

# **ELECTRIC & WATER SUPPLY SERVICES BANARAS HINDU UNIVERSITY VARANASI**

Name of work:

- (a) Annual Maintenance Contract for round the clock services for 01 No. 33KV PSS & 23 Nos. 11KV/433V DSS at Banaras Hindu University campus, Varanasi U.P.**
- (b) Annual Operation & Maintenance Contract for round the clock services for 01 No. 33KV PSS & 03 Nos. 11KV/433V DSS at Rajeev Gandhi South Campus, BHU, Barkachha, Mirzapur U.P.**

# **NIT**

**Superintending Engineer  
EWSS, Banaras Hindu University, Varanasi**

## ABSTRACT OF COST

### Name of work:

- (a) Annual Maintenance Contract for round the clock services for 01 No. 33KV PSS & 23 Nos. 11KV/433V DSS at Banaras Hindu University campus, Varanasi U.P.
- (b) Annual Operation & Maintenance Contract for round the clock services for 01 No. 33KV PSS & 03 Nos. 11KV/433V DSS at Rajeev Gandhi South Campus, BHU, Barkachha, Mirzapur U.P.

Sl. No.	Details of Sub-Head	Total Amount (in Rupees)
1	(a) Annual Maintenance Contract for round the clock services for 01 no. 33KV PSS & 23 Nos. 11KV/433V DSS at Banaras Hindu University campus, Varanasi U.P.	92,50,000/- Per annum
	(b) Annual Operation & Maintenance Contract for round the clock services for 01 No. 33KV PSS & 03 Nos. 11KV/433V DSS at Rajeev Gandhi South Campus, BHU, Barkachha, Mirzapur U.P.	54,00,000/- Per annum
	Grand Amount (in Rupees)	<b>1,46,50,000/- Per annum</b>

Assistant Engineer  
EWSS,BHU

Executive Engineer  
EWSS,BHU

Superintending Engineer  
EWSS,BHU

This NIT containing pages as per Index amounting to Rs. 1,46,50,000/- (Rupees One crores forty six fifty thousand only) is hereby approved.

Superintending Engineer  
EWSS, Banaras Hindu University, Varanasi

**ELECTRIC & WATER SUPPLY SERVICES  
BANARAS HINDU UNIVERSITY**

**Name of Work:**

- (a) Annual Maintenance Contract for round the clock services for 01 No. 33KV PSS & 23 Nos. 11KV/433V DSS at Banaras Hindu University campus, Varanasi U.P.
- (b) Annual Operation & Maintenance Contract for round the clock services for 01 No. 33KV PSS & 03 Nos. 11KV/433V DSS at Rajeev Gandhi South Campus, BHU, Barkachha, Mirzapur U.P.

**GENERAL INDEX**

Sl.No.	Description	Page
	Index	3
	<b>PART-A</b>	4
1	Information and instructions for contractors fore-tendering	5-6
2	EWSS e-TENDER	7-10
3	Integrity Pact	11-18
4	EWSS from -1	19-20
5	Acceptance	21
6	Proforma of Schedules	22-26
7	General Rules & Directions	27-31
8	Salient/Mandatory requirement for tender	32
	<b>PART-B</b>	33
9	Quality Assurance of the work	34
10	Additional terms and conditions	35-36
11	Special Condition for Material	37
12	List of machinery, tools & plants to be deployed by the contractor at site.	38
13	Guarantee bonds:	
a)	Form of Earnest Money (Bank Guarantee Bond)	39-40
14	Scope of work & specification	
(a)	AMC, BHU, Varanasi U.P. in Annexure - I	41-54
(b)	AOMC, RGSC, BHU, Barakachha, Mirzapur U.P. in Annexure - II	55-68

It is certified that this document contains two parts i.e. Part A, Part B, containing pages 68.

Executive Engineer  
EWSS, BHU.

**ELECTRIC & WATER SUPPLY SERVICES  
BANARAS HINDU UNIVERSITY**

**Name of work:**

- (a) Annual Maintenance Contract for round the clock services for 01 No. 33KV PSS & 23 Nos. 11KV/433V DSS at Banaras Hindu University campus, Varanasi U.P.**
- (b) Annual Operation & Maintenance Contract for round the clock services for 01 No. 33KV PSS & 03 Nos. 11KV/433V DSS at Rajeev Gandhi South Campus, BHU, Barkachha, Mirzapur U.P.**

# **PART- A**

**ELECTRIC & WATER SUPPLY SERVICES  
BANRAS HINDU UNIVERSIT  
VARANASI**

**INFORMATION AND INSTRUCTIONS FOR BIDDERS FOR e-TENDERING  
FORMING PART OF BID DOCUMENT AND TO BE POSTED ON WEBSITE**

The Superintending Engineer, university Electric & Water Supply Services, on behalf of Registrar of Banaras Hindu University, Varanasi, India invites online, the percentage rate Bids from Firms/Contractors of repute in Two Bid system for following work :-

S.NO	Description	
1	NIT No.	EWSS/2015-16/EL/AMC & AOMC/BHU & RGSC/01 Dtd: 07.09.2015
2	Name of Works & Location	(a) Annual Maintenance Contract for round the clock services for 01 No. 33KVPSS & 23 Nos. 11KV/433V DSS at Hindu University campus, Varanasi, U.P.
		(b) Annual Operation & Maintenance Contract for round the clock services for 01 No. 33KV PSS & 03 Nos. 11KV/433V DSS at Rajeev Gandhi South Campus, BHU, Barkachha, Mirzapur U.P.
3	Total Estimated cost put to tender (a) + (b)	Rs. 92,50,000/- + 54,00,000/- <b>= Rs. 1,46,50,000/-</b>
4	Total Earnest Money (a) + (b)	Rs. 4,62,500/- + 2,70,000/- <b>=Rs. 7,32,500/-</b>
5	Period of Completion	One year
6	Last Date & Time of Submission of Technical And Financial Bids	28.09.2015 by 11.00 AM
7	Date of opening of BID	28.09.2015 at 4.00 PM

1. Contractors who fulfill the following requirements shall be eligible to apply. **Joint ventures are not accepted.**

(a) Should have satisfactorily completed the AMC/ AOMC Job as mentioned below during the last Seven years ending 31<sup>st</sup> March, 2015: -

(i) Three similar works each costing not less than Rs. **58.60 lacs** or two similar works each costing not less than Rs. **87.90 lacs** or one similar work costing not less than Rs. **117.20 lacs**.

And

(ii) One completed job of similar nature (either part of (i) above or a separate one) costing not less than Rs. **58.60 lacs** with some Central Govt. Department/ State Government Department / Central Autonomous Body/ State Autonomous Body/ Central Public Sector Undertaking/ State Public Sector Undertaking /City development Authority/ Municipal Corporation of City formed under any Act by Central/ State Government and published in Central/ State Gazette.

Similar job shall mean “(a) Annual Maintenance Contract for round the clock services for 33KV/11KV & 11KV/433V Primary & Secondary Distribution System in any organization (b) Annual Operation & Maintenance Contract for round the clock services for 01 No. 33KV PSS & 03 Nos. 11KV/433V DSS at Rajeev Gandhi South Campus, BHU, Barkachha, Mirzapur U.P.”. The value of executed job shall be brought to the current costing level by enhancing the actual value of job at simple rate of 7% per annum; calculated from the date of completion to last date of receipt of applications for bids.

(iii) **While considering any similar job executed by applicant firm under joint venture, the experience of the applicant firm in that job shall be restricted to its share/responsibilities as reflected in the Memorandum of Understanding (MoU), signed between the parties, while forming joint venture for that job, attested copy of which shall be submitted along with the technical bid.**

(b) Should have had average annual financial turnover of `Rs. **146.50 Lacs** on similar works during the last three consecutive financial years ending 31<sup>st</sup> March 2015 (**scanned copy of certificate from CA to be uploaded**)

(c) Should not have incurred any loss in more than two years during the last five years ending **31<sup>st</sup> March, 2015**.

(d) Should have a solvency certificate of `Rs. **58.60 Lacs** issued by Bank during the last six months (**Scanned copy of original solvency to be uploaded**)

2. The intending bidder must read the terms and conditions carefully. He should only submit his bid if he considers himself eligible and he is in possession of all the documents required.

The agency should also enclose along with the documents a separate annexure showing the details of the works which he intends to be considered for deciding his fulfillment of eligibility criteria as per the requirements of the NIT provisions.

3. Information and Instructions for bidders posted on website shall form of bid document.

4. The bid document consisting of plans, specifications, the schedule of quantities of various types of items to be executed and the set of terms and conditions of the contract to be complied with and other necessary documents can be seen and downloaded from website [www.eprocure.gov.in](http://www.eprocure.gov.in) or [www.bhu.ac.in](http://www.bhu.ac.in) free of cost.
5. But the bid can only be submitted after giving the details of the mandatory documents such as Demand-Draft or Fixed Deposit Receipts or Bank Guarantee of any Scheduled Bank towards EMD in favor of **Superintending Engineer, Electric & Water Supply Services, Banaras Hindu University, Varanasi** and others scanned documents as specified.
6. Those contractors not registered on [www.eprocure.gov.in](http://www.eprocure.gov.in) website, are required to get registered beforehand. If needed they can be imparted training on online bidding process as per details available on the website.
7. The intending bidders must have valid Class-III digital signature to submit the bid.
8. On opening date of the financial bid, the contractor can login and see the bid opening process. After opening of bids he will receive the competitor bid sheets.
9. Contractor can upload documents in the form of PDF format.
10. Contractor must ensure to quote rate of each item.  
In addition to this, while selecting any of the cells a warning appears that if any cell is left blank the same shall be treated as "0".  
Therefore, if any cell is left blank and no rate is quoted by the bidder, rate of such item shall be treated as "0" (ZERO).
11. The department reserves the right to reject any prospective application without assigning any reason whatsoever and to restrict the list of qualified contractors to any number deemed suitable by it, if too many bids are received satisfying the laid down criterion.
12. It shall be mandatory to sign the Integrity Pact by the bidder / contractor failing which tenderer / bidder will stand disqualified from the tendering process and the bid of the bidder would be summarily rejected in case of manual tendering. **However; where e-tendering is followed, Integrity Pact of the bid document shall be signed between Superintending Engineer in-charge of job and the successful bidder after acceptance of the bid.**
13. The EMD can be paid in the form of Demand Draft or Fixed Deposit Receipts or Bank Guarantee of any Scheduled Bank. The intending bidder has to fill all the details such as Banker's name, Demand Draft/Fixed Deposit Receipt/ Bank Guarantee, amount and date/ bank Guarantee.

**List of Documents to be scanned and uploaded up to date and time mentioned above:**

1. Category of the contractor.
2. Certificates of Work Experience.
3. Certificate of Financial Turnover from CA.
4. Bank Solvency Certificate issued by any scheduled bank.
5. Any Other document as specified in Eligibility Criteria and/or in EWSS e-TENDER
6. Affidavit as per provision of Clause-1.2.2 of **EWSS e-TENDER**
7. Certificate of Registration for Sales Tax / VAT/IT.

**SUPERINTENDING ENGINEER  
ELECTRIC & WATER SUPPLY SERVICES  
BANRAS HINDU UNIVERSITY  
VARANASI**

## EWSS e-TENDER

---

1. The Superintending Engineer, EWSS,BHU invites the online percentage rate Bids from approved and eligible contractors of EWSS and those of appropriate list of C.P.W.D., M.E.S., Railways, Telecom (BSNL) and other central govt. agencies for the following works:

“(a) Annual Maintenance Contract for round the clock services for 01 No. 33KV PSS & 23 Nos. 11KV/433V DSS at Hindu University campus, Varanasi, U.P.

(b) Annual Operation & Maintenance Contract for round the clock services for 01 No. 33KV PSS & 03 Nos. 11KV/433V DSS at Rajeev Gandhi South Campus, BHU, Barkachha, Mirzapur U.P.”

**The enlistment of the contractors should be valid on the last date of submission of tenders.**

- 1.1 The works is totally estimated to cost **Rs. 146.50 Lacs. per annum inclusive of taxes & duties.** This estimate, however, is given merely as a rough guide.
- 1.1.1 The competent authority to approve NIT for the combined cost and belonging to the major discipline will consolidate NITs for calling the tenders.
- 1.2 Intending bidder is eligible to submit the bid provided he has definite proof from the appropriate authority, which shall be to the satisfaction of the competent authority, of having satisfactorily completed similar jobs of magnitude specified below:-
- 1.2.1 Criteria of eligibility for submission of bid documents:

**Joint ventures are not accepted.**

- (a) Should have satisfactorily completed the jobs as mentioned below during last seven years ending 31<sup>st</sup> March, 2015:

- (i) Three similar works each of value not less than `Rs. **58.60 Lacs** or two similar works each of value not less than `Rs. **87.90 Lacs** or one similar work of value not less than `Rs. **117.20 Lacs.**

And

- (ii) One completed work of any nature (either part of (i) above or a separate one) costing not less than **Rs. 58.60 Lacs** with some Central Govt. Department/ State Government Department / Central Autonomous Body/ State Autonomous Body/ Central Public Sector Undertaking/ State Public Sector Undertaking/ City development Authority/ Municipal Corporation of City formed under any Act by Central/ State Government and published in Central/ State Gazette.

The value of executed works shall be brought to current costing level by enhancing the actual value of work at simple rate of 7% per annum; calculated from the date of completion to last date of receipt of applications for tenders.

Similar job means “(a) Annual Maintenance Contract for round the clock services for 33KV/11KV & 11KV/433V Primary & Secondary Distribution System in any organization

(b) Annual Operation & Maintenance Contract for round the clock services for 01 No. 33KV PSS & 03 Nos. 11KV/433V DSS at Rajeev Gandhi South Campus, BHU, Barkachha, Mirzapur U.P.”

- (iii) **While considering any similar job executed by applicant Firm under joint venture, the experience of the applicant Firm in that work shall be restricted to its share/ responsibilities as reflected in the Memorandum of Understanding (MoU), signed between the parties, while forming joint venture for that job, attested copy of which shall be submitted along with the technical bid.**

- (b) Should have had average annual financial turnover of `Rs. **146.50 Lacs** on similar works during the last three consecutive financial years ending 31<sup>st</sup> March, 2015 (**Scanned copy of certificate from CA to be uploaded**). This should be duly audited by a Chartered Accountant. The year in which no turnover is shown would also be considered for working out the average.
- (c) Should not have incurred any loss in more than two years during the last five years ending 31<sup>st</sup> March, 2015.
- (d) Should have a solvency certificate of `Rs. **58.60 Lacs** issued by Bank during the last six months. (**Scanned copy of original solvency certificate to be uploaded**).

- 1.2.2 **To become eligible for issue of tender, the contractors shall have to furnish an affidavit as under:-**

I/We undertake and confirm that eligible similar works(s) has/have not been got executed through another contractor on back to back basis. Further that, if such a violation comes to the notice of Department, then I/we shall be debarred for tendering in EWSS,BHU in future forever. Also, if such a violation comes to the notice of Department before date of start of work, the Engineer-in-Charge shall be free to forfeit the entire amount of Earnest Money Deposit/ (Scanned copy to be uploaded at the time of submission of bid).

2. Award of work contract/ order shall be placed on the successful tenderer on prescribed Format.
3. The time allowed for carrying out the AMC/ AOMC will be 12 Months from the date of start as defined in schedule 'F' or from the first date of handing over of the site, whichever is later, in accordance with the phasing, if any, indicated in the tender documents.
4. The site for the work is available.
5. The tender document consisting of plans, specifications, the schedule of quantities of various types of items to be executed and the set of terms and conditions of the contract to be complied with and other necessary documents except Standard General Conditions of Contract Form can be seen from website [www.eprocure.gov.in](http://www.eprocure.gov.in) or [www.bhu.ac.in](http://www.bhu.ac.in) free of cost.
6. After submission of the tender the contractor can re-submit revised tender any number of times but before last time and date of submission of tender as notified.
7. While submitting the revised bid, contractor can revise the bid price, but before last time & date of submission of tender as notified.
8. The quoted base price shall remain FIRM till the complication of work.
9. a) Earnest Money `Rs. 7,32,500/- can be paid in the form of Demand Draft or Fixed Deposit Receipt (**drawn in favor of Superintending Engineer, EWSS, BHU, Varanasi, payable at Varanasi**) or Bank Guarantee of any Scheduled Bank wherever applicable in accordance with the Form annexed hereto having validity for 6 months or more from the last date of receipt of tenders shall be scanned and uploaded to the e-tendering website within the period of tender submission.

**b) Cost of Tender Document – NIL**

Demand Draft or FDR or Bank Guarantee against EMD shall be placed in single sealed envelope superscripted as "Earnest Money" with name of work/job and due date of opening of the tender also mentioned thereon.

10. Copy of certificate of work experience, copy of enlistment order, Audited Balance Sheet, Bank Solvency Certificate and other documents mentioned in the PQ Document shall be scanned and uploaded to the e-tendering website within the period of tender submission and certified copy of each shall be deposited in a separate envelope marked as "Eligibility Documents"

Both the envelopes shall be placed in another envelope with due mention of Name of work/ job and due date of opening of tenders and to be submitted in the office of Superintending **Engineer, EWSS, BHU, Varanasi** before last date & time of submission of bid and up to 11.00 AM on **28.09.2015** The documents submitted shall be opened at 04:00 PM on **28.09.2015**

***Online Bid Documents submitted by intending bidders shall be opened only of those bidders, whose Earnest Money deposit and other documents placed in the envelope are found in order.***

11. The bid submitted shall become invalid and cost of bid & e-Tender processing fee shall not be refunded if:
  - (i) The bidders is found ineligible.
  - (ii) The bidders does not upload all the documents (including service tax registration/ VAT registration/ Sales Tax registration) as stipulated in the bid document.
  - (iii) If any discrepancy is noticed between the documents as uploaded at the time of submission of bid and hard copies as submitted physically in the office of tender opening authority.
12. The Earnest Money of the successful bidder shall be retained as performance guarantee/ security deposit till the completion of work.
13. Intending bidders are advised to inspect and examine the site and its surroundings and satisfy themselves before submitting their tenders as to the nature of the ground and sub-soil (so far as is practicable), the form and nature of the site, the means of access to the site, the accommodation they may require and in general shall themselves obtain all necessary information as to risks, contingencies and other circumstances which may influence or affect their tender. A tenderer shall be deemed to have full knowledge of the site whether he inspects it or not and no extra charge consequent upon any misunderstanding or otherwise shall be allowed. The tenderer shall be responsible for arranging and maintaining at his own cost all materials, tools & plants, water, electricity access, facilities for workers and all other services required for executing the work unless otherwise specifically provided for in the contract documents. Submission of a tender by a tenderer implies that he has read this notice and all other contract documents and has made himself aware of the scope and specifications of the work to be done and of conditions and rates at which stores, tools and plant, etc. will be issued to him by the Government and local conditions and other factors having a bearing on the execution of the work.



14. The competent authority on behalf of the University does not bind itself to accept the lowest tender or any other tender and reserves to itself the authority to reject any or all the tenders received without assigning any reason whatsoever. All tenders in which any of the prescribed condition is not fulfilled or any condition including that of conditional rebate is put forth by the tenderer shall be summarily rejected.
15. Canvassing whether directly or indirectly, in connection with tenderers is strictly prohibited and the tenders submitted by the contractors who resort to canvassing will be liable to rejection.
16. The competent authority on behalf of university reserves to himself the right of accepting the whole or any part of the bid and the bidders shall be bound to perform the same at the rate quoted.
17. The contractor shall not be permitted to tender for works/job in the EWS, if his near relative is posted as an officer in any capacity between the grades of Superintending Engineer and Assistant Engineer (both inclusive).. Any breach of this condition by the contractor would render him liable to be removed from the approved list of contractors of this Department.
18. No Engineer of gazetted rank or other Gazetted Officer employed in Engineering or Administrative duties in an Engineering Department of the Government of India is allowed to work as a contractor for a period of one year after his retirement from Government service, without the previous permission of the Government of India in writing. This contract is liable to be cancelled if either the contractor or any of his employees is found any time to be such a person who had not obtained the permission of the Government of India as aforesaid before submission of the tender or engagement in the contractor's service.
19. The bid for the works shall remain open for acceptance for a period of (120) one hundred twenty days from the date of opening of financial bids. If any bidder withdraws his bid before the said period or issue of letter of acceptance, whichever is earlier, or makes any modifications in the terms and conditions of the bid which are not acceptable to the department, then the Government shall, without prejudice to any other right or remedy, be at liberty to forfeit 50% of the said earnest money as aforesaid. Further the bidders shall not be allowed to participate in the re-bidding process of the work.
20. This notice inviting bid shall form a part of the contract document. The successful bidder/contractor, on acceptance of his bid by the Accepting Authority shall within 15 days from the stipulated date of start of the work, sign contract/ work order consisting of: -
  - a) The Notice Inviting bid, all the documents including Special Conditions, General Specifications/ Particular Specifications and drawings, if any, forming part of the bid as uploaded at the time of invitation of bid and the rates quoted online at the time of submission of bid and acceptance thereof together with any correspondence leading thereto.
  - b) Standard EWSS Contract/ work order and/ or other Standard EWSS form.

## **21. For Composite Tenders**

- 21.1.1 The Superintending Engineer will call bids for the composite work. The cost of bid document and Earnest Money will be fixed with respect to the combined estimated cost put to tender for the composite tender.
- 21.1.2 The bid document will include following four components:
 

Part A:-**EWSS e-TENDER , EWSS FORM-1** including schedule A to F for the major component of the work, Standard General Conditions of Contract for EWSS as amended upto date.

Part B:- General / specific conditions, specifications

Part C: Schedule A to F for minor component of the work. (Superintending Engineer of major component shall also be competent authority under clause 2 and clause 5 as mentioned in schedule A to F for major components)

Part D:- schedule of quantities applicable to AMC/ AOMC work.
- 21.1.3 The bidders must associate with himself, agencies of the appropriate class worked with EWSS and eligible to bid for each of the minor component individually.
- 21.1.4 The eligible bidders shall quote rates for all items of major component as well as for all items of minor components of the bid.
- 21.1.5 After acceptance of the bid by competent authority, the superintending engineer/ executive engineer shall issue the letter of intent/contract order on behalf of the University.
- 21.1.6 Entire work under the scope of composite tender including major and all minor components shall be executed under the contract order.
- 21.1.7 The Earnest Money of the successful bidder shall be retained as performance guarantee/ security deposit till the completion of work.

- 21.1.8 The main contractor has to associate agency(s) for minor component(s) conforming to eligibility criteria as defined in the tender document and has to submit detail of such agency(s) to Engineer-in-charge of minor component(s) within prescribed time. Name of the agency(s) to be associated shall be approved by Engineer-in-charge of minor component(s).
- 21.1.9 In case the main contractor intends to change any of the above agency/ agencies during the operation of the contract, he shall obtain prior approval of respective Engineer-in-charge/ DDH of the agreement. The new agency/ agencies shall also have to satisfy the laid down eligibility criteria. In case Engineer-in-charge of respective discipline is not satisfied with the performance of any agency, he can direct the contractor to change the agency executing such items of work and this shall be binding on the contractor.
- 21.1.10. The composite work shall be treated as complete when all the components of the work are complete. The completion certificate of the composite work shall be recorded by Engineer-in-charge of major component after record of completion certificate of all other components.
- 21.1.11. Final or running bill of the work / job shall be finalized by EWSS. No advance payment shall be made in any form. However, payment alongwith all applicable taxes shall be made on monthly running bill basis.
- 21.1.12 It will be obligatory on the part of the tenderer to sign the tender documents for all components before the first payment is released.

**SUPERINTENDING ENGINEER  
ELECTRIC & WATER SUPPLY SERVICES  
BANRAS HINDU UNIVERSITY  
VARANASI**

**INTEGRITY PACT**

To,

.....\*  
.....\*  
.....\*

Sub: NIT No. ----- for the

- (a) **Annual Maintenance Contract for round the clock services for 01 No. 33KV PSS & 23 Nos. 11KV/433V DSS at Banaras Hindu University Campus, Varanasi U.P.**
- (b) **Annual Operation & Maintenance Contract for round the clock services for 01 No. 33KV PSS & 03 Nos. 11KV/433V DSS at Rajeev Gandhi South Campus, BHU, Barkachha, Mirzapur U.P.**

Dear Sir,

It is here by declared that EWSS is committed to follow the principle of transparency, equity and competitiveness in public procurement/ work.

The subject Notice Inviting Tender (NIT) is an invitation to offer made on the condition that the Tenderer will sign the integrity Agreement, which is an integral part of tender/tender documents, failing which the tenderer will stand disqualified from the tendering process and the tender of the tenderer would be summarily rejected.

This declaration shall form part and parcel of the Integrity Agreement and signing of the same shall be deemed as acceptance and signing of the Integrity Agreement on behalf of Registrar, Banaras Hindu University.

Yours faithfully

Superintending Engineer

\*To be filled in by the S.E

INTEGRITYPACT

To,

Superintending Engineer, Electric  
& Water Supply Services,  
Banaras Hindu  
University, Varanasi.

Sub: Submission of Tender for the work of

- (a) Annual Maintenance Contract for round the clock services for 01 no. 33KV PSS & 23 Nos. 11KV/433V DSS at Banaras Hindu University Campus, Varanasi U.P.
- (b) Annual Operation & Maintenance Contract for round the clock services for 01 No. 33KV PSS & 03 Nos. 11KV/433V DSS at Rajeev Gandhi South Campus, BHU, Barkachha, Mirzapur U.P.

Dear Sir,

I/We acknowledge that EWSS is committed to follow the principles thereof as enumerated in the Integrity Agreement enclosed with the tender/tender document.

I/We agree that the Notice Inviting Tender (NIT) is an invitation to offer made on the condition that I/We will sign the enclosed integrity Agreement, which is an integral part of tender documents, failing which I/We will stand disqualified from the tendering process. I/We acknowledge that THE MAKING OF THE TENDER SHALL BE REGARDED AS AN UNCONDITIONAL AND ABSOLUTE ACCEPTANCE of this condition of the NIT.

I/We confirm acceptance and compliance with the Integrity Agreement in letter and spirit and further agree that execution of the said Integrity Agreement shall be separate and distinct from the main contract, which will come into existence when tender/tender is finally accepted by EWSS. I/We acknowledge and accept the duration of the Integrity Agreement, which shall be in the line with Article 1 of the enclosed Integrity Agreement.

I/We acknowledge that in the event of my/our failure to sign and accept the Integrity Agreement, while submitting the tender/tender, EWSS shall have, absolute and unfettered right to disqualify the tenderer and reject the tender in accordance with terms and conditions of the tender.

Yours faithfully

(Duly authorized signatory of the Tenderer)

INTEGRITY PACT

**To be signed by the tender and signatory competent authorized to sign the relevant contract on behalf of Registrar, Banaras Hindu University**

INTEGRITY AGREEMENT

This Integrity Agreement is made at ..... \* .....on this ..... \* .....day of ..... \* .....2015

BETWEEN

**Superintending Engineer, Electric & Water Supply Services, Banaras Hindu University, Varanasi**

AND

..... \* .....  
(Name and Address of the Individual/firm/Company)

through ..... \* .....(Hereinafter referred to as the  
(Details of duly authorized signatory)

“Tenderder/Contractor” and which expression shall unless repugnant to the meaning or context hereof include its successors and permitted assigns)

Preamble

WHEREAS the Principal / Owner has floated the Tender (NIT No. -----) (hereinafter referred to as “Tender/Tender”) and intends to award, under laid down organizational procedure, AMC/ AOMC contract for Annual Maintenance Contract for round the clock services for 01 no. 33KV PSS & 23 Nos. 11KV/433V DSS at Banaras Hindu University Campus, Varanasi, U.P.. hereinafter referred to as the “Contract”.

AND WHEREAS the Principal/Owner values full compliance with all relevant laws of the land, rules, regulations, economic use of resources and of fairness/transparency in its relation with its Tenderer(s) and Contractor(s).

AND WHEREAS to meet the purpose aforesaid both the parties have agreed to enter into this Integrity Agreement (hereinafter referred to as “Integrity Pact” or “Pact”), the terms and conditions of which shall also be read as integral part and parcel of the Tender/Tender documents and Contract between the parties.

NOW, THEREFORE, in consideration of mutual covenants contained in this Pact, the parties hereby agree as follows and this Pact witnesses as under:

\*To be filled in by the S.E.

## INTEGRITY PACT

### Article 1: Commitment of the Principal/Owner

- 1) The Principal/Owner commits itself to take all measures necessary to prevent corruption and to observe the following principles:
  - (a) No employee of the Principal/Owner, personally or through any of his/her family members, will in connection with the Tender, or the execution of the Contract, demand, take a promise for or accept, for self or third person, any material or immaterial benefit which the person is not legally entitled to.
  - (b) The Principal/Owner will, during the Tender process, treat all Tenderer(s) with equity and reason. The Principal/Owner will, in particular, before and during the Tender process, provide to all Tenderer(s) the same information and will not provide to any Tenderer(s) confidential / additional information through which the Tenderer(s) could obtain an advantage in relation to the Tender process or the Contract execution.
  - (c) The Principal/Owner shall endeavour to exclude from the Tender process any person, whose conduct in the past has been of biased nature.
- 2) If the Principal/Owner obtains information on the conduct of any of its employees which is a criminal offence under the Indian Penal code (IPC)/Prevention of Corruption Act, 1988 (PC Act) or is in violation of the principles herein mentioned or if there be a substantive suspicion in this regard, the Principal/Owner will inform the Chief Vigilance Officer and in addition can also initiate disciplinary actions as per its internal laid down policies and procedures.

### Article 2: Commitment of the Tenderer(s)/Contractor(s)

- 1) It is required that each Tenderer/Contractor (including their respective officers, employees and agents) adhere to the highest ethical standards, and report to the Government / Department all suspected acts of fraud or corruption or Coercion or Collusion of which it has knowledge or becomes aware, during the tendering process and throughout the negotiation or award of a contract.
- 2) The Tenderer(s)/Contractor(s) commits himself to take all measures necessary to prevent corruption. He commits himself to observe the following principles during his participation in the Tender process and during the Contract execution:
  - a) The Tenderer(s)/Contractor(s) will not, directly or through any other person or firm, offer, promise or give to any of the Principal/Owner's employees involved in the Tender process or execution of the Contract or to any third person any material or other benefit which he/she is not legally entitled to, in order to obtain in exchange any advantage of any kind whatsoever during the Tender process or during the execution of the Contract.
  - b) The Tenderer(s)/Contractor(s) will not enter with other Tenderer(s) into any undisclosed agreement or understanding, whether formal or informal. This applies in particular to prices, specifications, certifications, subsidiary contracts, submission or non-submission of tenders or any other actions to restrict competitiveness or to cartelize in the tendering process.

## INTEGRITY PACT

- c) The Tenderer(s)/Contractor(s) will not commit any offence under the relevant IPC/PC Act. Further the Tenderer(s)/Contractor(s) will not use improperly, (for the purpose of competition or personal gain), or pass on to others, any information or documents provided by the Principal/Owner as part of the business relationship, regarding plans, technical proposals and business details, including information contained or transmitted electronically.
  - d) The Tenderer(s)/Contractor(s) of foreign origin shall disclose the names and addresses of agents/representatives in India, if any. Similarly Tenderer(s)/Contractor(s) of Indian Nationality shall disclose names and addresses of foreign agents/representatives, if any. Either the Indian agent on behalf of the foreign principal or the foreign principal directly could tender in a tender but not both. Further, in cases where an agent participate in a tender on behalf of one manufacturer, he shall not be allowed to quote on behalf of another manufacturer along with the first manufacturer in a subsequent/parallel tender for the same item.
  - e) The Tenderer(s)/Contractor(s) will, when presenting his tender, disclose any and all payments he has made, is committed to or intends to make to agents, brokers or any other intermediaries in connection with the award of the Contract.
- 3) The Tenderer(s)/Contractor(s) will not instigate third persons to commit offences outlined above or be an accessory to such offences.
  - 4) The Tenderer(s)/Contractor(s) will not, directly or through any other person or firm indulge in fraudulent practice means a willful misrepresentation or omission of facts or submission of fake/forged documents in order to induce public official to act in reliance thereof, with the purpose of obtaining unjust advantage by or causing damage to justified interest of others and/or to influence the procurement process to the detriment of the University interests.
  - 5) The Tenderer(s)/Contractor(s) will not, directly or through any other person or firm use Coercive Practices (means the act of obtaining something, compelling an action or influencing a decision through intimidation, threat or the use of force directly or indirectly, where potential or actual injury may befall upon a person, his/ her reputation or property to influence their participation in the tendering process).

### Article 3: Consequences of Breach

Without prejudice to any rights that may be available to the Principal/Owner under law or the Contract or its established policies and laid down procedures, the Principal/Owner shall have the following rights in case of breach of this Integrity Pact by the Tenderer(s)/Contractor(s) and the Tenderer/Contractor accepts and undertakes to respect and uphold the Principal/Owner's absolute right:

- 1) If the Tenderer(s)/Contractor(s), either before award or during execution of Contract has committed a transgression through a violation of Article 2 above or in any other form, such as to put his reliability or credibility in question, the Principal/Owner after giving 14 days notice to the contractor shall have powers to disqualify the Tenderer(s)/ Contractor(s) from the Tender process or

## INTEGRITY PACT

terminate/determine the Contract, if already executed or exclude the Tenderer/Contractor from future contract award processes. The imposition and duration of the exclusion will be determined by the severity of transgression and determined by the Principal/Owner. Such exclusion may be forever or for a limited period as decided by the Principal/Owner.

- 2) Forfeiture of EMD/Performance Guarantee/Security Deposit: If the Principal/Owner has disqualified the Tenderer(s) from the Tender process prior to the award of the Contract or terminated/determined the Contract or has accrued the right to terminate/determine the Contract according to Article 3(1), the Principal/Owner apart from exercising any legal rights that may have accrued to the Principal/Owner, may in its considered opinion forfeit the entire amount of Earnest Money Deposit, Performance Guarantee and Security Deposit of the Tenderer/Contractor.
- 3) Criminal Liability: If the Principal/Owner obtains knowledge of conduct of a Tenderer or Contractor, or of an employee or a representative or an associate of a Tenderer or Contractor which constitutes corruption within the meaning of IPC Act, or if the Principal/Owner has substantive suspicion in this regard, the Principal/Owner will inform the same to law enforcing agencies for further investigation.

### Article 4: Previous Transgression

- 1) The Tenderer declares that no previous transgressions occurred in the last 5 years with any other Company in any country confirming to the anticorruption approach or with Central Government or State Government or any other Central/State Public Sector Enterprises in India that could justify his exclusion from the Tender process.
- 2) If the Tenderer makes incorrect statement on this subject, he can be disqualified from the Tender process or action can be taken for banning of business dealings/ holiday listing of the Tenderer/Contractor as deemed fit by the Principal/ Owner.
- 3) If the Tenderer/Contractor can prove that he has resorted / recouped the damage caused by him and has installed a suitable corruption prevention system, the Principal/Owner may, at its own discretion, revoke the exclusion prematurely.

### Article 5: Equal Treatment of all Tenderers/Contractors/Subcontractors

- 1) The Tenderer(s)/Contractor(s) undertake(s) to demand from all subcontractors a commitment in conformity with this Integrity Pact. The Tenderer/Contractor shall be responsible for any violation(s) of the principles laid down in this agreement/Pact by any of its Sub-contractors/sub-vendors.
- 2) The Principal/Owner will enter into Pacts on identical terms as this one with all Tenderers and Contractors.



## **INTEGRITY PACT**

The Principal/Owner will disqualify Tenderers, who do not submit, the duly signed Pact between the Principal/Owner and the tenderer, along with the Tender or violate its provisions at any stage of the Tender process, from the Tender process.

### Article 6-Duration of the Pact

- 3) This Pact begins when both the parties have legally signed it. It expires for the Contractor/Vendor 12 months after the completion of work under the contract or till the continuation of defect liability period, whichever is more and for all other tenderers, till the Contract has been awarded.

If any claim is made/lodged during the time, the same shall be binding and continue to be valid despite the lapse of this Pacts as specified above, unless it is discharged/determined by the Competent Authority, EWSS.

### Article 7-Other Provisions

- 1) This Pact is subject to Indian Law, place of performance and jurisdiction is the Head quarters of the Division of the Principal/Owner, who has floated the Tender.
- 2) Changes and supplements need to be made in writing. Side agreements have not been made.
- 3) If the Contractor is a partnership or a consortium, this Pact must be signed by all the partners or by one or more partner holding power of attorney signed by all partners and consortium members. In case of a Company, the Pact must be signed by a representative duly authorized by board resolution.
- 4) Should one or several provisions of this Pact turn out to be invalid; the remainder of this Pact remains valid. In this case, the parties will strive to come to an agreement to their original intentions.
- 5) It is agreed term and condition that any dispute or difference arising between the parties with regard to the terms of this Integrity Agreement / Pact, any action taken by the Owner/Principal in accordance with this Integrity Agreement/ Pact or interpretation thereof shall not be subject to arbitration.

**Article8-LEGALANDPRIORRIGHTS**

All rights and remedies of the parties hereto shall be in addition to all the other legal rights and remedies belonging to such parties under the Contract and/or law and the same shall be deemed to be cumulative and not alternative to such legal rights and remedies aforesaid. For the sake of brevity, both the Parties agree that this Integrity Pact will have precedence over the Tender/Contract documents with regard any of the provisions covered under this Integrity Pact.

IN WITNESS WHEREOF the parties have signed and executed this Integrity Pact at the place and date first above mentioned in the presence of following witnesses:

.....\* .....  
(For and on behalf of Principal/Owner)

.....\* .....  
(For and on behalf of Tenderer/Contractor)

WITNESSES:

1. ....\* .....  
(signature, name and address)

2. ....\* .....  
(signature, name and address)

Place:

Dated :

\* To be filled in by the Superintending Engineer & tenderer as the case may be

**EWSS FORM-1****BANARAS HINDU UNIVERSITY  
ELECTRIC & WATER SUPPLY SERVICES****ITEM RATE TENDER & CONTRACT FOR AMC/ AOMC WORK**

(A) Tender for the work of:

- (a) Annual Maintenance Contract for round the clock services for 01 No. 33KV PSS & 23 Nos. 11KV/433V DSS at Banaras Hindu University Campus, Varanasi, U.P.
- (b) Annual Operation & Maintenance Contract for round the clock services for 01 No. 33KV PSS & 03 Nos. 11KV/433V DSS at Rajeev Gandhi South Campus, BHU, Barkachha, Mirzapur U.P.

(Time)

(Date)

- (i) To be submitted by 11.00 AM on 28.09.2015 in the office of Superintending Engineer, EWSS, BHU, Varanasi.
- (ii) To be opened in presence of tenderers who may be present at 04:00 PM on 28.09.2015 in the office of the Superintending Engineer, Electric & Water Supply Services, BHU, Varanasi

**TENDER**

I/We have read and examined the notice inviting tender, schedule, A, B, C, D, E & F Specifications applicable, Drawings & Designs, General Rules and Directions, Conditions of Contract, clauses of contract, Special conditions, Schedule of Rate & other documents and Rules referred to in the conditions of contract and all other contents in the tender document for the work.

I/We hereby tender for the execution of the work/job specified for the President of India within the time specified in Schedule 'F' viz., schedule of quantities and in accordance in all respect with the specifications, designs, drawing and instructions in writing referred to in Rule-1 of General Rules and Directions and in Clause 11 of the Conditions of contract and with such materials as are provided for, by, and in respect of accordance with, such conditions so far as applicable.

We agree to keep the tender open for 120 (one hundred twenty) days from the due date of its opening and not to make any modification in its terms and conditions.

A sum of **Rs. 7,32,500/-** is hereby forwarded in fixed deposit receipt of scheduled bank/demand draft of a scheduled bank as earnest money. If I/We, fail to furnish the prescribed performance guarantee within prescribed period. I/We agree that the university has to right to forfeit the said earnest money absolutely. Further, if I/We fail to commence work as specified, I/We agree that the university has to right to forfeit the said performance guarantee absolutely. The said performance guarantee shall be a guarantee to execute all the works referred to in the tender documents upon the terms and conditions contained or referred to those in excess of that limit at the rates to be determined in accordance with the provision contained in Clause 12.2 and 12.3 of the tender form. Further, I/We agree that in case of forfeiture of Earnest Money or Performance Guarantee as aforesaid, I/We shall be debarred for participation in the re-tendering process of the work.

I/We undertake and confirm that eligible similar work(s) has/have not been got executed through another contractor on back to back basis. Further that, if such a violation comes to the notice of Department, then I/We shall be debarred for tendering in EWSS in future forever. Also, if such a violation comes to the notice of Department before date of start of work, the Engineer-in-Charge shall be free to forfeit the entire amount of Earnest Money Deposit.

I/We hereby declare that I/We shall treat the tender documents drawings and other records connected with the work as secret/confidential documents and shall not communicate information/derived therefrom to any person other than a person to whom I/We am/are authorized to communicate the same or use the information in any manner prejudicial to the safety of the State.

Dated:

Signature of Contractor

Witness:

Postal Address

Address: Occupation:

# ACCEPTANCE

The above tender (as modified by you as provided in the letters mentioned hereunder) is accepted by me on behalf of the Registrar, Banaras Hindu University for a sum of `

..... (Rupees  
.....  
.....).

The letters referred to below shall form part of this contract / work order

(a)

(b)

(c)

For & on behalf of Registrar, Banaras Hindu University

.....

Dated:

Designation .....

**PROFORMA OF SCHEDULES**

(Separate Performa for Civil, Elect. & Hort. Works in case of Composite Tenders) (Operative Schedules to be supplied separately to each intending tenderer)

**SCHEDULE 'A'**

Schedule of AMC/ AOMC work.

**SCHEDULE 'B'**

Schedule of materials to be issued to the contractor on returnable basis

S.No.	Description of item	Quantity	Rates at which the material will be charged to the contractor in case of non-return.	Place of issue
1	2	3	4	5
1	Megger	02	Rs. 5,00,000/-	EWSS Deptt.
2	Multimeter	02	Rs. 40,000/-	EWSS Deptt.
3	Tong tester	02	Rs. 36,000/-	EWSS Deptt.

**SCHEDULE 'C'**

Tools and plants to be hired to the contractor

S.No.	Description	Hire charges per day	Place of Issue
1	2	3	4
-----NIL-----			

**SCHEDULE 'D'**

Extra schedule for specific requirements/ document for the work, if any. As attached in tender form any

**SCHEDULE 'E'**

Reference to General Conditions of contract.

<b>Name of Work:</b> (a) Annual Maintenance Contract for round the clock services for 01 No. 33KV PSS & 23 Nos. 11KV/433V DSS at Banaras Hindu University Campus Varanasi, U.P.	
(b) Annual Operation & Maintenance Contract for round the clock services for 01 No. 33KV PSS & 03 Nos. 11KV/433V DSS at Rajeev Gandhi South Campus, BHU, Barkachha, Mirzapur U.P.	
Estimated cost of the work per annum:	Rs. 1,46,50,000/-
Earnest money	Rs. 7,32,500/- (To be retained only for successful tenderer till the completion the work)

**SCHEDULE 'F'****GENERAL RULES & DIRECTIONS:**

Officer inviting tender	Superintending Engineer EWSS Banaras Hindu University Varanasi
Maximum percentage of quantity of items of work to be executed beyond which Rates are to be determined in accordance with Clause 12.2.&12.3	NA

**Definitions:**

2(v)	Engineer-in-Charge For Electrical items of work	Executive Engineer E W S S ,BHU.,Varanasi.
2(vii)	Accepting Authority	Superintending Engineer E W S S ,BHU.,Varanasi.
2(x)	Percentage on cost of materials & labor to cover all overheads and profits	NA
2(xi)	Standard Schedule of Rates: Electrical Items of Work:	As per previously executed contract order.
2(xii)	Department:	EWSS, BHU

Clause 1	i) Time allowed for submission of Performance Guarantee from the date of issue of letter of acceptance	NA
Clause 2	Number of days from the date of issue of letter of acceptance for reckoning date of start	NA

## Milestone/Bar Chart(s)-

	AMC/ AOMC Period	12Months
Authority to decide Extension of time	Engineer-in-Charge	
Rescheduling of mile stone	Engineer-in-Charge	
Shifting of date of start in case of delay in handing over of site	<b>Engineer-in-Charge</b>	
Clause6, 6A	Clause applicable	Clause6A
Clause7	Gross work to be done together with net payment/Adjustment of advances for material collected, if any, since the last such payment for being eligible to interim payment	NA
Clause10A	List of testing equipment to be provided by the contractor at site lab.	Refer page No. 38
Clause10B (ii)	Whether clause 10-B (ii) shall be applicable.	No
Clause10C	Component of labour expressed as percentage of value of work	80%
Clause10CA	Materials covered Under this clause.	Nearest material for which All India Wholesale Price Index/ prevailing market rate is to be followed. NA
Clause 10CC	Clause 10 CC to be applicable in contracts with stipulated period of completion exceeding the period shown in next column Schedule of component of other Materials, Labour, POL etc. for price escalation	NA



Clause11 Specification to be followed for execution of work:

For Electrical items of work Best practice of power corporation& power grid and other Indian electricity rule.

Clause12		
12.2 &12.3	Deviation limit beyond which clause 12.2 &12.3 shall apply for AMC/ AOMC work	30%

Clause16	Competent Authority for Deciding reduced rates:	
	For Electrical items of work	Superintending Engineer E W S S , BHU., Varanasi.
Clause18	Mandatory machinery tools & plants to be deployed by the contractor at site.	As per standard practices.

Clause25

Constitution of Dispute Redressal Committee(DRC)	Competent Authority to appoint DRC
DRC shall constitute one Chairman and two members	Superintending Engineer E W S S , BHU., Varanasi.

Clause 36(i) Requirement of Technical Representative(s) and Recovery Rate

(a) For AMC, BHU

Sl. No.	Minimum Qualification of Technical Representative	Discipline	Designation (Principal Technical/Technical representative)	Minimum experience	number	Rate at which recovery shall be made from the Contractor in the event of not fulfilling provision of Clause 36 (i)	
						Figures	Words
1	Graduate Engineer	Electrical Engineering	Site In-charge	7 Years	1 No.	60,000/- pm	Sixty Thousand
2	Diploma Engineer	Electrical Engineering	Shift In-charge	4 Years	4 Nos.	30,000/- pm	Thirty Thousand
3	ITI holder	ITI Elect.	Senior Electrician	7 years	6 Nos	14,000/- pm	Fourteen Thousand
4	ITI holder	ITI Fitter	Fitter	7 years	1 No.	14,000/- pm	Fourteen Thousand
5	ITI holder	ITI Elect.	Electrician cum Helper	5 years	6 Nos	9,000/- pm	Nine Thousand

(b) For AOMC RGSC, BHU

Sl. No.	Minimum Qualification of Technical Representative	Discipline	Designation (Principal Technical/Technical representative)	Minimum experience	number	Rate at which recovery shall be made from the contractor in the event of not fulfilling provision of Clause 36(i)	
						Figures	Words
1	Graduate Engineer or Diploma Engineer	Electrical Engineering	Site In-charge	7 Years /12 years	1 No.	45,000/- pm	Forty five Thousand
2	ITI holder	ITI Elect.	Senior Electrician	7 years	04 Nos	14,000/- pm	Fourteen Thousand
3	ITI holder	ITI Fitter	Fitter	7 years	1 No.	14,000/- pm	Fourteen Thousand
4	ITI holder	ITI Elect.	Electrician cum Helper	5 years	05 Nos	9,000/- pm	Nine Thousand

Assistant Engineers retired from Government services that are holding Diploma will be treated at par with Graduate Engineers.

## **General Rules & Directions:**

1. All work proposed for execution by contract will be notified in a form of invitation to tender pasted in public places and signed by the officer inviting tender or by publication in News papers as the case may be.

This form will state the work to be carried out, as well as the date of submitting and opening tenders and the time allowed for carrying out the work, also the amount of earnest money to be deposited with the tender, and the amount of the security deposit and Performance guarantee to be deposited by the successful tenderer and the percentage, if any, to be deducted from bills. Copies of the specifications, designs and drawings and any other documents required in connection with the work signed for the purpose of identification by the officer inviting tender shall also be open for inspection by the contractor at the office of officer inviting tender during office hours.

2. In the event of the tender being submitted by a firm, it must be signed separately by each partner thereof or in the event of the absence of any partner, it must be signed on his behalf by a person holding a power holding a power-of attorney authorizing him to do so, such power of attorney to be produced with the tender, and it must disclose that the firm is duly registered under the Indian Partnership Act, 1952.
3. Receipts for payment made on account of work, when executed by a firm, must also be signed by all the partners, except where contractors are described in their tender as a firm, in which case the receipts must be signed in the name of the firm by one of the partners, or by some other person having due authority to give effectual receipts for the firm.
4. Any person who submits a tender (applicable for item rate tender only) shall fill up the usual printed form, stating at what rate he is willing to undertake each item of the work. Tenders, which propose any alteration in the work specified in the said form of invitation to tender, or in the time allowed for carrying out the work, or which contain any other conditions of any sort, including conditional rebates, will be summarily rejected. No single tender shall include more than one work, but contractors who wish to tender for two or more works shall submit separate tender for each. Tender shall have the name and number of the works to which they refer, written on the envelopes.

The rate(s) must be quoted in decimal coinage. Amounts must be quoted in full rupees by ignoring fifty paisa and considering more than fifty paisa as rupee one.

In case the lowest tendered amount (worked out on the basis of quoted rate of individual items) of two or more contractors is same, then such lowest contractors may be asked to submit sealed revised offer quoting rate of each item of the schedule of quantity for all sub sections/sub heads as the case may be, but the revised quoted rate of each item of schedule of quantity for all sub sections/sub heads should not be higher than their respective original rate quoted already at the time of submission of tender. The lowest tender shall be decided on the basis of revised offer.

In the revised tender amount (worked out on the basis of quoted rate of individual items) of two or more contractors received in revised offer is again found to be equal, then the lowest tender, among such contractors, shall be decided by draw of lots in the presence of SE & the lowest contractors those have quoted equal amount of their tenders.

In case of any such lowest contractor in his revised offer quotes rate of any items more than their respective original rate quoted already at the time of submission of tender, then such revised offer shall be treated invalid. Such case of revised offer of the lowest contractor or case of refusal to submit revised offer by the lowest contractor shall be treated as withdrawal of his tender before acceptance and 50% of his earnest money shall be forfeited.

In case all the lowest contractors those have same tendered amount (as a result of their quoted rate individual items), refuse to submit revised offers, then tenders are to be recalled after forfeiting 50% of EMD of each lowest contractors.

Contractor, whose earnest money is forfeited because of non-submission of revised offer, or quoting higher revised rate(s) of any item(s) than their respective original rate quoted already at the time of submission on his bid shall not be allowed to participate in the re-tendering process of the work.

- 4A. In case of Percentage Rate Tenders, tenderer shall fill up the usual printed form, stating at what percentage below/above (in figures as well as in words) the total estimated cost given in Schedule of Quantities at Schedule- A, he will be willing to execute the work. The tender submitted shall be treated as invalid if:
- (i) The contractor does not quote percentage above/below on the total amount of tender or any section/sub head of the tender.
  - (ii) The percentage above/below is not quoted in figures & words both on the total amount of tender or any section/sub head of the tender.
  - (iii) The percentage quoted above/below is different in figures & words on the total amount of tender or any section/sub head of the tender:

Tenders, which propose any alteration in the work specified in the said form of invitation to tender, or in the time allowed for carrying out the work, or which contain any other conditions of any sort including conditional rebates, will be summarily rejected. No single tender shall include more than one work, but contractors who wish to tender for two or more works shall submit separate tender for each. Tender shall have the name and number of the works to which they refer, written on the envelopes.

In case the lowest tendered amount of two or more contractors is same, such lowest contractors will be asked to submit sealed revised offer in the form of letter but the revised offer value should not be higher than the tender value quoted at the time of submission of tender. The lowest tender shall be decided on the basis of revised offers.

In case any of such contractor refuses to submit revised offer, then it shall be treated as withdrawal of his tender before acceptance and 50% of earnest money shall be forfeited.

If the revised tendered amount of two more contractors received in revised offer is again found to be equal, the lowest tender, among such contractors, shall be decided by draw of lots in the presence of SE & the lowest contractors those have quoted equal amount of their tenders.

In case all the lowest contractors those have quoted same tendered amount, refuse to submit revised offers, then tenders are to be recalled after forfeiting 50% of EMD of each contractor. Contractor(s),

whose earnest money is forfeited because of non- submission of revised offer, shall not be allowed to participate in the retendering process of the work.

5. The officer inviting tender or his duly authorized assistant will open tenders in the presence of any intending contractors who may be present at the time, and will enter the amounts of the several tenders in a comparative statement in a suitable form. In the event of a tender being accepted, a receipt for the earnest money shall thereupon be given to the contractor who shall thereupon for the purpose of identification sign copies of the specifications and other documents mentioned in Rule-I. In the event of a tender being rejected, the earnest money shall thereupon be returned to the contractor remitting the same, without any interest.
  6. The officer inviting tenders shall have the right of rejecting all or any of the tenders and will not be bound to accept the lowest or any other tender.
  7. The receipt of an accountant or clerk for any money paid by the contractor will not be considered as any acknowledgment or payment to the officer inviting tender and the contractor shall be responsible for seeing that he procures a receipt signed by the officer inviting tender or a duly authorized Cashier.
  8. The memorandum of work tendered for and the schedule of materials to be supplied by the department and their issue-rates, shall be filled and completed in the office of the officer inviting tender/ Executive Engineer before the tender form is issued. If a form is issued to an intending tenderer without having been so filled in and incomplete, he shall request the officer to have this done before he completes and delivers his tender.
  9. The tenderers shall sign a declaration under the officials Secret Act 1923, for maintaining secrecy of the tender documents drawings or other records connected with the work given to them. The unsuccessful tenderers shall return all the drawings given to them.
- 9A Use of correcting fluid, anywhere in tender document is not permitted. Such tender is liable for rejection.
10. In the case of Item Rate Tenders, only rates quoted shall be considered. Any tender containing percentage below/above the rates quoted is liable to be rejected. Rates quoted by the contractor in item rate tender in figures and words shall be accurately filled in so that there is no discrepancy in the rates written in figures and words. However, if a discrepancy is found, the rates which correspond with the amount worked out by the contractor shall unless otherwise proved be taken as correct. If the amount of an item is not worked out by the contractor or it does not correspond with the rates written either in figures or in words, then the rates quoted by the contractor in words shall be taken as correct. Where the rates quoted by the contractor in figures and in words tally, but the amount is not worked out correctly, the rates quoted by the contractor will unless otherwise proved be taken as correct and not the amount. In event no rate has been quoted for any item(s), leaving space both in figure(s), word(s), and amount blank, it will be presumed that the contractor has included the cost of this/these item(s) in other items and rate for such item(s) will be considered as zero and work will be required to be executed accordingly.
- 10A. In case of Percentage Rate Tenders only percentage quoted shall be considered. Any tender containing item rates is liable to be rejected. Percentage quoted by the contractor in percentage rate tender shall be accurately filled in figures and words, so that there is no discrepancy.

11. In the case of any tender where unit rate of any item/items appear unrealistic, such tender will be considered as unbalanced and in case the tenderer is unable to provide satisfactory explanation, such a tender is liable to be disqualified and rejected.
12. All rates shall be quoted on the price schedule in .xls form (BoQ).  
The amount for each item should be worked out and requisite totals given. Special care should be taken to write the rates in figures as well as in words and the amount in figures only, in such a way that interpolation is not possible. The total amount should be written both in figure and in words. In case of figures, the word 'Rs.' should be written before the figure of rupees and word 'P' after the decimal figures, e.g. 'Rs. 2.15 P' and in case of words, the word, 'Rupees' should precede and the word 'Paise' should be written at the end. Unless the rate is in whole rupees and followed by the word 'only' it should invariably be upto two decimal places. While quoting the rate in schedule of quantities, the word 'only' should be written closely following the amount and it should not be written in the next line.
- 12A. In Percentage Rate Tender, the tenderer shall quote percentage below/above (in figures as well as in words) at which he will be willing to execute the work. He shall also work out the total amount of his offer and the same should be written in figures as well as in words in such a way that no interpolation is possible. In case of figures, the word 'Rs.' should be written before the figure of rupees and word 'P' after the decimal figures, e.g. 'Rs. 2.15P' and in case of words, the word 'Rupees' should precede and the word 'Paisa' should be written at the end.
13. On acceptance of the tender, the name of the accredited representative(s) of the contractor who would be responsible for taking instructions from the Engineer-in- Charge shall be communicated in writing to the Engineer-in- Charge.
14. Sales-tax/VAT (except service tax), purchase tax, turnover tax or any other tax applicable in respect of this contract shall be payable by the Contractor and University will not entertain any claim whatsoever in respect of the same. However, in respect of service tax, same shall be paid to the contractor by the concerned department on demand.
15. The contractor shall give a list of both gazetted and non-gazetted University employees related to him.
16. The tender for the work shall not be witnessed by a contractor or contractors who himself/themselves has/have tendered or who may and has/have tendered for the same work. Failure to observe this condition would render, tenders of the contractors tendering, as well as witnessing the tender, liable to summary rejection.
17. The tender for composite work includes, all other works such as electric supply installations electrical work etc. The tenderer apart from being a registered contractor (B&R) of appropriate class, must associate himself with agencies of appropriate class which are eligible to tender for sanitary and water supply drainage, electrical and horticulture works in the composite tender.
18. The contractor shall submit list of works which are in hand (progress) in the following form:-

Name of Work	Name and Particulars of Divn. Where work is being executed	Value of Work	Position of works in Progress	Remarks

19. The contractor shall comply with the provisions of the Apprentices Act 1961, and the rules and orders issued thereunder from time to time. If he fails to do so, his failure will be a breach of the contract and the Superintending Engineer/Executive Engineer may in his discretion, without prejudice to any other right or remedy available in law, cancel the contract. The contractor shall also be liable for any pecuniary liability arising on account of any violation by him of the provisions of the said Act.
20. The contractor shall comply with the provisions of the U.P state construction and labor laws & Indian Electricity rule

## SALIENT/ MANDATORY REQUIREMENT FOR THE TENDER

Name of Work:

- (a) **Annual Maintenance Contract for round the clock services for 01 No. 33KV PSS & 23 Nos. 11KV/433V DSS at Banaras Hindu University Campus, Varanasi, U.P.**
- (b) **Annual Operation & Maintenance Contract for round the clock services for 01 No. 33KV PSS & 03 Nos. 11KV/433V DSS at Rajeev Gandhi South Campus, BHU, Barkachha, Mirzapur U.P.**

The tenderer is advised to read and examine the tender documents for the work and the set of drawings available with Engineer-in-charge. He should inspect and examine the site and its surroundings by himself before submitting his tender.

1. Separate schedule of quantity is included in this tender for AMC/ AOMC for the round clock services. The contractor shall quote the item rates in figures and words accurately so that there is no discrepancy in rates written in figures and words.
2. Period of AMC/ AOMC is 12 months.
3. The contractor(s) shall submit a detailed programme of activities of AMC/ AOMC within fifteen days from the date of issue of award letter/order.
4. Quality of the AMC/ AOMC services is of utmost importance. This shall be adhered to in accordance with the provisions of EWSS specifications and guidelines given in the relevant paras.
5. The contractor (s) shall make his own arrangements for Transportation required for providing the AMC/ AOMC services.
6. Contractor has to deploy required tools & Plants and machinery in the AMC/ AOMC work. In case the contractor fails to deploy the plant and machinery whenever required and as per the direction of the Engineer-in-charge, he (Engineer-in-charge) shall be at a liberty to get the same deployed at the risk and cost of the contractor.
7. The contractor shall submit the running bills on monthly basis in the standard format.
8. The contractor shall submit list of works which are in hand (progress) in the following form

Name of work	Name and particulars of Divn. where work is being executed	Value of work	Position of works in progress		Remarks
			Stipulated	Actual	
1	2	3	4	5	6

9. The contractor shall comply with the provisions of the Apprentices Act 1961, and the rules and orders issued there under from time to time. If he fails to do so, his failure will be a breach of the contract and the Superintending Engineer/Executive Engineer may in his discretion, without prejudice to any other right or remedy available in law, cancel the contract. The contractor shall also be liable for any pecuniary liability arising on account of any violation by him of the provisions of the said Act.



# **PART-B**

QUALITY ASSURANCE OF THE WORK

1. The contractor shall ensure quality control measures on different aspects of AMC/ AOMC services including materials, workmanship and correct maintenance methodologies to be adopted. He shall have to submit quality assurance programme within two weeks of the award of work. The quality assurance programme should include method statement for various items of work to be executed along with check lists to enforce quality control.
2. The contractor shall get the source of all other materials, not specified elsewhere in the document, approved from the Engineer-in-Charge. The contractor shall stick to the approved source unless it is absolutely unavoidable. Any change shall be done with the prior approval of the Engineer-in-Charge for which tests etc. shall be done by the contractor at his own cost. Similarly, the contractor shall submit brand/ make of various materials not specified in the agreement, to be used for the approval of the Engineer-in-Charge along with samples and once approved, he shall stick to it.

The representatives of the department shall be at liberty to inspect the testing procedure at site and conduct testing at random in consultation with Engineer in charge. The contractor shall provide all necessary facilities for the purpose.

B) Other Laboratories :

1. The contractor shall arrange carrying out of all tests required under the contract order through the laboratory as approved by the Engineer-in-Charge and shall bear all charges in connection therewith including fee for testing.
2. However, no testing charges will be payable to the contractor for the tests .

C) Sampling of Materials :

1. Maintenance of register of tests and material at site registers-
  - (i) All the registers of tests carried out at construction site or in outside laboratories shall be maintained by the contractor which shall be issued to the contractor by Engineer-in-Charge in the same manner as being issued to EWSS field staff.
  - (ii) All the MAS Registers shall be maintained by contractor which shall be issued to the contractor by Engineer-in-Charge in the same manner as being issued to EWSS field staff.

## ADDITIONAL TERMS AND CONDITIONS

1. Till the work is almost completed to the satisfaction of Engineer-in-Charge-
  - (i) Contractor shall not divert any advance payments or part thereof for any purpose other than needed for completion of the contracted work. All advance payments received as per terms of the contract (i.e. mobilization, secured against materials brought at site, secured against plant & machinery and/required to be re-invested in the contracted work to ensure advance availability resources in terms of materials, labour, plant & machinery needed for required pace of progress for timely completion of work.
  - (ii) All running account bills preferred by the contractor for advance payments shall be processed only if Engineer-in-charge is satisfied that upto date investments (excluding security deposit & performance guarantee, which are not considered as investments) made by the contractor against contracted work are more than the payments received. Accordingly, all running account bills shall be supported with an account of upto date payments received vis-à-vis upto date investments made on the work to enable Engineer-in-charge to check to his satisfaction that the payments made by Engineer-in-charge are properly utilized only on the work and nowhere else.
2. Unless otherwise provided in the Schedule of Quantities/Specifications, the rates tendered by the contractor shall be all inclusive and shall apply to all heights, lifts, leads and depths of the work and nothing extra shall be payable to him on account of the same.
3. The contractor shall make his own arrangement for obtaining electric connection(s) if required and make necessary payments directly to the department concerned.
4. Other agencies doing works related with this project may also simultaneously execute their works and the contractor shall afford necessary facilities for the same. The contractor shall leave such necessary holes, openings etc. for laying/burying in the work, pipes cables, conduits, clamps, boxes and hooks for fan clamps etc. as may be required for the other agencies. Nothing extra over the Agreement rates shall be paid for doing these.
5. Some restrictions may be imposed by the security staff etc. on the working and for movement of labour, materials etc. The contractor shall be bound to follow all such restrictions/instructions and nothing extra shall be payable on account of the same.
- 6.1 The contractor shall fully comply with all legal orders and directions of the Public or local authorities or municipality by their rules and regulations and pay all fees and charges for which he may be liable in this regard. Nothing extra shall be paid/reimbursed for the same.
7. The contractor shall give a performance reports of the entire installation(s) as per standing specifications before the work is finally accepted by making his own arrangements for electricity AMC/ AOMC for substations etc. and nothing extra whatsoever shall be payable for the same.
8. If as per local Municipal regulations, huts for labour are not to be erected at the site of work, the contractor shall be required to provide such accommodation at a place as is acceptable to the local body and nothing extra shall be paid on this account.
  - 11 The control and power drawings shall at all times be properly co-related before executing any work.

1. It shall be ensured by the contractor that no electric live wire Bus is left exposed or unattended to avoid any accidents in this regard.
- 13.1 The contractor shall bear all incidental charges for cartage, storage and safe custody of materials issued by the departments as to be safe against damage by sun, rain, dampness, fire, theft etc. at his own cost and also employ necessary watch and ward establishment for the purpose, at his own cost. Materials to be charged directly to work and stipulated for issue free of cost shall also be issued to the contractor as soon as those are received at site or at the stipulated place of issue. The provision of this para shall apply equally and fully to those as well.
- 13.2 All materials obtained from the EWSS stores shall be got checked by the Engineer-in-charge of the work or his representatives before use.
14. Final bill of whole work shall be finalized and paid by Executive Engineer. Assistant Engineer (Electrical) will prepare and pass the final bill for AMC/ AOMC work and will pass on the same to Executive Engineer for including in the final bill for composite work.

### **Special condition for Materials:**

1. The contractor shall at his own expense procure and provide all consumable materials
2. The contractor shall procure all the materials in advance so that maintenance work could not get hampered.
3. All materials brought by the contractor for use in the work shall be got checked from the Engineer-in-Charge or his authorised representative of the work on receipt of the same at site before use.
4. The contractor shall also employ necessary watch and ward establishment for the safe custody of materials at his own cost.

**LIST OF MACHINERY, TOOLS & PLANTS TO BE DEPLOYED BY THE  
CONTRACTOR AT SITE AS & WHEN REQUIRED**

Sl. No.	Name of Equipment	Numbers
1.	Testing equipment as & when required	Lot
2.	Equipment for hoisting & lifting as & when required	2 Set
3	Drilling machine	3 Sets
4	Welding Machine	2 Set
5	Dewatering equipment Pump (electric)	3 Sets
6	D-Spanner Set, Ring spanner Set, Slide wrench, Hammers, Chisels, Screw driver set, Crimping tools, Discharge rod & Cutting plier set etc	2 Sets

Form of Earnest Money Deposit  
Bank Guarantee Bond

WHEREAS, contractor..... (Name of contractor) (hereinafter called "the contractor")  
has submitted his tender dated ..... (date) for the construction of  
.....  
..... (name of work)  
(hereinafter called "the Tender")

KNOW ALL PEOPLE by these presents that we ..... (name of  
bank) having our registered office at ..... (hereinafter called "the Bank") are  
bound unto .....  
.....  
(hereinafter called "the Engineer-in-Charge") in the sum of `.  
..... ( in words ..... ) for which payment well  
and truly to be made to the said Engineer-in-Charge the Bank binds itself, his successors and  
assigns by these presents.

SEALED with the Common Seal of the said Bank this ..... day of ..... 20..... .

THE CONDITIONS of this obligation are:

- (1) If after tender opening the Contractor withdraws, his tender during the period of validity of tender (including extended validity of tender) specified in the Form of Tender;
- (2) If the contractor having been notified of the acceptance of his tender by the Engineer-in-Charge:
  - (a) fails or refuses to execute the Form of Agreement in accordance with the Instructions to contractor, if required;

OR

(b) fails or refuses to furnish the Performance Guarantee, in accordance with the provisions of tender document and Instructions to contractor,

OR

(c) fails or refuses to start the work, in accordance with the provisions of the contract and Instructions to contractor,

OR

(d) fails or refuses to submit fresh Bank Guarantee of an equal amount of this Bank Guarantee, against Security Deposit after award of contract.

We undertake to pay to the Engineer-in-Charge either up to the above amount or part thereof upon receipt of his first written demand, without the Engineer-in-Charge having to substantiate his demand, provided that in his demand the Engineer-in-Charge will note that the amount claimed by him is due to him owing to the occurrence of one or any of the above conditions, specifying the occurred condition or conditions.

This Guarantee will remain in force up to and including the date .....\* ..... after the deadline for submission of tender as such deadline is stated in the Instructions to contractor or as it may be extended by the Engineer-in-Charge, notice of which extension(s) to the Bank is hereby waived. Any demand in respect of this Guarantee should reach the Bank not later than the above date.

DATE ..... SIGNATURE OF THE BANK

WITNESS ..... SEAL

(SIGNATURE, NAME AND ADDRESS)

\*Date to be worked out on the basis of validity period of 6 months from last date of receipt of tender.



**SCOPE OF WORK & SPECIFICATION FOR AMC, BHU, VARANASI, U.P.**

Scope of work for Annual maintenance contract for round the clock service for 01 No. 33KV PSS & 23 Nos. 11KV/433V DSS at Banaras Hindu University Campus, Varanasi – U.P.

**1. SCOPE OF SERVICES**

Maintenance services for 23 Nos. 11KV/433V DSS and 01 No. 33/11KV PSS as per the existing equipment details.

The work has to be carried out as per the best engineering practices and in accordance with the OEMs instruction manuals.

The scope shall include annual maintenance contract for scheduled/Preventive and breakdown Maintenance at 01 No. 33KV/11KV PSS and 23 Nos. 11KV/433V DSS covering the following equipments :

Sr. No.	Item Description	Make	Unit	Quantity
<b>A.</b>	<b>33KV Switch yard equipments at PSS &amp; Naria 33 KV bay Extn. :-</b>			
1.	10MVA, Dyn11, 33/11KV, Transformer.	Alstom	Nos.	2
2.	33KV VCB outdoor type	Alstom/ Areva	Nos.	6
3.	33KV outdoor oil cooled CT	Vishal Transformers	Nos.	18
4.	33KV outdoor oil cooled PT		Nos.	12
5.	33KV double break offload isolators	GR Power	Sets	14
6.	Lighting arrestor	Lamco	Nos.	18
7.	Bus & Bay (Conductor, Disc insulators, tension fitting, Tower & Beam structure)		Set	1 set for 6 Bays.
8.	Marshalling Kiosk		Nos.	01 lot
9.	Earthing Station		Nos.	01 Lot
<b>B.</b>	<b>Indoor Equipments at PSS &amp; Naria 33 KV bay Extn. :-</b>			
1.	C&R Panel for 33KV equipments control	Venson Electric	Nos.	6
2.	Battery Charger	Dubas	No.	2
3.	100 AH Battery/30 AH Battery	Exide/ HBL Life	Set	2
4.	ACDB	Jasper	No.	1
5.	ALCP	Jasper	No.	1
6.	11KV 17 Panel VCB Switchboard	Alstom/ Areva	Set	1
7.	440V PCC Complete with ACBs& MCCBs	Jasper	Set	1
8.	500KVA, 11/0.433 KV Distribution Transformer.	Alstom/ Areva	Nos.	2
<b>C.</b>	<b>11KV/433V Distribution Substation (DSS)</b>			
1.	500KVA , 11/0.433KV Distribution Transformer	Alstom/ Areva	Nos.	55
2.	1000KVA, 11/0.433KLV Distribution Transformer	Kirloskar	Nos.	08
3.	11KV Switchboards in DSS	Alstom/ Areva/ Siemens/ ABB	Nos.	24
4.	440V PCC Complete with ACBs& MCCBs	various makes	Nos. (approx)	30
5.	Battery Charger	Dubas	Nos.	24
6.	80 AH Batter/100 AH Battery	HBL Nife/Exide	Sets	24
7.	ACDB	Jasper	Nos.	24
8.	ALCP	Jasper/ other	Nos.	24
9.	Earthing Station		Lot	L.S.

## **2. DEFINING SCOPE OF WORK**

The scope for maintenance is detailed as below, activity wise:

### **Daily Schedule**

1. Monitoring of power transformer parameters such as
  - a. Winding temperature
  - b. Oil temperature
  - c. Oil level and
  - d. Checking of oil leakage, if any, and take immediate corrective action to stop leakage.
2. Cleaning of HT and LT panels externally as per schedule
3. Check auxiliary supply and control voltages.
4. Check condition of indication lamps provided on HT and LT panels.
5. Check the battery bank and battery chargers for proper functioning.
6. Test annunciation and reset, take corrective action whenever necessary.
7. Check incoming voltage of grid and take corrective action accordingly if needed.
8. Record all the operational parameters on log book or log sheet hourly.

### **Weekly Schedule**

1. Carry out preventive maintenance as per the check-lists, equipment manuals and as per the instructions of BHU's designated representative.
2. Operate the battery charger in float and boost mode (CC & CV) as per schedule.
3. Rectify the faults / causes of faults.
4. Carry out battery and battery charger preventive maintenance as per schedule.
5. BHU will arrange a common meeting at every fortnight and discuss the various problems/ issues.
6. Check the condition of Silica gel and replace it if needed.

### **Monthly Schedule**

1. Checking the discharge devices and fuses.
2. Carry out preventive maintenance of battery charger and load test for chargers in both Float and Boost mode.
3. Prepare list of spares and material required for carrying maintenance work and submit it to BHU's designated representative in advance for better material management.
4. To advice BHU for better spares planning and spares management.

### **Quarterly Schedule**

1. Checking the overall condition of radiators and transformers.
2. To carry out mock drills.
3. Check earth pits for substations and water the earth pit of substations as per schedule of preventive maintenance or as and when deemed necessary and submit a report. (Water & watering facility shall be provided by BHU).
4. Check the overall condition of circuit breakers, isolators and its contact, P.T., CTs' and other electrics.
5. Grease the isolators contacts and apply petroleum jelly on battery terminals.

### **Half Yearly Schedule**

1. Testing of transformer safeties such as Buchholz relay, winding temperature, oil temperature indicator, oil gauges during routine preventive maintenance.
2. Earth resistance testing for earth pits, using own instruments and submit report for the same restricted to the area as covered in our scope.
3. Expert Engineers team from other unit shall visit to BHU campus at least once during six months barring as & when required for testing of Relays, Switchgears & Transformers.

### General

1. To carry out all such jobs to ensure proper health of installations and to ensure uninterrupted power supply.
2. To carry out switching ON/OFF as and when required and restoration of breakdown during power failures and emergency.
3. To attend all electrical complaints related to PSS and DSS.

### Breakdown

Since ring main system has been provided it is possible that the alternate feed of power could be made in case of breakdown / tripping of one or a few breakers. It is of utmost importance that the affected loads are restored as soon as possible.

The following activities are envisaged for a prompt power recovery :-

- a) Maintain all switch board in ready condition (except those that have been taken under planned outage). The various maintenance schedules planned shall be executed and records of all such activity shall be maintained. This will ensure availability of the redundant system.
- b) Maintain the updated status of all the switchboards at the central control room and make the information available to BHU, so that a strategy can be planned in case of such an unscheduled outage. This information will be collected by the staff of BHU during the daily condition monitoring of the equipments.
- c) All no power complaints as per our battery limits (which is maintaining power to outgoing of LT panels) will be attended at the earliest possible and depending on the priorities at hand of the maintenance teams. No penalty clause shall be applicable for delayed attention to such complaints. Priorities shall be decided in consultant with BHU officials, if required.
- d) The boundary of responsibility of all such complaint for no supply in the workshops shall be limited to the restoration of supply till the LT outgoing terminal in the DSS.
- e) All LT feeders including overhead bare conductors, Underground/OH LT cables shall be maintained by BHU.

Contractor will be responsible for maintaining the health of the equipments to ensure reliability of power supply at all areas.

Break down maintenance & repairing for cable joints for 11KV & 33KV cable shall be done by contractor. Required material, spares shall be supplied free of cost by EWSS, BHU.

### Restoration of Power after Breakdown

Every effort will be made by contractor to keep this time taken for change over to a minimum.

The following activities are envisaged for a prompt power recovery:

- a. **Maintain all switch board in ready condition** (except those that have been taken under planned outage). The various maintenance schedules planned shall be executed and records of all such activity shall be maintained. This will ensure availability of the redundant system.

**Maintain the updated status of all the switchboards at the central control room** and make the information available to BHU, so that a strategy can be planned in case of such an unscheduled outage. This information will be

- b) Collected by the staff of BHU during the daily condition monitoring of the equipments.
- c) All **no power complaints** as per battery limits (which is maintaining power to outgoing of LT panels) will be attended at the earliest possible and depending on the priorities at hand of the maintenance teams. Priorities shall be decided in consultation with BHU officials, if required.

- d) The boundary of responsibility of all such complaint for no supply in the workshops shall be limited to the restoration of supply till the LT outgoing terminal in the DSS.

- e) All LT overhead bare conductors, Underground/OH LT cables shall be maintained by BHU. Contractor will be responsible for maintaining the health of the equipments to ensure reliability of power supply at all areas.

### **Activity based service provision**

This contract shall be an activity based service contract, vesting responsibility on contractor to complete the preventive/planned and breakdown maintenance activity on the equipments listed in Annexure 1.

This AMC incorporates the following elements and critical parameters:

1. Attending “no power supply” complaints.
2. Power management.
3. Conducting preventive maintenance as per checklist and schedule.
4. Cable fault finding limited to 11kV and 33kV.
5. Recommendations for spares.
6. Attending to complaints in HT/LT breakers.
7. Abiding to all safety rules and following safe practices.
8. Target zero accident.
9. Limiting personnel turnover.

### **Proposal for step wise responsibility sharing**

- a. The vesting of responsibility for the maintenance and services activities with contractor with the associated necessary management freedom to implement changes and introduce innovation.
- b. A balanced sharing of technical and commercial risks.

### **Planned resources and organization**

- a. Contractor shall deploy the Maintenance team for three shifts on Round the Clock basis.
- b. Contractor shall also deploy personnel as required for breakdown and emergency services on listed Equipments as at Annex 1 at Central Control Room & all DSS.
- c. The Overall In-Charge shall be responsible for co-ordination, compilation and submission of Reports and MIS, co-ordination of all Logistics and Teams Movement as per planned schedule and unscheduled Services.

### **33/11KV 10MVA Power Transformer :-**

- Routine, scheduled, preventive and Breakdown maintenance of Power/station transformers.
- Monitoring and recording of transformers parameters such as winding temperature, oil temperature and oil level.
- Checking of transformer tank and other body parts for any rust or leak.
- Checking for oil leakage, if any, and take immediate action to stop leakage. (If transformer is required to be sent outside for any modifications/repair/overhauling, the cost shall be borne by Customer).
- Oil tank to be topped up at regular interval (oil to be provided by BHU).
- Condition assessment of silica gel in breather and replacement of silica gel (Supplied by BHU) when required, checking and maintaining breather conditions and conservator oil levels.
- The transformer oil filtration to be done annually, testing of the oil for BDV once in six months, DGA & acidity & PPM testing for Power transformers once in a year, can be carried out by Contractor at extra cost.
- Checking & maintaining earth pits & earth connections. Water the earth pit as per schedule of preventive maintenance or as and when required.
- Quarterly checking of overall condition of radiators and transformer main tank and cleaning the same if required.
- Periodical inspection of cooling fans for its manual and automatic control, interlocks. Cleaning fan blades S& removing dust. Lubrication of fan motors if necessary.
- Testing of transformer safeties such as Buchholz relay, temperature indicators and oil gauges during routine preventive maintenance.

**33KV Outdoor VCB :-**

- Routine, scheduled, preventive and Breakdown maintenance of 33KV outdoor VCB as per OEM Manual.
- Monitoring and recording of VCB parameters as relevant.
- Cleaning in all respect.
- To check and measure IR values periodically.
- Attending of all indication lamps and adjustment, cleaning of Aux. Contact & necessary Ckt. Checking.
- Checking to ensure all the lamps are glowing, attending of annunciation ckt& panel in all respect. Lubrication of moving parts of mechanism.
- Checking & maintaining earth pits & earth connections. Water the earth pit as per schedule of preventive maintenance or as and when required.
- Quarterly checking of overall condition of breaker cubicle and control kiosks.
- For Areva make 33KV & 11KV VCB panel boards it is requested to contact M/s. Schiender Electric Infrastructure Ltd. (Areva) for supply of spares and specialized services. Contractor's liability shall be restricted to the nominal and generalized preventive maintenance of the VCB.

**CT and PT :-**

- Routine, scheduled, preventive and Breakdown maintenance of 33KV and 11KV Current transformers and potential transformers as per OEM manual.
- Checking for oil leaks & oil levels.
- Visual inspection of bushings for any damage and earthing.
- Check earth connections.
- Measure IR Values as per schedule and maintain record.
- Checking of primary jumper, clamp connectors & primary connections of CT/PT.
- Checking and tightening of jumpers & connectors.
- Checking earth connections of secondary circuits.
- Checking and tightening of secondary circuits.
- Cleaning of bushings and oil level indicators.
- Maintenance of CT JB/PT JB.
- Measurement of voltages at marshalling box & control room in case of CT/PT.

**Isolators :-**

- Cleaning of Contact S& Aux. Contact, Greasing in the control mechanism.
- Routine, scheduled, preventive and Breakdown maintenance of 33KV and 11KV Isolators as per OEM Manual.
- Checking of Earth switch copper flexible.
- Check earth connections of earth blade.
- Cleaning of insulators & checking for cracks in the insulators.
- Cleaning of main contacts, arching horns, earth blade.
- Changing of male/Female or moving/fixed arm, changing of connectors/hardware and attending all the incidental troubles to ensure smooth operation of the Isolators (Spares by BHU).
- Checking to ensure all the lamp are glowing (Spares by BHU).
- Necessary ckt checking & Motor checking & setting to put the remote operation in service.

**Lighting Arrestors :-**

- Cleaning of LA stacks.
- Visual observation of any cracks.
- Check earth connections at LA and Electrode.
- Check Counter enclosure for any moisture ingress.
- Determine IR values and record it.
- Check for leakage current and surge counter.
- Record leakage value & counter value.

**Switchgear Panels :-**

All preventive, scheduled and break-down maintenance of 11KV switchgear panels (Breaker Panel) as per OEM manual.

- Cleaning of panels as per the agreed schedule.
- Schedule maintenance of 11KV Breaker trolley.
- Check auxiliary supply and control voltage, test and check breaker mechanical interlock.
- Understanding control circuits & various electrical interlocking.
- To carry out switching ON/OFF, load transfer operations as and when required.
- Isolation & Re-energization of feeders as per the demand of operation and taking prior work permit from BHU.
- Replacement of control and power fuses/indication lights/fixes and moving contacts/close & trip coil. (supplied from BHU).
- Check tightness of circuit & earth connections. Test insulation resistance.
- Examination of auxiliary switches, indication devices and interlocks to ensure that they are in good order.
- Measuring load current & maintain transducers/ammeter/energy meter / relays/CTs/PTs/ Earthing Connections.

**Protection and Metering Systems :-**

- To check the tightness of control circuits/auxiliary supply/signal and protective relays.
- Note the hourly reading as per the schedule.
- Note down energy meter readings for all outgoing feeders for analysis.
- And prepare report.
- Test annunciation and reset, take corrective action whenever necessary.
- Cleaning, checking of all the bi-metal & numeric relays of 33KV, 11KV, 0.415KV and Control Relays Panels.
- Relay testing for Control Relay Panel & 11KV Switchgear as per schedule.
- Energy meter calibration shall be carried out at extra cost.

**Battery and Battery Charger :-**

- O & M of battery & charger, involves checking and recording of general, appearance and cleanliness of battery, charger output current & voltage, electrolyte levels, any crack/leakage in cells, evidence of corrosion at terminals/connectors and condition of ventilation, as per OEM manuals.
- Quarterly measurement of specific gravity of each cell, voltage of each cell & total battery terminal voltage.
- Tightness of bolted connection.

### **Earth Pits and Lighting Protection :-**

- Maintain firefighting equipment like fire extinguishers, fire fighting systems, smoke detectors, CO2/DA Cylinders etc. immediate replacement/recharge after the operation of fire extinguishing equipments.
- Check earth pits water the earth pits as per schedule of preventive maintenance or as and when required. The values of each pit resistances of higher values are recorded and suitable action taken.
- Periodical inspection of earth electrode is conducted connection to ensure their rigidity and others signs of deterioration.
- Check/maintain all equipment earthing connections.
- Periodical inspection of all lightning protective system. Mechanical condition of all conductors, bonds, joints and earth electrode are checked and observations noted.

### **Busbar/ Conductor :-**

- Check General Conditions of Busbar/conductors & insulators.
- Check for conductor damage or loose strands.
- Clean busbar/ conductor & insulators.
- Check tightness & condition of hardwares and fasteners.
- Check condition of connectors & fittings for rusting & oxidation.

### **3. EXCLUSIONS:**

Exclusion (not covered) under the scope of the contract for maintenance of substations and other electrical at BHU are as listed below:

1. Major repairs and overhauls which if at all be done shall be carried out by contractor at an extra cost to be mutually agreed upon.
2. Movement/Erection and commissioning, De-commissioning of any equipment.
3. Repair and Supply of any Furniture in Substation.
4. Cleaning of Toilets in control room/switchyards.
5. Repair of Roofs/Cracks.
6. Restoration of Water Drainage.
7. Restoration of Water supply to Substation.
8. General Building maintenance in such Substations.
9. Equipment painting including supply of paint.
10. Civil works and repairs.
11. SCADA
12. Calibration of Energy meters at government approved labs.
13. Load testing of cranes and other lifting tackles.
14. Painting and distempering of walls, shutters and doors in the building and control rooms
15. Vermin/Pest Control.
16. Supply of spares.
17. Cranes, O/H hydraulic ladders, etc if required shall have to be arranged by BHU.
18. LT overhead network shall be maintained by BHU

Contractor's scope shall be limited to providing power upto the outgoing feeder of LT terminal Board within the DSS & PSS.

BHU shall provide an enclosed secure office space in the central area for contractor for permanent service line (single point of contact) and storage/ archiving of all drawings and documents. BHU shall provide the above office in a location having sufficient storage space for safe storage of testing Equipment / Consumables / records / documents / Reports / Emergency Spares.

**The following meters and tools to be provided by BHU to Contractors for routine preventive and breakdown maintenance of PSS and DSS respectively :**

1. Insulation Tester (Megger) 1 kV & 5 kV,
2. Digital Tong Tester & Multi meter (two nos.),
3. Earth Resistance Tester,
4. Phase Sequence Meter,
5. Hydro Meters (two nos.),
6. Battery Cell Testers (2 nos.),
1. Vacuum Cleaner & Electrical Blower etc.

**Consumables :-**

All consumables required will have to be arranged by contractor at no extra cost.

**4. KEY PERFORMANCE PARAMETERS**

For the purpose of performance monitoring of the annual maintenance contract the following basis will be used and same will be taken as reference for future improvement / maintenance.

- a) Outage Hours due to breakdowns.
- b) Response time to attend breakdown.

While measuring the above parameters the Forced outages due to T&D Constraints /Planned Outages / Transco Constraints will be excluded for measurement of performance. Breakdown outages pending/not closed due to non-availability of spare/equipment which is to be arranged by BHU as per the contract will be excluded for measurement of any of the above Indicators.

It may happen that there is not much visible improvement after a period of time, as Improvement due to maintenance is expected to saturate over a period of time and thereafter the improvement can only be achieved by carrying out Major Renovation & Modernisation of Existing Sub-stations and the Equipments therein. It is expected that under such circumstances, performance levels will be considered as achieved even if contractor is able to maintain the above parameters within the existing levels.

**5. Extra Jobs**

1. Any major overhaul/repair shall be extra at mutually agreed price and conditions.
2. For the above jobs or any kind of repairs at site, which need to be carried out during the normal maintenance or break-down, BHU shall provide to the approved unit rates for such activities to contractor within one month of contract finalization.
3. The cost of cable jointing kit shall be on actual cost basis or BHU shall provide cable jointing kit free of cost. The process of cable fault location shall be as per the current prevalent practice (though manual digging along with the route of cable which is hit and trial method) at no extra cost. In case the same is required through cable fault locator, the same shall be provided by BHU at no extra cost.

**7. Period of Contract**

The period of contract shall be for one year and may be extended or curtailed as the case may be depending on performance and fulfillment of other stipulations as contained herein.



## 8. Working Hours

The working hours shall be 8 hrs. per shift & three shifts & General Shift per day designated as 1<sup>st</sup>, 2<sup>nd</sup> 3<sup>rd</sup> Shift & General Shift.

### Clarification :-

Sr. No.	Point Description	Comment
1	Requirement of Shutdown at Switchyard.	The requirement of shutdown at switchyard shall be intimated by contractor in their operation & maintenance plan; same shall be provided and arranged by BHU.
2	Penalties	Contractor shall exercise every effort to restore power after breakdown and smooth operation of the PSS and DSS; however penalty @ 1% per day of contract value shall be applicable in case of tripping or delay in restoration of power, in any circumstances.
3	Transformer Oil Filtration	Transformer Oil filtration if required shall be carried out at extra charges. Activity shall be executed after written confirmation from BHU and transformer oil shall be supplied by BHU.
4	Cable Fault Finding	No charges for cable fault finding shall be payable. Repairing of cable joints shall be in contractor scope no extra cost shall be paid. The process of cable fault location shall be as per the current prevalent practice (though manual digging alongwith the route of cable which is hit and trial method) in BHU. In case the same is required through cable fault locator, the same shall be provided by BHU free of cost.
5	All spare Parts and maintenance plan and unscheduled maintenance.	All spare parts required for maintenance plan and unscheduled maintenance shall be supplied by Customer. For all equipments it is requested to contact the OEM's for specialized services.
6	Loading unloading of equipments/materials.	Loading unloading of equipments/materials shall be in contractor scope.
7	Mobilization time.	3 weeks mobilization time to start the activities at site from the date of LOI/ contract order.
8	Engineer in-charge	BHU shall appoint one engineer in-charge from their side, who shall be locally available to coordinate, authorize and certify various activities to be taken up at 33KV PSS and 11KV DSS.
9	Bill certification.	The bill from contractor shall be certified by the respective Engineer In-charge (EIC).
10	Facilities to be provided by BHU at no cost to Contractor.	<ul style="list-style-type: none"> <li>• The electricity and water will be provided free of cost at all locations.</li> <li>• Storage space and office space to be made available by BHU to the contractor.</li> <li>• Crane and Hydraulic ladders, etc. shall be arranged by BHU.</li> </ul> <p>BHU shall provide an enclosed secure office space in the central area for permanent service line (single point of contact) and storage/archiving of all drawing and documents. BHU shall provide the above office in a location having sufficient storage space for safe storage of testing Equipment/Consumables/records/documents/Reports/Emergency/Spares.</p>

## **10. Commercial Terms & Condition**

**The estimated cost of annual operation & maintenance contract per annum is Rs. 92.50 lacs including all taxes & duties.**

**Note: Oil Filtration charges shall not be included in the above price.**

### *Price for Unscheduled Services*

Prices for unscheduled services not covered under the scope of AMC will be at an extra cost. Extra charges will be as agreed mutually between contractor and BHU.

### *Prices for Supply of Spares and Components*

Prices for supply of spares and components that need to be supplied in case of non-availability at BHU will be at an extra cost to BHU. The prices for such items shall be as agreed mutually between contractor and BHU.

The list of recommended spares will be submitted by contractor in due course of time. It is envisaged that BHU must keep the recommended spares in their inventory as and when required for maintenance.

Payment shall be made to contractor as under:

### *Payment for scheduled services:*

100% payment along with taxes shall be paid on a pro-rata basis as monthly running bills. Certification for the bills shall be done by BHU– In-charge designated for this work.

### *Payment for unscheduled services:*

100% payment along with all taxes for unscheduled services at mutually agreed rate will be made after submission of invoice along with job completion certificate.

### *Payment for supply of spares and components:*

100% payment along with all taxes for supply of spares and components will be made after submission of invoice.

Payment for services and facilities

No costs shall be payable by contractor on the use of the intercom facilities, photocopies & first aid medical facilities.

### **Taxes, Duties, Levies**

All Taxes and Duties such as Service Tax etc. and any variations in same shall be claimed extra, at actual, by contractor where applicable against submission of documentary evidence.

## **12. (a) Limitation of Liability**

1. Contractor shall be exempted from any liability for defects or damages discovered or which appear more than 6 months after the termination of the Contract.
2. Normal wear and tear.
3. Any Force Majeure event.

### **(b) Accommodation**

Only one residential quarter (not exceeding grade of Reader quarter) shall be provided by BHU free of cost for accommodation of contractor's personnel.

## **13. Insurance**

1. Without thereby limiting its responsibilities under this contract, contractor shall insure with a reputable insurance company against all loss and damage and injury to its persons arising out of or in consequence of its obligations under this contract.
2. When working with subcontractors, contractor shall ensure that the subcontractors procure a minimum of insurance cover proportioned to their respective performance of the Services.
3. Contractor shall also arrange insurance in respect to and /or theft of contractor's other property, including tools and equipments if they are insurable.
4. Contractor shall also obtain accident liability insurance at its own cost for its employees and pay compensation on account of injury, fatal or otherwise due to accident during service being rendered under scope of this contract.

#### **14. Bankruptcy**

If either Party becomes bankrupt or insolvent or makes any contract with its creditors compounding debts or if, being a limited company, any proceedings have started in respect of it applying for the appointment of a liquidator, administrator, receiver or similar official for it or all or any substantial part of its assets or seeking an order of relief against it as debtor or under any law relating to insolvency, readjustment of debt, reorganization, administration or liquidation, the other Party may at any time by written notice terminate this contract forthwith, in which event the provisions of the TERMINATION clause shall apply.

#### **15. General**

BHU may assist contractor in obtaining any and all signatures, permits, licenses which may be required for the performance of the operation & maintenance services and providing of spare parts.

Any and all notices or other communication pursuant to this contract to be given by either Party to the other Party shall be in writing and in English and shall be deemed duly served and given if personally delivered against acknowledgement of receipt or five (5) business days after the day of sending when sent by registered mail or courier, or on the date of acknowledgement of receipt when sent by fax addressed to be mentioned.

#### **16. Warranty for third party maintenance services & equipments under warranty period**

1. BHU shall not itself perform or entrust any third party with any Maintenance Services or any other services at the Substation that could be performed by contractor without the prior written consent of contractor.
2. Contractor shall not repair BHU's equipment under OEM warranty without express approval of BHU. This does not replace the warranty offered by third party manufacturers with installed equipment during the warranty period. BHU shall manage the third party manufacturer to comply with its warranty obligations and keep contractor informed.

#### **17. Statutory Obligations**

Contractor shall take all steps, necessary or otherwise, to comply with the various applicable laws/rules/regulations, including, but not limited to, the provisions of Contract Labour (Regulation & Abolition ACT) 1970 as amended, Minimum Wages Act, 1948, Workmen Compensation Act, ESI Act, PF Act, Bonus Act, and all other applicable laws and rules framed there under including any statutory approval required from the Central / State Governments, Ministry of Labour.

Contractor shall, prior to commencement of the jobs under this Contract, furnish to BHU the permanent Provident Fund Code numbers and ESI of its employees and those employed by subcontractors, if applicable.

#### **18. Workmen's Compensation**

1. Contractor shall take out a comprehensive insurance policy under the Workmen's Compensation Act to cover such workers, who shall be engaged to undertake the jobs covered under this contract and a copy of this insurance policy shall be given to BHU solely for its information, reference and records. Contractor shall ensure that such insurance policies are kept valid at all times.
2. BHU shall be entitled to deduct from any money due to or to become due to contractor, money paid or payable by way of compensation as aforesaid or cost or expenses in connection with any claims there to and contractor shall abide by the decision of BHU as to the sums payable by contractor under the provisions of this clause.
3. Nothing contained in this contract, shall establish any relationship of any kind between BHU on the one hand and the employees, workmen and labourers, of any kind whatsoever of contractor on the other hand.

#### **19. Safety Code**

Contractor shall ensure adequate safe conditions and ensure safety precautions at site as required under applicable laws and shall be solely and entirely responsible for the complete safety of its workmen at site against any safety hazards arising out of the work done by contractor staff in the premises of BHU, Varanasi.

#### **20. Subletting/ Assignment**

- a. Contractor may, with the prior consent of BHU in writing assign or sublet whole or substantially the whole of the Contract. However any such consent shall not relieve contractor from any obligation, responsibility or duty under this contract.

#### **21. Governing Law and Arbitration**

- a. **Governing Law:** The laws of India shall govern this contract and each party submits to the exclusive jurisdiction of the courts in India.

- b. **Dispute Resolution Mechanism.** All disputes and differences arising out of or in connection with this contract shall be resolved amicably by mutual discussion within 30 days. If the dispute cannot be resolved by mutual discussion and contract the parties shall take such dispute to an arbitrator to be fixed/ approximated by BHU.

The arbitration shall be conducted in India in accordance with the provisions of the arbitration and Conciliation Act 1996. The arbitration proceeding shall be conducted in English.

## **22. Representation, Warranties and Guarantees**

Contractor hereby represents warrants and guarantees that:

- i. It is a legally recognized entity under the laws of India;
- ii. The contract contains valid and binding obligations & is enforceable in accordance with the terms hereof;
- iii. It has apprised itself of all applicable rules and regulations, and shall at all times comply with such rules and regulations;
- iv. It shall engage vehicles, tools, test kits and manpower suitable for the purposes of this contract to render services as contemplated in this contract;
- v. The services would be conducted in a safe and efficient manner at the site and at all times in compliance with good industry practices and requirements of BHU.
- vi. It shall procure all consents, license, permits, approvals and certificates & authorizations as may be required from any governmental authority for the performance of services at the Site;
- vii. It shall duly pay, if applicable, the duties, taxes and levies as are set out in this contract, which are to be paid by contractor;

## **23. Notice of Events of Force Majeure**

If a force majeure event prevents a party from performing any obligations under this contract in part or in full, that party shall

- i) Immediately notify the other party in writing of the Force Majeure events within 2 working days of the occurrence of the Force Majeure event.
- ii) Be entitled to suspend performance of the obligations under the contract, which is affected by Force Majeure event for the duration of the Force Majeure event.
- iii) Use all reasonable efforts to resume full performance of the obligation as soon as practicable.
- iv) Keep the other party informed of all such efforts to resume full performance of the obligation on a regular basis.
- v) Provide prompt notice of the resumption of full performance or obligation to the other party.

## **Mitigation of Events of Force Majeure**

Contractor or BHU, as the case may be, shall :

- (i) Make all reasonable efforts to prevent and reduce to a minimum & mitigate the effect of any delay occasioned by an event of Force Majeure, including applying other ways in which to perform the contract,
- (ii) Use its best efforts to ensure resumption of normal performance after the termination of any Event of Force Majeure and shall perform its obligations to the maximum extent practicable as agreed between the Parties;
- (iii) Keep the other party informed at regular intervals of the circumstances concerning the event of Force Majeure, with best estimates as to its likely continuation and what measure or contingency planning it is taking to mitigate and or terminate the Event of Force Majeure.

## **Burden of Proof**

In the event that the Parties are unable in good faith to agree that a Force Majeure event has occurred to an affected party, the parties shall resolve their dispute in accordance with the provisions of this contract. The burden of proof as to whether or not a Force Majeure event has occurred shall be upon the party claiming that the Force Majeure event has occurred and that it is the affected party.

## **Termination for Certain Events of Force Majeure**

If any obligation of any Party under the contract is or is reasonably expected to be delayed or prevented by a Force Majeure event for a continuous period of more than 3 month during the Term of the contract, the contract may be terminated at the discretion of either party and it shall not be liable to the other for any consequences arising on account of such termination.

## **24. Confidentiality – Intellectual Property**

1. So as to enable contractor to perform its obligations under this contract and/or in fulfilling these obligations, BHU shall disclose and contractor may gain access to information which is proprietary to BHU and which is kept strictly confidential by contractor (hereinafter called "Confidential information").
2. Contractor undertakes to treat the confidential Information with at least the same degree of confidentiality as contractor uses in maintaining the secrecy of its own information of similar importance. Except to the extent set forth, contractor consequently undertakes not to use or carry the confidential information, nor to disclose the same to any third party, except to such contractor employees who need to know such confidential information in order to respect contractor's obligations under this contract.

Contractor further undertakes not to derive directly or indirectly at any time from the possession or use of the confidential information any right, title or interest therein, nor to claim any intellectual property right on the same.

3. The obligations and restrictions hereunder shall not apply to any other information disclosed to contractor by BHU or to which contractor may gain access, and which is not treated by BHU as strictly confidential, nor to confidential information or parts thereof which:
  - at the time of disclosure or access was publicly known,
  - becomes publicly known otherwise than by an act or omission on the part of contractor or one of its employees, at the time of disclosure or access was already known to contractor,
  - has been received from a source (other than BHU) lawfully having possession of such information
4. Technical information and other related documents forming part of this contract and the information obtained during the course of investigations under this contract shall be BHU exclusive property and shall not be used for any other purpose except for the execution of the contract. The technical information drawing, records and other documents shall not be copied, transferred, or divulged and / or disclosed to third party in full/part, not misused in any form whatsoever except to the extent for the execution of this contract.
5. These technical information and other related documents shall be returned to BHU with all approved copies and duplicates including all details as are prepared by contractor during the executions of this contract, if any, immediately after they have been used for agreed purposes.
6. Contractor shall not use the name of BHU in any manner either for credit arrangement or otherwise and it is agreed that BHU shall not in any way be responsible for the debts, liabilities or obligations of contractor and/ or its employees.
7. These provisions of this Clause shall survive, for a period of 3 years, beyond the termination or expiration of this contract.

#### **25. Indemnification**

Each party shall indemnify at all times the Other and hold harmless all directors and employees of the other against any claims, law suits or damages occurring as a results of the award of this contract or due to the , maintenance and administration of this contract and against costs and expenses, if any incurred by either Party in connection therein and prejudice to make any recovery.

#### **26. Exclusivity**

BHU undertakes not to perform for itself, nor to negotiate or purchase services similar to the services undertaken by contractor from any third party or perform such services through a third party during the term of this contract. BHU has the right to award the same order for similar work at same rates, or on any terms and conditions to another party or parties only if conditions as mentioned under the Termination Clause are applicable.

#### **27. Termination**

1. The order can be terminated by BHU before the expiry of its term under the following conditions:
  - (i) Contractor fails to perform as per the order.
  - (ii) Contractor fails to deploy designated manpower for AMC as specified in the order.
  - (iii) It is found by BHU that contractor has intentionally manipulated or corrupted the data, or disclosed any of the contents of the details to any third party,
  - (iv) Contractor repudiates this order or otherwise evidences intention not to be bound by this contract,
  - (v) Contractor assigns, mortgages, or charges or purports to assign, mortgage, or charge any of its obligations or rights in contravention to the provisions of this contract; or transfers or novates any of its obligations in contravention to the provisions of this contract,
  - (vi) Contractor breaches the Confidentiality Clause.
  - (vii) If at any stage during the tenure of the contract, contractor is found to be involved in or indulging in or even attempting illegal, unlawful action or activities or some fraudulent actions or trying to receive bribe from any consumer or to give bribe to an official / staff or misuse or abuse any data of BHU.
  - (viii) If at any point of time BHU fails to obtain the sanctioned fund for AMC from the concerned funding authority.
2. Either party may terminate this contract by registered letter with immediate effect, if one of the following events occurs:
  - The other Party is prevented by force majeure from performing for a period exceeding 3 months;
  - If a Party commits a serious breach of contract under this contract, and such breach of contract is not remediable,
  - Insolvency, bankruptcy, voluntary or court ordered liquidation, seizures or attachments that are not lifted within a reasonable period of time, or any other events that indicate a serious risk of insolvency of the other Party.

3. Due to reasons as above, if a party decides to terminate the contract, it shall give 30 days' notice. On receipt of such notice the other party shall immediately stop all activities related to the work terminated. This is without prejudice to other rights under the terms of contract. Contractor shall hand over to BHU all drawing / documents prepared for this contract up to the date of termination of contract.

In the event of termination under any circumstances BHU shall pay to contractor the entire amount due for Services provided to BHU up to the effective date of termination.

### **Personal**

If any of contractor's employees shall, in the opinion of BHU, be guilty of any misconduct or incompetence or negligence, then if so directed by BHU, contractor shall take necessary action and if the person is found guilty of repeated misconduct or incompetence, contractor shall at once remove such employee and replace him/her by a qualified and competent substitute

**SCOPE OF WORK & SPECIFICATION FOR AOMC, RGSC, BHU, BARKACHHA, MIRZAPUR U.P.**

Scope of work for Annual operation & maintenance contract for round the clock service for 01 No. 33KV PSS & 03 Nos. 11KV/433V DSS at RGSC, BHU, Barkachha, Mirzapur – U.P.

**1. SCOPE OF SERVICES**

Operation & maintenance services for 03 Nos. 11KV/433V DSS and 01 No. 33/11KV PSS as per the existing equipment details.

The work has to be carried out as per the best engineering practices and in accordance with the OEMs instruction manuals.

The scope shall include annual operation & maintenance contract for scheduled and breakdown Maintenance at 01 No. 33KV/11KV PSS and 03 Nos. 11KV DSS covering the following equipments :

Sr. No.	Item Description	Make	Unit	Quantity
<b>33KV Switch yard equipments at PSS :-</b>				
1.	1.6MVA, Dyn11, 33/11KV, Transformer.	Tesla	Nos.	2
2.	33KV VCB outdoor type	ABB	Nos.	5
3.	33KV outdoor oil cooled CT	Vishal Transformers	Nos.	15
4.	33KV outdoor oil cooled PT		Nos.	6
5.	33KV double break offload isolators	GR Power	Sets	5
6.	Lighting arrestor		Nos.	15
7.	Bus & Bay (Conductor, Disc insulators, tension fitting, Tower & Beam structure)		Set	1 set for 4 Bays.
8.	MK		Nos.	4
9.	Earthing Station		Nos.	20
<b>Indoor Equipments at PSS :-</b>				
1.	C&R Panel for 33KV equipments control	Venson Electric	Nos.	5
2.	Battery Charger	Dubas	No.	1
3.	100 AH Battery	Exide	Set	1
4.	ACDB	Continental	No.	1
5.	ALCP	Continental	No.	1
6.	11KV 11 Panel VCB Board	ABB	No.	1
7.	433V, PCC LT panel comprising of ACB & MCCB with two incomer & 8 outgoing	Continental	Lot	1
8.	2 Nos. Transformer distribution substation equipment 500KVA, 11/0.433 KV Distribution Transformer.	Tesla	Nos.	4
9.	01 No. Transformer Distribution substation equipments 500KVA, 11/0.433KV Distribution Transformer.	AREVA	Nos.	3
10.	11KV 4 Panel VCB Board	ABB	Set.	2
11.	11KV 7 Panel VCB Board	Schneider	Set.	1
12.	Battery Charger	Dubas	Nos.	3
13.	80 AH Batter/100 AH Battery	HBL Nife/Exide	Sets	3
14.	ACDB	Continental/EssAar	Nos.	3
15.	ALCP	Continental/Kaybee	Nos.	3
16.	Earthing Station		Lot	L.S.

## **2. DEFINING SCOPE OF WORK**

The scope for maintenance is detailed as below, activity wise:

### **Daily Schedule**

1. Monitoring of power transformer parameters such as
  - a. Winding temperature
  - b. Oil temperature
  - c. Oil level and
  - d. Checking of oil leakage, if any, and take immediate corrective action to stop leakage.
2. Cleaning of HT and LT panels externally as per schedule
3. Check auxiliary supply and control voltages.
4. Check condition of indication lamps provided on HT and LT panels.
5. Check the battery bank and battery chargers for proper functioning.
6. Test annunciation and reset, take corrective action whenever necessary.
7. Check incoming voltage of grid and take corrective action accordingly if needed.
8. Record all the operational parameters on log book or log sheet hourly.

### **Weekly Schedule**

1. Carry out preventive maintenance as per the check-lists, equipment manuals and as per the instructions of BHU's designated representative.
2. Operate the battery charger in float and boost mode (CC & CV) as per schedule.
3. Rectify the faults / causes of faults.
4. Carry out battery and battery charger preventive maintenance as per schedule.
5. BHU will arrange a common meeting at every fortnight and discuss the various problems/ issues.
6. Check the condition of Silica gel and replace it if needed.

### **Monthly Schedule**

1. Checking the discharge devices and fuses.
2. Carry out preventive maintenance of battery charger and load test for chargers in both Float and Boost mode.
3. Prepare list of spares and material required for carrying maintenance work and submit it to BHU's designated representative in advance for better material management.
4. To advice BHU for better spares planning and spares management.

### **Quarterly Schedule**

1. Checking the overall condition of radiators and transformers.
2. To carry out mock drills.
3. Check earth pits for substations and water the earth pit of substations as per schedule of preventive maintenance or as and when deemed necessary and submit a report. (Water & watering facility shall be provided by BHU).
4. Check the overall condition of circuit breakers, isolators and its contact, P.T., CTs' and other electrics.
5. Grease the isolators contacts and apply petroleum jelly on battery terminals.

### **Half Yearly Schedule**

4. Testing of transformer safeties such as Buchholz relay, winding temperature, oil temperature indicator, oil gauges during routine preventive maintenance.
5. Earth resistance testing for earth pits, using own instruments and submit report for the same restricted to the area as covered in our scope.
6. Expert Engineers team from other unit shall visit to BHU-RGSC campus at least once during six months barring as & when required for testing of Relays, Switchgears & Transformers.



### General

4. To carry out all such jobs to ensure proper health of installations and to ensure uninterrupted power supply.
5. To carry out switching ON/OFF as and when required and restoration of breakdown during power failures and emergency.
6. To attend all electrical complaints related to PSS and DSS.

### Breakdown

Since ring main system has been provided it is possible that the alternate feed of power could be made in case of breakdown / tripping of one or a few breakers. It is of utmost importance that the affected loads are restored as soon as possible.

The following activities are envisaged for a prompt power recovery :-

- f) Maintain all switch board in ready condition (except those that have been taken under planned outage). The various maintenance schedules planned shall be executed and records of all such activity shall be maintained. This will ensure availability of the redundant system.
- g) Maintain the updated status of all the switchboards at the central control room and make the information available to BZHU, so that a strategy can be planned in case of such an unscheduled outage. This information will be collected by the staff of BHU during the daily condition monitoring of the equipments.
- h) All no power complaints as per our battery limits (which is maintaining power to outgoing of LT panels) will be attended at the earliest possible and depending on the priorities at hand of the maintenance teams. No penalty clause shall be applicable for delayed attention to such complaints. Priorities shall be decided in consultation with BHU officials, if required.
- i) The boundary of responsibility of all such complaint for no supply in the workshops shall be limited to the restoration of supply till the LT outgoing terminal in the DSS.
- j) All LT feeders including overhead bare conductors, Underground/OH LT cables shall be maintained by BHU.

Contractor will be responsible for maintaining the health of the equipments to ensure reliability of power supply at all areas.

Break down maintenance & repairing for cable joints for 11KV cable shall be done by contractor. Required material, spares shall be supplied free of cost by EWSS, BHU.

### Restoration of Power after Breakdown

Every effort will be made by contractor to keep this time taken for change over to a minimum.

The following activities are envisaged for a prompt power recovery:

- b. **Maintain all switch board in ready condition** (except those that have been taken under planned outage). The various maintenance schedules planned shall be executed and records of all such activity shall be maintained. This will ensure availability of the redundant system.

**Maintain the updated status of all the switchboards at the central control room** and make the information available to BHU, so that a strategy can be planned in case of such an unscheduled outage. This information will be

- b) Collected by the staff of BHU during the daily condition monitoring of the equipments.
- c) All **no power complaints** as per battery limits (which is maintaining power to outgoing of LT panels) will be attended at the earliest possible and depending on the priorities at hand of the maintenance teams. Priorities shall be decided in consultation with BHU officials, if required.
- d) The boundary of responsibility of all such complaint for no supply in the workshops shall be limited to the restoration of supply till the LT outgoing terminal in the DSS.
- e) All LT feeders including overhead bare conductors, Underground/OH LT cables shall be maintained by BHU. Contractor will be responsible for maintaining the health of the equipments to ensure reliability of power supply at all areas.

### **Activity based service provision**

This contract shall be an activity based service contract, vesting responsibility on contractor to complete the preventive/planned and breakdown maintenance activity on the equipments listed in Annexure 1.

This AOMC incorporates the following elements and critical parameters:

10. Attending “no power supply” complaints.
11. Power management.
12. Conducting preventive maintenance as per checklist and schedule.
13. Cable fault finding limited to 11kV and 33kV.
14. Recommendations for spares.
15. Attending to complaints in HT/LT breakers.
16. Abiding to all safety rules and following safe practices.
17. Target zero accident.
18. Limiting personnel turnover.

### **Proposal for step wise responsibility sharing**

- c. The vesting of responsibility for the maintenance and services activities with contractor with the associated necessary management freedom to implement changes and introduce innovation.
- d. A balanced sharing of technical and commercial risks.

### **Planned resources and organization**

- d. Contractor shall deploy the Operation & Maintenance team for three shifts on Round the Clock basis.
- e. Contractor shall also deploy personnel as required for breakdown and emergency services on listed Equipments as at Annex 1 at Central Control Room & all DSS.
- f. The Overall In-Charge shall be responsible for co-ordination, compilation and submission of Reports and MIS, co-ordination of all Logistics and Teams Movement as per planned schedule and unscheduled Services.

### **33/11KV 1.6MVA Power Transformer :-**

- Routine, scheduled, preventive and Breakdown maintenance of Power/station transformers.
- Monitoring and recording of transformers parameters such as winding temperature, oil temperature and oil level.
- Checking of transformer tank and other body parts for any rust or leak.
- Checking for oil leakage, if any, and take immediate action to stop leakage. (If transformer is required to be sent outside for any modifications/repair/overhauling, the cost shall be borne by Customer).
- Oil tank to be topped up at regular interval (oil to be provided by BHU).
- Condition assessment of silica gel in breather and replacement of silica gel (Supplied by BHU) when required, checking and maintaining breather conditions and conservator oil levels.
- The transformer oil filtration to be done annually, testing of the oil for BDV once in six months, DGA & acidity & PPM testing for Power transformers once in a year, can be carried out by Contractor at extra cost.
- Checking & maintaining earth pits & earth connections. Water the earth pit as per schedule of preventive maintenance or as and when required.
- Quarterly checking of overall condition of radiators and transformer main tank and cleaning the same if required.
- Periodical inspection of cooling fans for its manual and automatic control, interlocks. Cleaning fan blades S& removing dust. Lubrication of fan motors if necessary.
- Testing of transformer safeties such as Buchholz relay, temperature indicators and oil gauges during routine preventive maintenance.

**33KV Outdoor VCB :-**

- Routine, scheduled, preventive and Breakdown maintenance of 33KV outdoor VCB as per OEM Manual.
- Monitoring and recording of VCB parameters as relevant.
- Cleaning in all respect.
- To check and measure IR values periodically.
- Attending of all indication lamps and adjustment, cleaning of Aux. Contact & necessary Ckt. Checking.
- Checking to ensure all the lamps are glowing, attending of annunciation ckt & panel in all respect. Lubrication of moving parts of mechanism.
- Checking & maintaining earth pits & earth connections. Water the earth pit as per schedule of preventive maintenance or as and when required.
- Quarterly checking of overall condition of breaker cubicle and control kiosks.
- For ABB make 33KV & 11KV VCB panel boards it is requested to contact M/s. ABB for supply of spares and specialized services. AREVA's liability shall be restricted to the nominal and generalized preventive maintenance of the VCB.

**CT and PT :-**

- Routine, scheduled, preventive and Breakdown maintenance of 33KV and 11KV Current transformers and potential transformers as per OEM manual.
- Checking for oil leaks & oil levels.
- Visual inspection of bushings for any damage and earthing.
- Check earth connections.
- Measure IR Values as per schedule and maintain record.
- Checking of primary jumper, clamp connectors & primary connections of CT/PT.
- Checking and tightening of jumpers & connectors.
- Checking earth connections of secondary circuits.
- Checking and tightening of secondary circuits.
- Cleaning of bushings and oil level indicators.
- Maintenance of CT JB/PT JB.
- Measurement of voltages at marshalling box & control room in case of CT/PT.

**Isolators :-**

- Cleaning of Contact S& Aux. Contact, Greasing in the control mechanism.
- Routine, scheduled, preventive and Breakdown maintenance of 33KV and 11KV Isolators as per OEM Manual.
- Checking of Earth switch copper flexible.
- Check earth connections of earth blade.
- Cleaning of insulators & checking for cracks in the insulators.
- Cleaning of main contacts, arching horns, earth blade.
- Changing of male/Female or moving/fixed arm, changing of connectors/hardware and attending all the incidental troubles to ensure smooth operation of the Isolators (Spares by BHU).
- Checking to ensure all the lamp are glowing (Spares by BHU).
- Necessary ckt checking & Motor checking & setting to put the remote operation in service.

**Lighting Arrestors :-**

- Cleaning of LA stacks.
- Visual observation of any cracks.
- Check earth connections at LA and Electrode.
- Check Counter enclosure for any moisture ingress.
- Determine IR values and record it.
- Check for leakage current and surge counter.
- Record leakage value & counter value.

**Switchgear Panels :-**

All preventive, scheduled and break-down maintenance of 11KV switchgear panels (Breaker Panel) as per OEM manual.

- Cleaning of panels as per the agreed schedule.
- Schedule maintenance of 11KV Breaker trolley.
- Check auxiliary supply and control voltage, test and check breaker mechanical interlock.
- Understanding control circuits & various electrical interlocking.
- To carry out switching ON/OFF, load transfer operations as and when required.
- Isolation & Re-energization of feeders as per the demand of operation and taking prior work permit from BHU.
- Replacement of control and power fuses/indication lights/fixed and moving contacts/close & trip coil. (supplied from BHU).
- Check tightness of circuit & earth connections. Test insulation resistance.
- Examination of auxiliary switches, indication devices and interlocks to ensure that they are in good order.
- Measuring load current & maintain transducers/ammeter/energy meter / relays/CTs/PTs/ Earthing Connections.

**Protection and Metering Systems :-**

- To check the tightness of control circuits/auxiliary supply/signal and protective relays.
- Note the hourly reading as per the schedule.
- Note down energy meter readings for all outgoing feeders for analysis.
- And prepare report.
- Test annunciation and reset, take corrective action whenever necessary.
- Cleaning, checking of all the bi-metal & numeric relays of 33KV, 11KV, 0.415KV and Control Relays Panels.
- Relay testing for Control Relay Panel & 11KV Switchgear as per schedule.
- Energy meter calibration shall be carried out at extra cost.

**Battery and Battery Charger :-**

- O & M of battery & charger, involves checking and recording of general, appearance and cleanliness of battery, charger output current & voltage, electrolyte levels, any crack/leakage in cells, evidence of corrosion at terminals/connectors and condition of ventilation, as per OEM manuals.
- Quarterly measurement of specific gravity of each cell, voltage of each cell & total battery terminal voltage.
- Tightness of bolted connection.

**Earth Pits and Lighting Protection :-**

- Maintain firefighting equipment like fire extinguishers, fire fighting systems, smoke detectors, CO2/DA Cylinders etc. immediate replacement/recharge after the operation of fire extinguishing equipments.
- Check earth pits water the earth pits as per schedule of preventive maintenance or as and when required. The values of each pit resistances of higher values are recorded and suitable action taken.
- Periodical inspection of earth electrode is conducted connection to ensure their rigidity and others signs of deterioration.
- Check/maintain all equipment earthing connections.
- Periodical inspection of all lightning protective system. Mechanical condition of all conductors, bonds, joints and earth electrode are checked and observations noted.

**Busbar/ Conductor :-**

- Check General Conditions of Busbar/conductors & insulators.
- Check for conductor damage or loose strands.
- Clean busbar/ conductor & insulators.
- Check tightness & condition of hardwares and fasteners.
- Check condition of connectors & fittings for rusting & oxidation.

**3. EXCLUSIONS:**

Exclusion (not covered) under the scope of the contract for operation & maintenance of substations and other electrical at BHU are as listed below:

19. Major repairs and overhauls which if at all be done shall be carried out by contractor at an extra cost to be mutually agreed upon.
20. Movement/Erection and commissioning, De-commissioning of any equipment.
21. Repair and Supply of any Furniture in Substation.
22. Cleaning of Toilets in control room/switchyards.
23. Repair of Roofs/Cracks.
24. Restoration of Water Drainage.
25. Restoration of Water supply to Substation.
26. General Building maintenance in such Substations.
27. Equipment painting including supply of paint.
28. Civil works and repairs.
29. SCADA
30. Calibration of Energy meters at government approved labs.
31. Load testing of cranes and other lifting tackles.
32. Painting and distempering of walls, shutters and doors in the building and control rooms
33. Vermin/Pest Control.
34. Supply of spares.
35. Cranes, O/H hydraulic ladders, etc if required shall have to be arranged by BHU.
36. LT overhead network shall be maintained by BHU

Contractor's scope shall be limited to providing power upto the outgoing feeder of LT terminal Board within the DSS & PSS.

BHU shall provide an enclosed secure office space in the central area for contractor for permanent service line (single point of contact) and storage/ archiving of all drawings and documents. BHU shall provide the above office in a location having sufficient storage space for safe storage of testing Equipment / Consumables / records / documents / Reports / Emergency Spares.

**The following meters and tools to be provided by BHU to Contractors for routine preventive and breakdown maintenance of PSS and DSS respectively :**

1. Insulation Tester (Megger) 1 kV & 5 kV,
  2. Digital Tong Tester & Multi meter (two nos.),
  3. Earth Resistance Tester,
  4. Phase Sequence Meter,
  5. Hydro Meters (two nos.),
  6. Battery Cell Testers (2 nos.),
2. Vacuum Cleaner & Electrical Blower etc.

**Consumables :-**

All consumables required will have to be arranged by contractor at no extra cost.

**4. KEY PERFORMANCE PARAMETERS**

For the purpose of performance monitoring of the annual operation & maintenance contract the following basis will be used and same will be taken as reference for future improvement / maintenance.

- a) Outage Hours due to breakdowns.
- b) Response time to attend breakdown.

While measuring the above parameters the Forced outages due to T&D Constraints /Planned Outages / Transco Constraints will be excluded for measurement of performance. Breakdown outages pending/not closed due to non-availability of spare/equipment which is to be arranged by BHU as per the contract will be excluded for measurement of any of the above Indicators.

It may happen that there is not much visible improvement after a period of time, as Improvement due to maintenance is expected to saturate over a period of time and thereafter the improvement can only be achieved by carrying out Major Renovation & Modernisation of Existing Sub-stations and the Equipments therein. It is expected that under such circumstances, performance levels will be considered as achieved even if contractor is able to maintain the above parameters within the existing levels.

**5. Extra Jobs**

1. Any major overhaul/repair shall be extra at mutually agreed price and conditions.
2. For the above jobs or any kind of repairs at site, which need to be carried out during the normal maintenance or break-down, BHU shall provide to the approved unit rates for such activities to contractor within one month of contract finalization.
3. The cost of cable jointing kit shall be on actual cost basis or BHU shall provide cable jointing kit free of cost. The process of cable fault location shall be as per the current prevalent practice (though manual digging along with the route of cable which is hit and trial method) at no extra cost. In case the same is required through cable fault locator, the same shall be provided by BHU at no extra cost.

**7. Period of Contract**

The period of contract shall be for one year and may be extended or curtailed as the case may be depending on performance and fulfillment of other stipulations as contained herein.

## 8. Working Hours

The working hours shall be 8 hrs. per shift & three shifts per day designated as 1<sup>st</sup>, 2<sup>nd</sup> & 3<sup>rd</sup> Shift.

### Clarification :-

Sr. No.	Point Description	Comment
1	Requirement of Shutdown at Switchyard.	The requirement of shutdown at switchyard shall be intimated by contractor in their operation & maintenance plan; same shall be provided and arranged by BHU.
2	Penalties	Contractor shall exercise every effort to restore power after breakdown and smooth operation of the PSS and DSS; however penalty @ 1% per day of contract value shall be applicable in case of tripping or delay in restoration of power, in any circumstances.
3	Transformer Oil Filtration	Transformer Oil filtration if required shall be carried out at extra charges. Activity shall be executed after written confirmation from BHU and transformer oil shall be supplied by BHU.
4	Cable Fault Finding	No charges for cable fault finding shall be payable. Repairing of cable joints shall be in contractor scope no extra cost shall be paid. The process of cable fault location shall be as per the current prevalent practice (though manual digging alongwith the route of cable which is hit and trial method) in BHU. In case the same is required through cable fault locator, the same shall be provided by BHU free of cost.
5	All spare Parts and operation & maintenance plan and unscheduled maintenance.	All spare parts required for maintenance plan and unscheduled maintenance are to be supplied by Customer. For all equipments it is requested to contact the OEM's for supply of spares and specialized services.
6	Loading unloading of equipments/materials.	Loading unloading of equipments/materials shall be in contractor scope.
7	Mobilization time.	3 weeks mobilization time to start the activities at site from the date of purchase order/LOI.
8	Engineer in-charge	BHU shall appoint one engineer in-charge from their side, who shall be locally available to coordinate, authorize and certify various activities to be taken up at 33KV SPSS and 11KV DSS.
9	Bill certification.	The bill from contractor shall be certified by the respective Engineer In-charge (EIC).
10	Facilities to be provided by BHU at no cost to Contractor.	<ul style="list-style-type: none"> <li>• The electricity and water will be provided free of cost at all locations.</li> <li>• Storage space and office space to be made available by BHU to the contractor.</li> <li>• Crane and Hydraulic ladders, etc. shall be arranged by BHU.</li> </ul> <p>BHU shall provide an enclosed secure office space in the central area for permanent service line (single point of contact) and storage/archiving of all drawing and documents. BHU shall provide the above office in a location having sufficient storage space for safe storage of testing Equipment/Consumables/records/documents/Reports/Emergency/Spares.</p>

## **10. Commercial Terms & Condition**

**The estimated cost of annual operation & maintenance contract per annum is Rs. 54.00 lacs including all taxes & duties.**

**Note: Oil Filtration charges shall not included in the above price.**

### *Price for Unscheduled Services*

Prices for unscheduled services not covered under the scope of AOMC will be at an extra cost. Extra charges will be as agreed mutually between contractor and BHU.

### *Prices for Supply of Spares and Components*

Prices for supply of spares and components that need to be supplied in case of non-availability at BHU will be at an extra cost to BHU. The prices for such items shall be as agreed mutually between contractor and BHU.

The list of recommended spares will be submitted by contractor in due course of time. It is envisaged that BHU must keep the recommended spares in their inventory as and when required for maintenance.

Payment shall be made to contractor as under:

#### *Payment for scheduled services:*

100% payment along with taxes shall be paid on a pro-rata basis as monthly running bills. Certification for the bills shall be done by BHU– In-charge designated for this work.

#### *Payment for unscheduled services:*

100% payment along with all taxes for unscheduled services at mutually agreed rate will be made after submission of invoice along with job completion certificate.

#### *Payment for supply of spares and components:*

100% payment along with all taxes for supply of spares and components will be made after submission of invoice.

Payment for services and facilities

No costs shall be payable by contractor on the use of the intercom facilities, photocopies & first aid medical facilities.

### **Taxes, Duties, Levies**

All Taxes and Duties such as Service Tax etc. and any variations in same shall be claimed extra, at actual, by contractor where applicable against submission of documentary evidence.

### **12. (a) Limitation of Liability**

4. Contractor shall be exempted from any liability for defects or damages discovered or which appear more than 6 months after the termination of the Contract.
5. Normal wear and tear.
6. Any Force Majeure event.

#### **(b) Accommodation**

Only one residential quarter (not exceeding grade of Reader quarter) shall be provided by BHU free of cost for accommodation of contractor's personnel

### **13. Insurance**

5. Without thereby limiting its responsibilities under this contract, contractor shall insure with a reputable insurance company against all loss and damage and injury to its persons arising out of or in consequence of its obligations under this contract.
6. When working with subcontractors, contractor shall ensure that the subcontractors procure a minimum of insurance cover proportioned to their respective performance of the Services.
7. Contractor shall also arrange insurance in respect to and /or theft of contractor's other property, including tools and equipments if they are insurable.
8. Contractor shall also obtain accident liability insurance at its own cost for its employees and pay compensation on account of injury, fatal or otherwise due to accident during service being rendered under scope of this contract.



#### **14. Bankruptcy**

If either Party becomes bankrupt or insolvent or makes any contract with its creditors compounding debts or if, being a limited company, any proceedings have started in respect of it applying for the appointment of a liquidator, administrator, receiver or similar official for it or all or any substantial part of its assets or seeking an order of relief against it as debtor or under any law relating to insolvency, readjustment of debt, reorganization, administration or liquidation, the other Party may at any time by written notice terminate this contract forthwith, in which event the provisions of the TERMINATION clause shall apply.

#### **15. General**

BHU may assist contractor in obtaining any and all signatures, permits, licenses which may be required for the performance of the operation & maintenance services and providing of spare parts.

Any and all notices or other communication pursuant to this contract to be given by either Party to the other Party shall be in writing and in English and shall be deemed duly served and given if personally delivered against acknowledgement of receipt or five (5) business days after the day of sending when sent by registered mail or courier, or on the date of acknowledgement of receipt when sent by fax addressed to be mentioned.

#### **16. Warranty for third party maintenance services & equipments under warranty period**

3. BHU shall not itself perform or entrust any third party with any Maintenance Services or any other services at the Substation that could be performed by contractor without the prior written consent of contractor.
4. Contractor shall not repair BHU's equipment under OEM warranty without express approval of BHU. This does not replace the warranty offered by third party manufacturers with installed equipment during the warranty period. BHU shall manage the third party manufacturer to comply with its warranty obligations and keep contractor informed.

#### **17. Statutory Obligations**

Contractor shall take all steps, necessary or otherwise, to comply with the various applicable laws/rules/regulations, including, but not limited to, the provisions of Contract Labour (Regulation & Abolition ACT) 1970 as amended, Minimum Wages Act, 1948, Workmen Compensation Act, ESI Act, PF Act, Bonus Act, and all other applicable laws and rules framed there under including any statutory approval required from the Central / State Governments, Ministry of Labour.

Contractor shall, prior to commencement of the jobs under this Contract, furnish to BHU the permanent Provident Fund Code numbers and ESI of its employees and those employed by subcontractors, if applicable.

#### **18. Workmen's Compensation**

4. Contractor shall take out a comprehensive insurance policy under the Workmen's Compensation Act to cover such workers, who shall be engaged to undertake the jobs covered under this contract and a copy of this insurance policy shall be given to BHU solely for its information, reference and records. Contractor shall ensure that such insurance policies are kept valid at all times.
5. BHU shall be entitled to deduct from any money due to or to become due to contractor, money paid or payable by way of compensation as aforesaid or cost or expenses in connection with any claims there to and contractor shall abide by the decision of BHU as to the sums payable by contractor under the provisions of this clause.
6. Nothing contained in this contract, shall establish any relationship of any kind between BHU on the one hand and the employees, workmen and labourers, of any kind whatsoever of contractor on the other hand.

#### **19. Safety Code**

Contractor shall ensure adequate safe conditions and ensure safety precautions at site as required under applicable laws and shall be solely and entirely responsible for the complete safety of its workmen at site against any safety hazards arising out of the work done by contractor staff in the premises of RGSC (BHU).

#### **20. Subletting/ Assignment**

- b. Contractor may, with the prior consent of BHU in writing assign or sublet whole or substantially the whole of the Contract. However any such consent shall not relieve contractor from any obligation, responsibility or duty under this contract.

## **21. Governing Law and Arbitration**

- c. **Governing Law:** The laws of India shall govern this contract and each party submits to the exclusive jurisdiction of the courts in India.
- d. **Dispute Resolution Mechanism.** All disputes and differences arising out of or in connection with this contract shall be resolved amicably by mutual discussion within 30 days. If the dispute cannot be resolved by mutual discussion and contract the parties shall take such dispute to an arbitrator to be fixed/ approximated by BHU.

The arbitration shall be conducted in India in accordance with the provisions of the arbitration and Conciliation Act 1996. The arbitration proceeding shall be conducted in English.

## **22. Representation, Warranties and Guarantees**

Contractor hereby represents warrants and guarantees that:

- viii. It is a legally recognized entity under the laws of India;
- ix. The contract contains valid and binding obligations & is enforceable in accordance with the terms hereof;
- x. It has apprised itself of all applicable rules and regulations, and shall at all times comply with such rules and regulations;
- xi. It shall engage vehicles, tools, test kits and manpower suitable for the purposes of this contract to render services as contemplated in this contract;
- xii. The services would be conducted in a safe and efficient manner at the site and at all times in compliance with good industry practices and requirements of BHU.
- xiii. It shall procure all consents, license, permits, approvals and certificates & authorizations as may be required from any governmental authority for the performance of services at the Site;
- xiv. It shall duly pay, if applicable, the duties, taxes and levies as are set out in this contract, which are to be paid by contractor;

## **23. Notice of Events of Force Majeure**

If a force majeure event prevents a party from performing any obligations under this contract in part or in full, that party shall

- i) Immediately notify the other party in writing of the Force Majeure events within 2 working days of the occurrence of the Force Majeure event.
- ii) Be entitled to suspend performance of the obligations under the contract, which is affected by Force Majeure event for the duration of the Force Majeure event.
- iii) Use all reasonable efforts to resume full performance of the obligation as soon as practicable.
- iv) Keep the other party informed of all such efforts to resume full performance of the obligation on a regular basis.
- v) Provide prompt notice of the resumption of full performance or obligation to the other party.

## **Mitigation of Events of Force Majeure**

Contractor or BHU, as the case may be, shall :

- (i) Make all reasonable efforts to prevent and reduce to a minimum & mitigate the effect of any delay occasioned by an event of Force Majeure, including applying other ways in which to perform the contract,
- (ii) Use its best efforts to ensure resumption of normal performance after the termination of any Event of Force Majeure and shall perform its obligations to the maximum extent practicable as agreed between the Parties;
- (iii) Keep the other party informed at regular intervals of the circumstances concerning the event of Force Majeure, with best estimates as to its likely continuation and what measure or contingency planning it is taking to mitigate and or terminate the Event of Force Majeure.

## **Burden of Proof**

In the event that the Parties are unable in good faith to agree that a Force Majeure event has occurred to an affected party, the parties shall resolve their dispute in accordance with the provisions of this contract. The burden of proof as to whether or not a Force Majeure event has occurred shall be upon the party claiming that the Force Majeure event has occurred and that it is the affected party.

## **Termination for Certain Events of Force Majeure**

If any obligation of any Party under the contract is or is reasonably expected to be delayed or prevented by a Force Majeure event for a continuous period of more than 3 month during the Term of the contract, the contract may be terminated at the discretion of either party and it shall not be liable to the other for any consequences arising on account of such termination.

## **24. Confidentiality – Intellectual Property**

3. So as to enable contractor to perform its obligations under this contract and/or in fulfilling these obligations, BHU shall disclose and contractor may gain access to information which is proprietary to BHU and which is kept strictly confidential by contractor (hereinafter called "Confidential information").
4. Contractor undertakes to treat the confidential Information with at least the same degree of confidentiality as contractor uses in maintaining the secrecy of its own information of similar importance. Except to the extent set forth, contractor consequently undertakes not to use or carry the confidential information, nor to disclose the same to any third party, except to such contractor employees who need to know such confidential information in order to respect contractor's obligations under this contract.

Contractor further undertakes not to derive directly or indirectly at any time from the possession or use of the confidential information any right, title or interest therein, nor to claim any intellectual property right on the same.

3. The obligations and restrictions hereunder shall not apply to any other information disclosed to contractor by BHU or to which contractor may gain access, and which is not treated by BHU as strictly confidential, nor to confidential information or parts thereof which:
  - at the time of disclosure or access was publicly known,
  - becomes publicly known otherwise than by an act or omission on the part of contractor or one of its employees, at the time of disclosure or access was already known to contractor,
  - has been received from a source (other than BHU) lawfully having possession of such information
8. Technical information and other related documents forming part of this contract and the information obtained during the course of investigations under this contract shall be BHU exclusive property and shall not be used for any other purpose except for the execution of the contract. The technical information drawing, records and other documents shall not be copied, transferred, or divulged and / or disclosed to third party in full/part, not misused in any form whatsoever except to the extent for the execution of this contract.
9. These technical information and other related documents shall be returned to BHU with all approved copies and duplicates including all details as are prepared by contractor during the executions of this contract, if any, immediately after they have been used for agreed purposes.
10. Contractor shall not use the name of BHU in any manner either for credit arrangement or otherwise and it is agreed that BHU shall not in any way be responsible for the debts, liabilities or obligations of contractor and/ or its employees.
11. These provisions of this Clause shall survive, for a period of 3 years, beyond the termination or expiration of this contract.

## **25. Indemnification**

Each party shall indemnify at all times the Other and hold harmless all directors and employees of the other against any claims, law suits or damages occurring as a results of the award of this contract or due to the , maintenance and administration of this contract and against costs and expenses, if any incurred by either Party in connection therein and prejudice to make any recovery.

## **26. Exclusivity**

BHU undertakes not to perform for itself, nor to negotiate or purchase services similar to the services undertaken by contractor from any third party or perform such services through a third party during the term of this contract. BHU has the right to award the same order for similar work at same rates, or on any terms and conditions to another party or parties only if conditions as mentioned under the Termination Clause are applicable.

## **27. Termination**

1. The order can be terminated by BHU before the expiry of its term under the following conditions:
  - (i) Contractor fails to perform as per the order.
  - (ii) Contractor fails to deploy designated manpower for OMC as specified in the order.
  - (iii) It is found by BHU that contractor has intentionally manipulated or corrupted the data, or disclosed any of the contents of the details to any third party,
  - (iv) Contractor repudiates this order or otherwise evidences intention not to be bound by this contract,
  - (v) Contractor assigns, mortgages, or charges or purports to assign, mortgage, or charge any of its obligations or rights in contravention to the provisions of this contract; or transfers or novates any of its obligations in contravention to the provisions of this contract,

- (vi) Contractor breaches the Confidentiality Clause.
- (vii) If at any stage during the tenure of the contract, contractor is found to be involved in or indulging in or even attempting illegal, unlawful action or activities or some fraudulent actions or trying to receive bribe from any consumer or to give bribe to an official / staff or misuse or abuse any data of BHU.
- (viii) If at any point of time BHU fails to obtain the sanctioned fund for AOMC from the concerned funding authority.
2. Either party may terminate this contract by registered letter with immediate effect, if one of the following events occurs:
- The other Party is prevented by force majeure from performing for a period exceeding 3 months;
  - If a Party commits a serious breach of contract under this contract, and such breach of contract is not remediable,
  - Insolvency, bankruptcy, voluntary or court ordered liquidation, seizures or attachments that are not lifted within a reasonable period of time, or any other events that indicate a serious risk of insolvency of the other Party.
3. Due to reasons as above, if a party decides to terminate the contract, it shall give 30 days' notice. On receipt of such notice the other party shall immediately stop all activities related to the work terminated. This is without prejudice to other rights under the terms of contract. Contractor shall hand over to BHU all drawing / documents prepared for this contract up to the date of termination of contract.

In the event of termination under any circumstances BHU shall pay to contractor the entire amount due for Services provided to BHU up to the effective date of termination.

### **Personal**

If any of contractor's employees shall, in the opinion of BHU, be guilty of any misconduct or incompetence or negligence, then if so directed by BHU, contractor shall take necessary action and if the person is found guilty of repeated misconduct or incompetence, contractor shall at once remove such employee and replace him/her by a qualified and competent substitute