

**Ministry of Health & Family Welfare
(GOVERNMENT OF INDIA)**

Ministry of Health & Family Welfare

Nirman Bhavan, Maulana Azad Road
New Delhi – 110011

Tender for

**Supply, Installation, Testing & Commissioning of
33KV Sub-station equipment including
Construction of Substation Building of Housing
Complex for AIIMS-like Institution under PMSSY
at Bhubaneswar (Orissa)**

Volume -III

SPECIFIC CONDITIONS OF CONTRACT

Tender No. HSCC/PMSSY/BHUBANESWAR/SS/2011

DECEMBER 2011

Consultant

HSCC (India) LTD.

(A Govt. of India Enterprise)

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INDEX

Clause No.	Descriptions
INSTRUCTION TO BIDDERS	
A. GENERAL	
1.0	Description of Works
1.2	The Principle Employer / Employer
1.4	Time of completion
2.0	Information to be submitted
3.0	Cost of Bidding
4.0	Site Visit
B. Bid Documents	
5.0	Content of Bid Documents
6.0	Clarification on Bid Documents
7.0	Amendment of Bid Documents
C. Preparation of Bids	
8.0	Language of Bid
9.0	Documents Comprising the Bid
10.0	Bid Prices
11.0	Bid Validity
12.0 & 13.0	Bid Security
14.0	Format and Signing of Bid

Clause No.	Descriptions
D.	Submission of Bid
15.0	Sealing, Marking & Submission
16.0	Deadline for Submission of Bids
17.0	Late Bids
18.0	Modification and Withdrawal of Bid
E.	Bid Opening and Evaluation
19.0	Bid Opening
20.0	Process to be Confidential
21.0	Clarification of Bids
22.0	Determination of Eligibility & Responsiveness
23.0	Correction of Errors
24.0	Evaluation and Comparison of Bids
F.	Award of Contract
25.0	Award Criteria
26.0	Engineer's Right to Accept any Bid, to Reject any or all Bids
27.0	Notification of Award
28.0	Signing of Agreement
29.0	Performance Security

Clause No.	Descriptions
------------	--------------

SPECIFIC CONDITIONS OF CONTRACT

30.0	Definitions
31.0	Insurance of Works
32.0	Guarantees
33.0	Certificates and Payments
34.0	Settlement of Disputes - Arbitration
35.0	Address
36.1	Labour
36.1.1	Engagement of labour
36.1.2	Supply of water
36.1.3	Alcoholic liquor or Drugs
36.1.4	Arms and ammunition
36.1.5	Festivals and Religious Customs
36.1.6	Epidemics
36.1.7	Disorderly Conduct, etc.
36.1.8	Observance of legislations etc.
36.1.9 & 36.1.10	Fair Wages
36.1.11	Notices
36.1.12 & 36.1.13 & 36.1.14	Wage Records
36.1.15,36.1.16 &36.1.17	Inspection of Wage Records
36.1.18	Representation of Parties

Clause No.	Descriptions
36.1.19	Safety Provision
36.1.20	Foot wear
36.2	Variation in Price
36.2.1	Subsequent Legislation
37.0	Taxation
38.0	Co-ordination Meeting
39.0	Special Applications
39.1	Site Information
39.2 (a)	Special Instruction
(b)	Statutory requirements
39.2.1	Contractors Working Area
39.2.2	Contractors Temporary Structures
39.2.3	Procurement of Various Materials
39.2.4	Water Supply & Power Supply
39.2.5	Telecommunications
39.2.6	Temporary Fencing
39.2.7	Mix Design of Concrete
39.2.8	Testing of Materials
39.2.9	Approval of Samples Prior to Use
39.2.10	Bar Bending Schedule
39.3	Working Drawings/Shop Drawings/Designs
39.4	As Made Drawings
39.5	Monthly Progress Photographs

Clause No.	Descriptions
39.6	Programme of Work and Progress Report
39.7	Metric Units
39.8	Field Materials Testing Laboratory
40.0	Rates/Prices
41.0	Compliance for Statutory Obligations for obtaining completion certificate
42.0	Incentive for early completion (Deleted)
43.0	Unpriced Bids
44.0	Milestones
45.0	Approved of Make
46.0	RCC Works
47.0	Extra/Substituted items
48.0	Details required along with submission of running/final bills
49.0	Terms & Conditions of Pre-qualification

Clause No.	Descriptions
-------------------	---------------------

ADDITIONAL SPECIFIC CONDITIONS OF CONTRACT

(A) RELATING TO ELECTRICAL INSTALLATIONS

1.0	General
2.0	Regulations and Standards
3.0	Rates
4.0	Completeness of Bid
5.0	Works to be Done by the Contractor
6.0	Tools for Handling & Erection
7.0&7.1	Terminology & Scope
7.2	Measurement
8.0	Drawings
9.0	Conduit/ Trunking Layout
10.0	Shop Drawings
11.0	Manufacturer's Instruction
12.0	Materials & Equipment
13.0	Scale
14.0	Brochures & Data
15.0	Approval of Shop Drawings
16.0	Samples & Catalogues
17.0	Approval of Materials
18.0	Inspection, Testing and Inspection Certificate
19.0	Schedule & Manner of Operation
20.0	Performance Guarantee

Clause No.	Descriptions
21.0	Conformity with Statutory Acts, Rules & Standards
22.0	Completion Drawings (As Built Drawings)
23.0	Confirmation of Quantities
24.0	Terms of Payment
25.0	Training of Personnel
26.0	Completion Certificate
27.0	Check List
28.0	Repairs
29.0	Safe Custody & Storage
30.0	Testing and Commissioning
31.0	Operation and Running of entire system
32.0	Layout of all services , operating and maintenance Instructions. DO's and Don't's etc
ANNEXURE A	Form of Agreement
ANNEXURE B	Performa for Performance Bank Guarantee
ANNEXURE C	Performa for Bid Security Bank Guarantee
ANNEXURE D	Appendix to Tender
ANNEXURE E	Performa for Retention Money Bank Guarantee.

INSTRUCTIONS TO BIDDERS

A. General

1.0 Description of Works :

Supply, Installation, Testing & Commissioning of 33KV Sub-station equipment including Construction of Substation Building of Housing Complex for AIIMS-like Institution under PMSSY at Bhubaneswar (Orissa)

The Scope of work comprises of **Supply, Installation, Testing & Commissioning of 33KV Sub-station equipment including Construction of Substation Building of Housing Complex for AIIMS-like Institution under PMSSY at Bhubaneswar (Orissa)** and their maintenance during defect liability period including & preparation of all detailed shop drawings, obtaining approval from local authorities, electrical inspector, completion certificates, and all others local Statutory requirements if any, from the concerned authorities.

- 1.1 All the terms and conditions, undertakings of PQ documents under which the agency has been pre qualified for this work will have to be strictly followed and will be treated as part of this tender documents in addition to other terms and conditions of the tender documents.

1.2 The Employer

Ministry of Health & Family Welfare , New Delhi shall be the principal Employer / employer / owner for **Supply, Installation, Testing & Commissioning of 33KV Sub-station equipment including Construction of Substation Building of Housing Complex for AIIMS-like Institution under PMSSY at Bhubaneswar (Orissa)**

All documents relating to Labour License, submission of drawings to statutory authority for obtaining necessary clearance etc is to be signed/endorsed by representative of the institute.

- 1.3 In these documents wherever the word Tender/ Tenderer/ Tendering has been used. The same may be considered synonymous with Bid/ Bidder/ Bidding.

1.4 Time for Completion

The successful Bidder shall complete the whole Works within **05 (Five) Calendar months** from Engineer's order to commence the Work.

2.0 Information to be submitted

2.1 Bids submitted shall include the following information:

- (a) Copies of original documents defining the constitution, legal status, place of registration and principal place of business of the company or firm
- (b) A work plan clearly bringing out how the Bidder proposes to carry out the work to achieve the quality and the time schedule

The work plan shall clearly spell out with specific details the following:

- i. Detailed programme in the form of a **PERT/CPM network** clearly bringing out details of start & completion of all important activities and also programme showing material & labour resources related to the above PERT/CPM network.
- ii. List of equipment along with details proposed to be used on the Works.
- iii. List and bio data of Engineers and other important staff members proposed to be employed on the Works.

3.0 Cost of Bidding

3.1 The Bidder shall bear all costs associated with the preparation and submission of his Bids and "The Employer" will in no case be responsible or liable for those costs, regardless of the conduct or outcome of the Bidding process.

4.0 Site Visit

4.1 The Bidder is advised to acquaint himself with the job involved, visit the Site & examine soil conditions, climatic conditions, labour, power, water, material availability, transport and communication facilities, environmental regulations, laws and bye-laws of Statutory bodies of State Govt. and the Govt. of India and collect all information that will be necessary for preparing the Bid and entering into a Contract.

The cost of visiting the Site and collecting information for the purpose of submission of the Bid shall be to the Bidder's account.

4.2 The Bidder and any of his personnel or agents will be granted permission by the Employer to enter upon the Site for the purpose of such inspection, but only upon the express condition that the Bidder, his personnel or

agents will release and indemnify the Employer and Employer's Personnel and agents from and against all liability in respect thereof and will be responsible for personnel injury (Whether fatal or otherwise), loss of or damage to property and any other loss, damage, costs and expense however caused, which, but for the exercise of such permission would not have arisen.

B. Bid Documents

5.0 Content of Bid Documents

5.1 The Bid Documents comprise the following:

Volume I = Prequalification document

Volume II = General Conditions of Contract

Volume III = Specific Conditions of Contract
Comprising of :

- Instructions to Bidders
- Additional Specific Conditions of Contract relating to Electrical works.
- Sample Forms of Securities
- Sample Form of Agreement

Volume IV = Technical Specifications & Tender Drawings.

Volume V = Bill of Quantities

5.2 The Bidder is expected to examine carefully all instructions, conditions, forms, terms, specifications and drawings in the Bid documents. Failure to comply with the requirements of the Bid Documents will be at the Bidder's own risk.

Bids, which are not substantially responsive to the requirements of the Bid documents, will be rejected. **Bidders are requested to clear their queries before submission of bids and submit bids without conditions.**

6.0 Clarification on Bid Documents

6.1 A interested Bidder requiring any clarifications on the Bid documents may notify the Engineer in writing or by telex or cable at the Engineer's mailing address indicated in the Bid documents. A meeting of the prospective Bidders shall be held at which the Engineer will respond to any request for clarification which he receives within One week of the first

date of the issue of the Tenders. Written copies of the Engineer's response (including an explanation of the query but without identifying the source of the inquiry) will be sent to all prospective Bidders who have received the Bid documents.

7.0 Amendment of Bid Documents

7.1 At any time prior to the dead line for submission of Bids, the Engineer may for any reason, whether at his own initiative or in response to a clarification requested by the prospective Bidder, modify the Bid documents by amendment.

7.2 The amendment will be sent to all prospective Bidders who have received the Bid documents, to arrive not later than 3 days prior to the original or extended deadline for submission of Bids, in writing or by telex or cable and will be binding upon them. Prospective Bidders should promptly acknowledge receipt thereof by telex or cable to the Engineer.

7.3 In order to afford prospective Bidders reasonable time in which to take an amendment into account in preparing their Bids, the Engineer may, at his discretion, extend the deadline for the submission of Bids.

C. Preparation of Bids

8.0 Language of Bid

8.1 The Bid prepared by the Bidders and all correspondence and documents relating to the Bid exchanged by the Bidder and the Engineer shall be written in the English Language.

9.0 Documents comprising the Bid

9.1 The Bid to be prepared by the Bidder shall comprise of the following: the prequalification document duly filled with required information including all supporting documents, the Bid and Appendix thereto, the Bid Security, the Bill of Quantities; the Schedules of Supplementary information, and any other materials required to be completed and submitted in accordance with the instructions to Bidders embodied in these Bid documents. The Forms, Bill of Quantities and Schedules provided in these Bid documents shall be used without exception.

9.2 All documents issued for the purpose of Bidding as described in Clause 5.1 and amendments issued in accordance with Clause 7, shall be deemed incorporated in the Bid. Bid Documents prepared and submitted in accordance with Clause 14 and 15 shall be returned by Bidders to the Employer along with the submission of the Bid.

10.0 Bid Prices

- 10.1 The Bidder shall fill the rates against each item of Bill of Quantities both in words and figures in the blank spaces provided in the respective columns. Item for which no rate or price is entered by the bidder will not be paid for by the employer/Engineer and its price shall be deemed to be included and covered in the others rates and prices in the bill of quantities. The quantity of execution of such item shall be as per requirement and as such there will be no limit. Correction, if any, shall be made by crossing out, initialling, dating, stamping and rewriting. Wherever in any head if the same items are appearing and contractor has quoted different rates, contractor shall be paid the lowest quoted rate for such items.
- 10.2 All duties, taxes including works contract tax and other levies payable by the Contractor under the Contract including Contractors profit and over heads etc. or for any other cost shall be included in the rates and prices and the total amount of Bid submitted by the Bidder. The evaluation and comparison of Bids by the Engineer shall be made accordingly.
- 10.3 The rates and prices quoted by the Bidder shall be fixed for items complete in all respect for the duration of the Contract and not subject to adjustment on any account except as otherwise provided in the conditions of Contract.
- 10.4 The Bidder shall fill his most competitive rates in the first instance as no negotiations shall be made after opening of the Tenders except if required with the lowest Bidder.

11.0 Bid Validity

- 11.1 The Bid shall remain valid and open for acceptance for a period of **120 days** from the last date fixed for receiving the same.
- 11.2 In exceptional circumstances prior to expiry of the original Bid validity period, the Engineer may request the Bidder for a specified extension in the period of validity. The request and the responses thereto shall be made in writing or by cable or telex. A Bidder may refuse the request without forfeiting his Bid Security. A Bidder agreeing to the request will neither be required nor permitted to modify his Bid, but will be required to extend the validity of his Bid Security correspondingly.

12.0 Bid Security

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- 12.1 The Bidder shall furnish, as part of his Bid, a Bid Security of the amount of **Rs. 500,000/- (Rs. Five Lakhs Only)**. No deviation shall be permitted from this.
- 12.2 The Bid Security shall be in the form of a Demand Draft/Pay Order in favour of “HSCC(India) Ltd.” from any Nationalised bank/Scheduled bank payable at Noida/New Delhi or in the form of a Bank Guarantee as per format at Annexure C (Volume III) having validity period of 150 days from the last date fixed for receiving of bid or any extension thereof. No deviation shall be permitted from this.
- 12.3 Any Bid not accompanied by an acceptable Bid Security will be straightaway rejected.
- 12.4 The Bid Securities of unsuccessful Bidders will be returned as promptly as possible but not later than 30 days after the expiration of the period of Bid validity prescribed by the Employer.
- 12.5 The Bid Security of the successful Bidder will be returned upon the Bidder executing the Contract and furnishing the required Performance Security.
- 12.6 The Bid Security may be forfeited
- a) If a Bidder withdraws his Bid during the period of Bid validity.
 - b) In the case of successful Bidder, if he does not :
 - i) enter into the Contract, or
 - ii) furnish the necessary Performance Security
 - iii) agree to arithmetic corrections made as per terms of Bid documents.
 - iv) Submitted any misleading information during prequalification and or tendering process.
- 13.0 No interest will be payable by the Engineer on the Bid Security amount cited above.

14.0 Format and Signing of Bid

- 14.1 The Tender shall be filled & signed only by the firm/ corporation/joint venture in whose name the Tenders have been issued. The Bid shall be typed or written in indelible ink and duly signed by a person or persons duly authorised to being the Bidder to the Contract. Proof of authorization shall be furnished in the form of written Power of Attorney, which shall accompany the Bid.

14.2 All pages of Bid shall be initialled and stamped by the person signing the Bid where entries or amendments have been made.

14.3 The complete Bid shall be without alterations interlining and erasures except those to accord with instruction issued by the Engineer or as necessary to correct errors made by the Bidder in which case such correction shall be initialled by person signing the Bid.

D. Submission of Bid

15.0 Sealing, Marking & Submission

15.1 The Bid shall be submitted in accordance with the procedure detailed herein. Specified documents shall be enclosed in envelope of appropriate size each of which shall be sealed.

- (i) Envelope No. 1 : Shall contain the and Bid Securities as indicated in Clause 12 of these Instructions to Bidders. and in case the tenders are submitted using tender documents downloaded from website(s), Tender Document fee of Rs.5000/- in form of Demand Draft/Pay Order in favour of “HSCC (India) Ltd.” drawn on any Nationalised/Scheduled bank payable at Noida/New Delhi and undertaking as per Annexure-J (Vol.-I).
- (ii) Envelope No. 2 : Shall contain covering letter and the other Bid documents duly signed including the following :
 - (a) Power of attorney of person authorised to sign the Bid.
 - (b) Original Bid documents (all pages) & drawing (Volume II, III, & IV) duly signed and stamped.
 - (c) Documents regarding constitution of Bidder as indicated in Clause 2.1 of these Instructions to Bidders.
 - (d) Certificate of Registration.
 - (e) All the information as stipulated in clause 2.0 under information to be submitted
 - (f) Schedule for submission of structural design, drawing and all other shop drawings of civil, sanitary & plumbing, electrical, etc.
 - (g) Construction Schedule, **PERT Chart** and Schedule for manpower to be deployed at Site.

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- (iii) Envelope No. 3 : Shall contain only the Bill of Quantities and rates/prices (Volume V) duly filled in and signed and stamped without any conditions whatsoever. Bids containing any conditions in Envelope No. 3 are liable to be summarily rejected.

The Contractor must fill up price against each item of BOQ (Volume V) both in words and figures in the blank spaces provided in the respective columns. The rates written in words shall prevail in case of any variation between the rates mentioned in figure and words.

Please note that the price should not be indicated in any of the documents enclosed in Envelope no. 1&2. Non-compliance shall entail rejection of the Bid.

No rates to be quoted for the items where nil quantity is mentioned against that item. Indicating NIL quantity does not mean that this item will not be operated in the work. Rate of item quoted under any section of Bill Of Quantity is interchangeable and minimum rate quoted for the same item under any section will be taken for payment.

- 15.2 The Bidder shall seal the Bid.
- 15.3 All the above three envelopes shall be sealed in a fourth envelope and addressed to The Chief General Manager (DC), HSCC (India) Ltd., Plot - 6 (A), Block - E, Sector - I, Noida, Uttar Pradesh - 201 301.
- 15.4 All the above envelope shall bear the following identification:
- Name of work : **Supply, Installation, Testing & Commissioning of 33KV Sub-station equipment including Construction of Substation Building of Housing Complex for AIIMS-like Institution under PMSSY at Bhubaneswar (Orissa)**
- Tender number, Due date and Time.**
- 15.5 All the envelopes shall indicate the name and address of the Bidder to enable the Bid to be returned unopened, if required.
- 15.6 All recipients for the purpose of submitting a Bid shall treat the contents of the documents as private and confidential.
- 16.0 Deadline for Submission of Bids**

16.1 Bids must be received by the Engineer, HSCC (India) Ltd., on or before **1500 hours of the designated date.**

16.2 The Engineer may, at his discretion, extend the deadline for submission of Bids through the issuance of an amendment in accordance with Clause 7 in which case all rights and obligations of the Employer and the Bidders previously subject to the deadlines shall thereafter be subject to the new deadline as extended.

17.0 Late Bids

17.1 Any Bid received by the Employer/Engineer after the prescribed deadline for submission will liable to be rejected and will be returned unopened to the Bidder.

18.0 Modification and Withdrawal of Bid

18.1 The Bidder may modify or withdraw his Bid after Bid submission, provided that modification or notice of withdrawal is received in writing by the Engineer prior to the prescribed deadline for submission of Bids.

18.2 The Bidder's modification or notice of withdrawal shall be prepared, sealed, marked and despatched in accordance with the provisions for the submission of Bids. Notice of withdrawal may also be sent by telex or cable but shall be followed by a signed confirmation copy, postmarked not later than the deadline for submission of Bids.

18.3 No Bid may be modified subsequent to the dead line for submission of Bids.

18.4 No Bid may be withdrawn in the interval between the deadline for submission of Bids and the expiration of the period of validity of the Bid specified. Withdrawal of a Bid during this interval may result in the forfeiture of the Bid Security.

18.5 Subsequent to the expiration of the period of validity of Bids prescribed in the Bid documents, a successful Bidder who has not been notified by the Engineer of the Award of the Contract may withdraw his Bid without penalty.

E. Bid Opening and Evaluation

19.0 Bid Opening

19.1 Bids shall then be opened in the office of HSCC (I) Ltd., at Plot - 6 (A), Block - E, Sector - I, Noida, Uttar Pradesh - 201 301, half an hour after the

prescribed time for Bid submission in presence of the Bidders' representatives who may wish to be present.

Envelope No. 1 : Shall be opened first. If the (i) tender document fee (in case bids are submitted using tender documents downloaded from websites) or (ii) Bid Security is not found as prescribed, the Bid shall be summarily rejected.

The bidders who are not pre-qualified, their bids shall not be opened further.

Envelope No. 2 : Shall be opened next. Bids of parties who do not accept the conditions laid above in the Bid documents are also liable to be rejected.

Bids of parties who do not accept the conditions laid above in the Bid documents are also liable to be rejected.

19.2. The Engineer will examine the Bids to determine whether they are complete, whether the requisite bid securities have been furnished, whether the Bids have been properly signed and stamped and whether the Bids are generally in order.

19.3 Telegraphic/ Fax offer will be treated as defective, invalid and rejected. Only detailed complete Bids received prior to the closing time and date of the Bids will be taken as valid.

19.4 The Bidder's names, general technical details, the presence of the requisite Bid Security and such other details as the Engineer, at his discretion may consider appropriate will be announced at the Bid opening.

Envelope No. 3 : Shall contain the sealed price Bid. Whose bid is found to be generally in order and substantially responsive shall be opened either at the Bid opening or at a subsequent date to be intimated in advance to such eligible Bidders.

19.5 Only summary of prices quoted by the Bidders will be read out.

19.6 The Bid of any Bidder who has not complied with any of the instructions contained herein may not be considered.

20.0 **Process to be Confidential**

20.1 After the public opening of Bids, information relating to the examination, clarification, evaluation and comparisons of Bids and recommendations

concerning the Award of Contract shall not be disclosed to Bidders or other persons not officially concerned with such process.

20.2 Any effort by the Bidder to influence the Employer/ Engineer in the process of examination, clarification, evaluation and comparison of Bids and decision concerning Award of Contract may result in the rejection of the Bidder's Bid.

21.0 Clarification of Bids

21.1 To assist in the examination, evaluation and comparison of Bids, the Engineer may ask Bidders individually for clarification of their Bids, including breakdowns of unit prices. The request for clarification and the response shall be in writing or cable or telex, but no change in the price or substance of the Bid shall be sought, offered or permitted except as required to confirm the correction or arithmetical errors discovered by the Engineer during the evaluation of the Bids in accordance with Clause 24 hereof.

22.0 Determination of Eligibility & Responsiveness

22.1 The Engineer will determine whether the Bid is substantially responsive to the requirements of the Bid documents.

For the purpose of this Clause, a substantially responsive Bid is one which conforms to all the terms, conditions and specifications of the Bid documents without any deviation or reservation.

22.2 A Bid, which in relation to the cost estimates of the Engineer is unrealistically priced and which cannot be substantiated satisfactorily by the Bidder may be rejected as non responsive.

23.0 Correction of Errors

23.1 Bids, determined to be substantially responsive will be checked by the Engineer for any arithmetical errors in computation and summation. Errors will be dealt by the Engineer as follows :

- a) Where there is discrepancy between rates indicated in figures and in words, rates in words will govern.
- b) Incorrectly added totals will be corrected.
- c) In case of any clerical error between rates indicated in figures and words, the rate in words shall prevail. In case there is any inconsistency between the rate and the value extended (after

multiplication with the tender quantity), the rate quoted shall prevail.

23.2 If a Bidder does not accept the correction of errors as outlined above, his Bid will be rejected.

24.0 Evaluation and Comparison of Bids

24.1 Only such of the Bids as have been determined to be substantially responsive to the requirements of the Bid documents, in accordance with Clause 22 will be evaluated. Other non-responsive Bids will be rejected.

24.2 Bidders shall note that no preference of any nature will be given to any Bidder notwithstanding any custom, usage or instructions to the contrary.

24.3 Evaluation of the Bids will take into account, in addition to the Bid amounts, the following factors:

- a) Arithmetical errors corrected in accordance with Clause 23.
- b) Such other factors as the Engineer considers may have a potentially significant impact on Contract execution price and payments.

24.4 Offers, deviations and other factors, which are in excess of the requirements of the Bid documents or otherwise result in the accrual of unsolicited benefits to the Employer, shall not be taken into account in Bid evaluation.

24.5 Price adjustment provisions applying to the period of execution of the Contract shall not be taken into account in Bid evaluation except to the extent specifically stated in the Contract.

F. Award of Contract

25.0 Award Criteria

25.1 Subject to Clause 26, Engineer will Award the Contract after prior approval by the Employer to the Bidder whose Bid has been determined to be eligible and to be substantially responsive to the Bid documents and who has offered the lowest evaluated Bid of the Bill of Quantities, provided further that the Bidder has the capability and resources effectively to carry out the Contract Works before award of work, but in all the cases the time allowed for completion for whole work will remain 05 months only.

26.0 Engineer's Right to Accept any Bid, to Reject any or all Bids

26.1 Notwithstanding Clause 25, the Employer/Engineer reserves the right to accept or reject any Bid including the lowest and to annul the Bidding process and reject all Bids, at any time prior to Award of Contract, without thereby incurring any liability to the affected Bidder or Bidders or any obligations to inform the affected Bidder or Bidders of the grounds for the Employer's/Engineer's action.

27.0 Notification of Award

27.1 Prior to the expiration of the prescribed period of Bid validity, the Engineer will notify the successful Bidder by cable or telex or letter confirmed in writing by registered letter that his Bid has been accepted.

27.2 The notification of Award will constitute the formation of the Contract.

27.3 Upon the furnishing by the successful Bidder of a Performance Security in accordance with the provisions of Clause 29, the Engineer will promptly notify the unsuccessful Bidders that their Bids have been unsuccessful.

28.0 Signing of Agreement

Upon the receipt of the notification of Award by the successful Bidder, the successful Bidder shall fill the Agreement in accordance with form of Agreement included in the Bid documents and submit the same to the Engineer within two weeks of the date of receipt of notification of Award. The Engineer shall return the draft duly approved within one day from the date of receipt of the draft and the successful Bidder shall get the same engrossed, have the correct amount to stamp duly adjudicated by Superintendent of Stamps and thereafter return the same duly signed and executed on behalf of the successful Bidder, all at his own cost within 3 days from the receipt of the approved draft. The signing of agreement may be made together or separately for sections with respective client / HSCC Ltd, on behalf of the client.

29.0 Performance Security

29.1 Within 15 days of receipt of the notification of Award from the Engineer, the successful Bidder shall furnish to the Engineer a Security in the form of a Bank Guarantee from Nationalised/Scheduled bank for an amount of 5 percent of the Contract sum. The validity of the Performance Security shall be upto the end of the Defect Liability Period with 3 months claim period after expiry of defect liability period. Performance security for the works to be submitted as per the format enclosed at Annexure B.

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- 29.2 In cases, where the aggregate of expected Contract payment would at any time exceed the Engineer's estimate of actual work performed by more than the amount of Performance Security specified in Clause 29.1 such Security shall be increased accordingly at the expense of the successful Bidder.
- 29.3 Failure of the successful Bidder to lodge the required Bank Guarantee shall constitute sufficient grounds for the annulment of the Award and forfeiture of the Bid Security.

SPECIFIC CONDITIONS OF CONTRACT

The Conditions of Contract shall be GENERAL CONDITIONS OF CONTRACT in Volume II (hereinafter called the General Conditions) as modified or added to by the following Specific Conditions of Contract, which shall be read and construed with the General Conditions as if they were incorporated therewith.

Insofar as any of the Conditions of Specific Conditions of Contract conflict or be inconsistent with any of the General Conditions, the conditions of Specific Conditions of Contract shall prevail.

30.0 Definitions

- a) "PRINCIPAL EMPLOYER/ EMPLOYER " means **Ministry of Health & Family Welfare , Govt. of India, New Delhi**
- b) "Engineer" means **Chief General Manager (DC) of HSCC (India) Ltd.** or any officer nominated by the Chairman-cum-Managing Director, HSCC (India) Ltd. to act as Engineer from time to time.
- c) Site Incharge means the HSCC incharge of work designated by the Engineer
- d) "Month" and "Year" and all dates shall be calculated according to the Gregorian Calendar.

31.0 Insurance of Works

All Insurances referred to in General Conditions shall be effected with an Indian Insurance Company incorporated and registered in India. All insurances and labour license to be submitted before commencement of works. Depending upon the case, the insurance cover may be required either together for the whole work or separately for both the parts.

32.0 Guarantees

Performance Guarantees, Advance Payment Guarantee, Retention money Guarantee and any insurance policies entered into by the Contractor under the terms of the Contract, shall stipulate that the proceeds of any claim shall be payable to **Employers**.

33.0 Certificates and Payments:

- a) No Mobilization advance shall be payable.

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- b) The Contractor shall submit to the Engineer after the end of each month a detailed statement including measurements showing the estimated contract value of the Permanent Works executed up to the end of the month together with particulars of other amounts to which he is entitled under the Contract.
 - c) The statement shall be submitted on a printed proforma (prepared at the cost of the Contractor) approved by the Engineer along with soft copy of the same in a CD/Pen drive.
 - d) The Contractor shall be paid monthly, on the certification of the Engineer, the amount due to him which shall be the sum of the following amounts :
 - i) Subject to and in accordance with Clause 21 of these Specific Conditions, the estimated value of the Permanent Works executed up to the end of the previous month less retention money named in the Bid,
 - e) Retention Money at the rate of 10% (ten percent) shall be deducted from each interim certificate subject to the maximum of 5% (Five percent) of the contract price after approval by engineer.
 - f) The Retention Money shall, subject to Clause 60.6 (a) & 60.6 (b) of General Conditions of Contract, become due and shall be paid to the Contractor when the Engineer shall issue the Taking Over certificate notwithstanding that at such time there may be outstanding claims by the Contractor against the Employer, provided always that if at such time there shall remain to be executed by the Contractor any Works ordered during the Defect Liability Period pursuant to Clause 49.1, 49.2, 49.3, 49.4 and 50.1 of the General Conditions hereof, the Employer shall be entitled to withhold payment until the completion of such Works as much of the Retention Money as the Engineer may in his absolute discretion think fit.
 - g) Payment against each monthly R/A bills upon each of the Engineer's certificates shall be made by the HSCC (I) Ltd. acting for and on behalf of Employer or by the Employer directly within 30 working days after such certificate has been issued by the Engineer.

However, 75% of the estimated amount as determined by the Engineer of the payment due against the monthly running bill shall be paid within 10 (Ten) working days after certification by the Engineer in the approved format and complete in all respects.

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- h) The Engineer may at any time make any corrections or modifications to any certificate, which shall have been issued by him and shall have power to withhold any certificate if the Works or any parts thereof are not being carried out to his satisfaction.
 - i) The responsibility for making the payments or meeting other obligations to the Contractor in respect of all Works as certified by the Engineer shall be that of the Employer and not of the Engineer.
 - j) After completion of work and prior to final payment, the contractor shall furnish to the engineer, a release of claim against the Employer arising out of contract, other than claims specifically identified, evaluated and excepted from the operation of the release by contractor.
 - k) Contractor has to submit break up of BOQ rate to facilitate approval of interim payment by the Engineer. However final decision on break up of rates to be paid in parts will be taken by Engineer
 - l) Monthly bill not submitted in approved formats will not be accepted.

34.0 Settlement of Disputes - Arbitration

Sub Clause 67.1, 67.2, 67.3 and 67.4 of G.C.C. shall be followed.

35.0 Address

- a. The address of the Employer is as follows :

**Ministry of Health & Family Welfare ,
Govt. of India,
Nirman Bhavan,
New Delhi.**

- b. The address of the Engineer is as follows

**The Chief General Manager (DC),
HSCC (India) Ltd.,
Plot - 6 (A), Block - E,
Sector - 1,
Noida, Uttar Pradesh - 201 301.**

c. The address of the Contractor is

36.0 THE FOLLOWING SHALL BE READ IN ADDITION TO CLAUSE 34.1 TO THE GENERAL CONDITIONS

36.1 Labour

36.1.1 Engagement of Labour

The contractor shall make his own arrangement for engagement of all labour, local or otherwise, and, save insofar as the contract otherwise provides, for the transport, housing, feeding and payment thereof.

36.1.2 Supply of water

The contractor shall provide at his own cost adequate quantity of drinking water on the site to the satisfaction of the Engineer's Representative for the use of contractor's and the Engineer's staff and work people, sub contractor and site visitors.

36.1.3 Alcoholic Liquor or Drugs

The Contractor shall not import, sell, give, barter or otherwise dispose of any alcoholic liquor, or drugs, or permit or suffer any such importation, sale, gift, barter or disposal by his sub-contractor, agents or employees.

36.1.4 Arms and Ammunition

The Contractor shall not give, barter or otherwise dispose off to any person or persons, any arms or ammunition of any kind or permit or suffer the same as aforesaid.

36.1.5 Festivals and religious Customs

The Contractor shall in all dealing with labour in his employment have due regard to all recognised festivals, days of rest and religious or other customs.

36.1.6 Epidemics

In the event of any outbreak of illness of an epidemic nature, the contractor shall comply with and carry out such regulation, orders and requirements as may be made by the government, or the local medical or sanitary authorities for the purpose of dealing with and overcoming the same.

36.1.7 Disorderly Conduct, etc

The Contractor shall at all times take all reasonable precautions to prevent any unlawful, riotous or disorderly conduct by or amongst his employees and for the preservation of peace and protection of persons and property in the neighbourhood of the works against the same.

36.1.8 Observation of legislation etc.

The Contractor shall at all times during the continuance of the contract comply fully with all existing Acts, regulation and bylaws including all statutory amendments and re-enactments and acts that may be passed in future either by state or the central Government or local authority, including, Indian Workmen's compensation act, Contract labour (Regulation and Abolition) Act 1970 and equal remuneration Act 1976. Factories Act, Minimum wages Act, provident fund regulations, Employees Provident Fund Act and Schemes made under same act, Health and sanitary arrangements for workmen, Insurance and other benefits and shall keep the employer indemnified in case any action is commenced for contravention by the contractor. If the Employer is caused to pay or reimburse any amount for non-observance of the provision of this clause on the part of the contractor the engineer shall have the right to deduct from any moneys due to the contractor or recover from the contractor personally any sum required or estimated to be required for making good the loss or damage suffered by the Employer. All registration and station inspection fees if any in respect of his work pursuant to the contract shall be to the account of the contractor.

36.1.9 Fair Wages

The contractor shall pay the labours engaged by him on the work not less than a fair wages, which expression shall mean, whether or time or piecework, the respective rates of wages as fixed by the public works department as fair wages for the area payable to the different categories of Labourers or those notified under the minimum wages act for corresponding employees of the employer whichever may be higher.

36.1.10 The contractor shall notwithstanding the provisions of any contract to the contrary, cause to be paid a fair wage to the labourers indirectly engaged

on the works including any labour engaged by subcontractor in connection with the said works as if the labourers has been immediately employed by him.

36.1.11 Notices

The Contractor shall before he commences the work display and correctly maintain in clean and legible condition at a conspicuous place on the site notices in English and in a local language spoken by the majority of the workers, stating therein the rate of wages which have been fixed as fair wages and the hours of work for which such wages are earned and send a copy of such notices to the Engineer.

36.1.12 Wage Records

The Contractor shall maintain records of wages and other remuneration paid to his employees in such form as may be convenient and to the requirement of the Employer/Engineer and the conciliation officer (Central) Ministry of Labour, Government of India, or such other authorised person appointed by the central or state government and the same shall include the following particulars of each worker:

- I) Name works number and grade
- II) Rate of daily or monthly wage.
- III) Nature of work on which employed.
- IV) Total number of days worked during each wage period.
- V) Total amount payable for the work during each wage period.
- VI) All deduction made from the wage with details in each case of the ground for which the deduction is made.
- VII) Wage actually paid for each wage period.

36.1.13 The contractor shall provide a wage slip for each worker employed on the works.

36.1.14 The wage record and wage slips shall be preserved for least 12 months after the last entry.

36.1.15 Inspection of wage Records

The contractor shall allow inspection of the aforesaid wage records and wage slip to the engineer and to any of his workers or to his agent at a convenient time and place after due notice is received, or to the Employer or any other person authorised by him on his behalf.

36.1.16 The Employer and the Engineer or any other person authorised by them on their behalf shall have power to make enquiries with a view to ascertaining

and enforcing due and proper observation of the fair wages clause. He shall also have the power to investigate into any complaint regarding any default made by the contractor or sub-contractor in regard to such provision.

36.1.17 The Employer shall have the right to deduct from money due to the contractor any sum required or estimated to be required for making good the loss suffered by a worker or workers by reason of non payment of the aforesaid fair wage, except on account of any deduction that may be permissible under any law for the time being in force.

36.1.18 Representation of parties

(i) A workman shall be entitled to be represented in any investigation or enquiry under this clause by :-

(a) An officer of a registered trade union of which he is a member.

(b) An officer of a federation of trade union to which the trade union referred to in previous sub-clause is affiliated.

(c) Where the worker is not a member of any registered trade union, by an officer of a registered Trade union connected with or by any other workmen employed in the industry in which the workers is employed.

(ii) The contractor or sub-contractor shall be entitled to be represented in any investigation or enquiry under this clause by an officer of an Association of Employers of which he is a member.

(iii) No party shall be represented by a legal practitioner in any Investigation or enquiry under this clause, unless all parties agree.

36.1.19 Safety Provision

The contractor shall comply with all the precautions as required for the safety of the workman by I.L.O convention (NO.62) as far as they are applicable to the contract. The contractor shall provide all necessary safety applications, gears like goggles, helmets, masks, etc. to the workmen and the staff.

The contractor shall be responsible for observance by his sub contractor of the forgoing provisions

36.1.20 Footwear

The contractor shall at his own expense provide footwear for all labour engaged on concrete mixing work and all other type of work involving the use of tar, cement, etc. to the satisfaction of the Engineer or his Representative, and on his failure to do so the Employer shall be entitled to provide the same and recover the cost from the Contractor

The contractor shall deliver to the Engineer's representative at his office on the site a return in detail in such form and at such interval as the Employer/Engineer may prescribe showing the supervisory staff and the number of the several classes of labour from time to time employed on the site.

36.2 Variation in price

No Variation shall be payable in price on account of labour, material (General), POL and / or any other account. Also no variation/escalation shall be payable on account of time over run if any in completion.

36.2.1 Subsequent Legislation

If, after the date seven days prior to the latest date for submission of Bids for the Works, there occurs changes to any National or State Statute, Ordinance, Decree or other law or any regulation or bye-law of any local or other duly constituted authority or the introduction of any such statute ordinance, etc. which causes additional or reduced cost, the same shall be certified by the Engineer and shall be paid by or credited to the Employer and the Contract Price adjusted accordingly. Notwithstanding the foregoing such additional or reduced cost shall not be separately paid or credited if the same shall already have been taken into account in the indexing of any inputs to the price adjustments formula in accordance with the provisions of Sub-Clauses (1), (2), (3), (4) and (5) of this Clause.

The following items are not to be included in the price adjustment calculations:

- a. Liquidated Damages.
- b. Retention money withheld and released.
- c. Advance payments in the form of loan and their repayments.
- d. Value of any additional or varied work valued at current price.

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- e. Payment to nominated subcontractors included as "Provisional sums" or "Prime cost" items in the Contract Price.

37.0 Taxation

The Contractor shall pay all taxes, duties, levies, work contract tax, Building and other Construction Workers Cess etc. of the Government provisions of the Income tax Act or as per the advice of the Income Tax Authority. Deduction of Income tax/ Works Contract tax/ other taxes, duties, cess shall be made from each certificate of payment as per the relevant provisions of the Income tax Act or as per the advice of the Income tax Authority/ other Competent Authority.

38.0 Co-ordination Meeting

The Contractor shall be required to attend co-ordination meetings with the Engineer, the Consultant and the other Contractors during the period of Contract as instructed by the Engineer. All costs incidental to such interaction shall be to the Contractor's account and no claim will be entertained by the Employer/Engineer on this account.

38.1 Engineer's visit to site

The contractor/his representative shall be required to be present during periodical site visit of the engineer along with all the drawings and details required by the engineer. The contractor will make all the places accessible for the smooth visit of engineer at site. The contractor will take all permissions and to make all the arrangements for visit of any place or any local authority concerned related to the works.

39.0 Special Applications

39.1 Site Information

The proposed Site for the **Supply, Installation, Testing & Commissioning of 33KV Sub-station equipment including Construction of Substation Building of Housing Complex for AIIMS-like Institution under PMSSY at Bhubaneswar (Orissa)** is located at **Bhubaneswar (Orissa)**.

39.2 Site Development

- a) Proper arrangement of security, safety, transportation, manpower, lighting arrangement to be maintained during execution of works.

b) For rapid execution of work, contractor has to arrange their own plant and others machinery, tools and tackles needed for the work as given in the submitted PQ document.

b) Statutory Requirements

Contractor is responsible for obtaining approval from local electrical inspector and others local Statutory requirements if any from local Authorities and any structure made / to be made of work, which is not in the approved plan, by the local authority. All the statutory expenditure incurred towards payment to the local body for getting local Electric inspector, for Employer will be reimbursed on the production of proof of payment. The contractor will be promptly extended all assistance in this connection.

39.2.1 Contractor's Working Area

Suitable working area will be provided by the Engineer to the Contractor. The Contractor may have to carry out some cutting / filling work for making his working area. The cost of all such Works shall be deemed to have been included in the rates and prices quoted for the Works and no extra payment shall be made on this account.

39.2.2 Contractor's Temporary Structures

The Contractor may, at his own expense and subject to the approval of the Engineer and statutory authorities, construct offices, stores, Workshop in the area allocated to him and remove the same as per the orders of the Engineer on completion of Works. The Contractor shall furnish such details of his Temporary Works as may be called for by the Engineer and the Contractor shall satisfy the Engineer as to their safety and efficiency. Engineer may direct those Temporary work which he considers unsafe or inefficient be removed and replaced in a satisfactory manner. The Contractor shall immediately follow Engineer's directions/instructions.

The Contractor shall make his own arrangement at his own expense for labour camp / accommodation of his labour and staff and their conveyance to Site as no workers/ staff shall unless with the specific approval of the Engineer be allowed to stay within the Site. Gate passes shall be issued by the Engineer to authorise the Contractor's staff and workers to enter the Site.

39.2.3 Procurement of Various Materials

The Employer will not supply any construction materials required for the Works under this Contract. The Contractor must, therefore, make his own arrangements for timely procurement of various materials.

39.2.4 Water Supply & Power Supply

The Contractor shall make his own arrangement for water supply at Site for drinking as well as construction purposes at his own cost. The Contractor shall also make his own arrangements for power supply at Site for construction, testing & commissioning of all services and general use at his own cost.

Non-availability of power supply and/or water from whatever source shall not entail any additional claims or extension of Contract period in this account.

39.2.5 Site office

Deleted

39.2.6 Temporary Fencing

The Contractor shall at his own expense, erect and maintain in good condition temporary fences all around the working premises as per approved specifications by Engineer. After the successful completion of work all the temporary fencing will be dismantled/removed by contractor and all the dismantled/removed material from here shall be the property of the contractor.

39.2.7 Mix Design of Concrete

Deleted

39.2.8 Testing of Materials

All materials used in the works shall be subject to inspection and test. The Contractor shall arrange for testing of materials as per the appropriate Indian Standards and/or as directed by the Engineer. The delivery of the samples shall be undertaken by the Contractor. The cost and charges for sampling of materials and delivering the same to the office of the Engineer and/or other places including all incidentals in connection with the same as directed by the Engineer and the testing charges there of shall be borne by the Contractor and shall be deemed to be included in the rates and prices quoted in the Bill of Quantities. The results of the tests carried out shall be binding on the Contractor who shall comply with any rectification

measures that the Engineer may deem fit and order to be executed by the Contractor as a result of testing.

39.2.9 Approval of Samples prior to use

The Contractor shall submit the samples of all materials, (whether in list of approved make or not in list of approved make) he proposes to use in the Works for prior approval of the Engineer. A sample room shall be maintained at Site in which all approved samples shall be kept for comparison with materials being used at Site.

39.2.10 Bar Bending Schedule

Not applicable

39.3 (a) Working drawings/ shop drawings/Design :

The drawings supplied by the engineer have been listed in the tender documents.

These drawings are indicating for the purpose of detailing the intent and requirement of the contracts. The contractor shall take into consideration by space allocated for equipments before ordering them to ensure that the equipment would fit in the space provided with necessary clearances required as per the relevant standard/ manufactures recommendations.

Detailing and shop drawings of all services will have to be done by the contractor based on the schematics and other details provided by HSCC or local authorities. The work will be executed by the contractor based on the approved drawings from the concerned authority and accordingly contractor will be responsible for obtaining final NOC/clearance from concerned authority.

The contractor shall submit to the Engineer for approval details of all proposed equipments, accessories, equipment characteristics and capacity details of all equipment, accessories and devices etc. as per the specifications and required by the Engineer.

These drawings and details shall also contain details of construction, size, arrangement, operating clearances, performance characteristics and capacity of all items of equipments and also details of all related items of work by other discipline.

All drawings to be signed by authorised contractor's representative with name, seal and date before submission to Engineer.

39.4 "AS MADE" Drawings

The Contractor shall supply two complete sets of "As Made" Drawings on polyester tracing film 75 micron thick and also on computer pen drive and three prints showing details of all the Works as executed. The drawings and prints shall be delivered to the Engineer within one month of completion of the various Sections of the work or at such other times as directed by the Engineer. The drawings shall be fully dimensioned with the Engineer's standard title block or as approved by the Engineer. The cost of making the "As Made" drawings shall be deemed to be included in the rates quoted in the Bill of Quantities.

39.5 Monthly Progress Photograph

The Contractor shall supply to the Engineer a pen drive, negative and three prints of colour progress photographs in good quality album with two copy at site and one copy at HSCC Head Office of such portions of the work in progress or completed works every month end or as directed by the Engineer. The pen drive, negative and the photographs shall become the property of the Employer. The photographs shall be of approximate size 169 mm x 115 mm each. The photographs shall be mounted in albums approved by Engineer and shall be suitably inscribed and captioned. The albums in a chronological order shall be handed over to the Engineer. No pen drive prints or the negatives may be supplied to any persons without the authority of the Engineer. All photographs to be taken from digital camera and software to be provided for transformation it to the computer. The photographs may be up to 25 nos per month as required by engineer. An amount of Rs.1,000/- will be deducted from running bill for non-submission of photographs as required.

39.6 Programme of Work and Progress Reports

The Contractor shall submit to the Engineer within two weeks of the Award of the Contract, six copies of detailed Schedule showing in an approved form the estimated dates of commencement and completion of different parts of the Works including the expected dates for completion of the various Sections of the Works. The detailed Schedule shall be such as it can be updated quarterly or as directed by the Engineer. Six copies of the revised Schedule shall be supplied to the Engineer as and when it is revised. The schedule will be in two parts. The first part will consist of schedule for detailing & preparation & submission of shop drawings and second part of schedule for execution. The schedule will be only detailing of original schedule submitted alongwith tender.

The Contractor shall submit to the Engineer before the second day of every week, a progress report for the preceding week showing the unto

date progress and progress during the preceding week on all items of each section of the Works in relation to and in consideration of the detailed Schedule.

39.7 Metric Units

Metric units have been used in the specifications and on all the drawings.

If any materials described in the Contract or ordered by the Engineer are described by dimensions in the metric units and the Contractor can not in accordance with the Contract, procure such materials in the measure specified in sufficient time to avoid delay in the performance of his other obligations under the Contract, but can obtain such materials in other measure to dimensions approximating to those described in the Contract or ordered by the Engineer, then the Contractor shall henceforth give notice to the Engineer of these facts stating the dimensions to which such materials are procurable in the other measure. As soon as practicable after the receipts of any such notice the Engineer shall give an order to the Contractor which shall either

- (a) Direct the Contractor to supply such materials to the dimensions stated in his said notice to be procurable instead of the dimensions described in the Contract or originally ordered by the Engineer, or
- (b) Direct the Contractor to make some other variation whereby the need to supply such materials to the dimensions described in the Contract or originally ordered by the Engineer will be avoided.

39.8 Field Materials Testing Laboratory

39.8.1.1 The contractor shall carryout inspection, testing, checks and also shall maintain records of inspection, testing & checks of material, works and activities related to construction works in the ISO 9001 quality system formats, checklists etc. to be given by consultant during execution period. After getting approval from the Engineer, The contractor shall print at his own cost all forms, tables, formats etc.

40.0 Rates/Prices

The quoted rates/prices for the items shall be complete in all respect including all labour, material, plant and machinery, tools and tackles, batching plant for RCC work including water & electricity, all taxes, duties, levies, octroi, statutory levies applicable from time to time and others as specified in SCC etc. The contractors attention is invited towards different floor finish and their respective finish levels as indicated in

architectural drawings, and nothing extra will be payable for additional mortar bed required to achieve uniform finished levels. The Contractor should quote his rates/prices accordingly for the complete items in all respects.

41.0 Compliance of Statutory Obligations for obtaining completion Certificates:

The Contractor shall comply all the statutory obligations and obtain all required clearances to implement the project without any financial repercussions to HSCC/Employer and ensure all follow up actions with the local authorities in this respect for smooth completion of the project. All statutory charges to get any NOC, clearances from local authorities to be obtained by the contractor and the charges towards the NOC shall be reimbursed after submitting the bills/documentary evidences along with RA bills/final bill. The contractor is required to obtain all NOC, completion & Occupancy certificates from respective local bodies as under:

i) Chief Electrical Inspector CEA, ii) And any other statutory requirement to occupy the building and run the services in all respect. Contractor shall organise all inspections of concerned authorities & obtain the NOC's within the time for completion.

The contractor is required to submit the relevant drawings like completion Drawings and any other statutory documentary requirements of local bodies in copies as per requirement to obtain the above etc. at their own cost.

42.0 Incentive for early completion

In case, the contractor completes the work in all respect ahead of scheduled completion time , a bonus @ 1% (one percent) of the Contract value per month computed on per day basis, shall be payable to the contractor, subject to a maximum limit of 5% (five percent) of the tendered value. The amount of bonus, if payable, shall be paid along with final bill after completion of work.

43.0 Unpriced Bids

The unpriced copies of the purchase orders of major items/equipments and of subcontracts placed by the Contractor shall be furnished to the Engineer.

44.0 Milestone

The contractor shall submit mile stones for procurement of all the bought out items and completion of all the major activities including details of manpower proposed to be engaged for each activity.

45. Approval of Make / agencies

- a. Engineer may add any equivalent approved make with price adjustment
- b. In case of non availability /monopolistic attitude of any approved make engineers decision to introduce any other make shall be final with suitable price adjustment.
- c. Approved make of same item under different sub-heads are interchangeable.

46. RCC WORKS

Deleted

47. Extra/Substituted items: The items shall be analysed based on following norms :

- a) Any extra item/non schedule item will first be analysed based on the similar items existing in the BOQ under any sub heads. Components of any similar item nearest to the non schedule item will be decomposed to get the various sub components of material and manpower. The item will again be composed on the basis of requirements taking other components from DAR and rates.
- b) Components of material, manpower, wastage, profit, sundries, etc will be taken from CPWD latest DAR
- c) In absence of similar item and In case the components are not available in DAR, the same will be taken from actual observations made and recorded at site. A register to be made for such actual observations to be jointly signed each day of observations and put up to the engineer alongwith analysis for approval.
- d) Actual market rates of the material and bought out items at the time of execution of activity will be verified by the site incharge of HSCC based on the rates submitted by the contractor alongwith his claim for extra items after due consideration for all the project discount on the market rates of any item.

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- e) Contractor's profit on extra items will be as per CPWD norms or 15% only in case the item in any forms in not available in DAR.
 - f) The analysis of items enclosing actual observation sheets, photocopy of pages of DAR, original paid bills and vouchers to be submitted at site.
 - g) Labour rates will be taken from local body /collector rates of that area for minimum wages

The claim and analysis will not be accepted unless proper analysis with supporting documents are submitted.

No extra item will be paid unless prior administrative approval of engineer is taken in writing for its execution with tentative rates and total cost involved.

49. Details required along with submission of running/final bills

Clause 33.0 under Certificates & Payment contractor is required to submit following details/documents along with every running/final bill without which bills will not be processed.

1. Bills of every section of work as provided in BOQ to be prepared separately and submitted all together. In case there is no billable amount of any section of work, the same should be clearly indicated zero value during the period of bill.
2. Complete measurement details along with location of each measurement should be clearly indicated.
3. Authorised representative of contractor with name & seal to sign on each page of bill submitted.
4. Carryover and brought forward for each & every quantity to be indicated in the bill.
5. The running bill should contain the measurement of items executed during the period of bill. Full measurement may be given in pre final/ final bill. The measurement of all concealed items should be made before covering them.
6. All the copy of challan of materials, bills and test certificates specially of the items on which secured advance has been claimed , steel, cement, sand, aggregates, bricks, any plumbing material, Aluminium,

waterproofing material etc. should be submitted alongwith the every bill. Actual measurement of secured advance to be submitted for verification of Engineer. Rate of secured advance material to be verified by Engineer independently. Secured advance on approved make material will only be payable.

7. Manufacturer Catalogue for aluminium and other items for verification of standard unit weight and checking that material is as per specification should be submitted.
8. Weight slip of reinforcement steel and aluminium and any other material as required by Engineer Representative from authenticated source like Dharam Kanta should be submitted.
9. The computerised soft copy of the entire bill shall be submitted alongwith the bill.
10. Correction as made by Engineer Representative should be incorporated by the contractor and corrected copy in three copy should be submitted for payment. Date of submission of bill will be reckoned from the date of submission of corrected bill.
11. Material consumption statement should be submitted alongwith every bill.
12. Bill should be indexed properly and each page and correction if any should be signed and stamped by the authorised representative of he contractor and acceptance should be given.
13. Copy of challan of submission of PF & ESI and any other relevant as required from time to time should be submitted.
14. Contractor shall maintain a check list at site duly marked on drawing for the items/works already measured till previous bill should be submitted alongwith the bill.
15. Register for steel, cement, water proofing material, concealed item etc. should be maintained at site in the standard format of CPWD duly modified by Engineer Representative as per requirement. Monthly statement should be submitted along with the bill.
16. Power of attorney of authorized person on behalf of contractor to be submitted. Contractor must ensure that all papers /Measurement book to be signed by authorized person with measurement date, date of start & date of completion etc.

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17. Copy of duly certified bank guarantee from bank, performance BG, insurance policies as required in terms of contract to be enclosed with first RA bill.
 18. All overwriting, alterations have been countersigned by the authorized person with date.
 19. Approval of extra item if any conveyed to be enclosed.
 20. Contractor must ensure, in case of time extension, confirmation of extended validity of insurance, performance BG upto Defect liability period as per contract and a copy of approved time extension to be submitted.
 21. Contractor must authorise their representatives competent for verification of measurement at site and these person should be available at site.
 22. Contractor is required to submit all test certificates of items claimed in bill for payment or for secured advance payment. Any item not meeting the test criteria's will not be considered for payment.
 23. All the pages and enclosures of bills to be stamped with name and designation of the person with full signature of contractor's and HSCC's site incharge before submission to the engineer.

In addition to above any other document and details as required for checking, verification and timely processing of bill.

50. Terms & Conditions of Pre-qualification

All the terms & conditions & prequalification criteria's of prequalification document of invitation of prequalification are to be strictly complied during tenancy of contract.

ADDITIONAL SPECIFIC CONDITION OF CONTRACT

AND

SPECIFICATIONS

A) RELATING TO ELECTRICAL INSTALLATIONS

1.0 General

1.1 The following Additional Specific Conditions shall be read in conjunction with General Conditions of Contract and Specific Conditions of Contract. If there are any provisions in these Additional Specific Conditions which are at variance with the provisions in the above mentioned documents, the provisions in these Additional Specific Conditions shall take precedence.

2.0 Regulations and Standards

2.1 The installations shall conform in all respects to Indian Standard Code of Practice for Electrical Wiring Installation IS : 732-1989 or later, and as per latest CPWD General Specification for Electrical Works (Part I, II & IV). It shall also be in conformity with the current Indian Electricity Rules and regulations in so far as these are applicable to the installations. Wherever these Additional Specific Conditions calls for a higher standard of material and/or workmanship than those required by any of the above regulations, then this Additional Specific Conditions shall take precedence over the said Regulation and Standards. External works & fire detection & alarm system works to be done as per CPWD specification & relevant IS codes.

3.0 Rates

3.1 The rates bided shall be for complete items of work inclusive of all taxes, statutory charges and all other charges for items contingent to the work, such as, packing, forwarding, insurance, freight and delivery at Site for the materials to be supplied by the Contractor, watch and ward of all materials for the Internal & external, Electrical Installation testing & commissioning work including water & power for successful installation, testing & commissioning work at Site etc.

4.0 Completeness of Bid

All sundry fittings, assemblies, accessories, hardware items, foundation bolts, termination lugs for electrical connections as required, and all other sundry items which are useful and necessary for proper assembly and efficient working of the various components of the work shall be deemed

to have been included in the Bid rates and prices, whether such items are specifically mentioned in the Bid documents or not.

5.0 Works to be done by the Contractor

5.1 Unless and otherwise mentioned in the Bid documents, the following works shall be done by the Contractor, and therefore their cost shall be deemed to be included in their rates and prices:

- i. Foundations for equipments and components where required, including foundation bolts
- ii. Cutting and making good all damages caused during installation and restoring the same to their original finish
- iii. Sealing of all floor openings provided by him for pipes and cables, from fire safety point of view, after laying of the same
- iv. Painting at site of all exposed metal surfaces of the installation other than pre-painted items like fittings, fans, switchgear/ distribution gear items, cubicle switch board etc. and erection, shall however be rectified to the satisfaction of the Engineer
- v. Testing and commissioning of complete installation

6.0 Tools for Handling and Erection

6.1 All tools and tackles required for handling of equipments and materials at Site of work as well as for their assembly and erection and also necessary test instruments shall be the responsibility of the Contractor.

7.0 Terminology & Scope

7.1 Terminology & scope for this project shall be as per CPWD Specification for Electrical Works (Part I - Internal) - latest & External Works - Part II - latest.

7.2 Measurement

Measurement shall be as per CPWD specifications Part – I (Internal) & Part - II (External) unless otherwise specified in the technical specifications / BOQ.

8.0 Drawings

8.1 The drawings indicate the extent and general arrangements of the fixtures, controlling switches, wiring system etc. and are essentially diagrammatic. The drawings indicate the points of termination of conduit runs and broadly suggest the routes to be followed. The Contractor shall submit six sets of working electrical drawings based on tender drawing including reflected ceiling plan coordinating other essential building services for HSCC approval. Contractor has to make necessary changes if any as per comments given by HSCC before execution. The work shall be executed as indicated in the approved drawings, however any minor changes found essential to co-ordinate the installation of this work with the other trades shall be made without any additional cost of owner. The drawings are for guidance of the contractor and exact locations, distance and levels shall be governed by the building. The Contractor shall examine all architectural, structural, plumbing and sanitary & electrical drawings before starting the work and report to the Engineer any discrepancies, which in his opinion appear on them and get it clarified. Contractor shall not be entitled to any extras for omissions or defects in electrical drawings or when they conflict with other services work.

9.0 Conduit/ Trunking Layout

9.1 Prior to the laying of the conduits and trunking, the Contractor shall examine/ study drawings and report to Engineer in case he desires to make any changes from Consultant proposed conduit layout plan and shall get the same approved from HSCC.

10.0 Shop Drawings

10.1 The Contractor shall prepare and submit to the Engineer for his approval detail shop drawings of Main & Sub Distribution Boards, Distribution Boards, special pull boxes, light & fan switch boards, telephone distribution boards, FDA system and lightning protection system and other equipment to be procured/ fabrication by the Contractor within 15 days of signing of the above items required to complete the electrical installation in all respect.

11.0 Manufacturer's Instruction

11.1 Where manufacturers' have furnished specific instructions, relating to the materials used in this job, covering points not specifically mentioned in these documents, these instructions shall be followed in all cases.

12.0 Materials & Equipment

12.1 All materials and equipment shall be ISI marked and shall be of the approved make and design. Unless otherwise called for, only the best

quality of materials and equipment shall be used. The Contractor shall be responsible for the safe custody of all materials till these are taken over by client and shall insure as against theft, damage by fire, earth quake etc. A list of items of materials and equipment, together with a sample of each shall be submitted to the Site office.

13.0 Scale

13.1 Drawings shall be prepared to the scale as required for proper explanation and shall indicate the size and location of all equipments and accessories herein. The Contractor shall obtain all dimensions preferably at the building (Site of work) and check those plans for interference with the building structure and other equipment.

14.0 Brochures and Data

14.1 The Contractor shall submit four copies of all brochures / manufacturer's description data and similar literature.

15.0 Approval of Shop Drawings

15.1 The Engineer's approval of shop drawings, schedule, brochures etc. shall be an approval of general details and arrangements only and shall not relieve the Contractor from responsibility for deviation from drawings or specifications unless he has in writing called Engineer to such deviations at the time of submission nor shall it relieve the Contractor from responsibility for errors or omissions of any kind in the shop drawings when approved.

16.0 Samples & Catalogues

For HSCC approval, Contractor shall submit the samples & catalogue of the material, which are used at Site as per the approved makes.

17.0 Approval of Materials

17.1 All materials used on the Works shall be new and of the best quality available, conforming to the relevant specifications and as per good Engineering practice. Prior approval shall be obtained in writing from the Engineer for all materials proposed and when necessary, approved sample duly identified and labelled shall be deposited with the Engineer and shall be kept at Site. List of approved make indicates make/ manufacturer generally acceptable. Contractor shall submit the detail drawings for HSCC approval.

18.0 Inspection, Testing and Inspection Certificate

- 18.1 HSCC and authorised representative of HSCC shall have at all reasonable times access to the Contractor's premises or Works and shall have the power at all reasonable time to inspect and examine the materials and workmanship during its manufacture or erection or if the part of works is being manufactured or assembled at other premises or works.
- 18.2 The Contractor shall arrange all the materials and labour required for inspection of equipment or for any testing to be carried out at his/ manufacturer's works or at Site. Notice for such inspection/ presence for testing shall be given to the Engineer by the Contractor at least fifteen (15) days in advance together with the routine test certificates of the equipments/ materials given by the manufacturer.
- 18.3 Notwithstanding approval of tests or equipment by the Engineer, the Contractor shall be required to perform site tests and prove the correctness of ratings and performance of equipment/ machinery and materials supplied and installed by the Contractor as per the Contract specifications and conditions. Engineer shall have full power to order the material or work to be tested by an independent agency at the electrical Contractor's expense in order to prove soundness & adequacy.

19.0 Schedule & Manner of Operation

- 19.1 Time being the essence of this Contract, Contractor shall be expected to furnish all labour & material in sufficient quantities at appropriate time, expedite and schedule the work to meet the Engineer's requirement and so manage the operations that the work shall be completed in time as stated else where. In case of shut down of power supply, Contractor shall coordinate with Engineer and shall carry out essential works during the shut down period allowed by the Engineer. In case Engineer allows for such period during night or early morning hours, Contractor shall make all provisions to avail such account. Contractor shall not be entitled for any extra claims on such account. Contractor shall programme his work in such a way that items of work requiring presence of Engineer are carried out between 9 A.M. & 5 P.M. on working days.

20.0 Performance Guarantee

- 20.1 All equipment shall be guaranteed for a minimum period of 12 (Twelve) months from the date of handing over of installation to the Engineer against unsatisfactory performance and/or break down. The equipment or component or any other part of installation so found defective within the guarantee period shall be replaced / repaired by the Contractor free of cost to the satisfaction of the Engineer. The normal guarantee and or warranty

provided by the manufacturer will have to be submitted along with all the test certificates from manufacturer.

21.0 Conformity with Statutory Acts, Rules and Standards

21.1 The installation shall be in conformity with the Bye-laws, Regulations and Standards of the local authorities applicable to the installations. But if the specifications and drawings call for a higher standard of material and/or workmanship than those required by any of the above Regulations and Standards, then the specifications and drawings shall take precedence over the said regulations and standards.

21.2 However, if the drawings or specifications required something which violates the Bye-laws and Regulations, then the Bye-laws and Regulations shall govern the requirement of this installation.

21.3 Indian Electricity Act and Rules : All electrical works in connection with installations of the system shall be carried out in accordance with the provision of the Indian Electricity Act, 1910 and the Indian Electricity Rules 1956, both amended upto date.

21.4 CPWD Specification :The Electrical installation work shall conform to CPWD General specifications for Electrical Works Part I (Internal) I and Part II (External) latest issues , both amended upto date.

21.5 Indian Standard : The system / components shall conform to relevant Indian Standards wherever they exist and to the latest National Building Code-1983.

21.6 Nothing in these specifications shall be construed to relieve the Contractor of his responsibility for the design, manufacture and installation of the equipment with all its accessories in accordance with applicable Statutory Regulations and safety codes in force.

22.0 Completion Drawings (As Built Drawings as Applicable)

22.1 On completion of the work and before issue of certificate of virtual completion, the Contractor shall submit to the Engineer completion plan drawn to a scale in tracing cloth with ink indicating the following, along with three blue print copies of the same:

- a. Run and size of conduits, inspection boxes, junction boxes and pulls boxes
- b. Number of size of conductors in each conduit

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- c. Location and rating of sockets and switches controlling the light and power outlets
 - d. Location and details of main & sub distribution boards, distribution boards indicating the circuit number controlled by them
 - e. Type of fitting viz. fluorescent, pendants, brackets, bulkhead etc., including their rating & type of lamp, fans and exhaust fans
 - f. A complete wiring diagram as installed and schematic drawings showing all connections for the complete electrical system
 - g. Location of telephone outlets, junction boxes and sizes of various conduits and number & sizes of wire drawn
 - h. Layout of telephone cables
 - i. Location of all earthing stations, route and size of all earthing conductors, manholes etc.
 - j. Layout and particulars of cables & sub mains
 - k. Schematic drawing for telephone system
 - l. Layout of conduits for computer outlet points
 - m. Layout and details of fire detection & alarm system consisting of manual call points, fire alarm hooters, smoke & heat detector, FDA control panel including details of conduits and number of wires drawn
 - n. Layout and details of lightning protection system
 - o. Insulation tests and earth test results
 - p. PA System drawings
 - q. Fire System drawings
 - r. Disc Antenna drawings
 - s. Equipment drawings
 - t. Cable route layout of HT, LT & other cables
 - u. External lighting drawing with road layout

23.0 Confirmation of Quantities

23.1 All quantities indicated in BOQ are tentative which may vary as per site conditions. Contractor has to verify quantities before procuring the material. No payment shall be payable for quantity brought to site but not used.

24.0 Terms of Payment (Only for items of major electrical equipments)

For purposes of estimating the contract value of work executed for certificate of payment under clause 32(d) of section II the following norms shall be followed.

- a. 80% of BOQ rate on receipt of equipment against receipt of complete material at site & test certificates in accordance with clause 33(l) of SCC.
- b. 10% of BOQ rate on erection and installation of equipment.
- c. 10% after successful completion of all works including all testing, commissioning & taking over.

25.0 Training of Personnel

The Contractor shall arrange to train the Employer's personnel prior to provisional take over of the project

26.0 Completion Certificate

26.1 On completion of the installation, a certificate shall be furnished to the Engineer, by the Contractor, countersigned by the licensed supervisor under whose direct supervision the installation was carried out. This certificate shall be in the prescribed form as required by the local authority. On the basis of this certificate, the Contractor shall arrange for inspection of installation by the concerned local authorities.

26.2 The Contractor shall be responsible at his own cost for getting the installation duly approved by the authorities concerned.

27.0 Check List

27.1 The Contractor shall provide to the Engineer 4(four) copies of a comprehensive maintenance checklist and shall paste a copy of it in the Substations & Plant Room. The checklist shall be a list of each piece of equipment in this Contract, and shall provide a space for each of the next fifty-two weeks to record the maintenance provided to and status of

various equipment. Each month, at the time of inspection, the Contractor shall certify on this check list that he has examined each piece of equipment and that, in his opinion, it is operating as intended by the manufacturer, and that all necessary tests have been performed.

28.0 Repairs

All equipment that requires repairing shall be immediately serviced and repaired during the maintenance period. All parts and labours shall be furnished at no extra cost to the Engineer.

29.0 Safe Custody and Storage

Safe custody of all machinery and equipment dismantled, shifted & supplied by the Contractor shall be his own responsibility till the final taking over by the Employer. The Contractor should, therefore, employ sufficient staff for watch and ward at his own expenses. The Employer may, however, allow the Contractor to use the building space for temporary storage of his equipment, if such space is ready and available.

30. Testing and Commissioning

The Contractor shall pay for and arrange without any extra cost, all necessary balancing and testing equipment, instruments, materials, accessories, power, water, fuel and the requisite labour for testing. Any defects in materials and/or in workmanship detected in the course of testing shall be rectified by the Contractor entirely at his own cost, to the satisfaction of the Engineer. The installation shall be tested again after removal of defects and shall be commissioned only after approval by the Engineer. All tests shall be carried out in the presence of the Engineer or the Engineer's representative.

31. Operation and Running of entire system

The contractor shall pay for and arrange for operation & running of entire electrical system executed as part of this work for a minimum period of one month after satisfactory completion of work as desired by Engineer. Cost of operation & running of entire system including requisite manpower etc. shall be deemed to be included in the contract price and nothing extra shall be paid.

32. Layout of all services , operating and maintenance instructions. DO's and Don't's etc

for all the plant rooms, AHU's machine rooms, sub stations, pump room, toilets, control panels etc must be equipped with coloured layout of services for the each

floor . Operation and maintenance manual of the respective services, Do's and Don't's for all the plants, machinery & services to be installed with every individual units.

ADDITIONAL SPECIFIC CONDITION OF CONTRACT

AND

SPECIFICATIONS

(A) RELATING TO CIVILWORKS

1.0 General

1.1 The following Additional Specific Conditions and specification shall be read in conjunction with General Conditions of Contract and Specific Conditions of Contract. If there are any provisions in these Additional Specific Conditions which are at variance with the provisions in the above mentioned documents, the provisions in these Additional Specific Conditions shall take precedence.

1.2 These additional specific conditions and specification shall be considered as an extension and not as a limitation of obligation of the preference.

* The CPWD General Specification for Electrical works: Part V Down Comer System for fire fighting-latest issue. Termination used in the bid shall also be accordance with CPWD.

* For items not covered in CPWD Specification, the work shall be done as per the latest relevant IS Code of practice.

* For item not covered by any of the above the installation shall be done as directed by the Engineer and as per sound engineering practices.

2.0 Scope of Contract

2.1 The scope of work covers the supply, erection, testing and commissioning of the Civil, Plumbing, & Electrical Systems, which also includes design & preparation of structural and all other detailed shop drawings, testing and commissioning of components and accessories.

* Civil works, plumbing.

* Electrical works.

2.2 The work shall be carried out in conformity with the plumbing drawings and the requirement of architectural, electrical, structural, and other specialised service drawings by the agency approved by Engineer..

2.3 The Contractor shall make provision of hangers, sleeves, structural openings and other requirements well in advance to hold up progress of the construction schedule.

2.4 The said Contract comprises of furnishing of all materials, equipment, labour & transportation etc. necessary to render the installation fully operational as per the intent of specification and drawings, including any necessary adjustment or corrections. The installation shall be all in conformity with local laws covering such installation.

3.0 Contract Drawings

3.1 The drawings issued with the Bid are diagrammatic only and indicate the extent and general arrangement of the installation. Drawings shall not be scaled.

3.2 The Contractor shall follow the Bid drawings for preparation of detailed structural & Shop drawings and for subsequent installation work. He shall check the drawings of other services to verify spaces in which his work will be installed. The Contractor shall examine all Architectural, and other services drawings before starting the work and report to the Engineer any discrepancies and obtain clarification. Any changes found essential to coordinate installation of this work with other services, shall be made with prior approval of the Engineer.

4.0 Shop Drawings

4.1 With in two weeks after Award of the Contract, the Contractor shall furnish for approval of the Engineer, three sets of detailed structural & Shop drawings of all equipment and materials required to complete the work as per specifications. These drawings shall contain details of construction, size, arrangement, operating clearances, performance characteristics, and capacity of all items of equipment, as also the details of all related items of work of other trades. All shop drawings to be made in accordance with latest fire safety norms & to be got approved by the authorities before it is finally approved by Engineer before start of work.

4.2 All drawings necessary for assembly, erection, maintenance, repair and operation of the equipment shall be furnished and different parts shall be suitably numbered for identification and ordering of spare parts.

4.3 When the Engineer makes any amendments in the above drawings, the Contractor shall supply fresh sets of drawings with the amendments duly incorporated, along with the drawings on which corrections were indicated.

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- 4.4 No material or equipment may be delivered or installed at the job Site until the Contractor has in his possession, the approved Shop drawings for that particular material or equipment.
- 4.5 After approval of the drawings by the Engineer, the Contractor shall further furnish six sets of Shop drawings for the exclusive use of and retention by the Engineer.
- 4.6 Approval of drawings by the Engineer shall not relieve the Contractor of any part of his obligation to meet all the requirements of the Contract or of the correctness of his drawings. The Engineer's approval of specific item shall not mean the approval of the assembly of which it is a component. The Contractor shall be responsible for and is to bear the cost for all alternations of the works due to discrepancies or omission in the drawings or other particulars supplied by him, whether such drawings have been approved by the Engineer or not.
- 4.7 Where the work of the Contractor has to be installed in close proximity to, or will interfere with the work of other trades, the Contractor shall assist in working out the space conditions to make a satisfactory adjustment. If so directed by the Engineer, the Contractor shall prepare composite working drawings and sections to a suitable scale not less than 1:50, clearly showing how his work is to be installed in relation to the work of other trades. If the Contractor installs his work before coordinating with other trades, or so as to cause any interference with the work of other trades, he shall make all the necessary changes without extra cost.
- 4.8 All shop drawings and detail drawings will be made as per requirements of local authorities and tender drawings incorporating all latest regulations and requirements. No separate drawings will be, issued for making shop drawings.

5.0 Samples and Catalogues

- 5.1 Prior to ordering any equipment/ material/ system, the Contractor shall submit to the Engineer, the catalogues, along with samples from approved list of manufacturers. No material shall be procured prior to the approval by the Engineer.

5.2 Approval of Materials

All materials used on the Works shall be new and of the best quality available, conforming to the relevant specifications and as per good Engineering practice. Prior approval shall be obtained in writing from the

Engineer for all materials proposed and when necessary, approved sample duly identified and labelled shall be deposited with the Engineer and shall be kept at Site. List of approved make indicates make / manufacturer generally acceptable but final choice of make / manufacturer of material & models shall be with the Engineer.

6.0 Material and Equipment

- 6.1 All material and equipment shall conform to the relevant Indian Standards.
- 6.2 Where interfacing occurs, equipment shall be mutually compatible in all respects.
- 6.3 Where an item of equipment, other than as specified or detailed on the drawings, is approved by Engineer, requires any re-design of the structure, partitions, foundation, piping, wiring or any other part of the mechanical, electrical or architectural layout, all such re-design, and all new drawings and detailing required therefore, shall be prepared by the Contractor at his own expense and approval obtained by the Engineer.
- 6.4 All similar equipment, materials, removable parts of similar equipment etc. shall be inter-changeable with one another.

7.0 Conformity with Statutory Acts, Rules and Standards

- 7.1 The installation shall be in conformity with the Bye-laws Regulations and Standards of the local authorities applicable to the installations. But if the specifications and drawings call for a higher standard of materials and/or workmanship than those required by any of the above regulations and those required by any of the above regulations and standards, then the specifications and drawings shall take precedence over the said Regulations and Standards.
- 7.2 However, if the drawings or specifications required something, which violates the Byelaws and Regulations, then the Bye-laws and Regulations shall govern the requirement of this installation.
- 7.3 Indian Standards : The System / Components shall conform to relevant Indian standards wherever they exist and to the national Building Code Amended up to date.
- 7.4 Nothing in these Specification shall be constructed to relieve the contract of his responsibility for the design. Manufacture and installation of equipment with all its accessories in accordance with applicable statutory regulations and safety codes in force.

8.0 Technical Data

8.1 Deleted

9.0 Manufacturer's Instructions

9.1 Where manufacturers have furnished specific instructions relating to the materials and equipment used, covering points not specifically mentioned in these documents, manufacture's instructions shall be followed.

10.0 Training and Operating Instructions

10.1 If required by the Engineer, the Contractor shall at no extra cost train members of the maintenance staff either at his or the subcontractor's workshop or at such other place or places as may be considered suitable by the Engineer.

10.2 Upon completion of all work and all tests, the Contractor shall furnish the necessary skilled labour and helpers for operating the entire installation for a period of fifteen (15) working days. During this period, the Contractor shall instruct and train the Engineer's representative in the operation, adjustments and maintenance of all equipment installed.

10.3 The Contractor shall submit to the Engineer a draft copy of comprehensive operating instructions and maintenance schedule for all systems and equipment including in this Contract. This shall be supplemented, not substituted, by manufacturer's operating and maintenance manuals. Upon approval of the draft, the Contractor shall submit to the Engineer four (4) complete bound sets of operating and maintenance schedules along with manufacturers printed literature.

11.0 Inspection and Testing

11.1 The Engineer reserves the right to request inspection and testing at manufacturer's Works at all reasonable times during manufacture of items for this Contract.

11.2 The Engineer or his authorised representative shall have full power to inspect the materials and workmanship at the Contractor's Works or at any place from which the materials or equipment is obtained. Acceptance by the Engineer of any material or equipment shall in no way relieve the Contractor of his responsibility for meeting the requirements of the specifications. All incident expenditure like travelling, boarding and lodging etc shall be born by the contractor.

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- 11.3 Routine and typical tests for the various items of equipment shall be performed at the Contractor's Works and test certificates furnished. If required by the Engineer, the Contractor shall permit the authorised representative of the Engineer to be present during any of the tests.
- 11.4 After installation has been virtually completed, the Contractor shall carry out under the direction and in the presence of the representative of the Engineer such tests and inspections as have been specified, or as the representative shall consider necessary to determine whether or not the full intent of the requirements of the drawings and specifications have been fulfilled. In case the work does not meet the full intent of the drawings and specifications and further tests are considered necessary, the Contractor shall carry them out and bear the expenses thereof.
- 11.5 The Contractor shall provide all necessary instruments such as Theodolite, Dumpy level, steel tapes, weighing machine, plumb bobs, spirit levels, hammers, micrometers, thermometers, hydraulic testing machine, smoke test machine and labour for testing. The Contractor shall make adequate records of the test procedures and readings, shall repeat any tests requested by the Engineer and shall provide test certificates signed by an properly authorised person. Such test certificates shall cover all Works. All such equipments shall be tested for calibration at any approved laboratory.
- 11.6 If test fail to demonstrate the satisfactory nature of the installation or any part thereof, then no claims for the extra cost of modifications, replacement or retesting will be considered. The decision of the Engineer shall be regarded as final as to what constitutes a satisfactory test.
- 11.7 The above general requirements as to testing shall be read in conjunction with any particular requirements specified elsewhere.

12.0 Test Certificates

The contractor shall submit test certificates for all the materials / systems. These shall be issued by a government recognized inspection office certifying that all Equipment, Materials, Construction and function are in agreement with the requirements of these specification and accepted standards.

13.0 Performance Guarantee/Retention Money

- 13.1 It is clearly understood that the specifications, drawings, schedule of quantities for fire fighting system are for bidder's guidance only. The bidder shall carry out necessary calculation and provide alternative equipment required to achieve the specified level of fire fighting required

for human safety. Complete sets of Architectural Drawings are available at site in the Engineer's office and reference may be made to these drawings as required for calculations or for other details. The contractor shall also guarantee that performance of various equipments, individually, shall not be less than, the quoted ratings.

14.0 Quiet Operation and Vibration

14.1 All equipment shall operate under all conditions of load without any sound or vibration, which is objectionable in the opinion of the Engineer. In case of rotating machinery, sound or vibration noticeable outside the room in which it is installed or annoyingly noticeable inside its own room, shall be considered objectionable. Such conditions shall be corrected by the Contractor at his own expense.

15.0 Accessibility

15.1 The Contractor shall locate all equipment, which must be serviced, operated or maintained in fully accessible positions. The exact location and size of access panels, required for each valve or other devices requiring attendance, shall be finalised and communicated well in time, to be provided in the normal course of work, failing this, the Contractor shall make all the necessary repairs and changes at his own expense.

16.0 Electrical Installation

16.1 The electrical installation shall be in total conformity with the control wiring drawings prepared by the Contractor and approved by the Engineer & shall be connected and tested in the presence of an authorised representative of the Contractor and of the Engineer.

16.2 It is to be clearly understood that the final responsibility for the sufficiency, adequacy and conformity to the Contract requirements of the electrical installation work lies solely with the Contractor.

17.0 Completion Certificate

17.1 On completion of the installation, a certificate shall be furnished to the Engineer, by the Contractor, countersigned by the licensed supervisor under whose direct supervision the installation was carried out. This Certificate shall be in the prescribed form as required by the local authority. On the basis of this certificate, the Contractor shall arrange for inspection of installation by the concerned local authorities.

17.2 The Contractor shall be responsible at his own cost for getting the installation duly approved by the Authorities concerned.

18.0 Completion Drawings

18.1 At the completion of the work in all respects, the Contractor shall at his own cost submit to the Engineer 4 (four) sets of layout drawings drawn at the approved scale indicating the installation. These drawings shall clearly indicate the complete plant layouts, and piping layouts, location wiring, exact location of all the concealed piping, valves, controls, wiring and other services. The Contractor shall also submit 4(four) sets of consolidated control diagrams, technical literature on all automatic controls and complete technical literature on all equipment and materials. The Contractor shall frame under glass, in the plant room all consolidated control diagrams and all piping diagrams.

19.0 Rates

19.1 Quoted rate includes any materials, equipment, appliances and incidental work not specifically as being furnishing or installed, but which are necessary and customary to make a complete installation.

19.2 The Contractor shall check at all stages and supervise at the point of connection the associated civil & electrical. In case of any discrepancy, all rectifications etc, required as a failure to do so, shall be carried out by the Contractor at his own expenses.

20.0 Check List

20.1 The Contractor shall provide to the Engineer 4(four) copies of a comprehensive maintenance checklist and shall post a copy of it in the Plant Room. The checklist shall be a list of each piece of equipment in this Contract, and shall provide a space for each of the next fifty-two weeks to record the maintenance provided to and status of various equipment. Each month at the time of inspection, the Contractor shall certify on this check list that he has examined each piece of equipment and that, in his opinion, it is operating as intended by the manufacturer, and that all necessary intention has been performed.

21.0 Repairs

All equipment that requires repairing shall be immediately serviced and repaired. During the maintenance period, all parts and labours shall be furnished at no extra cost to the Engineer.

22.0 Control System

During the maintenance period, once each month the Contractor shall check all controls in various areas to ensure that these are functioning as designed. This shall apply to all pressure switches and pressure gauges, contactors, relays, controller switches, high and low pressure cut-outs etc.

23.0 Reference Points

23.1 Contractor shall provide permanent bench marks, flag tops and other reference points for the proper execution of work and these shall be preserved till the end of Works.

23.2 All such reference points shall be in relation to the levels and locations, given in the Architectural and plumbing drawings.

24.0 License and Permits

24.1 Contractor shall hold a valid plumbing, electrical, HVAC license as applicable issued by the Municipal Authority or other competent authority under whose jurisdiction the work falls.

24.2 Contractor shall obtain from the competent Municipal Authority completion certificates with respect to his work as required for occupation of the building.

24.3 Before start of Electrical Works etc., The contractor must take approval of agencies from engineer.

24.4 Any fees deposited in connection with the work on behalf of the Client in Statutory bodies, Corporations, Government departments, etc. shall be paid by the Contractor and the same shall be reimbursed on production of original vouchers. Necessary endorsement / application if required shall be arranged from the Employer by the Engineer.

25.0 Cutting and Making Good

25.1 No structural member shall be chased or cut without the written permission of the Engineer.

ANNEXURE - A

FORM OF AGREEMENT

This Agreement made the _____ day of _____ 20_____ between **Ministry of Health & Family Welfare, New Delhi (hereinafter called "The Employer")** for the **Supply, Installation, Testing & Commissioning of 33KV Substation equipment including Construction of Substation Building of Housing Complex for AIIMS-like Institution under PMSSY at Bhubaneswar (Orissa)** represented by M/s HSCC (India) Limited; E-6(A), Sector-1, NOIDA (U.P)- 201301 who enters into this Agreement of the one part and M/s (hereinafter called "The Contractor") of the other part.

Whereas the Employer is desirous that certain works should be executed by the Contractor, viz _____ ("the Works") and has accepted a Bid by the Contractor for the execution and completion of the works and the remedying of any defects therein.

Now this Agreement witnessed as follows :

1. In this Agreement words and expressions shall have the same meanings as are respectively assigned to them in the Conditions of Contract hereinafter referred to.
2. The following documents shall be deemed to form and be read and construed as part of this Agreement, viz :
 - (a) The Letter of Award;
 - (b) The said Bid;
 - (c) The General Conditions of Contract;
 - (d) Prequalification document
 - (e) Instructions to Tenderers and Specific Conditions of Contract;
 - (f) The Specification;
 - (g) The Drawings;
 - (h) The Priced Bill of Quantities;
 - (i) Any other relevant documents referred to in this Agreement or in the aforementioned documents
3. In consideration of the payments to be made by the Employer to the Contractor as hereinafter mentioned, the Contractor hereby covenants with the Employer to execute and complete the Works and remedy any defects therein in conformity in all respects with the provisions of the Contract.
4. The Employer hereby covenants to pay the Contractor in consideration of the execution and completion of the Works and the remedying of defects therein the Contract Price or only such other sums as may become payable under the provisions of the Contract at the times and in the manner prescribed by the Contract.

In Witness whereof the parties hereto have caused this Agreement to be executed the day and year first before written.

Signed, Sealed, and Delivered by the Said

Binding Signature of [HSCC] for and on behalf of Part (A)- M/s Ministry of Health & Family Welfare, New Delhi

Binding Signature of Contractor

In the presence of

Witness (1) :

Witness (2) :

PROFORMA FOR PERFORMANCE BANK GUARANTEE

(On a stamp paper of appropriate value from any Nationalised Bank or Scheduled Bank)

To,

M/s HSCC(India) Ltd.,
Plot No. 6(A), Block E, Sector 1,
NOIDA - 201 301.

Dear Sir,

In consideration of the **Ministry of Health & Family Welfare, New Delhi for the Supply, Installation, Testing & Commissioning of 33KV Sub-station equipment including Construction of Substation Building of Housing Complex for AIIMS-like Institution under PMSSY at Bhubaneswar (Orissa)** which expression shall include his successor and assignees represented by his Consultant, M/s. HSCC(India) Ltd., Plot – 6 (A), Block - E, Sector - I, Noida, Uttar Pradesh - 201 301 (hereinafter called HSCC) having awarded to M/S _____ (hereinafter referred to as the said Contractor or 'Contractor' which expression shall wherever the subject or context so permits include its successors and assignees) a Contract No _____ in terms inter alia, of the HSCC Letter No. _____ dated _____ and the General Conditions of Contract and upon the condition of the Contractor's furnishing Security for the performance of the Contractor's obligations and discharge of the Contractor's liability under and in connection with the said Contract upto a sum of Rs. _____ (Rupees _____ only) amounting to _____ percent of the total Contract value.

1. We, _____ (hereinafter called 'The Bank' which expression shall include its successors and assignees) hereby jointly and severally undertake to guarantee the payment to the Employer in rupees forthwith on demand in writing and without protest or demur or any and all moneys payable by the Contractor to the Employer in respect of or in connection with the said Contract inclusive of all the Employer's losses and damages and costs, (inclusive between attorney and client) charges and expenses and other moneys payable in respect of the above as specified in any notice of demand made by the Employer to the Bank with reference to this guarantee upto an aggregate limit of Rs. _____ (Rupees _____ only).
2. We _____ Bank Ltd. further agree that the Employer shall be sole judge of and as to whether the said Contractor has committed any breach or breaches of any of the terms and conditions of the said Contract and the extent of loss, damage, cost, charges and expenses caused to or suffered by or that may be caused to or suffered by the Employer on account thereof and the decision of the Employer that the said Contractor has committed

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- such breach or breaches and as to the amount or amounts of loss, damage, costs, charges and expenses caused to or suffered by the Employer from time to time shall be final and binding on us.
3. The Employer shall be at liberty without reference to the Bank and without affecting the full liability of the Bank hereunder to take any other Security in respect of the Contractor's obligations and liabilities hereunder or to vary the Contract or the work to be done there under vis-a-vis the Contractor or to grant time or indulgence to the Contractor or to reduce or to increase or otherwise vary the prices of the total Contract value or to release or to forbear from enforcement of all or any of the Security and/or any other Security(ies) now or hereafter held by The Employer and no such dealing(s) reduction(s) increase(s) or other indulgence(s) or arrangements with the Contractor or release or forbearance whatsoever shall absolve the bank of the full liability to the Employer hereunder or prejudice the rights of the Employer against the bank.
 4. This guarantee shall not be determined or affected by the liquidation or winding up, dissolution, or change of constitution or insolvency of the Contractor but shall in all respects and for all purposes be binding and operative until payment of all monies payable to the Employer in terms thereof.
 5. The bank hereby waives all rights at any time inconsistent with the terms of this guarantee and the obligations of the Bank in terms hereof shall not be anyway affected or suspended by reason of any dispute or disputes having been raised by the Contractor stopping or preventing or purporting to stop or prevent any payment by the Bank to the Employer in terms hereof.
 6. The amount stated in any notice of demand addressed by the Employer to the Bank as liable to be paid to the Employer by the Contractor or as suffered or incurred by the Employer on account of any losses or damages or costs, charges and/or expenses shall be conclusive evidence of the amount so liable to be paid to the Employer or suffered or incurred by the Employer as the case may be and shall be payable by the Bank to The Employer in terms hereof.
 7. This guarantee shall be a continuing guarantee and shall remain valid and irrevocable for all claims of the Employer and liabilities of the Contractor arising upto and until midnight of_____.
 8. This guarantee shall be in addition to any other guarantee or Security whatsoever that the Employer may now or at any time anyway may have in relation to the Contractor's obligations/or liabilities under and/or in connection with the said Contract, and the Employer shall have full authority to have recourse to or enforce this Security in preference to any other guarantee or Security which the Employer may have or obtain and no forbearance on the part of the Employer in enforcing or requiring enforcement of any other Security shall have the effect of releasing the Bank from its full liability hereunder.

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9. It shall not be necessary for the Employer to proceed against the said Contractor before proceeding against the Bank and the Guarantee herein contained shall be enforceable against the Bank notwithstanding that any Security which The Employer may have obtained or obtain from the Contractor shall at the time when proceedings are taken against the said bank hereunder be outstanding or unrealised.
10. We, the said Bank undertake not to revoke this guarantee during its currency except with the consent of the Employer in writing and agree that any change in the constitution of the said Contractor or the said bank shall not discharge our liability hereunder.
11. We_____ the said Bank further that we shall pay forthwith the amount stated in the notice of demand notwithstanding any dispute/difference pending between the parties before the arbitrator and/or that any dispute is being referred to arbitration.
12. Notwithstanding anything contained herein above, our liability under this guarantee shall be restricted to Rs._____ (Rupees_____) and this guarantee shall remain in force till_____ and unless a claim is made on us within 3 months from that date, that is before _____ all the claims under this guarantee shall be forfeited and we shall be relieved of and discharged from our liabilities there under.

Dated_____ day of _____ 20

For and on behalf of Bank.

Issued under seal :

PROFORMA FOR BID SECURITY BANK GUARANTEE

(To cover payment of Bid Security and Conditions of Contract)

(On a stamp paper of appropriate value from any Nationalised Bank or Scheduled Bank)

To

M/s HSCC (India) Ltd.,
Plot No. 6(A), Block E, Sector 1,
NOIDA - 201 301.

Dear Sir,

In consideration of your agreeing to accept Bank Guarantee for Rs.
(Rupees) in lieu of
payment from M/s having its /their
registered office at (hereinafter
called the Bidder) towards Bid Security in respect of your Tender no.
..... calling for Tender for at
..... and for due fulfilment of the terms and conditions of the said
Tender, we hereby undertake and agree to indemnify and keep you indemnified to the
extent of Rs (Rupees).

In the event of any loss or damages, costs, charges or expenses caused to or suffered by
you by reason of any breach or non observance on the part of the Bidder of any terms and
conditions of the said Tender, we shall on demand and without cavil or argument, and
without reference to the Bidder, irrevocably and unconditionally pay you in full
satisfaction of your demand the amounts claimed by you, provided that our liability under
this guarantee shall not at any time exceed Rs
(Rupees).

This guarantee herein contained shall remain in full force and till you finalise the Tender
and select the Tender as per your choice and it shall in the event of the said Bidder being
selected and entrusted with the said work, continue to be enforceable till the said Bidder
executes the Agreement with you and commences the work as stipulated under the terms
and conditions of the said Tender have been fully and properly carried out by the said
Bidder and accordingly discharges the guarantee.

We also agree that your decision as to whether the Bidder has committed any breach or
non observance of the terms and conditions of the said Tender shall be final and binding
on us.

We under take to pay the Consultant any money so demanded by the Consultant notwithstanding any dispute or disputes raised by the Contractor(s) in any suit or proceedings pending before any Court or Tribunal relating thereto, our liability under this present being absolute and unequivocal.

The payment so made by us under this bond shall be a valid discharge of our liability for payment there under and the Contractor(s) shall have no claim against us for making such a payment.

This guarantee shall continue to be in full force and effect for a period of 150 days from the date of submission of Bid.

We shall not revoke this guarantee during its currency except with your previous consent in writing. This guarantee shall not be affected by any change in Constitution of our bank or of the Bidder firm. Your neglect or forbearance in the enforcement of the payment of any money, the payment whereof is intended to be hereby secured or the giving of time for the payment hereto shall in no way relieve us our liability under this guarantee.

Dated this day of

Yours faithfully,

For

Signature & seal of the Bank (Authorised Signatory)

APPENDIX TO TENDER

Important Clause	Clause No.	Volume	Remarks
Amount of Performance Security	10.1	II	5% of the Contract Price
Minimum amount of third party Insurance	23.2	II	Rs. 10,00,000=00 for Any incident, no. of incidents Unlimited.
Amount of Liquidated damages	47.1	II	0.5% of Contract price per week of delay
Limit of Liquidated Damages	47.1	II	5% of Contract Price
Defect Liability Period	49.1	II	12 Months
Percentage of Retention	33 (g)	III	5% of Contract Price
Programme of work and updated progress reports	39.6	III	Programme updated monthly, progress reported weekly
Time of Completion	43.1 / 1.4	II / III	within 5 (five) calendar months

ANNEXURE - E

PROFORMA FOR RETENTION MONEY BANK GUARANTEE
(On a stamp paper of appropriate value from any Nationalised Bank or Scheduled Bank)

To,

M/s HSCC (INDIA) Ltd.,
Plot No. 6(A), Block E, Sector 1,
NOIDA - 201 301.

Dear Sir,

In consideration of the **Ministry of Health & Family Welfare, New Delhi for the Supply, Installation, Testing & Commissioning of 33KV Sub-station equipment including Construction of Substation Building of Housing Complex for AIIMS-like Institution under PMSSY at Bhubaneswar (Orissa)** which expression shall include his successor and assigns represented by his Consultant M/s. HSCC (INDIA) Ltd., Plot - 6 (A), Block - E, Sector - I, Noida, Uttar Pradesh - 201 301 (hereinafter called HSCC) having awarded to _____ (hereinafter referred to as the said Contractor or 'Contractor' which expression shall wherever the subject or context so permits include its successors and assigns) and the General Conditions of Contract and upon the condition of the contractor's furnishing guarantee for the retention of the contractor's obligations and discharge of the contractor's liability under and in connection with the said contract upto a sum of Rs. _____ (Rupees _____ only) amounting to 2.5% of the total contract value.

1. We, _____ (hereinafter called 'The Bank' which expression shall include its successors and assigns) having its branch office at _____ (a Company under the provisions of the Companies Act 1913 hereby jointly and severally undertake to guarantee the payment to the Employer in rupees forthwith on demand in writing and without protest or demur or any and all moneys anywise payable by the contractor to the Employer under in respect of or in connection with the said contract inclusive of all the Employer's losses and damages and costs, (inclusive between attorney and client) charges and expenses and other moneys anywise payable in respect of the above as specified in any notice of demand made by the Employer to the Bank with reference to this guarantee upto an aggregate limit of Rs. _____ (Rupees _____ only).

2. We _____ Bank Ltd. further agree that The Employer shall be sole judge of and as to whether the said contractor has committed any breach or breaches of any of the terms and conditions of the said contract and the extent of loss, damage, cost, charges and expenses caused to or suffered by or that may be caused to or suffered by The Employer/HSCC on account thereof and the

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- decision of The Employer that the said Contractor has committed such breach or breaches and as to the amount or amounts of loss, damage, costs, charges and expenses caused to or suffered by The Employer from time to time shall be final and binding on us.
3. The Employer shall be at liberty without reference to the Bank and without affecting the full liability of the Bank hereunder to take any other security in respect of the Contractor's obligations and liabilities hereunder or to vary the contract or the work to be done thereunder vis-a-vis the Contractor or to grant time or indulgence to the Contractor or to reduce or to increase or otherwise vary the prices of the total contract value or to release or to forbear from enforcement of all or any of the security and/or any other security(ies) now or hereafter held by The Employer and no such dealing(s) reduction(s) increase(s) or other indulgence(s) or arrangements with the Contractor or release or forbearance whatsoever shall absolve the bank of the full liability to The Employer hereunder or prejudice the rights of The Employer against the bank.
 4. This guarantee shall not be determined or affected by the liquidation or winding up, dissolution, or change of constitution or insolvency of the Contractor but shall in all respects and for all purposes be binding and operative until payment of all monies payable to The Employer in terms thereof.
 5. The bank hereby waives all rights at any time inconsistent with the terms of this guarantee and the obligations of the Bank in terms hereof shall not be anywise affected or suspended by reason of any dispute or disputes having been raised by the Contractor stopping or preventing or purporting to stop or prevent any payment by the Bank to The Employer in terms hereof.
 6. The amount stated in any notice of demand addressed by The Employer to the Bank as liable to be paid to The Employer by the Contractor or as suffered or incurred by The Employer on account of any losses or damages or costs, charges and/or expenses shall be conclusive evidence of the amount so liable to be paid to The Employer or suffered or incurred by The Employer as the case may be and shall be payable by the Bank to The Employer in terms hereof.
 7. This guarantee shall be a continuing guarantee and shall remain valid and irrevocable for all claims of The Employer and liabilities of the contractor arising upto and until midnight of _____.
 8. This guarantee shall be in addition to any other guarantee or security whatsoever that The Employer may now or at any time anywise may have in relation to the Contractor's obligations/or liabilities under and/or in connection with the said contract, and The Employer shall have full authority to have recourse to or enforce this security in preference to any other guarantee or security which The Employer may have or obtain and no forbearance on the part of The Employer in

enforcing or requiring enforcement of any other security shall have the effect of releasing the Bank from its full liability hereunder.

9. It shall not be necessary for The Employer to proceed against the said Contractor before proceeding against the Bank and the Guarantee herein contained shall be enforceable against the Bank notwithstanding that any security which The Employer may have obtained or obtain from the contractor shall at the time when proceedings are taken against the said bank hereunder be outstanding or unrealised.
10. We, the said Bank undertake not to revoke this guarantee during its currency except with the consent of The Employer in writing and agree that any change in the constitution of the said contractor or the said bank shall not discharge our liability hereunder.
11. We _____ the said Bank further that we shall pay forthwith the amount stated in the notice of demand notwithstanding any dispute/difference pending between the parties before the arbitrator and/or that any dispute is being referred to arbitration.
12. Notwithstanding anything contained herein above, our liability under this guarantee shall be restricted to Rs. _____ (Rupees _____) and this guarantee shall remain in force till _____ and unless a claim is made on us within 3 months from that date, that is before _____ all the claims under this guarantee shall be forfeited and we shall be relieved of and discharged from our liabilities thereunder.

Notwithstanding anything contained herein,

- a) Our liability under this bank guarantee shall not exceed Rs. _____ (Rupees _____).
- b) This bank guarantee shall be valid up to _____
- c) We are liable to pay the guarantee amount or any part thereof under the Bank Guarantee only & only if you serve upon us as a written claim or demand on or before _____.

Dated _____ day of _____ 20

For and on behalf of Bank.

Issued under seal :

END OF
VOLUME-III