming load break switch panel shall be provided with the following facilities.

A Voltmeter, 0-15 KV range for indicating the phase-to-phase voltage of the incoming supply, complete with its selector switch. The voltmeter is to be fed from a three phase, draw-out type potential transformer of class B accuracy, complete with limiting resistances and fuses etc. Potential transformer should meet the requirement as per IS: 3156. A phase sequence meter and a digital frequency meter are to be provided.

- (ii) A metering panel of tri – vector type having a KWH meter, KVAH meter, and maximum demand meter for both KW and KVA demand for each incoming HT line (All the meters should be digital meters of reputed make)

(iii) Each vacuum circuit breaker shall have one Ammeter with four position selector switch to indicate the current in each of the three phase with suitable current transformers, conforming to IS: 2705 – 1964 and class I accuracy. The meters shall conform to IS-1248-1958 and shall be of accuracy not less than Grade “A” to be provided to meet the required accuracy.

- (iv) Hooter to be provided in case of tripping (with NO/NC)

N.B: As the HT switch board is being supplied as SITC, both the metering panels are to be got calibrated from concerned State Electricity Board, where HT panel is to be installed.

6. BUSBARS:

The busbars shall be single, air insulated type of HDDB, electrolytic copper / Equivalent Aluminiums busbar rated as per the requirement, corrected for local operating temperature conditions and shall be so mounted as to withstand worst fault conditions. The marking arrangement of switch gear busbars should be as per IS: 375

7. CABLE BOXES:

Straight entry type end boxes, complete with cable glands and armour clamps shall be provided on both the incoming and outgoing panels of the switchboard. The cable boxes shall be suitable for 11 KV, 3 core, underground aluminium conductor cable, size of 95 sq.mm 3 core XLPE cable as indicated in the enclosed drawing.

8. CABLE KIT & TERMINATIONS:

Necessary cable kits and terminations arrangements for both ends of the cables in the panel will be provided by the tenderer / supplier. The cable kit will be of “ M Seal” make for indoor termination. The quotation should include cost of cable kit, termination arrangement and the labour cost for termination at site.

9. INDICATION LAMPS:

3 sets of coloured indicating (flush type) lamps shall be provided on front side of the panel through suitable potential transformer and fuses to indicate the live phases.

10. TRIPPING UNIT:

A self-contained tripping battery unit with trickle charger for providing 24 V DC source for the tripping circuit of the VCB shall be included in the supply. The battery unit may, preferably, use Nickel Cadmium (Ni-Cd) maintenance free cells specifically meant for the purpose. The tripping battery unit shall be complete with its own trickle charger, suitable for working on 230 V, single phase 50 Hz supply. The unit shall be provided with necessary switches, fuses and meters to indicate the voltage and charging current of the battery. The entire unit shall be mounted in a steel cabinet with adequate protection and proper ventilation arrangements.

ANNEXURE – “F”

BILL OF MATERIAL AND SCOPE OF WORKS

MATERIALS

Sl.No.	Description	Quantity
1	Draw out Vacuum circuit breaker 11 KV, 630 A, 20 KA/3 sec With three position isolator / earthing switch, busbars, interlocking, earth bar, stored spring energy mechanism, cable bushings, voltage indication (micro processor based protection relay)	1+1+1
2	Supply of 95 sq.mm, XLPE Aluminium Armoured 3 core H.T. cable .	3 x 15 Mtr.

WORKS

S.No.	Description of work	Quantity
1	Installation and testing of HT panel VCB etc as per Bill of material Including all civil modification for the installation of the HT panel	Job work
2	Integration of this HT panel with already available 750 KVA HT transformers etc.	- do -
3	Providing 2 nos of body earthing for the HT panel of copper plate of 600x600x3.15 mm and copper strip of 25 x 3mm.	- do -
4	* Removing the HT connection from the existing HT panel and also at the EB end	- do -
5	Laying of the HT cable (3 nos of 95 sq.mm XLPE insulated armored HT cable) from EB HT room to the Kendra HT room and connecting it to the new HT panel (for laying of the HT cable the firms may quote on per meter basis and payment be made as per actual. The approximate length of cable route is 45 meters with lugs at both the ends.	- do -
6	* Connecting the new HT cable at the EB end.	- do -
7	Getting CEA approval and energizing for the new installation.	- do -
* All these works may have to be carried out only after the close down of the transmission, mostly after mid night and the firm should ensure that the works are completed before 0500 hrs the following day and enable the Kendra to energize their power supply system for normal working. Proper co-ordination should be maintained with the Station in-charge for the same.		

ANNEXURE “G”

INFORMATION TO BE SUPPLIED BY TENDERER IN DUPLICATE

1. HT SWITCH BOARD AND VACCUM CIRCUIT BREAKER

Sl.No.	DESCRIPTION	PARAMETERS
1	H.T. Panel	Make and Model No.
2	Overall detailed dimensions of the Complete Switch board	a. Width mm
		b. Depth mm
		c. Height mm
3	Weight of panel	a. Net Kg
		b. Gross Kg
4	Minimum clearance required from the walls	a. Front mm
		b. Side mm
		c. Back mm
5	Minimum clearance required in front of the switch Board for drawing out of circuit breaker	a. Normal Operation mm
		b. Maint & Servicing mm
6	Foundation bolts required with sizes and layout drawing	
7	Size of MS sheet used for the panel	SWG mm
8	Type of interlock	
9	Make of the VCB being offered including model/ Type	
10	Rating	
11	Number of Poles	
12	Rated Voltage	KV
13	Rated Normal current	Amp
14	Rated Frequency	Hz
15	Rated Insulation level	KV
16	Rated SC making current in KA	
17	Rated SC breaking current in KA	
18	Rated duration of short circuit current	Sec.
19	Rated break time	
20	Rated close time	
21	Type, whether indoor or outdoor	
22	Certificate of Report on short circuit type Test	

2. BUSBARS AND CABLE BOXES

- (i) Dimension and arrangements of the incoming and outgoing cable boxes.

- (ii) Details of busbars and busbar chambers and methods of extension

3. AUXILLIARY TRIPPING SUPPLY UNIT WITH TRICKLE CHARGER

SL.NO.	DESCRIPTION	PARAMETERS
i)	Tripping coil voltage	
ii)	Tripping coil Ampere	
iii)	Type of characteristic of tripping coil	
iv)	Type & no. of batteries	
v)	Mechanical dimensions of the unit	

4. PROTECTIVE DEVICES AND METERS

- (i) Details of over current release, their time characteristics and range of setting

- (ii) Details of earth leakage release and range of setting.

- (iii) Ratings class and accuracy potential transformers_____

- (iv) Range class and accuracy of Voltmeter_____

- (v) Range class and accuracy of Ammeter_____

- (vi) Range class and accuracy of KWH meter_____

- (vii) Range class and accuracy of KVAH meter_____

- viii) Range class and accuracy of Maximum Demand Meter_____
 - ix) Range class and accuracy of digital frequency Meter and phase sequence meter_____
 - x) Ratings class and accuracy of current transformer_____
-
- 5. Diagram giving complete details of the layout of Vacuum Circuit Breakers, Busbars etc., of the HT switch board.
 - 6. Diagram giving the layout of the HT panel in the sub station room (750 KVA, HT transformer is already existing in Doordarshan Kendra Ahmedabad)



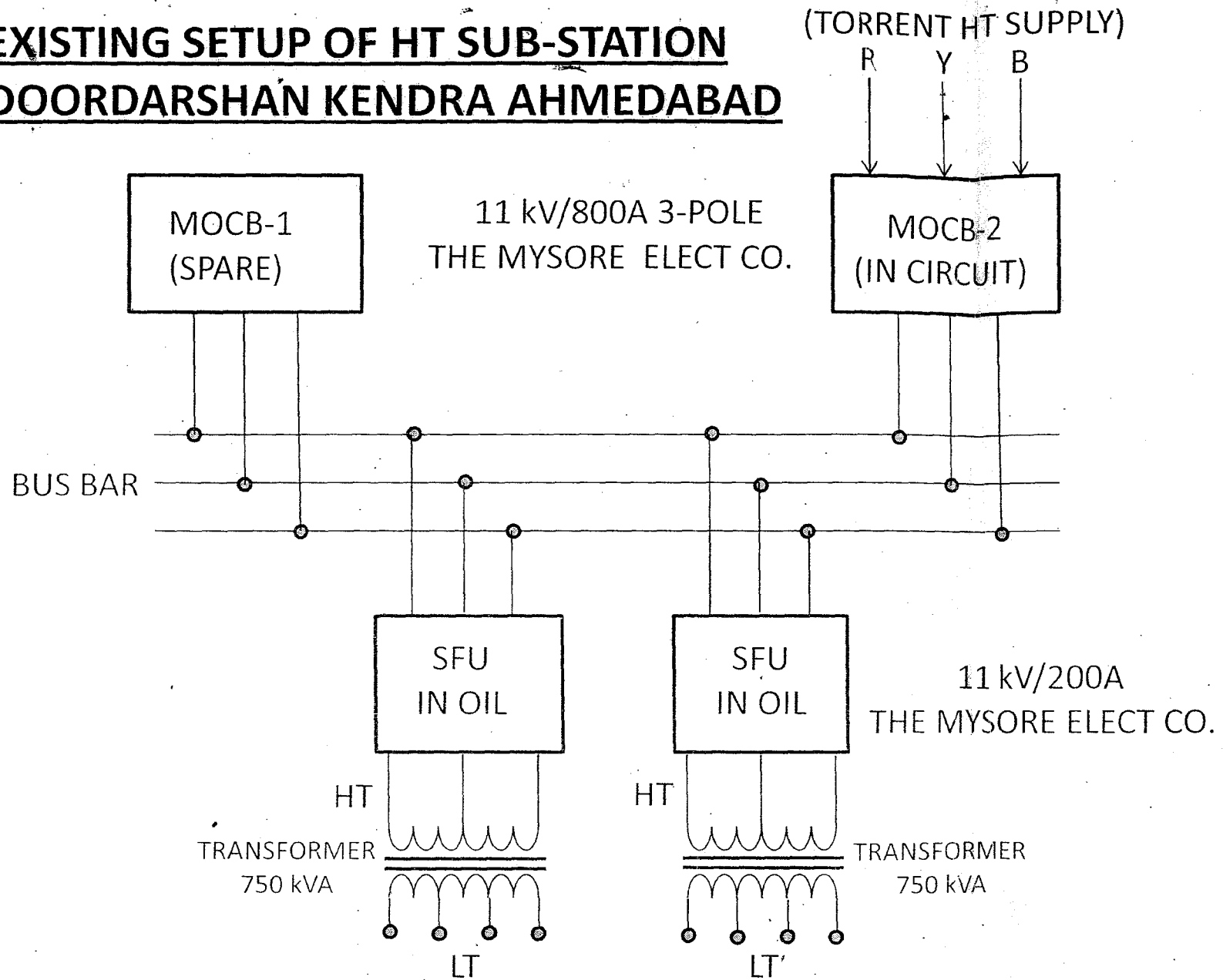
PRASAR BHARATI (BCI)
O/o ADDITIONAL DIRECTOR GENERAL[E-WZ]
ALL INDIA RADIO & DOORDARSHAN
DOORDARSHAN KENDRA COMPLEX
9TH FLOOR, P.B. MARG, WORLI
MUMBAI-400 030.
PRESS TENDER NOTICE



On behalf of President of India, The Additional Director General(E-WZ), All India Radio & Doordarshan, Mumbai-30 invites tenders for the works cited below from reputed contractors who fulfill the qualification criterion prescribed under. The tender documents may be obtained from the Cashier ,office of The Additional Director General (E-WZ),AIR & TV ,101,3rd Floor,Old CGO.Building ,M.K.Road ,Mumbai- between 11.00 Hrs. to 15.00 Hrs. on all working days. The cost of the each Tender document is Rs. 1000/-(Rupees One Thousand only)

NAME OF WORK	Supply, Installation, Testing and Commissioning of HT Panel at Doordarshan Kendra, Ahmedabad	Supply, Installation, Testing and Commissioning of L.T. Panel at Doordarshan Kendra ,Bhopal	Supply, Installation, Testing and Commissioning of 11KV/415 V 250KVA Plinth mounted substation at HPT Bhuj
ESTIMATED COST	Rs. 12,00,000/-	Rs. 11,00,000/--	Rs. 12,00,000/-
EARNEST MONEY DEPOSIT	Rs.24,000/- .	Rs.22,000/	Rs.24,000/-
LAST DATE OF ISSUE OF TENDER	30.01.2012	31.01.2012	01.02.2012
LAST DATE AND TIME OF RECEIPT OF TENDER	01.02.2012 up to 15.00Hrs	02.02.2012 up to 15.00Hrs	03.02.2012 up to 15.00Hrs
DATE AND TIME OF OPENING OF TENDERS	01.02.2012 up to 16.00Hrs	02.02.2012 up to 16.00Hrs	03.02.2012 up to 16.00Hrs
QUALIFICATION CRITERION FOR THE WORK	<p>1.Only original equipment manufacturer or their authorized dealer /distributers are eligible</p> <p>2.Request for tender document will be considered only from those firms who have successfully and satisfactorily completed at least three similar works for Doordarshan or similar organization.</p> <p>3.The tenderer should be a Class "A" Electrical contractor.</p>	<p>1.Only original equipment manufacturer or their authorized dealer /distributers are eligible</p> <p>2.Request for tender document will be considered only from those firms who have successfully and satisfactorily completed at least three similar works for Doordarshan or similar organization.</p> <p>3.The tenderer should be a Class "A" Electrical contractor.</p>	<p>1..Request for tender document will be considered only from those firms who have successfully and satisfactorily completed at least three similar works for Doordarshan or similar organization.</p> <p>2.The tenderer should be a Class "A" Electrical contractor.</p>
CONTACT TEL. Nos.	Tenderers may contact TV Project Section, O/o The Additional Director General (E--WZ), AIR & Doordarshan ,Doordarshan Complex, P.B. Marg, Worli, Mumbai-25. for Clarifications, if any Telephone No: 022-24928773, 022-24985617		

EXISTING SETUP OF HT SUB-STATION DOORDARSHAN KENDRA AHMEDABAD



PROPOSED SETUP OF HT SUB-STATION DOORDARSHAN KENDRA AHMEDABAD

(TORRENT HT SUPPLY)

11kV/630A 3-POLE
WITH ALL PROTECTION EARTH FAULT, O/L, SHORT CKT
MOTORISED CHARGE MECHANISM

COPPER
BUS BAR

