

Bharat Heavy Electricals Limited

Industrial Valves Plant

Goindwal, Distt. Tarn -Taran, Punjab

Department of Civil Engineering

NOTICE INVITING TENDER

TENDER NOTICE NO.	04/11-12
Name of work	WATER PROOFING WORKS IN RESIDENTIAL BUILDINGS OF BHEL TOWNSHIP AT GOINDWAL, PUNJAB
Site of work	GOINDWAL , DISTT. TARN -TARAN , PUNJAB
Estimated Cost of work	Rs. 11.63 LAKHS
PREQUALIFICATION CRITERIA	(1) During last seven financial years (from 01/04/2005 to 31/1/2012 should have successfully completed works either Three similar works each of value not less than Rs. 4.65 Lakhs (or) Two similar works each of value not less Than Rs. 5.8 Lakhs (or) One similar work of value not less than Rs. 9.30 Lakhs. (2) HAVING A VALID PAN, Sales Tax/ TIN No., (3) Service Tax Registration No. or proof of having applied for same.(4) Average annual turnover in the last 3 financial years (2008-09,2009-10,2010-11) shall be minimum Rs. 5.8 Lakhs duly supported by Certified copy of Balance sheet, P& L accounts and IT returns. detail is in cl 11 of tender notice.
Completion Time	TWO MONTHS FROM THE DATE OF PLACEMENT OF LOI.
Maintenance Period	6 (Six Months from the date of actual completion of the entire work and handing over to Bharat Heavy Electricals Limited)
LD penalty Clauses	Yes , 1 % per week of Contract Value subject to maximum 10%.
Earnest Money Deposit	Rs. 40,000/ -(To be deposited in the form of demand Draft only Drawn in Fabor of BHARAT HEAVY ELECTRICALS LIMITED , PAYABLE AT GOINDWAL)
Cost of Tender Document	Rs. 500/- To be deposited in the form of DD if downloaded from web site .This amount will not be refunded under any circumstances
Issue of Tender documents	from 11-02-2012 to 12-03-2012
Last Date for Receipt of Tender bids	13:00 Hrs. on 13-03-2012
Date of Tender Opening (Technocommercial bid)	14.30 Hrs. on 13-03-2012

SIGNATURE OF TENDERER

Bharat Heavy Electricals Limited
Industrial Valves Plant
Goindwal, Distt. Tarn -Taran, Punjab
Department of Civil Engineering

BHE:IVP:CIVIL:RM:2011/12-06

TO,

The Tenderer

Dear Sirs,

Sub: PART 1// TECHNICAL BID

Ref: 1. Tender Notice No. 04/11-12

**

Please find enclosed / attached non-transferable tender document containing (I) Technical Bid (ii) Price bid.

Technical bid Documents contains 74 pages and covers (a) Tender Notice along with Pre Qualification norms. (b) Special conditions of the contract (c) General conditions of the contract along with (d) Technical Specification (e) Technocommercial bid performa

Price Bid documents contains 19 pages and consists of Bill of Quantities to offer your most competitive rates for all the items of Bill of Quantities attached in the Price Bid.technical drawings and sketches related to subject work.

There will be two part Bidding .(1) Technical cum commercial (2) price Bid.

Technical bid will be opened on the Last day of receipt of bid at 14:30 Hrs. Scrutiny of Technocommercial bid submitted by bidder shall be done to Check qualification of bidder as per tender notice Cl no. 11 and acceptance of conditions of Contract by bidder . Technical bid of prequalified bidder shall be evaluated as per norms prescribed in Annexure 1 of tender Notice. , In case the agency does not score minimum 60 out of 100 during the evaluation of technical bid with documentary proof, the bid is liable to be rejected and their price bid will not be opened.You are requested to Fill informations required in space provided in techno commercial Bid Page 64 to 74 and quotate your competitive rates in Schedule A of price Bid page 14-16 only.In case of opening day falls on holiday or happened to be declared as a holiday, the receipt and opening of the tender shall automatically fall on the same timing of the next working day. Date and time of opening of the Price Bid shall be intimated only to the bidders those who are qualified and their Technocommercial Bid is accepted. You / your authorized representative may participate in the tender opening.

SIGNATURE OF TENDERER

It is requested to submit your bid documents in three separate sealed cover / envelopes as described below

1)EMD Envelope: EMD envelope shall contain requisite EMD of Value Rs. 40,000/- in the form of DD only. Tenderers who had already remitted one time EMD should furnish the details of cash receipt No.....and date.....or Draft No.... and Date....., on the top of EMD cover. Tender without EMD / one time EMD reference will be summarily rejected and the Technocommercial bid & price bid shall not be considered.

In case of tender documents are downloaded from website, tender shall accompany the tender cost of Rs.500/- in the form of Demand Draft (separate) in addition to the EMD amount .All Demand Draft shall be drawn in favour of BHARAT HEAVY ELECTRICALS LIMITED , GOINDWAL payable at GOINDWAL. In the case of non submission of Cost of tender document and EMD , Technical bid will not be opened.

2) TECHNOCOMMERCIAL BID ENVELOPE : This envelope shall contain duly filled in Technical bid documents signed along with Stamp by the tenderer in all the pages with documentary evidences for pre- qualification such as experience, value of work executed in the similar nature of work, etc. Any bid without proper documentary evidence for pre- qualification shall not be considered for further evaluation.

3) The Price Bid Envelope : This shall contain price bid document duly filled in and signed by the tenderer in all the pages. The tenderer has to quote most competitive rates for all the items in the SCHEDULE "A" Bill of Quantities of Price Bid .

All Above three envelope shall be placed in One big envelope and shall be submitted in the tender Box placed in the office of the undersigned on or before **13-03-2012 at 13:00 hrs.** Reference of Tender Notice No. , Name of Work and Address of the bidder shall be clearly written on top of the each envelope.

Details of instructions and other terms and conditioned are described in next paras "TENDER NOTICE" and "Instruction to tenderes" which are enclosed herewith.

Clarification if any, can be obtained contacting following phone No.
01859-224653,224621,224601 Fax No. :01859- 222061

Kindly acknowledge the receipt of the entire set of tender document.

Thanking you,

Yours faithfully

For and on behalf of
BHARAT HEAVY ELECTRICALS LIMITED,
DGM / CIVIL ,HR & Quality
IVP -GOINDWAL-143422

Issued to
M/s / Shri/ Smt/
.....
.....
Date

Issuing Officer
Name:.....
Designation:.....
Date

SIGNATURE OF TENDERER

CONTENTS OF TENDER DOCUMENTS

S/ No.	DESCRIPTION	PAGE NO.
A	Tender Notice	6 to 12
B	Annexure 1 "Norms for evaluation of Technocommercial offer/Bid"	13 to 15
C	Instructions to Tenderers	16 to 17
D	Special Conditions of Contract	18 to 21
E	General Conditions of Contract	22 to 43
	<u>CHAPTER - I</u>	22
1	DEFINITIONS	22
	<u>CHAPTER - II // SCOPE OF CONTRACT</u>	22
2	HEADING TO THE CONTRTACT	22
3	CONTRACT DOCUMENTS	22
4	WORKS TO BE CARRIED OUT	23
5	PROVISIONAL ITEMS	23
6	DEVIATIONS	23
7	TIME	24
8	STORES & MATERIALS	24
9	DELAY & EXTENSION OF TIME	25
10	PATENT RIGHTS	25
11	OCTROI AND OTHER DUTIES	25
12	ROYALTIES	25
13	PLANT & EQUIPMENT	25
14	ASSIGNMENT OR TRANSFER OF CONTRACT	26
a)	SUB-CONTRACT	26
15	COMPLIANCE TO REGULATIONS AND BYE-LAWS	26
	<u>CHAPTER - III // PERFORMANCE OF THE CONTRACT</u>	26
16	SECURITY DEPOSIT	26
17	ORDERS UNDER THE CONTRACT	27
18	ADMISSION TO SITE	27
19	CONTRACTOR'S SUPERVISION	28
20	LABOUR	28
21	WATER	30
22	TEMPORARY WORKSHOPS, STORES ETC.	30
23	STORES & MATERIALS ON SITE	30
24	TOOLS AND PLANTS ON SITE	31
25	STATEMENT OF HIRE CHARGES	32
26	PRECAUTIONS AGAINST RISKS	32
27	NOTICE & FEES	32
28	SETTING OUT OF THE WORKS & PROTECTION & MAINTAINING SIGNALS AND WORKS	32

SIGNATURE OF TENDERER

ACCEPTING AUTHORITY (BHEL)

29	SITE DRAINAGE	32
30	EXCAVATIONS, RELICS ETC.	32
31	FOUNDATIONS	33
32	COVERING-IN WORKS	33
33	APPROVAL OF WORKS BY STAGES	33
34	EXECUTION OF WORKS	33
35	DAY WORKS	33
36	INSPECTION OF THE WORKS	34
37	RESPONSIBILITY FOR BUILDING	34
38	INSURANCE OF WORKS	34
39	DAMAGE AND LOSS TO PRIVATE PROPERTY & INJURY TO WOKMEN	35
40	COMPLETION	35
41	COMPENSATION FOR DELAY	35
42	LAWS GOVERNING THE CONTRACT	36
43	CANCELLATION OF CONTRACT FOR CORRUPT ACT	36
44	CANCELLATION OF CONTRACT FOR INSOLVENCY,ASSIGNMENT OR SUB LETTING OF CONTRACT	36
45	CANCELLATION OF CONTRACT FOR DEFAULT	37
46	TERMINATION OF CONTRACT FOR DEATH	38
47	SPECIAL POWERS OF DETERMINATION	38
48	FAIR WAGE	38
	<u>CHAPTER – IV</u> /// <u>VALUATION AND PAYMENT</u>	39
49	RECORDS & MEASUREMENTS	39
50	VALUATION OF DEVIATIONS	40
51	REIMBURSEMENT/ REFUND ON VARIATION IN PRICE	40
52	ADVANCES ON ACCOUNT	41
53	FINAL BILL	42
54	PAYMENT OF BILLS	42
55	RECOVERY FROM CONTRACTOR	42
56	POST TECHNICAL AUDIT OF WORKS AND BILLS	42
57	REFUND OF SECURITY DEPOSIT	43
58	ARBITRATION	43
F	ANNEXURE TO (condition 20 CHAPTER III OF General Conditions of Contract)	44 to 59
1	BHEL CONTRACTOR'S LABOUR REGULATIONS	44
2	MODEL RULES FOR LABOUR LAWS	48
3	TERMS AND CONDITIONS REGARDING COMPLIANCE WITH LABOUR LAWS	51
4	BHEL SAFETY CODE	55
G	Technical Specification of water proofing works	60 to 63
H	Technocommercial Bid Offer/ Performa (To be filled and certify by Tenders)	64 to 74

SIGNATURE OF TENDERER

ACCEPTING AUTHORITY (BHEL)

A. TENDER NOTICE

- 1 SEALED TENDERS for the above noted work are hereby invited from contractors prequalified for works with respect to their experience in work of similar nature and magnitude and their financial capacity. Tenders are to be dropped in tender Box which is kept in the office of DGM/ HR & Civil, Bharat Heavy Electricals Limited, IVP- Goindwal Up to **13:00 Hrs. on 13-03-2012** . These tenders will be opened on the same day at **14.30 Hrs.** at the Office of the DGM/ HR & Civil, Bharat Heavy Electricals Limited, IVP, 433- INDUSTRIAL COMPLEX, Goindwal-143422, Distt. TARN TARAN, Punjab in the presence of such of those tenderers or their agents who may choose to attend.
- 2 TENDER FORMS and other particulars regarding the proposed work can be obtained on any working day from 9.00 A.M. to 5.00 P.M. up to 12-03-2012 on payment of the prescribed sum of Rs. **500 / -** per set as Cost of Tender Document in the form of either Cash or Demand Draft . This may also be downloaded from BHEL website. In such case a DD of Value Rs. 500/- in the favor of BHARAT HEAVY ELECTRICALS LIMITED payable at Goindwal must be submitted along with EMD . This Amount is not refundable.
- 3 TENDERS must be submitted in sealed covers as deccribed on Page no. 2-3 and should be addressed to the DGM/ HR & CIVIL , BHEL IVP -Goindwal with full name and address of the tenderer and the name of work being noted on the cover
- 4 THE TENDERERS also CALLED AS CONTRACTORS here should fill in all the required particulars in the blank spaces provided for this purpose in the tender documents and also sign and stamp on each and every page of Tender Documents including the drawings attach there to before submitting their tender.
- 5 In the event of tender being submitted by a firm ,the tender must be signed separately and legibly by each partner of member of the firm or in their absence, by the person holding the power of attorney on behalf of the firm concerned. in the latter case a copy of the power of attorney duly attested by a Gazetted Officer must accompany the tender.
- 6 Before tendering, the tenderers are advised to inspect the site of work and its environments and be well acquainted with the actual working and other Prevalent conditions position of materials and labour, General and Special Conditions of Contract. Instructions to tenders, drawings and Specifications and all other documents which form part of the Agreements to be entered into.
- 7 The scope of work includes waterproofing of roof slabs of resedential buildings of BHEL Township, laying of roof drainage pipe ,making Khurra ,Golas and Laying of Brick tiles over treated surface. Scope of works includes supply of material and Labour works all in complete respects. Material to be issued by BHEL free of cost for this works are enlisted in Schedule "B" of price Bid.
- 8 The Scope of works include Dismanteling of Old treatment on Terrace and making side good and clean after new treatment in the residential buildings of BHEL township at Goindwal as directed by Engineer in charge. All Workmanship shall be completed as per standard specifications laid in CPWD specification manual Volume II edition 2009 chapter **12,18 and 22**. These specifications are available on CPWD web site and they may also be had from the Engineer in Charge.Important steps of waterproofing works are enlisted in S/n "G" on page no.60 of technical Bid.
- 9 Material to be used in the work shall be as per specifications mentioned in BOQ and CPWD manual described above. These materials shall be of standard ,reputed and approved make. List of approved make of these materials is attached in Schedule D of price bid. Finishing work is to be completed in all respects. An incomplete work on any roof slab or any portion of building shall not be measured for payment.

SIGNATURE OF TENDERER

ACCEPTING AUTHORITY (BHEL)

- 10 Application of water proofing membrane as per specifications described in Scheduled A of price Bid and Section G of technical Bid shall be provided by approved applicator of Manufacturer of such membrane only . Contractor shall submit all evidence /Credential documents of work experience of applicator before mobilization of applicator on site or when asked by Engineer in charge to do so. Failure of these requirements will result in failure of approval for commencement of work.
- 11 **The following eligibility criteria shall be complied by a prequalified contractor/ tenderer**
 - (a) **During last seven financial years (from 01/04/2005 to up to 31/1/2012 should have successfully completed works either**
 - Three similar works each of value not less Than Rs. 4.65 Lakhs (or)**
 - Two similar works each of value not less Than Rs. 5.80 Lakhs (or)**
 - One similar work of value not less Than Rs. 9.30 Lakhs.**
 - (b.1) **HAVING A VALID PAN number**
 - (b.2) **HAVING A VALID Sales Tax/ TIN No.**
 - (b.3) **HAVING A VALID Service Tax registration No. or Proof of having applied for same with acknowledgement.**
 - (c) **Average annual turnover in the last 3 financial years (2008-09,2009-10,2010-11) shall be minimum Rs. 5.80 Lakhs duly supported by Certified copy of Balance sheet, P& L accounts and IT returns.**
- 12 **The norms for evaluation of Technocommercial Bid with prescribed score/ weightage is described in Annexure 1 of tender notice. Evaluation of only Prequalified Bidders will be done. Technocommercial Bid of a tenderer will be accepted for this work if his score against above norms is 60 or more. Price Bid of only Those bidders will be opened whose Technocommercial/Technical Bid is accepted.**
- 13 **The works executed in the own name of the tenderer only will be considered for eligibility criteria. (Copy of satisfactory completion certificate of similar work or copy of work order along with final bill payment certificate given by Clients shall be attached. / (Copy of acceptance letter/ agreement/ work progress certificate shall not be accepted)**
- 14 **Similar works means Those Civil works of building Construction or maintenance which includes waterproofing works. Irrelevant works like House keeping,Sewage cleaning, sweeping, Boring, Fabrication, Erection etc shall not be considered in similar works category.**
- 15 **Documentary evidences (Xerox copies - attested) for turnover, works experience, PAN, TIN, all as indicated & required in the tender document should be furnished without which it will not be taken into account.**
- 16 **The work shall be carried out in occupied buildings as per the direction of Engineer in charge, Civil Engineering Department Work & Safety procedure, specifications and standard code of practice etc. Tenderer has to quote specific rates both in figures and in words applicable on all the items given in the Schedule "A " Bill of Quantities provided in the Price Bid.**

- 17 The tenderer should quote specific rates of each item in the schedule A of price bid and the Gross amount so derived should be in rupees and paise. The Price schedule accompanying the tender shall be written legibly and free from erasures, over writings or corrections of figures. Corrections where unavoidable should be made by crossing out, initialing, dating and rewriting. No alterations which is made by the tenderer in the tender form, the conditions of agreement, the drawings or specifications accompanying the same will be recognized and if any such alterations are made, the tender will be void.
- 18 UNIT rate should be quoted in figures as well as in words with reference to each item and for all the items shown in the attached schedule A of price bid . These rates shall be for the finished work in site. Amount of each item and the total page by page and also the grand total amount of the whole contract should be filled in by the tenderers. Unit rate quoted shall be the basis for arriving the total value of the tender. The total amount for every item shall be arrived by multiplying the unit rate with the quantity indicated for that item. In case of any arithmetic deviation is noticed in the total amount, the same will be corrected and evaluated by taking unit rate as basis and multiplying with the quantity indicated.
- 19 In quoting their rates, the tenderers are advised to take account all factors including any fluctuations in the market rates etc. No claim will be entertained on this account after acceptance of the tender or during the currency of the contract.
- 20 The item rates offered shall be complete for the entire cost towards fuel, tools, tackles, plant & machinery, temporary works, labour, materials, levies, taxes, transport, lay-out, repairs, rectifications, maintenance till handing over, supervision, labour colonies, establishment, services, roads, revenue expenses, overheads, profits & all other incidentals etc., complete. However if the service tax is applicable for this contract, the same will be reimbursed on production of valid document / proof for having paid service tax by the tenderer.
- 21 Rate quoted shall be excluding Service Tax but including all royalties, terminal taxes, Octroi duties, Central or Provincial Excise Tax, Sales Tax and any other taxes leviable under the State or Central Government rules on this work. The Bharat Heavy Electricals Ltd., will not entertain any claim whatever in this respect. However if the service tax is applicable for this contract, It shall be mentioned specifically by Tenderer in Price bid and Technical Bid. If tenderer does not have service tax Registration no. than he shall submit the documentry proof for having applied for same with acknowledgement and Registration no. is to be submitted before release of payment.
- 22 This service Tax will be reimbursed to Contractor on submission to BHEL a documentary evidence of deposition of this service Tax to the concerned authority. Please note that BHEL will not be responsible for any contravention of service Tax rules by Tenderer/Contractor or delay in deposition of service tax or calculation of service tax by Them and will not bear responsibility for any penalty or interest applied by concerned authority for such contravention or delayed deposition or non deposition or wrong deposition of service tax by Contractor/Tenderer. Cost of free issue material consumed in the work will be given to Contractor on his request.
- 23 QUANTITIES shown in the attached schedule are only approximate and are liable to variation upto any extent without entitling the Contractors to any compensation, provided the total value of the Contract does not vary by more than 20% (twenty percent)
- 24 Validity of offer /rates quoted by tenderer in Price bid shall be Three months from the date of opening of tender.

- 25 work shall be awarded to L1 tenderer on L1 quoted rates. Price quoted by tenderer shall be fixed and not subject to any escalation whatsoever during the period of execution of the Contract including the extended period, if any. No price variation /over run charges on account of any increase whatsoever, (irrespective of whether escalation is steep/ unanticipated) will be payable during the entire period of execution of Contract including extended period, if any.
- 26 In case more than one contractor quotes equal L1 rates further sealed quotation will be obtained from L1 tenderers to decided L1. Under no circumstance revised rate should not be more than the original quoted rate.
- 27 Time is the essence of the contract. Being a time bound work in nature, the contractor should make all efforts to complete the work in the stipulated period of Two (02) MONTHS from the date of placement of LOI.
- 28 LD penalty will be imposed on the contractor if delay in completion of work is on the part of contractor. LD of value of 1 % of Contract Value as mentioned in LOI for every week will be imposed Subject to 10 % of contract value. Detail is given in Clause 41 of general conditions of Contract.
- 29 Usually, working hours are limited to day time only. In emergency cases to carryout works during nights, it may be done so with the specific prior permission of BHEL. In such case, it is to be carried out in the presence of BHEL officials or their authorized persons.
- 30 Every tender must be accompanied with EMD for the amount as specified in Page No. I in any of the form mentioned in Para 09 of the "Instruction to Tenderers". This Earnest Money will be refunded to the unsuccessful tenderers within fifteen days of finalization of the award of work. In case of the successful tenderer, the Earnest Money will be retained as part of the Security Deposit for satisfactory completion of the work in accordance with Clause 16 of the General Conditions of Contract
- 31 Cheques, Currency Notes and Money Orders will not be accepted in lieu of the deposit receipt referred to above
- 32 If after opening of tenderer revokes his tender or increases his earlier quoted rates or after acceptance of his tender does not commence the work in accordance with the instruction of the Engineer-in-charge, the Earnest Money deposited by him will be forfeited and acceptance of his tender withdrawn. If only a part of the work included in the tender had been awarded to the tenderer, the amount of Earnest Money to be forfeited will be based on the value of the contract so awarded.
- 33 EMD given by all unsuccessful tenderers shall be refunded normally within fifteen days of acceptance of award of work by the successful tenderer.
- 34 EMD shall not carry any interest.
- 35 Security Deposit
- 35.1 Security Deposit shall be collected from the successful tenderer . The rate of Security Deposit will be as below:
- 35.2 Up to Rs. 10 lakhs :10%
- 35.3 Above Rs. 10 lakhs up to Rs.50 lakhs : 1 lakh + 7.5% of the amount exceeding Rs. 10 Lakhs
- 35.4 Above Rs. 50 lakhs :Rs.4 lakhs + 5% of the amount exceeding Rs. 50 lakhs.
- 35.5 The security Deposit should be collected before start of the work by the contractor.
- 35.6 Security Deposit may be furnished in any one of the following forms

- 35.7 Cash (as permissible under the Income Tax Act)
- 35.8 Pay Order, Demand Draft in favour of BHEL.
- 35.9 Local cheques of scheduled banks, subject to realization.
- 35.10 Securities available from Post Offices such as National Savings Certificates, Kisan Vikas Patras etc.
(Certificates should be held in the name of contractor furnishing the security and duly pledged in the favour of BHEL and discharged on the back).
- 35.11 Bank Guarantee from Scheduled Banks / Public Financial Institutions as defined in the Companies Act. The Bank Guarantee format should have the approval of BHEL.
- 35.12 Fixed Deposit Receipt issued by Scheduled Banks / Public Financial Institutions as defined in the Companies Act . The FDR should be in the name of the contractor, A/C BHEL, duly discharged on the back.
- 35.13 Security deposit can also be recovered at the rate of 10% from the running bills. However in such cases at least 50% of the Security Deposit should be collected before start of the work and the balance 50% may be recovered from the running bills.
- 36 EMD of the successful tenderer shall be converted and adjusted against the security deposit.
- 37 The security deposit shall not carry any interest.
- 38 Acceptance of Security Deposit against Sl. No. 35.10 and 35.12 above will be subject to hypothecation or endorsement on the documents in favour of BHEL. However, BHEL will not be liable or responsible in any manner for the collection of interest or renewal of the documents or in any other matter connected therewith.
- 39 Unless the contractor whose tender is accepted signs the Contract Agreements and makes the necessary security deposit specified in Para 35 above within Seven days of the date of the order directing him to do so the amount of Earnest Money Deposit already deposited by him will be forfeited and acceptance of his tender withdrawn.
- 40 The Bharat Heavy Electricals Limited reserve the right to reject any or all the received or accept any tender or part there of without assigning any reason thereof. In the case acceptance of part of tender, time for completion may also be reduced to the extent considered appropriate by the Accepting Authority.
- 41 Conditional and Unwitnessed tenders, tender containing absurd rates and amounts tenders which are incomplete or otherwise considered defective and tenders not in accordance with the tender conditions laid down by the Accepting Officer are liable to be rejected.
- 42 Tenders not submitted on the prescribed form are liable to be rejected
- 43 The Chairman / General Manger / Deputy General Manager / Deputy Manager / Senior Engineer shall be Accepting Officer, herein after referred to as such for the purpose of this contract.
- 44 This tender notice shall be deemed to form an integral part of the contract to be entered into for this work.
- 45 The tenderers are advised to go through the condition stipulated in Tender document & code of conduct for „Health & Safety of Contract Labourer“ in details. Any violation thereof will invite punitive action being taken against them. While quoting the rate all the above factors are to be taken into account.

- 46 The correspondence exchanged against the tender from both tenderer and BHEL through email are considered as valid document legally though it is not signed. It is treated as valid confirmations made on behalf of the respective company and very much comes under the legal ambit of the business transaction and hence it is binding on both the parties to the business.
- 47 Any transaction pertaining to the tender from both the parties of business done round the clock irrespective of the office or business hours of the companies, are valid legally and binding on both the parties. This applies to the extent only in such cases where deadline time for transaction is not specifically declared by either or both the parties to the business.
- 48 In case Letter of Intent (LOI) is issued through email, the PC generated time and date of mail shall be construed as the official time and date of release of LOI. In as much as this date is within the last date of validity given by the bidder the LOI is said to have been issued within the validity period and shall be binding on both the parties to the business.
- 49.1 The offers of the Bidders who are on the banned list as also the offers of the bidders who engage the service of banned firms shall be rejected, The list of banned firms is available on BHEL website www.bhel.com
- 49.2 Tenderers participating in the tender should declare in their technical bid that whether they have been black-listed / kept on hold for a specified period / given Business holiday for a specified period by any Public sector undertaking or Government departments. The reasons for such action with details and the current status of such hold shall be clearly furnished to BHEL. If no such details are mentioned in the offer then it will be construed that the subject bidder is not under any such hold. But at a later date if it comes to the notice of BHEL about any such hold under enforcement on the subject bidder, BHEL will have every right to reject the offer of such vendors at any point of time and also under any stage of the finalisation of the subject tender irrespective of the status of the subject bidder in that tender. Such bidders will not be permitted to participate in the further tender proceedings and will be communicated suitably. They will not be also considered for any on going tenders even if participated till the hold is officially lifted and confirmed in writing.
- 50 In all matters of dispute, the decision of the General Manager, Bharat Heavy Electricals Ltd., Goindwal -143422. shall be final and binding on the tenderer / contractor.
- 51 **Force Majeure clause:** If at any time during the continuance of this contract the performance in whole or in part by either party of any obligations under this contract shall be prevented or delayed by reason, of any war, hostilities, acts of the public enemy, civil commotion, sabotage, fires, explosions, epidemics, quarantine, restrictions or acts of GOD (hereinafter referred to as events) then provided notice of happening of any such events is given by either party to other within twenty one days from the date of occurrence thereof neither party shall reason of such events be entitled to terminate this contract nor shall either party have any such non performance and delay is resumed as soon as practicable after such events has come to an end or ceased to exist. If the performance in whole or part of any obligation under this contract is prevented or delayed by reason or any such event claims for extension of time shall be granted for period considered reasonable by BHEL subject to prompt notification by the tenderer to BHEL of the particulars of the events and supply to the BHEL if required of any supporting evidence. Any waiver of time in respect of partial installment shall not be deemed to be a waiver of time in respect of remaining deliveries.
- 52 **REVERSE AUCTION**
- BHEL reserves the right to go for a Reverse Auction (RA)** instead of Opening the submitted sealed bid, which will be decided after technical evaluation. Information and general terms and conditions governing RA are given below.

GENERAL TERMS AND CONDITIONS OF RA

- 53 Against this tender for the subject work/system with detailed scope of work as per tender specifications, BHEL may resort to "REVERSE AUCTION PROCEDURE" i.e., ON LINE BIDDING ON INTERNET.
- 54 For the proposed reverse auction, technically and commercially acceptable bidders only shall be eligible to participate.
- 55 BHEL will engage the services of a service provider who will provide all necessary training and assistance before commencement of on line bidding on internet.
- 56 BHEL will inform the vendor in writing in case of reverse auction, the details of Service Provider to enable them to contact & get trained.
- 57 Reverse Auction rules like event date, time, Start price, bid decrement, extensions etc. also will be communicated through service provider for compliance.
- 58 Vendors have to fax the Compliance form in the prescribed format (provided by Service provider) before start of Reverse auction. Without this, the vendor will not be eligible to Participate in the event.
- 59 BHEL will provide the calculation sheet (e.g., EXCEL sheet) which will help to arrive at "Total Cost to BHEL" like Taxes and Duties, Freight charges, Insurance and loading factors (for non-compliance to BHEL standard Commercial terms & conditions) for each of the vendor to enable them to fill-in the price and keep it ready for keying in during the Auction.
- 60 Reverse auction will be conducted on scheduled date & time.
- 61 At the end of Reverse Auction event, the lowest bidder value will be known on the network.
- 62 The lowest bidder has to Fax the duly signed Filled-in prescribed format as provided on case-to-case basis to BHEL through Service provider within 24 hours of Auction without fail.
- 63 Any variation between the on-line bid value and the signed document will be considered as sabotaging the tender process and will invite disqualification of vendor to conduct business with BHEL as per prevailing procedure.
- 64 In case BHEL decides not to go for Reverse Auction procedure for this tender enquiry, the Price bids and price impacts, if any, already submitted and available with BHEL shall be opened as per BHEL"s standard practice.
- 65 BHEL reserves the right to negotiate if need be, with the "L1" vendor of the Reverse Auction

Annexure 1

B. Norms for evaluation of Technical bid of prequalified bidder

Norms for prequalification: The following conditions are to be satisfied by the tenderers, with documentary proof to be enclosed with technical bid. In case the agency fails to do so it is liable for rejection.

(a) During last seven financial years (from 01/04/2005 to up to 31/1/2012 should have successfully completed works either

Three similar works each of value not less Than Rs. 4.65 Lakhs (or)

Two similar works each of value not less Than Rs. 5.80 Lakhs (or)

One similar work of value not less Than Rs. 9.30 Lakhs.

NOTE The works executed in the own name of the tenderer only will be considered for eligibility criteria. (Copy of satisfactory completion certificate of similar work or copy of work order along with final bill payment certificate given by Clients shall be attached./ (Copy of acceptance letter/ agreement/ work progress certificate shall not be accepted)

Similar works means Those Civil works of building Construction or maintenance which includes waterproofing works. Irrelevant works like House keeping, Sewage cleaning, sweeping, Boring, Fabrication, Erection etc shall not be considered in similar works category.

(b.1) HAVING A VALID PAN number

(b.2) HAVING A VALID Sales Tax/ TIN No.

(b.3) HAVING A VALID Service Tax registration No. or Proof of having applied for same with acknowledgement.

(c) Average annual turnover in the last 3 financial years (2008-09,2009-10,2010-11) shall be minimum Rs. 5.80 Lakhs duly supported by Certified copy of Balance sheet, P& L accounts and IT returns.

Technocommercial Bid of only Prequalified bidders shall be evaluated by giving Weightage for norms mentioned in Technical bid as below. Technocommercial Bid of a tenderer will be accepted if his minimum score is 60 out of 100 during the evaluation.

S/n	THRUST AREA/ Eligibility Norms	MAXIMUM SCORE	OBTAINED SCORE
1	NATURE OF COMPANY	5	Tenderer will not write any thing in this column
1.1	Public Limited	5	
1.2	Private Limited/Partnership firm	4	
1.3	Sole Proprietor/ Individual	3	
2	Financial Strength	30	
	Average annual turn over for last three Fy. years (2008-09, 2009-10, 2010-11)		
2.1	equal to Rs. 5.8 Lakhs	18	
2.2	Equal to Rs. 11.6 Lakhs or More	30	
2.3	(Pro-rata for in between cases)		

SIGNATURE OF TENDERER

ACCEPTING AUTHORITY (BHEL)

3	TOTAL EXPERIENCE OF WORKS OF SIMILAR NATURE IN LAST SEVEN FY. YEARS (1/04/2005 to 31/1/2012)	40	Tenderer will not write any thing in this column
3.1	Successful completion of similar works so that Total value of Experience is not less than Rs.9.3 Lakhs AND Not greater Than Rs. 13.95 Lakhs	24	
3.2	Successful completion of similar works so that Total value of Experience is GREATER than Rs. 13.95 Lakhs AND LESSER THAN Rs. 18.6 Lakhs	32	
3.3	Successful completion of similar works so that Total value of Experience is Rs. 18.60 Lakhs or More	40	
4	PERFORMANCE IN PREVIOUS civil or Structural works completed in Past three Years (01/01/2009-31/12/2011) (each of minimum value Rs. 4.65 lakhs)	10	
4.1	Four or More works completed in time	10	
4.2	Three works completed in time	9	
4.3	Two works completed in time	8	
4.4	One work completed in time	7	
5	Qualified staff availability for this work	4	
5.1	Manufacturers (of APP membrane to be used in water proofing works) approved applicator for water proofing works for the site.	4 for each, Max 4	
6	Equipments / Tools & Plants availability for this work	3	
6.1	Ladders of reach upto 20 feet		
(I)	TWO Sets	0.5	
(II)	More than TWO Sets	1	
6.2	Butane torch		
(I)	One Set	1	
6.3	RCC CUTTING /DRILLING Machines		
(I)	TWO Sets	0.5	
(II)	More than TWO Sets	1	
7	PAN NUMBER	4	
8	TIN /SALE Tax NUMBER	4	

NOTE: Minimum score required for ACCEPTANCE OF Technocommercial Bid is 60 out of 100.

- 1 Technical bids will be scrutinised by the Dept and in case the agency has not satisfied the conditions as above with documentary proof the bid will be rejected and their price bid will not be opened.

SIGNATURE OF TENDERER

ACCEPTING AUTHORITY (BHEL)

- 2 In case of a firm, the documents shall be in the name of the firm. However in case of sole proprietor or individuals these can be on the name of the sole proprietor or individual.
- 3 Though some of above documents are available with BHEL for those agencies who are presently working with BHEL, they also should submit one copy of the same. Otherwise the offer will be rejected.
- 4 All the relevant columns shall be filled with proper information. The unfinished / wrongly filled/
- 5 BHEL reserves the right to reject any or all tenders in part or in full without assigning any reason.
- 6 Party shall comply all legal, statutory requirements applicable to execute the work before commencement of work.
- 7 Tenders submitted without EMD and Tender Document Cost will be rejected Technocommercial
- 8 All corrigenda, addenda, amendments, time extensions clarifications, etc, to the tender will be hosted on BHEL website (www.bhel.com) only.

C. INSTRUCTIONS TO TENDERERS

- 1 The tender is open to all Contractors. The Contractors who are not enlisted with BHEI approved list of Contractor can be get registered /enlisted with BHEI Goindwal simultaneously with participation for this tender bid. They Should submit completely filled form of contractors registration available on BHEL website www.bhel.com along with necessary credential documents in support of information filled by contractor in this form.
- 2 The tenderer is advised to obtain the tender documents in person or by a messenger duly authorized to do so. The BHARAT HEAVY ELECTRICALS LIMITED will not under any circumstances accept responsibility for the non – receipt or delay in the receipt of the tender documents by the tenderer.
- 3 Every tenderer is expected, before quoting his rates to inspect the site of the proposed work. He should also inspect the quarries, and satisfy himself about the quality and availability of materials. The best class of materials shall be used on the work. In every case, the materials must comply with the relevant standards specifications. Samples of materials as called for in the Standard Specifications, or in this tender or as required by the Engineer-in-charge having jurisdiction for the time being over the work, shall have the due approval before the supply to site of work is begun. Attention of the contractor is directed to standard preliminary specification regarding payment of seigniorage, tools etc.,
- 4 The works contract to be entered in to with the contractor will be governed by the Special Condition of Contract and BHEL General Conditions of contract in force.
- 5 Should a tender find discrepancies or omissions in the drawings or any of the tender documents or should be in doubt as to their meaning, he should at once address the authority inviting the tender for clarification. Every Endeavour is made to avoid any error which can materially affect the basis of the tender but the successful tenderer shall take upon himself to provide for the risk of any error which may be subsequently by discovered and shall make no subsequent claim on account thereof.
- 6 Tenders submitted by post should be sent “Registered Post with Acknowledgement due”. These should be posted with due allowance for any delay in postal delivery. Tenders received after the due date and time of opening, tenders are liable to be rejected.
- 7 The contractor’s responsibility under this shall commence form the date of receipt of the contract order of acceptance of his tender. The scheduled period of completion for this work will be as mentioned in page No. 01, and the Contractor will have to plan his work accordingly.
- 8 Generally, the maintenance period for any work under BHEL Organization will be Six(6) months
- 9 Earnest Money is to be paid by each tenderer to ensure that the tenderer does not refuse to execute the work after it is awarded to him. EMD Shall be furnished only in the form of Pay Order or Demand Draft in favour of BHARAT HEAVY ELECTRICALS LIMITED, Payable at Goindwal. EMD in any other form will not be accepted.

SIGNATURE OF TENDERER

ACCEPTING AUTHORITY (BHEL)

- 10 Should a tenderer or a contractor on the list of approved Contractors have a relative, or in the case of a firm or Company of contractors any of its share holders or shareholder's relative, employed in a gazetted capacity in the Engineering Department of the Bharat Heavy Electricals Limited, the authority inviting tenders shall be informed of this fact at the time of submission of the tender, failing which tender, maybe disqualified or if such fact subsequently comes to light, the contract may be rescinded in accordance with the relevant provisions in the General Conditions of Contract.
- 11 If tenderer expires after the submission of his tender or after the acceptance of his tender the BHEL may, at their discretion, cancels such tender. If a partner of a firm expires after submission of tender or after the acceptance of the Tender, BHEL may cancel such Tender at their discretion unless the firm retain its character.
- 12 The Bharat Heavy Electricals Limited will not be bound by any power of attorney granted by the tenderer or by changes in the composition of firm made subsequent to the execution of the contract. They may however recognize such power of attorney and changes after obtaining proper legal advice the cost of which will be chargeable to the contract concerned.
- 13 If the tenderer deliberately gives wrong information in his tender or creates conditions favorable for the acceptance of his tender, the Bharat heavy Electricals Limited, reserves the right to reject such tender at any stage.
- 14 Words importing the singular number shall also be deemed to include the plural number and vice versa where the context so requires.
- 15 The expenses for competing and stamping the agreement shall be paid by the contractor.
- 16 The General and special conditions are complementary to each other and where they are conflict the Special Conditions shall prevail. In regard to matters not covered by the General and Special Conditions of Contract, those contained in the Central Public works Departments Standard Specifications or in other specifications approved by the Bharat Heavy Electricals Limited, Shall apply.
- 17 Tenderers shall not increase their quoted rates in case the Bharat Heavy Electricals Limited, negotiates for negotiation for reduction of rates. Such negotiation shall not amount to cancellation or withdrawal of the original offer and the rates originally quoted shall be binding on the tenderes for a period of three months from the date of opening of tenders.
- 18 Canvassing in any form in connection with tenders is strictly prohibited and the tenders submitted by the contractors who resort to canvassing will be liable to rejection

D. SPECIAL CONDITIONS OF CONTRACT

- 1 BHEL shall have privity of the contract with the contractor only and will give instructions to the contractor or his authorized representative. BHEL will have nothing to do or be concerned with the employment of employees working for the contractor. The relationship between BHEL and the contractor will be that of independent entities and nothing herein contained will amount to joint venture, partnership or an employer-employee relationship.
- 2 The works contract to be entered into with the successful tenderer will also be governed by the BHEL revised General Conditions of Contract in force.
- 3 The work must be completed within a period as mentioned in Page No.1.and Clause no. 27 of tender Notice . Non completion within stipulated time Clause no. 41 of Chapter III of General condition of Contract for Compensation for delay of the work will be applicable for this work if delay is on part of contractor.
- 4 The tenderer is not allowed to alter the specifications and the unit of work noted in the Schedule-A of price bid. For the sake of uniformity in comparisons of tenders, the tenderers should not add any conditions of their own. Tenders not complying with these conditions are liable to be rejected.
- 5 The submission of tender shall be strictly in accordance with the terms and conditions stipulated in tender notice. No counter conditions will be acceptable or valid.All the terms & conditions in the documents are binding on the tenderers and BHEL reserves its right to accept / reject any or all the tenders and to award the work in full or parts to more than one agency without assigning any reasons. Also it reserves its right to finalize the contract through reverse auction.
- 6 In case the contractor does not carry out the Contractual / Statutory obligations or the services rendered by him are found to be unsatisfactory, BHEL shall bring the same to his notice and he will be obliged to discharge the obligations and rectify the deficiency / anomaly within three days time failing which, BHEL reserves the right to terminate the contract without assigning any reason whatsoever. In such an event, no damages will be payable for short closure of the contract.
- 7 The contractor shall submit the programme for the completion of work and indicate the list of machineries and site personnel to be deployed for the work after award of it. This should be in Line with the S/n 25 & 26 of technocommercial Bid/Offer.
- 8 No advance for mobilization will be given.
- 9 On the written request from the contractor Water required for the work may be provided by this organization at only one point at the site of the work at free of cost. In case of failure of water supply, the Contractor will have to make his own arrangements for water without any extra claims until supply is restored. BHEL does not accept any liability whatsoever for non supply or delay in the supply of water under any circumstances. The contractor shall ensure that there is no wastage of water otherwise supply of water, is liable to be stopped at contractor's risk and cost.
- 10 On the written request from the contractor Electrical energy required for the work may be given by this organization at any one point at the site of work at free of cost. BHEL does not accept any liability whatsoever for non-supply, delay in supply or failure of supply of electrical energy. Contractor shall ensure that there is no wastage of electrical energy otherwise supply is liable to be stopped at contractor's risk and cost. The contractor shall make leak proof / fire proof shed and provide control panel board of required capacity and lay the required cables at their own cost for further distribution.

SIGNATURE OF TENDERER

ACCEPTING AUTHORITY (BHEL)

- 11 On the written request from the contractor Compressed air alone will be provided this organization at only one point near the site of work at free of cost. The contractor has to provide further arrangements from that point to his other areas. Also the contractor should be in a position to make his own arrangement for compressed air without any extra claim for the uninterrupted operation of jack hammer with silencer wherever BHEL is not in a position to supply compressed air
- 12 All the materials to be used in the work shall confirm to respective CPWD, IS,ASTM and National Buildings Organisation Standard Specifications as applicable or as described in BOQ exclusively. They shall be got approved by the Engineer – in – charge before actual incorporation in the work.
- 13 The contractor should use only the materials of brand and quality approved by BHEL. Contractor will have to submit manufacturers test certificate for quality of product and its material bought by the contractor for use at this site when BHEL Engineers asked him to do so.
- 14 Contractor's materials and tools & plants shall be brought inside factory/ Township with proper invoice / voucher and make necessary entry at the security gate. They should maintain proper record for tools and plants, materials, etc., brought inside the factory complex.
- 15 The Deputy General Manager / Civil or his duly authorized representative shall have all reasonable times access to Contractor's premises of work and shall have the power at all the reasonable times to inspect and test any portion of the work or examine the materials and workmanship of the structures during their manufacture and test. The contractor shall give due notice in writing to the Inspecting Engineer of BHEL when the materials supplied to be incorporated in the work are ready for inspection and test. No material shall be incorporated in the work until the inspecting Engineer certified in writing that such materials have been inspected and approved by him.
- 16 The contractor should bring necessary Tools & Equipments as and when required for the work without any delay. Also required number of the tools & Plants / instruments shall be made available always at site for the works.
- 17 The contractor has to deploy sufficient number of lorries to collect & transport the construction materials debris generated, etc. at site. Otherwise BHEL would clear the debris at the contractor's risk and cost.
- 18 The successful tenderer / Contractor shall observe all safety regulations and take necessary safety precaution as called for under the "BHEL Safety Code attached here with as Annexure to General Conditions of Contract.
- 19 All safety measures are to be followed during execution of work. Necessary scaffolding, ladders, safety net, life lines barricaddings etc. are to be provided with prior permission from safety department. Necessary work permit to work at heights to be obtained.
- 20 The Contractor shall closely scrutinize all the drawings issued in connection with the work by this organization and bring to the notice of the Engineer-in-charge if any discrepancies, omissions in the drawings before undertaking the actual work pertaining thereto.
- 21 The contractor has to plan and work for the areas on priority and availability on mutual agreement with execution and user or occupants of the building obtaining prior permission from concerned persons.
- 22 **All the works shall be executed as per the specifications provided in BOQ / CPWD / BIS/ASTM.**

- 23 No night work will be permitted without the written permission of the Engineer – in – charge.
- 24 The contractor should submit in advance every fortnight a detailed programme of work to be undertaken from time to time strictly in conformities with the “Time and Progress Chart” covering the entire constructed work and reschedule them wherever necessary during the progress of the work so as to achieve the target set. Periodical progress reports of every fortnight should also be furnished by the Contractor regarding the collection of materials issued and to be issued from BHEL Stores and other relevant information as asked for by the Engineer-in-charge and other BHEL Officers-in-charge of the work.
- 25 Statement of completed works with detailed measurements along with material reconciliation statements shall be submitted by the contractor in the last week of every month for processing bill. The final acceptance of work in all items is subject to proper behaviour after testing regardless of whether the items are paid for or not.
- 26 The contractor should extend fullest co-operation with the third party agencies engaged, if any by BHEL to adhere the Quality Control Procedures ensuring quality.
- 27 The contractor should extend full co-operation to the other contractors who may be doing other works in the same areas enabling them to execute their portions of work without any delay or difficulty.
- 28 The contractor has to carry out the work in occupied buildings Without any inconvenience to the residence of the buildings and without affecting their routine activities by planning the activities of the work in an effective way. All garbage and rubbish at the end of work in the evening shall be removed by contractor .
- 29 The contractor shall strictly adhere to various labour laws in force. The agency is responsible for all the statutory requirements & documentations for ESI / PF etc as per prevailing Government Rules / Labour Rules. Any amount payable by BHEL on account of these requirements shall be recovered from contractors bills / deposits.
- 30 The contractor shall follow norms of BHEL security system for movement of men & materials within the complex including biometric movement system.
- 31 Since the responsibility for the quality, workmanship and accuracy of any work being carried out under this contract lies with the contractor, the contractor should ensure that no work is done without the presence of contractor’s representative at the work spot.
- 32 The contractor should establish his own site office, labour colony, handling facility, storage facility etc., for which vacant land will be allotted on specific request to the contractor if it is available with BHEL for which the rent will not be collected.
- 33 Permission for erection of temporary work sheds etc., at site will have to be obtained from BHEL in writing in advance. All debris and surplus materials generated during the execution of work shall be cleared from the site as and when directed by the Engineer-in-charge. Any temporary structure / stores made by the contractor for the work shall be demolished and site cleared before payment of final bill.
- 34 The contractor has to submit the organization chart of their set up for the works and any change thereafter in the organization set up shall have the prior approval of BHEL.
- 35 The contractor is required to carry out construction activities as directed by the department officials. It is required to engage certain minimum strength of staff for effective supervision of works as indicated below:

MANUFACTURER (of APP membrane to be used in water proofing works) APPROVED
APPLICATOR FOR WATERPROOFING WORKS - 1 No.

Site Foreman

- 2 No.

- 36 An Engineer to look after Quality and one Safety Engineer may be deployed at site to look after safe working.
- 37 The tenderer has to deploy an adequate skilled labour of required categories so as to execute the works simultaneously in all areas of work to complete it within stipulated time.
- 38 Separate non-technical persons should be engaged for arranging daily gate passes for labours and vehicles entry in all the gates of Factory Complex.
- 39 The tenderer shall carry out health performance test at his cost for all the workmen engaged in the work through a registered medical practitioner and produce certificate on demand.
- 40 It shall be the responsibility of the contractor to see that the workmen do not utilize the departmental canteen facilities. Contractor has to make his own arrangements to provide refreshment for the workmen.
- 41 Items of work other than those mentioned in the Bill of Quantities (Tender Schedule) attached hereto will be carried out at the rates to be fixed by this organization as per relevant clauses of the General Conditions of Contract Clause no 50 of chapter IV
- 42 The decision of Engineer-in-charge shall be final and binding on the contractor regarding clarification of items in this tender schedule.
- 43 The contractor should maintain proper accounts for materials if any supplied by this organisation and these should be available at the site of work for verification and check by the Officials of this Organisation at any time.
- 44 Payment to the contractor will be done by Electronic fund transfer Mode. Contractor will have to furnish necessary detail before receive the payment by this mode.Necessary deductions shall be done like TDS, WCT tax etc at the standard rates applicable on time as per the rules, ragulations and ACTs of Governments
- 45 Materials to be issued by BHEL to the contractor for this work are enlisted in Schedule "B" of price Bid.
- 46 BHEL shall be entitled to terminate the contract/pending Work Orders at any stage and to get the work done elsewhere at the risk and cost of the Contractor, either the whole of the work or any part thereof which the Contractor has failed to complete or deliver within the time stipulated as aforesaid. Contractor shall be liable for the losses, which BHEL may sustain by way of such risk purchase in addition to aforesaid penalty for delayed delivery.
- 47 In all matters of dispute, the decision of the General Manager, Bharat Heavy Electricals Ltd., Goindwal -143422. shall be final and binding on the tenderer / contractor.
- 48 The court of the place from where the LOI is issued during the contractual period shall alone have jurisdiction to decide any dispute arising out of or in connection with the LOI.

SIGNATURE OF TENDERER**ACCEPTING AUTHORITY (BHEL)**

GENERAL CONDITIONS OF CONTRACT

CHAPTER 1// DEFINITIONS

In these General Conditions of Contract, the following terms shall have the meaning hereby assigned to them except where the context otherwise requires:-

- (a) The "CONTRACT" means the documents forming the tender and acceptance thereof, together with all documents referred to therein including General and Special Conditions of Contract, Schedules „A“, „B“, „C“, „D“, „E“, etc of Price Bid and / or General Summary attached to the form of tender, the Bharat Heavy Electricals Limited, Schedule of Rates as amended and in force the Specifications and the Drawings. All these documents as applicable taken together shall be deemed to form one Contract and shall be complementary to one another.
- (b) The "TENDER DOCUMENTS" means the form of Tender the applicable Schedules „A“, „B“, „C“, „D“, „E“, and / or General Summary, General and Special Conditions of Contract and the Specification and / or Drawings as given to Contractors on payment for the purpose of preparing their tenders.
- (c) The "WORK" means the work described in the tender documents in individual work orders and/or accompanying Drawings and Specifications as may be issued from time to time to the Contractor by the Engineer-in-charge within the powers conferred upon them, including all modified or additional works and obligations to be carried out either at the site or at any Factory Workshop or other place as required for the performance of the Contract.
- (d) The "SITE" means the lands and/or other places on, in into or through which the work is to be executed under the Contract or any adjacent land, path or street which may be allotted to or used for the purpose of carrying out the contract.
- (e) The "CONTRACTOR" means the individual, firm or Company, whether incorporated or not undertaking the work and shall include the legal personal representatives of such individuals or the persons composing the firm or Company, or the successors of the firm or Company and the permitted assigns of such individual or firm or Company.
- f) The " Engineer-in-charge" means the Engineer who is incharge for the works referred.

CHAPTER II // SCOPE OF CONTRACT

2 Heading to the Contract:

The heading to these conditions shall not effect the interpretation thereof.

3 Contract Documents

The Accepting Officer shall furnish to the Contractor on demand "FREE OF COST" three copies of signed drawings and one copy of the signed agreement comprising of general and special specification of work during the progress of work.

However, for any additional copies of the agreement or drawings or specifications required by the Contractor the same will be supplied on payment at the specified cost.

The Contractor shall keep one copy of all the Drawings and the Specifications at the site and the Engineer-in-charge or his representative shall have access to them at all reasonable times.

None of these documents shall be used by the contractor for any purpose other than that of this contract.

The Contractor shall take necessary steps to ensure that all persons employed on any work in connection with this contract have noticed that the Indian official Secrets Act 1923 (XIX of 1923) applies to them and shall continue so to apply even after the execution of such works under the contract.

4 Works to be Carried Out

The Contract shall, except as provided under Schedules "B" and „C" include all labour, materials, tools, plants equipment and transport which may be required in preparation for, and in the entire execution and full completion of the work. Schedule „A" shall be deemed to have been prepared in accordance with good practice and recognized principles and unless otherwise stated, the descriptions given therein shall be held to include waste on materials carriage and cartage, lead, return of empties, hoisting, setting, fitting in position and all other labour necessary in and for the entire execution and full completion aforesaid. Any error in description or quantity in schedule „A" or any omission there from shall not vitiate the Contract or release the Contractor from the execution of the whole or any part of the work comprised therein according to the Drawings and Specifications, or from any of his obligations under the Contract. The insertion of the name of any firm of suppliers in the Tender Documents is for the purpose of obtaining a particular class or quality of materials or workmanship but the articles or materials specified may be obtained from any other firm subject to prior written approval of the Engineer – in – charge.

In the case of a discrepancy between Schedule „A" the specification and / or the Drawing, the Accepting Officer shall be the sole deciding authority as to which shall prevail and his decision shall be final and conclusive. If neither Drawings nor Specifications contain any mention of minor details of construction, which in the opinion of the Accepting Officer whose decision shall be final and conclusive, are reasonable and obviously and fairly intended for the satisfactory completion of the work, such details shall be provided by the Contractor without any extra cost as if they were specially mentioned and shall be deemed to be included in the contract.

The contractor will be deemed to have satisfied himself as to the nature of the site, local facilities of access and all matters affecting the execution and completion of the work. No extra charges consequent on any mis-understanding in these respects or otherwise will be allowed.

5 Provisional Items

The full amount of provisional lumpsums and the value annexed to each provisional item inserted in the tender documents shall be deducted from the contract sum and the value of work ordered and executed thereunder shall be ascertained by measurement or valuation as for deviations.

No work under these items is to be begun without instructions in writing from the Engineer-in-charge.

The extent of quantities or items described as "Provisional" shall not be held to guarantee or limit the amount and description of the work to be executed by the contractor either in respect of the items concerned or the work as a whole.

No addition or deduction shall be made by the Contractor to the amount of the provisional lumpsums as included in the tender documents.

6 Deviations

The contractor shall not make any alteration in addition to or omission from the work as described in the tender documents except in pursuance of the written instructions of the Engineer-in-charge. No such deviation from the work described in the tender documents shall be valid unless the same has been specifically confirmed and accepted by the Accepting Officer in writing and incorporated in the contract.

The Accepting Officer may deviate either by way of addition or deduction, from the work so described, provided that the contract sum be not thereby varied on the whole by more than the percentage set out in the tender documents. The value of all addition and deductions will be added to, or deducted from the contract sum. Whenever the Accepting Officer intends to exercise such a right, his intention shall specify the deviations which are to be made, the lumpsum assessment or the proposed basis of payment, the extra time allowed, if any, and the date for completion of the entire contract.

Any objection by the Contractor to any matter concerning the order shall be notified by him in writing to the Engineer-in-charge within Seven days from the date of such order, but under no circumstances shall the work be stopped (unless so ordered by the Engineer-in-charge) owing to differences or controversy that may arise from such an objection. In the absence of such a notification of objection by the contractor, he will be deemed to have accepted the order and the conditions stated therein. In the event of the contractor failing to agree with the Engineer-in charge regarding the terms of the proposed deviation, the objection shall be referred to the Project Manager whose decision shall be final conclusive and binding on the Contractor.

7 Time

Time is the essence of the contract and is specified in the tender Notice or in each individual Work Order.

As soon as possible after the contract is let or any substantial Work Order is placed and before work under is to begin, the Engineer-in-charge and the Contractor shall agree to a Time and Progress Chart. The Chart shall be prepared in direct relation to the time stated in the Tender Notices or the Work Order for the completion of the individual items there of and/the contract or order as a whole. of the dates for the commencement of the various trade processes or sequences of the work, and shall be amended as may be required by agreement between the Engineer-in- charge and the Contractor within the limitation of the time imposed in the Tender Notices or Order It shall indicate the forecast

In the absence of any specific Time and Progress chart to be agreed to between the Contractor and the Engineer-in-charge, the contractor shall ensure and maintain uninterrupted progress of the work such that the entire work shall be completed within the time imposed in the Tender Notices or Order and that the proportion of work completed upto any time in relation to the entire work to be under the Contractor Order shall not be less than the proportion that the time elapsed bears to the total time of completion provided in the Tender Notices or Order.

The contractor shall suspend the execution of the work, or any part or parts thereof whenever called upon in writing by the Engineer-in-charge to do so, and shall not resume work thereon until so directed in writing by the Engineer -in- charge. The Contractor will be allowed an extension of time for completion not less than the period of suspension. However, no other claim in this respect for compensation or otherwise however will be admitted. Provided the cause for suspension is not attributable to any default on the contractor's part to proceed with or fulfill the contractual obligations. This may also be extended to allow for alteration of work made by the deviation order.

8 Stores and Materials

The Contractor shall, at his own cost and expense, provide all materials required for the works, other than those listed in Schedule „B“, which are to be supplied by Bharat Heavy Electricals Limited. All materials to be supplied by the Contractor shall be of the best kind as described in the specifications and the Contractor shall, if requested by the Engineer-in-charge, furnish proof to the satisfaction of the Engineer-in-charge, that the materials so comply with the specifications.

The contractor shall, at his own expense and without delay, supply samples of materials proposed to be used in the execution of the work for approval of the Engineer-in-charge, who may reject the materials not corresponding either in quality or character to the approved samples.

In the case of stores provided under Schedule „B“ the Contractor shall bear the cost of loading, transporting to site, unloading, storing under cover as required assembling and jointing the several parts together as necessary and incorporating or fixing these stores materials in the work, including all preparatory work of whatever description as may be required, and of closing, preparing, loading and returning empty cases or containers to the place of issue without any extra charges.

9 Delay and Extension of Time:

if, in the opinion of Engineer-in-charge the work is delayed:

- i) by reason of abnormally bad weather, OR
- ii) by reason of serious loss or damage by fire, OR
- iii) by reason of Civil commotion, local combination of workmen strike or lockout, affecting any of the trades employed on the work OR.
- iv) by delay on the part of the agency or tradesman engaged by BHEL in executing work not forming part of this contract, OR
- v) by reason of any other cause which in the absolute discretion of the Engineer-in-charge is (when he is the Accepting Officer of the Contract) beyond the Contractor's reasonable control, than in such case the Accepting Officer on the recommendation of the Engineer-in-charge (or higher authority) may make fair and reasonable extension in the completion dates of the individual items of work or the contract as a whole. Such extension which will be communicated to the Contractor by the Engineer-in-charge in writing shall be final and binding on the Contractor. No other claim in this respect for compensation or other-wise howsoever is admissible. Upon the happening of any such event causing delay, the Contractor shall immediately given notice thereof in writing to the Engineer-in-charge but shall nevertheless use constantly his best endeavour to prevent or make good the delay and shall do all that may reasonably be required to the satisfaction of the Engineer-in-charge to proceed with the work.

10 Patent Rights:

The Contractor shall fully indemnify B.H.E.L or the agent, servant, or employee of B.H.E.L against any action, claim or proceeding relating to infringement or the use of any patent or design or any alleged patent or design rights, and shall pay any royalties which may be payable in respect of any article / or part there of included in the contract.

In the event of any claims being made or action brought against B.H.E.L or any agent, or servant or employee of BHEL in respect of matters aforesaid the Contractor shall immediately be notified thereof for taking necessary action provided that payment of indemnity shall not apply when such infringement has taken place in complying with the specific directions issued by the BHEL but the Contractor shall pay any royalties payable in respect of any such use.

11 Octroi and Other Duties:

All charges on account of Octroi, Terminal or Sales Tax and/or other duties on material obtained for the work (excluding materials provided by B.H.E.L on payment) shall be borne by the contractor.

12 Royalties:

Royalties fixed from time to time as per prevalent local rules will be recovered for materials, which the Contractor may be allowed to remove from quarries situated on land which is in charge of the B.H.E.L authorities.

13 Plant and Equipment:

The Contractor, shall at his own expense, supply all tools, plant and equipment (here-in-after referred to as T & P) required for the execution of the contract other than those listed in Schedule „C“ which subject to their availability may be hired by B.H.E.L., to the Contractor or issued free for use in the execution of the work as specified in Tender Documents.

14 Assignment or Transfer of Contract:

The Contractor shall not, without the prior written approval of the Accepting Officer, assign or transfer the Contract or any part thereof, or any share, or interest therein to any other person. No sum of money which may become payable under the Contract shall be payable to any person other than the Contractor unless the prior written approval of the Accepting Officer to the assignment or transfer of such money is given.

14 (a) Sub Contract:

The Contractor shall not sub-let any portion of the Contract without the prior written approval of the Accepting Officer.

15 Compliance to Regulations and Bye Laws:

The Contractor shall conform to the provision of any statute relating to the work and regulations and bye-laws of any local authority and of any water and lighting Companies or Undertakings with whose system the work is proposed to be connected. He shall, before making any variation from the drawings or the specifications that may be necessitated for such connections give the Engineer-in-charge notice, specifying the variation proposed to be made and the reasons there for and shall not carry out any such variation until he has received instructions from the Engineer-in-charge in respect thereof. The contractor shall be bound to give all notice required by Statute Regulations or Bye-laws as aforesaid and to pay all fees, and taxes payable to any authority in respect thereof.

CHAPTER III // PERFORMANCE OF THE CONTRACT**16 Security Deposit**

16 Security Deposit Shall be collected from the successful tenderer. The rate of Security Deposit will be as below:

Upto Rs. 10 lakh	10%
Above Rs. 10 lakh upto Rs.50 lakh	1 lakh + 7.5% of the amount Exceeding Rs.10 Lakh
Above Rs. 50 lakh	4 lakh + 5 % of the amount exceeding Rs.50 Lakh

At least 50% of the security Deposit should be furnished before start of the work by the contractor in the form of Demand Draft / Bank Guarantee.

Security Deposit may be furnished in any one of the following forms :-

- i) Cash (as permissible under the Income Tax Act)
- ii) Pay Order, Demand Draft in favour of BHEL.
- iii) Local cheques of scheduled banks in the name of BHEL subject to realization.
- iv) Securities available from Post Offices such as National Savings Certificates, Kisan Vikas Patras etc. (Certificates should be held in the name of Contractor furnishing the security and duly pledged in favour of BHEL and discharged).
- v) Bank Guarantee from Scheduled Banks / Public Financial Institutions as defined in the Companies Act subject to a maximum of 50% of the total security deposit value. The balance 50% has to be remitted either by cash or in the other form of security. The Bank Guarantee format should have the approval of BHEL.
- vi) Fixed Deposit Receipt issued by Scheduled Banks / Public Financial Institutions as defined in the Companies Act . The FDR should be in the name of the contractor, A/C BHEL, duly discharged on the back.

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- vii) Security deposit can also be recovered at the rate of 10% from the running bills. However in such cases at least 50% of the Security Deposit should be collected before start of the work and the balance 50% may be recovered from the running bills.
- viii) EMD of the successful tenderer shall be converted and adjusted against the security deposit.
- ix) The security deposit shall not carry any interest.

NOTE: Acceptance of Security Deposit against Sl. No. (iv) and (vi) above will be subject to hypothecation or endorsement on the documents in favour of BHEL. However, BHEL will not be liable or responsible in any manner for the collection of interest or renewal of the documents or in any other matter connected therewith.

All compensation or other sums of money payable by the Contractor to BHEL, under the terms of this Contract or under any other contract with BHEL, may be deducted from the Security Deposit or realized by the sale of the Securities or from the interest arising there from or from any sums which may be due or may become due to the Contractor payable by BHEL, on any account whatsoever against this Contract or any other Contract with BHEL, and in the event of his Security Deposit being reduced by reason of such deductions or sale as aforesaid, the Contractor shall, within seven days thereafter, make good in cash or in securities endorsed as aforesaid, any sum or sums by which the Security Deposit has been so reduced. 50% of the Security Deposit / may be refunded on completion of the work after payment of the final bill and the balance 50% of the Security Deposit is refundable only after the expiry of the maintenance period of six (6) months from the date of completion of work as stipulated in the Contract concerned.

17 Order under the contract

All orders, notices etc., to be given under the contract shall be in writing typescript or printed and if sent by registered post to the address given in the tender of the contractor, shall be deemed to have been served on the date when in the ordinary course they would have been delivered to him.

The contractor shall carry out without delay all orders given to him.

18 Admission to site

The Contractor shall not enter on (other than for inspection purposes) or take possession of the site unless permitted to do so by the Engineer-in-charge. The portions of the Site to be occupied by the Contractor will be clearly defined and marked on the site plan, and the Contractor will on no account be allowed to extend his operations beyond these areas.

The Contractor shall provide, if necessary or required at the Site, temporary access there to and shall alter, modify and maintain the same as required from time to time. He shall take out and clear away the access route when no longer required and restoring the area to its original condition.

The Engineer-in-charge shall have power to execute other works (whether or not connected with the work in the contract agreement) on the site contemporaneously with the execution of the original work and Contractor shall give reasonable facilities for this purpose.

B.H.E.L reserves the right of taking over, at any time, any portion of the site which they may require and the Contractor shall at his own expense clear such portion forthwith. No photographs of the Site or of the work or any part there of shall be taken, published or otherwise circulated without the prior approval of the Engineer-in-charge.

No such approval shall however exempt the contractor from complying with any statutory provisions in regard to the taking and publication of such photographs.

B.H.E.L Officials connected with the Contract shall have the right of entry to the Site at all times.

Engineer - in charge shall have the power to exclude from the site any person whose admission there to may, in his opinion be undesirable for any reason whatsoever.

19 Contractor's Supervision

The Contractor shall either himself supervise the execution of the Contract or shall appoint a competent Agent approved by the Engineer-in-charge to act in his stead. The contractor shall employ an Engineer/Agent having at least a „Degree of Bachelor of Civil Engineering“ from a recognized University/on any work with a Contract value exceeding rupees two lakhs, and having at least a Diploma in civil Engineering from a recognised college, on work with a contract value exceeding Rs. 50,000/- but not exceeding rupees two lakhs.

The Employment of an Engineer/Agent as aforesaid shall not be necessary if the Contractor himself in possession of a recognized technical qualification and is in opinion of the Engineer-in-charge capable of receiving instructions of the Engineer-in-charge and of executing the work to the satisfaction of the Engineer-in-charge. If the Contractor fails to appoint a suitable Engineer/ Agent as aforesaid, the Engineer-in-charge shall have full powers to suspend the execution of work and stop payment of any advances that may have become due until such date as a suitable Engineer/Agent is appointed and the contractor shall be held responsible for the delay caused to the work and no extension of time on this account shall be given to him as stipulated in condition (9) above.

Orders given to the Contractor's Agent/Engineer shall be considered to have the same force as if they had been given to the Contractor himself.

The contractor or his Agent shall be in attendance at the site during all working hours and shall superintend the execution of work with such additional assistance in each trade as the Engineer-in - charge may consider necessary.

The contractor or his accredited agent shall attend when required and without making any claim for doing so, either the Office of the Engineer-in-charge or the work site to receive instructions.

The Engineer-in-charge shall have full powers, and without assigning any reason to require the Contractor immediately to cease to employ in connection with the Contract any Agent, servant or employee whose continued employment is, in his opinion undesirable.

The Contractor shall not be allowed any compensation on this account.

20 LABOUR

The Contractor shall employ labourer in sufficient numbers either directly or through sub-contractors to maintain the required rate of progress and of quality to ensure workmanship of the degree specified in the Contract and to the satisfaction of the Engineer-in-charge. The Contractor shall not employ in connection with the works any person who has not completed his Eighteen years of age.

The Contractor shall furnish to the Engineer-in-charge at the intervals specified by him, a distribution return of the number and description by trades of the work people employed on the works. The Contractor shall also submit on the 4th and 19th of every month to the Engineer-in-charge a true statement showing in respect of the second half of the preceding month and the 1st half of the current month (i) the accidents that occurred during the said fortnight showing the circumstances under which they happened and the extent of damage and injury caused by them and (ii) The number of female workers who have been allowed maternity benefit as provided in the Maternity Benefit Act, 1961 or Rules made thereunder and the amount paid to them.

The Contractor shall pay to labour employed by him either directly or through sub-contractors wages not less than fair wages as defined in the Contractor's Labour Regulations.

The contractor shall in respect of labour employed by him either directly or through sub – contractors comply with or cause to be complied with Contractor's Labour Regulations in regard to all matters provided therein.

The Contractor shall comply with the provisions of the Payment of Wages Act 1936, Minimum Wages Act 1948, Employers liability Act 1938, Workmen's Compensation Act 1923, Industrial Disputes Act 1947, Maternity Benefit Act 1961 and Mines Act 1952, Contract Labour Regulation and Abolition Act 1970 or any modifications there of or any other law relating thereto and rules made thereunder from time to time.

The contractor shall be liable to pay his contribution and the employees' contribution to the State Insurance Scheme in respect of all labour employed by him for the execution of the contract, in accordance with the provision of " The Employees' State Insurance Act, 1948" as amended from time to time. In case the contractor fails to submit full details of his account of labour employed and the contribution payable, the Engineer-in-charge shall recover from the running bills of contractor an amount of contribution as assessed by him. The amount so recovered shall be adjusted against the actual contribution payable for Employees' State Insurance.

The Engineer-in-charge shall on a report having been made by an Inspecting Officer as defined in the Contractor's Labour Regulations have the power to deduct from the moneys due to the Contractor any sum required or estimated to be required for making good the loss suffered by the worker or worker by reason of non-fulfillment of the Conditions of the Contract for the benefit of workers, non-payment of wages or of deductions made from his or their wages which are not justified by the terms of the Contract or non-observance of the said Contractor's Labour Regulations.

The Contractor shall indemnify the B.H.E.L against any payments to be made under and for observance of the Regulations aforesaid without prejudice to his right to claim indemnity from his sub-contractors.

In the event of the Contractor committing a default or breach of any of the provisions of the aforesaid Contractor's Labour Regulations, as amended from time to time or furnishing any information or submitting or filling any form / Register/Slip under the provisions of these Regulations which is materially incorrect then on the report of the Inspecting Officers as defined in the Contractor's Labour Regulation, the Contractor shall without prejudice to any other liability pay to the B.H.E.L a sum not exceeding Rs. 50/- as liquidated damages for every default breach or furnishing, making submitting, filling materially incorrect statement as may be fixed by the Engineer-in-charge and in the event of the Contractor's default continuing in this respect, the liquidated damages may be enhanced to Rs. 50/- per day for each day of default subject to a maximum percent of the estimated cost of works put to tender.

The Engineer in charge shall deduct such amount from bills or security deposit of the Contractor and credit the same to the Welfare Fund constituted under Regulations. The decision of the Engineer-in-charge in this respect shall be final and binding.

Model Rules for Labour Welfare

The Contractor shall at his own expense comply with or cause to be complied with Model Rules for Labour welfare as appended to these Conditions or rules framed by Government from time to time for the protection of health and for making sanitary arrangements for workers employed directly/or indirectly on the works. In case the Contractor fails to make arrangements as aforesaid, the Engineer-in-charge shall be entitled to do so and recover the cost thereof from the Contractor.

Safety Code

The Contractor shall at his own expense arrange for the safety provisions as appended to these conditions or as required by the Engineer - in - charge, in respect of all labour directly or indirectly employed for performance of the works and shall provide all facilities in connection therewith. In case the Contractor fails to make arrangements and provide necessary facilities as aforesaid, the Engineer- in-charge shall be entitled to do so and recover the cost thereof from the Contractor.

Failure to comply with model Rules for Labour Welfare, Safety Code, or the provisions relating to report on accidents and to grant of maternity benefits to female workers shall make the Contractor liable to pay to the B.H.E.L as liquidated damages an amount not exceeding Rs. 50/- for each default or materially incorrect statement. The decision of the Engineer-in-charge in such matters based on reports from the Inspecting Officers as defined in the Contractor's Labour Regulation as appended to these conditions shall be final and binding and deductions for recovery of such liquidated damages may be made from any amount payable to the Contractor.

21 WATER

The Contractor shall allow in his Tender and provide at his cost all water required for the work or his employees on the work, together with all pipes and fittings or other means that may be necessary or required to ensure a proper and ample supply of water for all purposes connected with the work.

Water will be supplied from the BHEL supply system, or other sources at one point fixed by the Engineer-in-charge on the site of work at free of cost. The Contractor shall make necessary arrangement for lifting pumping, carrying or conveying the water as required at his own cost.

22 Temporary Workshops, Stores Etc.

The Contractor shall, during the progress of the work provide, erect and maintain at his own expense all necessary temporary workshops, stores, offices, etc., required for the proper and efficient execution of the work. The planning, siting and erection of these buildings shall have the approval of the Engineer-in-charge and the Contractor shall at all times keep them tidy and in a clean and sanitary condition to the entire satisfaction of the Engineer-in-charge.

On completion of the work all such temporary buildings shall be cleared away and the site restored and left in a clean and tidy condition to the entire satisfaction of the Engineer-in-charge.

23 Stores and Materials on Site

All stores and materials required for the work are to be deposited by the Contractor only in places to be indicated by the Engineer-in-charge.

Where in accordance with the contract stipulations certain Stores & Materials (for incorporation in the work) are to be issued to the Contractor by the BHEL as detailed under Schedule "B" such items will be so issued only to the extent required for the actual completion of the work as stipulated in the contract. The decision of the Engineer-in-charge regarding the quantities to be issued as above shall be final and binding on the contractor. For any excess quantities consumed on the work upto 5% over the theoretical consumption will be charged at issue rates and excess consumption beyond this limit, their cost will be recovered from the Contractor at punitive rates which will be 100% (Hundred Percent) more than the issue rates of the BHEL as specified in the Special conditions of Contract.

In regard to the materials and stores which may be issued to the Contractor by BHEL the Contractor shall give the Engineer-in-charge reasonable notice in writing of his requirements of such stores and materials and on the approval of his demand being notified to him, he shall make immediate arrangements for drawing the same. Such stores and materials shall be transported by the Contractor at his own expense direct from the place of issue to the site of the work, unless prior written approval is obtained from the Engineer-in-charge to take them to a Store or Workshop elsewhere.

The Contractor shall have to build a weather proof shed for the storage of cement required for 15 days consumption of the work.

BHEL Officers connected with the Contract shall have the power at any time to inspect and examine any stores or materials intended to be used in or on the work, whether on the site or at any factory or workshop or other place where such stores or materials are being fabricated or manufactured or at any place where the same are lying and the contractor shall give necessary facilities for such inspection and examination.

SIGNATURE OF TENDERER

ACCEPTING OFFICER (BHEL)

The Engineer-in-charge shall be entitled to have tests made of any stores or materials supplied by the Contractor who shall provide at his own expense all facilities which the Engineer-in-charge may require for this purpose. If at the discretion of the Engineer-in-charge an independent expert is employed to make any such tests his charges shall be borne by the Contractor only if the test discloses that the said stores or materials are not in accordance with the provisions of the Contract.

Should the Engineer-in-charge consider at any time during the construction or re-construction, on prior to the expiry of the "MAINTENANCE PERIOD" that the stores or materials provided by the Contractor are unsound or of a quality inferior to that contracted for or otherwise not in accordance with the contract (in respect whereof the decision of the Engineer-in-charge shall be final and conclusive) the Contractor, shall on demand, in writing from the Engineer-in-charge specifying the Stores or materials complained of, notwithstanding that the same may have been inadvertently passed, certified and paid for, forthwith remove the stores or materials so specified and provide other proper and suitable stores or materials at his own expense; to the entire satisfaction of the Engineer-in-charge and in the event of his failing to do so within a period to be specified by the Engineer-in-charge in his demand aforesaid the Engineer-in-charge may replace within others the stores or materials complained of at the risk and expense in all respects of the Contractor. The liability of the contractor under this condition shall not extend beyond the maintenance period aforesaid except as regards stores or materials which the Engineer-in-charge shall have previously given notice to the contractor to replace. (*MAINTENANCE PERIOD for any work under this Organisation will be SIX MONTHS FROM THE DATE OF ACTUAL COMPLETION of the particular work and handing over to B.H.E.L).

All stores and materials brought to the Site shall become and remain the property of B.H.E.L and shall not be removed from the site without prior written approval of the Engineer-in-charge. However, when the work is finally completed, the Contractor shall at his own expense forthwith remove from the site all surplus stores or materials originally supplied by him and upon such removal, the same shall revert in and become the property of Contractor. All B.H.E.L Stores and materials issued to Contractor for in-corporation or fixing in the work and which, making due allowance for reasonable wear and tear/or waste, have not on completion of the work been so incorporated or fixed, shall be returned by the Contractor at his own expense to the place of issue.

Credit for surplus stores and/ or materials returned by the contractor to B.H.E.L will be given to him at a price based on the prevailing market rate but not exceeding that at which the said stores and materials were originally issued to him but due consideration shall be given to the allowance claimed by B.H.E.L in respect or any depreciation or damage suffered by the stores and/or materials whilst in the custody of the Contractor regarding which the decision of Engineer- in-charge shall be final and conclusive.

If, in the opinion of the Engineer-in-charge (which shall be final and conclusive) any stores, supplied by B.H.E.L have either during currency of the work or after completion of the work whilst under the custody of the Contractor, become damaged to such an extent that they cannot be usefully utilized, either in the same work or in other works, the Engineer-in-charge shall not accept the stores and in the event of his rejection the contractor shall be charged for the said Stores at a rate as fixed by the Accepting Officer. The Contractor shall not be entitled to any claim whatsoever on this account.

24 Tools and Plants on site:

All tools, plants and equipment brought to the site shall become the property of B.H.E.L and shall not be removed from the site without the prior written approval of the Engineer-in-charge when the work is finally completed or the Contract is determined for reasons other than the default of the Contractor he shall forthwith remove from the site all tools, plants, equipments etc., (other than those as may have been provided by B.H.E.L) and upon such removal, the same shall in, and become the property of the Contractor.

25 Statement of Hire Charges:

A monthly detailed statement of the hire charge incurred in respect of B.H.E.L tools, plants, equipments etc., shall be given to the Contractor by the Engineer- in-charge.

26 Precaution Against risks:

The Contractor shall be responsible for providing at his own expense, for all precautions to prevent loss or damage from any and all risks and to minimize the amount of any such loss or damage and for the necessary steps to be taken for the said purpose until the works have been handed over complete in all respect of the Engineer-in-charge.

The Contractor shall provide all watchmen necessary for the protection of the site, the work, the materials, tools, plants, equipments and anything else lying on the Site during the progress of the work. He shall be solely responsible for and shall take all reasonable and proper steps for protecting, securing, lighting and watching, all places on or about the work and the Site which may be dangerous to any person whomsoever.

27 Notices and Fees:

The Contractor shall give all notices required by any Statutory provision or by the regulations and/or bylaws of any local Authority and/or of any Public Service, Company or Authority affected by the work or with whose system the same are or will be connected. The Contractor shall pay and indemnify B.H.E.L against any fees and charges payable under such Acts. Regulation and/or bylaws in respect of the work and shall make and supply all drawings and plans required in connection with any such notice.

28 Setting out of the Works and Protective and Maintaining Signals and Works:

The Engineer-in-charge shall supply dimensioned drawings, levels and other information necessary to enable the contractor to set out the work. The Contractor shall at his own expense set accurately according to the drawings and figured dimension thereon, all the work comprised in the contract and any extras or additions there-to and shall be solely responsible for their being so set out and executed. All bench marks, pegs, signals on the surface, alignment stones, milestones and all similar marks whether put in by B.H.E.L Authorities for the purpose of checking the Contractor's work or in the nature of permanent survey marks will during the tenure of the contract, be under the care of the Contractor who shall, at his own expense, take, all proper and reasonable precautions and care to preserve and maintain them in their true position. In the event of these marks being disturbed or obliterated by accident or due to any other cause whatsoever, the same may, if deemed necessary, be replaced by the Engineer-in-charge at the Contractor's expense and the cost thereof deducted from any money then or thereafter becoming due to the Contractor.

Where requested by the Contractor, the level marks, center line and chainage pegs corresponding to those shown on the Drawing will be pointed out to the Contractor on the ground but all bench marks or chainage pegs additional to those shown on the Drawing will be set out by BHEL authorities.

29 Site Drainage:

All water that may accumulate on the site during the progress of the work or in trenches and excavations shall be removed to the entire satisfaction of the Engineer-in-charge and at Contractor's expense.

30 Excavations, Relics Etc.

Material of any kind obtained from excavation on the site shall remain the property of BHEL and shall be disposed off as Engineer-in-Charge directs.

All gold, silver, oil and other minerals of any description and all precious stones, coins, treasures, relics, antiques and other similar items which may be found in or upon the site shall be the property of Bharat Heavy Electricals Limited and the Contractor shall duly preserve the same to the satisfaction of the BHEL and shall from time to time deliver the same to such person or persons as the B.H.E.L may appoint to receive the same.

31 Foundations

The Contractor shall not lay any foundations until the excavations for the same have been examined and approved in writing by the Engineer-in-charge.

32 Covering-in Work

The Contractor shall give reasonable notice in writing to the Engineer-in-charge whenever any work is to be permanently covered up or concealed, whether by earth or other means so that it can finally be inspected or measured if necessary. In default of so doing, the Contractor shall, if required by the Engineer-in-charge uncover such work at his own expense.

33 Approval of works by Stages:

All work embracing more than one process shall be subject to examination and approval at each stage thereof and the Contractor shall give due notice in writing to the Engineer-in-charge when each stage is ready. In default of such notice being received, the Engineer-in-charge shall be entitled to approve the quality and extent thereof at any time he may choose and in the event of any dispute, the decision of the Engineer-in-charge thereon shall be final and conclusive.

34 Execution of the Work:

The work shall be executed in a workman-like manner and to the satisfaction in all respects of the Engineer-in-charge.

The Engineer-in-charge will communicate or confirm his instructions to the Contractor in respect of the execution of the Work in a "Work Site Order Book" maintained at his office and the Contractor shall visit this office daily and shall confirm receipt of such instructions by signing the relevant entries in this book. Such entries will rank as order or notices in writing within the intent and meaning of these conditions.

35 Day Work:

No day-work shall be performed without the prior written instructions of the Accepting Officer.

The Contractor shall give to the Engineer-in-charge reasonable notice of the start of any work ordered to be executed by day-work and shall deliver to the Engineer-in-charge within two days of the end of each pay week a return in duplicate giving full detailed accounts of labour and materials for that pay-week. One copy of each of these returns, if found correct, will be certified by the Engineer-in-charge and returned to the contractor and must be produced at the time of adjustment of accounts.

An invoice in duplicate signed by the Contractor or his agent shall be sent with each delivery of materials for day-work and the Contractor will be furnished with a receipt signed by the Engineer-in-charge specifying the description, quantities weight or measurement (as the case may be) of the articles approved, reference will be made in this receipt in the return aforesaid and the Contractor's Bill.

In the case of Lumpsum Contracts, the rates to be charged and the percentage addition for profit and establishment charges, etc., will be agreed upon between the Accepting Officer and the Contractor prior to the execution of the work.

36 Inspection of the Work:

B.H.E.L Officers concerned with the Contract shall have power at any time to inspect and examine any part of the work and the Contractor shall give such facilities as may be required to be given for such inspection and examination Should Engineer-in-charge consider, at any time during the expiry of the maintenance period, that any work has been executed with unsound, imperfect or unskilled workmanship or of a quality inferior to that contracted for or not otherwise in accordance with the contract (in respect) whereof the decision of the Engineer-in-charge shall be final and conclusive the Contractor shall on demand in writing from the Engineer-in-charge specifying the fault notwithstanding that the same may have been inadvertently passed, certified and paid for, forthwith rectify or remove and reconstruct the work so specified in whole or in part as the case may be required at his own expense to the entire satisfaction of the Engineer-in-charge and in the event of his failing to do so within a period to be specified by the Engineer-in-charge in his demand as aforesaid, the Engineer-in-charge may carry out the work by other means at the risk and expense in all respects of the Contractor. However, the liability of the Contractor under this condition shall not extend beyond the maintenance period except as regards workmanship which the Engineer-in-charge shall have previously given notice to the Contractor to rectify.

37 Responsibility for Building:

In the event of any building or part of any building being handed over to the Contractor for the execution of work thereto under the provisions of the Contract, he shall give a written receipt for all fixtures, glass etc. and he shall be required to make good at his own expense all damages resulting from any cause whatsoever while in his charge and on completion of the work to deliver the said building or part thereof in a clean state complete in every particular to the entire satisfaction of the Engineer-in-charge.

38 Insurance

The contractor shall within one month after the date of the acceptance of the contract, insure the work against loss or damage to the contract works, temporary work and materials erected in performance of the contract on "all risks" basis from the time of arrival on site until taken over by BHEL on completion of the contract.

The cover shall also include wherever necessary the risks of testing including breakdown or explosion of plant and machinery undergoing testing, trial and commissioning operations. The insurance shall also specifically cover removal of debris cost. The sum insured shall represent the estimated full value of the contract works inclusive of value of free supply materials by BHEL, transport charges, customs dues, express freight, overtime charges, cost of erection, value of constructional plants and machinery, removal of debris and escalation of costs where the contract includes a maintenance period, the insurance cover shall specifically include the contractors' liabilities during the maintenance period. The insurance shall also be extended to cover third party personal injury and property damage for a sum to be specified by BHEL. The insurance shall be effected in the name of BHEL and the contractor shall submit to BHEL a draft of the insurance policy for approval. The policy when issued will be lodged with BHEL together with receipts of premium for such insurance and the contractor shall maintain such policies in force until the obligations of the contractor are fully discharged.

If the contractor fails to comply with the terms of this condition the Accepting officer may insure the work and may deduct the amount of premiums from any money that may become payable to the contractor or may at his discretion refuse payment of any advances to the contractor until the contractor shall have complied with the terms of this condition. This provision does not, however, absolve the contractor of his responsibility for taking up the insurance. The contractor is, therefore, primarily responsible for taking up the insurance in time.

39 Damage and loss to private property and injury to workmen

The contractor shall at his own expense reinstate and make good to the satisfaction of the Engineer-in-charge and pay compensation for any injury, loss or damage occasioned to any property or rights whatever including property and rights of B.H.E.L, (or agents, servants or employees of B.H.E.L) the injury loss or damage arising out of or in anyway in connection with the execution or purported execution of the contract and further the contractor shall indemnify B.H.E.L, against all claims enforceable against B.H.E.L, or any agent, servant, or employee of B.H.E.L a private person, in respect of any such injury (including injury resulting in death loss or damage to any person) whosoever or property, including all claims which may arise under the workmen's Compensation Act or otherwise, or which would be enforceable against B.H.E.L.

40 Completion

The works shall be completed to the entire satisfaction of the Engineer-in-charge and in accordance with the Contractor's forecast of Time and Progress where operative, and all unused stores and materials, tools, plants, equipments, temporary buildings and things shall be removed and the site and work cleared of rubbish and all waste materials and delivered up clean and tidy to the satisfaction of the Engineer-in-charge at the Contractor's expense and/or before the Scheduled date of completion.

The B.H.E.L shall have power to take over from the Contractor from time to time each sections of the work as have been completed to the satisfaction of the Engineer-in-charge.

In case the Contractor fails to remove any of his properties, assets or fails to clear the rubbish and waste materials within 30 days of the completion of the contract, it is lawful for the contractee, that is BHEL to take such action as it deems fit to clear dispose of such properties, assets or such waste materials and charge the contractor any expenses incurred thereon.

The Engineer-in-charge shall certify to the Contractor the date on which the work is completed and the state thereof.

The Engineer-in-charge shall also certify to the Contractor the state of the work at the end of maintenance period, where applicable.

41 Compensation for Delay:

If the contractor fails to maintain the required progress in terms of condition 7 or to complete the work and clear the site on or before the contracted or extended period of completion, he shall, without prejudice to any other right or remedy of the B.H.E.L on account of such breach, pay as agreed compensation an amount calculated as stipulated below or such smaller amount as may be fixed by the BHEL on the contract value of the work for every week that the progress remains below that specified in condition 7 or that the work remains incomplete.

This will also apply to items or group of items for which separate period of completion has been specified.

For this purpose the term „Contract Value“ shall be the value at contract rates of the work as ordered.

- a. Completion period (as originally-stipulated) -- at 1 percent per week. Not exceeding 6 months.
- b. Completion period (as originally-stipulated) -- at ½ percent per week Exceeding 6 months and not exceeding 2 years.
- c. Completion period (as originally-stipulated) -- at¼ percent per week Exceeding 2 years.

Provided always that the total amount of compensation for delay to be paid under this condition shall not exceed the under noted percentage of the contract value or of the contract value of the item or group of items of work for which a separate period of completion is given:

- a. Completion period (as originally-stipulated) -- 10 percent.
Not exceeding 6 months.

- b. Completion period (as originally-stipulated) -- 7½ percent.
Exceeding 6 months and not exceeding 2 years.
- c. Completion period (as original-stipulated) -- 5 percent.
Exceeding 2 years

The amount of compensation may be adjusted or set-off against any sum payable to the Contractor under this or any other contract with the B.H.E.L.

42 Laws Governing the Contract:

This contract shall be governed by the Indian Laws for the time being in force.

43 Cancellation of Contract for Corrupt Acts:

The Accepting Officer, whose decision shall be final and conclusive, shall, without prejudice to any other right or remedy which shall have accrued or shall accrue thereafter to Bharat Heavy Electricals Limited, cancel the contract in any of the following cases and the Contractor shall be liable to make payment to B.H.E.L for any loss or damage resulting from any such cancellation for default.

If the Contractor shall:

- a. Offer or give or agree to give to any person in BHEL service any gift or consideration of any kind as an inducement or reward for doing or for bearing to do or for having done or forborne to do a day act in relation to the obtaining or execution of this or any other contract for BHEL service OR
- b. Enter into a contract with B.H.E.L in connection with which commission has been paid or agreed to be paid by him or with his knowledge, unless the particulars of any such commission and the terms of payment thereof have previously been disclosed in writing to the Accepting Officer, OR
- c. Obtain a contract with B.H.E.L as a result of ring tendering or by non-bonafide methods of competitive tendering without first disclosing the fact in writing to the Accepting Officer.

44 Cancellation of Contract for Insolvency, Assignment or Transfer or Sub- Letting of Contract:

The Accepting Officer, without prejudice to any other right or remedy which shall accrue thereafter to B.H.E.L shall cancel the contract in any of the following cases:

If the Contractor,

- a) Being an individual, or if a firm any partner thereof shall at any time be adjudged bankrupt or have a receiving order or orders for administration of his Estate made against him or shall take any proceedings, for liquidation or composition under any Bankruptcy Act for the time being in force or make any conveyance or assignment of his effects of composition or arrangement for the benefit of his creditor or purport to do so, or if any application be made under any Bankruptcy Act for the time being in force for the sequestration of his Estate or if a trust deed be granted by him on behalf of his creditors, OR
- b) Being a Company, shall pass a resolution or the Court shall make an order for the liquidation of its affairs, or a Receiver or Manager on behalf of the debentures holders shall be appointed or circumstances shall arise which entitle the court or debentures holders to appoint a Receiver or Manager OR.
- c) Assigns, transfers, sub-lets or attempts to assign, transfer or sub-let any portion of the work without the prior written approval of the Accepting Officer. OR
- d) Shall suffer an execution being levied on his goods and allow it to be continued for a period of 21 days.

Whenever the Accepting Officer exercises his authority to cancel the Contract under this condition, he may complete the work by any means at the Contractor's risk and expense provided always that in the event of cost of the completion (as certified by Engineer-in-charge which is final and conclusive) being less than the contract cost, the advantage shall accrue to the BHEL and that if the cost of completion exceeds the money due to the Contractor under the contract, the Contractor shall either pay the excess amount ordered by the Engineer-in-charge or the same shall be recovered from the Contractor by other means.

Engineer-in-charge will have powers to take possessions of the site and any materials, constructional plant, implements, stores, etc, thereon and or carryout the work by any means at the risk and cost of the contractor.

In case the BHEL completes the work under the provisions of this condition the cost of such completion to be taken into account in determining the excess cost to be charged to the contractor under this Condition shall consist of the cost of materials purchased and/or labour provided by the BHEL with an addition of such percentage to cover superintendence and establishment charges as may be decided by the Project Manager/Project Engineer whose decision shall be final and conclusive.

If the contractor fails to pay the excess sum within a period of 30 days, the Engineer-in-charge shall have the right to sell any or all of the contractor's unused materials, constructional plant implements, temporary buildings, etc., and apply the proceeds of sale thereof towards the satisfaction of any sum due from the contractor under the contract and if thereafter be any balance outstanding from the contractor, it shall be recovered in accordance with the provisions of the contract.

45 Cancellation of contract in part or in full for contractor's default:

If the Contractor:

- (a) makes default in commencing the work within a reasonable time from the date of handing over of the site and continue in that state after a reasonable notice from Engineer-in-charge, OR
- (b) in the opinion of the Engineer-in-charge at any time, whether before or after the date or extended date for completion, makes default in proceeding with the work, with due diligence and continue in that state after a notice of seven days from Engineer-in-charge, OR
- (c) fails to comply with any of the terms and conditions of the contract or after 7 days notice in writing with orders properly issued there under, (OR)
- (d) fails to complete the work order and items of work individual dates for completion and clear the site on or before the date of completion or fails to achieve the progress as set out under clauses 7 of these General Conditions of Contract.

The Accepting Officer may, without prejudice to any other right or remedy which shall have accrued or shall accrue there after to B.H.E.L cancel the contract as a whole or in part thereof or only such work order or items of work in default from the contract. Whenever the Accepting Officer exercises his authority to cancel the contract as a whole or in part under this conditions he may complete the work at the Contractor's risk and cost, provided always that in the event of the cost of completion (as certified by Engineer-in-charge which is final and conclusive) being less than the contract cost the advantage shall accrue to the B.H.E.L if the cost of completion exceeds, the money due to the contractor under this contract, the contractor shall either pay the excess amount ordered by Project Manager/Engineer or the same shall be recovered from the contractor by other means.

In case the B.H.E.L completes the work or any part thereof under the provisions of this conditions the cost of such completion to be taken in to account in determining the excess cost to be charged to the contractor under this conditions shall consists of the cost of materials purchased and/or labour provided by the B.H.E.L with an addition of such percentage to cover superintendence and establishment charges as may be decided by the Project Manager/Engineer whose decision shall be final and conclusive.

If the contractor fails to pay the excess sum within a period of 30 days, the Engineer- in-charge shall have the right to sell any or all of the contractor's unused materials, constructional plant implements, temporary buildings, etc, and apply the proceeds of sale thereof towards the satisfaction of any sum due from the contractor under the contract and if thereafter be any balance outstanding from the contractor it shall be recovered in accordance with the provision of the contract.

46 Termination of Contract for Death

Without prejudice to any of the rights or remedies under this contract if the contractor dies, the accepting Officer shall have the opinion of terminating the contract without compensation to the contractor.

47 Special Powers of Determination

If at any time after the acceptance of the tender B.H.E.L shall for any reason whatsoever not require the whole or any part of the work, to be carried out the project Manager/Engineer shall give notice in writing of the fact to the Contractor who shall have no claim to any payment of compensation or otherwise howsoever on account of any profit or advantage which he might have derived from the execution of the work in full but which he did not derive in consequence of the foreclosing of the work.

He shall be paid at Contract rates, for the full amount of the work executed including such additional works, e.g. clearing of site, etc., as may be rendered necessary by the said fore closing. He shall also be allowed a reasonable payment (as decided by the Accepting Officer) for any expenses sustained on account of labour and materials collected but which could not be utilised on the work, as verified by the Engineer-in-charge. Neither shall the Contractor have any claim for compensation on account of any alterations having been made in the original specifications, drawings, designs and instructions, involving any curtailment of the work as originally contemplated.

48 Fair Wage

- a) The contractor shall pay not less than the " Fair Wage" to labourers engaged by him on the work.

"Fair Wage" means wage whether for time or piece work notified at the time of inviting tenders for the work and where such wages have not been notified the wages prescribed by the Project Manager/Engineer for the stations at which the work is done.

- b) The Contractor shall not with standing the provision of any contract to the contrary, cause to be paid a "Fair Wage" to labourers indirectly engaged on the work, including any labour engaged by the Sub- Contractors in connection with the said work, as if the labourers had been directly employed by him.
- c) In respect of labourers directly or indirectly employed on the work for the performance of the Contractors part of this Agreement, the Contractor shall comply with or cause to be complied with B.H.E.L Contractor's Labour Regulations (appended here to as Annexure „A" to these conditions) in regard to payment of wages, wage period deduction from wages, recovery of wages not paid and deductions unauthorisedly made, maintenance of wage book, wage-slips publication of scale of wage and other terms of employment inspection and submission of periodical returns and all other matters of alike nature.
- d) The Engineer-in-charge concerned shall have the right to deduct from the money due to the contractor any sum required or estimated to be required for making good the loss suffered by a worker or workers by reason of non-fulfilment of the conditions of the contract for the benefit of the workers non-payment of wages or of deductions made from his or their wages which are not justified by the terms of the contract or non- observance of the regulations.
- e) The Contractor shall be liable primarily for all payments to be made under the contract and for the observance of the Regulations aforesaid without prejudice to his right to claim indemnity from his sub-contractors.

- d) The regulations aforesaid shall be deemed to be a part of this contract and any breach thereof shall be deemed to be a breach of this Contract.

CHAPTER IV // VALUATION AND PAYMENT

49 Records and Measurements:

All items having a financial value shall be entered in the B.H.E.L Measurement Book so that a complete record is obtained of all works performed under the Contract.

Buildings, etc., priced in Schedule „A“ as a unit lumpsum will be entered by number at the unit lumpsum.

Work carried out for agreed lumpsum will be described and similarly recorded.

Lumpsum omissions will be entered for deduction. Measurement shall be restricted to that required to ascertain the financial liability of B.H.E.L under the contract.

Work which fails to be measured in detail shall be measured physically, without reference to any local custom that may obtain excepting where it may otherwise be directed in the tender documents. The measurements shall be taken jointly by any person duly authorized on the part of the BHEL and by the Contractor.

The Engineer-in-charge shall give reasonable notice in writing to the Contractor of appointment for measurement.

The Contractor shall, without extra charge, provide assistance with appliance and other things necessary for measurement.

The Contractor shall bear all the cost of measurement of his work.

Measurement shall be entered in the B.H.E.L Measurement Book and signed and dated by both parties each day at the Site on completion of measurement. If the Contractor objects to any of the measurements recorded on behalf of the B.H.E.L a note to that effect will be made in the BHEL Measurement Book or against the item or items objected to; and such note shall be signed and dated by both the parties engaged in taking the measurement.

If, as a result of such objection, it becomes necessary to re-measure the work wholly or in part, the expense of such re- measurement shall be borne by the party requiring the Measurement to be re-taken, provided that a net error is found by this remeasurement to amount to less than 5% (five percent) of the value as recorded by the first measurement. But, where the net errors amount to 5% and over of the said value, then the cost is to be borne by the other party. In any case, if the net value of errors found exceeds Rs. 500/- the expense of re- measurement is to be borne by the other party. If the Contractor's representative fails to attend when required, the Engineer-in-charge shall have power to proceed by himself to take measurement and in that case these measurements shall be accepted by the Contractor as final.

The contractor shall, once every month, submit to the Engineer-in-charge with a copy to the Civil Manager/Senior Engineer details of his claims for the work done by him up to and including the previous month which are not covered by his Contract Agreement in any of the following respects;

- a. Deviation from the items and Specifications provided in the contract documents.
- b. Extra Items/New Items of work
- c. Quantities in excess of those provided in the contract schedule.
- d. Items in respect of which rates have not been settled. He should, in addition furnish a clear certificate to the effect that the claims submitted by him as aforesaid cover all his claim and that no further claims shall be raised by him in respect of the work done up to and including the period under report.

Except where any general or detailed description of the work in quantities expressly shows to the contrary, schedule of quantities shall be deemed to have been prepared and measurements shall be taken in accordance with the procedure set forth in the schedule of rates specification notwithstanding any provision in the relevant standard method of measurement or any general or local custom. In the case of items which are not covered by the schedule of rates / specification, measurements shall be taken in accordance with relevant standard method of measurement issued by the Indian Standard Institution or as per standard engineering practice.

50 Valuation of Deviations:

Rates for deviated items of work will be fixed as follows:-

For any item of work required to be carried out after the contract has been awarded and which is not covered by Contractor's Schedule but is covered by B.H.E.L Schedule of rates the rate payable for such a fresh item will be derived from B.H.E.L Schedule by the method of proportion as follows:

- a. In the same proportion to rate in B.H.E.L Schedule of Rates as the tendered rate for the nearest analogous item of work in Contractor's schedule bears to rate for the particular analogous item of work in B.H.E.L Schedule of rates.
- b. If a single appropriate analogous item of work is not available in both Schedule (Contractor's and B.H.E.L Schedule) then the method of proportion will be applied to the nearest analogous group of items available in both the Schedules referred to i.e. in the same proportion as the total tendered cost of that particular group of items (the sum of the products of the tendered rates and the quantities for which orders are placed bears to the total cost of the same items and quantities at the B.H.E.L Schedule of Rates.
- c. If even an appropriate analogous group of items is not available in Contractor's Schedule and B.H.E.L Schedule, then the methods of proportion will be applied to all those items of the whole work, which are available in both the Schedules and for which orders have been placed on the contractor, i.e., in the same proportion as the total cost of all these items of work (the sum of the products of the tendered rates and the quantities for which orders are placed) bears to the total cost of the same items and qualities at the B.H.E.L Schedule of Rates.
- II. If any work not covered by any of the foregoing is ordered on the Contractor, the basis of payment shall be decided by the Accepting Officer whose decision shall be final and conclusive and binding on the parties.

The selection of analogous items or analogous group of items referred to above shall be done by the Engineer-in-charge. Where the rates for deviated items or new items of work can be derived by the selection of different analogous items or analogous group of items, the lowest of all such derived rates shall be taken as the correct rate.

In the case of the contracts for which the Engineer-in-charge is the Accepting Officer, all disputes regarding the settlement of rates of deviated or new items or work shall be referred to the Deputy Manager/Manager whose decision shall be final and conclusive as the case may be.

51 Reimbursement / Refund on Variation in Price, Materials:

If after submission of the tender and/or during the progress of the works, the price of any material (not being a material supplied from the B.H.E.L store in accordance with the Conditions of the Contract) is increased or decreased by an Act of Legislature (Central or State) and/or any notification there under or on account of new duties or levies such as octroi or on account of increase or decrease in such duties affecting the price of materials required for incorporation in the works and made from materials of which the price has increased or decreased as aforesaid and the Contractor has thereupon to pay in respect of such material or item a price which is higher or lower than the price of that material or item as prevailing immediately before the passing of such Act or levying, increasing/ decreasing of such duty, the B.H.E.L shall incase of increase in price or the duty reimbursed to the contractor and incase of decrease in price, the B.H.E.L shall be entitled to a refund of the reduction price or the reduction in duty. Provided, however no reimbursement or refund shall be made if the increase/decrease is not more than 10% of the said price, and if so, the reimbursement or refund shall be made only on the excess over 10% provided always that any such increase shall not be payable if, in the opinion of the Deputy General Manager/Manager (whose decision shall be final and conclusive) the increase is attributable to the delay in the execution of the contract within the control of the contractor or that any such increase has become operative after the contracted/or extended date of completion of the work or items of work in question.

The Contractor shall, for the purpose of this condition, keep such books of account and other documents as are necessary to show the amount of any increase claimed or any reduction available and shall allow inspection of the same by any duly authorized representative of the B.H.E.L and further shall at the request of the Engineer-in-charge furnish for verification such other information of the Engineer-in-charge may require.

The Contractor shall within a reasonable time of his becoming, aware of any alteration in the prices of any such materials, give notice thereof in writing to the Engineer-in-charge stating that the rate is submitted in pursuance to this condition together with all information relating thereto which he may be in a position to supply.

52 Advances on Account:

No payment shall be made for work estimated to cost less than Rupees FIVE THOUSAND till the whole of the work shall have been completed and a certificate of completion given by the Competent Authority.

In the case of work estimated to cost more than Rupees FIVE THOUSAND the contractor may at intervals of not less than one month or as otherwise provided for in the Contract Documents, counting from the date on which order to commence work is given by Engineer-in-charge submit claims on B.H.E.L forms for payment of advances on account of work done and of materials delivered in connection with the Contract.

The contractor shall be paid in respect of such claims to the extent approved and passed by the Engineer-in-charge subject a maximum of 90% of the value of the work actually executed to the satisfaction of the Engineer-in-charge. The certificate of the Engineer-in-charge regarding such approval and passing of the sums so payable shall be final and conclusive against the Contractor.

"After the full amount of Security Deposit is made up through the 10% deduction from On account" bills, 100% payment of all subsequent bills may be made to the Contractor.

The Contractor may also be paid during the progress of the work 75% of the value of any materials which are in the opinion of the Engineer-in-charge in accordance with the Contract, and are actually required for incorporation in the work and which have reasonably been brought to the site in connection therewith and are adequately stored and / or protected against damage by weather or other causes, but which have not at the time of payment of the advance been incorporated in the

work on furnishing a formal hypothecation deed. Payment of such advances, however, shall be purely at the discretion of the Deputy Manager/Senior Engineer provided always that payments shall not be made under these periodical certificates in respect of perishable materials like lime, cement, timber, sand, kankar, etc., Any sums/due from the Contractor on account of Tools and Plant, Stores or any other items provided by B.H.E.L shall be deducted from the respective advances, the Engineer-in-charge shall from time to time certify the sums payable to the contractor after retaining the reserves.

Any certificate relating to work done or materials delivered may be modified or corrected by any subsequent interim certificate or by the final certificate and no certificate of the Engineer-in-charge supporting an advance payment shall itself be conclusive evidence that any work or materials to which it relates are in accordance with the contract. All such intermediate payments shall be regarded as advances against the final payment only and shall not be considered as an admission of the due performance of the contract or any part thereof in any respect or the accruing of any claim whatsoever.

Such intermediate payment shall not conclude, determine or affect in any way the powers of the Engineer-in-charge as to the final settlement and adjustment of the accounts or otherwise, or in any way vary or affect the contract.

53 Final Bill

As soon as possible after the completion of the work to the satisfaction of the Engineer-in-charge, the contractor shall forward a certified final account on BHEL form, in duplicate.

It shall be accompanied by all abstracts, vouchers etc., in support thereof and shall be prepared in the manner prescribed by the Engineer-in-charge.

No claims will be entertained after the receipt of the final bill.

The Contractor shall be entitled to be paid the final sum less the value of payments already made on account subject to certification of the final bill by the Engineer-in-charge. Any sums due from the contractor on account of Tools & Plant, Stores or any other items provided by BHEL not yet recovered from the contractor shall be deducted from the final sum aforesaid.

No charge shall be allowed to the Contractor on account of the preparation of the final bill.

54 Payment of Bills

All payment to be made to the Contractor under this contract shall be by "Crossed Cheque" marked „A/C payee only (Within a reasonable time after the Certification by the Engineer-in-charge). Necessary deductions shall be done like TDS, WCT tax etc at the standard rates applicable on time as per the rules, regulations and ACTs of Governments. Payments can be done by electronic Fund Transfer Mode too.

55 Recovery from Contractor:

Whenever under the contract any sum of money shall be recoverable from or payable by the contractor the same may be deducted from any sum then due or which at any time thereafter may become due to the Contractor under the contract or under any other Contract with BHEL or from his Security Deposit or he shall pay the claim on demand.

56 Post Technical Audit of Work and Bills:

BHEL reserves the right to carry out a post-payment audit and technical examination of the work and final bill including all supporting vouchers, abstracts etc., and to enforce recovery of any sums becoming due as a result thereof in the manner provided in the preceding sub-paragraphs provided however that no such recovery shall be enforced after three years of passing the final bill.

57 Refund of Security Deposit:

50% of the Security Deposit mentioned in condition 16 above, may be refunded to the contractor in respect of all contracts on completion of work and after payment of final bill and the balance 50% on expiry of the maintenance period, (described under clause 23) provided the contractor shall have rendered a "No-Demand" Certificate. In case of works where maintenance period is not involved 100% of the Security Deposit may be refunded after payment of final bill provided that the contractor shall have rendered a "No-Demand Certificate".

58 Arbitration:

Except where otherwise provided for in the contract all questions and disputes relating to the meaning of the specifications, designs, drawings and instructions hereinbefore mentioned and as to the quality of workmanship or materials used on the work or as to any other question, claim, right, matter or thing whatsoever in any way arising out of or relating to the contract, designs, drawings, specifications, estimates, instructions, orders or these conditions or otherwise concerning the work or failure to execute the same whether arising during the progress of the work or after the completion or abandonment thereof shall be referred to the sole arbitration of the Executive Director / General Manager of BHEL and if ED is unable or unwilling to act, to the sole arbitration of some other person appointed by the ED / General Manager, willing to act as such arbitrator. The cases referred to arbitration shall be other than those for which the decision of the Manager / Senior Engineer / Engineer-in-charge is expressed in the contract to be final and conclusive. There will be no objection if the arbitrator so appointed is an employee of B.H.E.L and that he had to deal with the matters to which the contract relates and that in the course of his duties as such he had expressed views on all or any of the matters in dispute or difference.

The arbitrator to whom the matter is originally referred being transferred or vacating his office or being unable to act for any reason, such Executive Director / General Manager as aforesaid at the time of such transfer, vacation of office or inability to act, shall appoint another person to act as arbitrator in accordance with the terms of the contract. Such person shall be entitled to proceed with the reference from the stage at which it was left by his predecessor.

Subject as aforesaid the provision of the Arbitration & Reconciliation Act, 1996 or any statutory modification or re-enactment thereof and the rules made there under and for the time being in force shall apply to the arbitration proceeding under this clause.

It is a term of the contract that the party involving arbitration shall specify the dispute or disputes to be referred to arbitration under this clause together with the amount or amounts claimed in respect of each such dispute.

The arbitrator(s) may from time to time with consent of the parties enlarge the time for making and publishing the award.

The work under the Contract shall, if reasonably possible, continue, during the arbitration proceedings and no payment due or payable, to the Contractor shall be withheld on account of such proceeding.

The Arbitrator shall be deemed to have entered on the reference on the date he issues notice to both the Parties fixing the date of first hearings.

The arbitrator shall give a separate award in respect of each dispute or difference referred to him.

The venue of arbitration shall be such place as may be fixed by the Arbitrator in his sole discretion.

The award of the arbitrator shall be final, conclusive and binding on all parties to this contract.

In the event of disputes or differences arising between one public sector enterprise and a Govt. Department or between two public sector enterprises the above stipulations shall not apply the provisions of BPE office memorandum No. BPE/CL 001/ 76MAN / 2 (1.10) 75-BPE (GM-1) dated 1st January 1976 or its amendments for arbitration shall be applicable.

SIGNATURE OF TENDERER

ACCEPTING OFFICER (BHEL)

ANNEXURE 'A'

1.0 B.H.E.L CONTRACTOR'S LABOUR REGULATIONS

(See condition 20 CHAPTER III OF GCC)

1 Definition:

In these regulations, unless otherwise expressed or indicated, the following words and expressions shall have the meaning hereby assigned to them.

- a) "Labour" means workers employed by a contractor directly, or indirectly through a sub-contractor, or by an agent on his behalf on a payment not exceeding Rs.500 per month.
- b) "Fair Wage" means wages, which shall include wages for weekly day of rest and other allowances, whether for time or piece work, after taking into consideration prevailing market rates for similar employments in the neighborhood but shall not be less than the minimum rates of wages fixed under the minimum Wages Act.
- c) "Contractor" for the purpose of these Regulations shall include an agent or Sub-Contractor employing labour on the work taken on contract.
- d) "Inspecting Officer" means any Labour Enforcement Officer, or Assistant Labour Commissioners of the Chief Labour Commissioner's Organisation.
- e) "Form" means a form appended to these Regulations.

2 Notice of Commencement :

The Contractor shall, within SEVEN DAYS of commencement of the work, furnish in writing to the Inspecting Officer of the area concerned the following information with copy to the Engineer-in-charge.

- a) Name and situation of the work.
- b) Contractor's name and address.
- c) Particulars of the Department for which the work is undertaken.
- d) Name and address of sub-contractors as and when they are appointed
- e) Commencement and probable duration of the work
- f) Number of workers employed and likely to be employed,
- g), Fair wages" for different categories of workers.

3 Number of hours which shall constitute a normal working day:

- i) The number of hours which shall constitute a normal working day for an adult shall be NINE hours. The working day of an adult worker shall be so arranged that of intervals, if any, for rest it shall not spread over more than twelve hours on any day. When an adult worker is made to work for more than NINE hours on any day or for more than FORTY EIGHT hours in any week he shall in respect of overtime work, be paid wages at double the ordinary rate of wages.
- ii) Weekly day of rest: Every worker shall be given a weekly day of rest which shall be fixed and notified atleast TEN days in advance. A worker shall not be required or allowed to work on the weekly rest day unless he has or will have a substituted rest day, on one of five days immediately before or after the rest day. Provided that no substitution shall be made which will result in the worker working for more than ten days consecutively without a rest day for a whole day.

Where in accordance with the foregoing provisions a worker works on the rest day and has been given a substituted rest day he shall be paid wages for the work done on the weekly rest day at the overtime rate of wages.

NOTE: The expression 'Ordinary rate of wages' means the fair wage the worker is entitled to.

SIGNATURE OF TENDERER

ACCEPTING OFFICER (BHEL)

4 Display of Notice Regarding Wages, Weekly Day of Rest, Etc.:

The Contractor shall before he commences his work on contract display and correctly maintain and continue to display and correctly maintain in clean and legible condition in conspicuous places on the works, notice in English and in the local Indian languages, spoken by majority of workers, given the rate of fair wages, the hours of work for which such wages are payable, the weekly rest days workers are entitled to and name and address of the Inspecting Officer. The Contractor shall send a copy each of such notices to the Inspecting Officers and the Engineer-in-charge.

5 Fixation of Wage Periods:

The Contractor shall fix wage periods in respect of which wages shall be payable . No wage period shall normally exceed one week.

6 Payment of Wages:

- (i) Wages due to every worker shall be paid to him direct. All wages shall be paid in current coins or currency or in both.

Wages of every worker employed on the contract shall be paid where the wage period is one week, within, THREE DAYS from the end of the wage period, and in any other case before the expiry of the 7th day or 10th day from the end of the wage period according as number of workers does not exceed 1,000.

- (ii) When employment of any worker is terminated by or on behalf of the contractor, the wages earned by him shall be paid before expiry of the day succeeding the one on which his employment is terminated.
- (iii) Payment of wages shall be made at the work site on a working day except when the work is completed before expiry of the wage period, in which case final payment shall be made at the work site within 48 hours of the last working day and during normal working time.

NOTE: The term "Working Day" means a day on which the work on which labour is employed is in progress.

7 Register of Workmen :

A register of workmen shall be maintained in the form appended to these regulations and kept at the work site or as near to it as possible, and the relevant particulars of every workmen shall be entered therein within THREE days of his employment.

8 Employment Card:

The Contractor shall issue an employment card in the Form appended to these regulations to each worker on the day of work or entry into his employment. If a worker has already any such card with him issued by the previous employer the contractor shall merely endorse that Employment Card with relevant entries. On termination of employment the Employment Card shall again be endorsed by the Contractor and returned to the worker.

9 Register of Wages etc., :

- (i) A register of Wages-cum-Muster Roll in the Form appended to these regulations shall be maintained and kept at the work site or as near to it as possible.
- (ii) A wage slip in the form appended to these regulations shall be issued to every worker employed by the Contractor atleast a day prior to disbursement of wages.

10 Fines and Deductions which may be made from wages:

- (i) Wages of worker shall be paid to him without any deductions of any kind except the following:
- a. Fines;

- b. Deductions for absence from duty, i.e., from the place or the places where by the terms of his employment he is required to work. The amount of deduction shall be in proportion to the period for which he was absent.
- c. Deduction for damage to or loss of goods expressly entrusted to the employed person for custody, or for loss of money which he is required to account for, where such damage or loss is directly attributable to his neglect or default;
- d. Deductions for recovery of advances or for adjustment of overpayment of a wages. Advance granted shall be entered in a register;
and
- e. Any other deduction, which the B.H.E.L may from time to allow.
- ii. No fines shall be imposed on a worker save in respect of such acts and omissions on his part as have been approved by the Chief Labour Commissioner.
- iii. No fines shall be imposed on a worker and no deductions for damage or loss shall be made from wages until the worker has been given an opportunity of showing cause against such fines or deductions.
- iv. The total amount of fines which may be imposed in any one wage period on a worker shall not exceed an amount equal to three paise in rupee of the wages payable to him in respect of that wage period.
- v. No fine imposed on a worker shall be recovered from him in instalments, or after expiry of sixty days from the date on which it was imposed. Every fine shall deemed to have been imposed on the day of the act or omission in respect of which it was imposed.
- vi. The Contractor shall maintain both in English and the local Indian language a list, approved by the Chief Labour Commissioner, clearly stating the acts and omissions for which penalty or fine may be imposed on a workman and display it in good condition in a conspicuous place on the work site.
- vii. The Contractor shall maintain a register of fines and the register of deductions for damage or loss in the Forms appended to these regulations which should be kept at the place of work.

11 Register of Accidents :

The Contractor shall maintain a register of accidents in such form as may be convenient at the work place but the same shall include the following particulars:

- a. Full particulars of the labourers who met with the accident.
- b. Rates of Wages.
- c. Sex
- d. Age
- e. Nature of accident and cause of accident.
- f. Time and date of accident.
- g. Date and time when admitted in hospital.
- h. Date of discharge from the hospital.
- i. Period of treatment and result of treatment.
- j. Percentage of loss of earning capacity and disability as assessed by Medical Officer.
- k. Claim required to be paid under Workmen's Compensation Act.
- l. Date of payment of compensation.
- m. Amount paid with details of the person to whom the same was paid.
- n. Authority by whom the compensation was assessed.
- o. Remarks.

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ACCEPTING OFFICER (BHEL)

12 Preservation of Registers

The Register of Wages-cum-Muster Roll required to be maintained under these Regulations shall be preserved for 3 years after the date on which last entry is made therein.

13 Enforcement

The Inspecting Officer shall either on his own motion or on a complaint received by him carry out investigations, and send a report to the Engineer-in-charge specifying the amounts representing workers, dues and amount of penalty to be imposed on the contractor for breach of these Regulations, that have to be recovered from the contractor, indicating full details of the recoveries proposed and the reasons therefore. It shall be obligatory on the part of the Engineer-in-Charge on receipt of such a report to deduct such amounts from payments due to the contractor.

14 Disposal of amounts recovered from the Contractor :

The Engineer-in-charge shall arrange payment to workers concerned within FORTY FIVE days from receipt of a report from the Inspecting Officer except in cases where the contractor had made an appeal under Regulation, 16 of these Regulations. In cases where there is an appeal, payments of workers, due would be arranged by the Engineer-in-charge, wherever such payments arise, within THIRTY days from the date of receipt of the decision of the Regional Labour Commissioner (R.L.C.).

15 Welfare Fund:

All money that are recovered by the Engineer-in-charge by way of workers, due which could not be disbursed to workers within the time-limit prescribed above, due to reasons such as where-about of workers not being known, death of a worker, etc., and also amounts recovered as penalty, shall be credited to a fund to be kept under the custody of B.H.E.L for such benefit and welfare of workmen employed by contractors.

16 Appeal against decision of Inspecting Officer :

Any person aggrieved by a decision of the Inspecting Officer may appeal against such decision to the Regional Labour Commissioner concerned within THIRTY days from the date of the decision, forwarding simultaneously a copy of his appeal to the Engineer-in-charge. The decision of the Regional Labour Commissioner shall be final and binding upon the Contractor and the workmen.

17 Representation of Parties:

- i. A workman shall be entitled to be represented in any investigation or enquiry under these Regulations by an Officer of a registered trade union of which the said trade union is affiliated or where the workman is not a member of any registered trade union, by an Officer of a registered trade union connected with, or any other workmen employed in the industry in which the worker is employed.
- ii. A Contractor shall be entitled to be represented in any investigation or enquiry under these Regulations by an officer of an association of contractors of which he is a member or by an officer of a Federation of Associations of Contractors to which the said association is affiliated or where the contractor is not a member of any association of employers, connected with, or by any other employer engaged in the industry in which the contractor is engaged.
- iii. No party shall be entitled to be represented by a legal practitioner in any investigation or enquiry under these Regulations.

18 Inspection of Books and other Documents:

The Contractor shall allow inspection of the Register and other documents prescribed under these Regulations by Inspecting Officer and the Engineer-in-charge or his authorized representative at any time and by the worker or his agent on receipt of due notice at a convenient time.

19 Interpretation etc.

On any question as to the application, interpretation or effect of the Regulations the decision of the Chief Labour Commissioner or Deputy Chief Labour Commissioner (Central) shall be final and binding.

20 Amendments:

Central Government may, from time to time, add to or amend the Contractor's Labour Regulations and issue such directions as it may consider necessary for the proper implementation of the Contractor's Labour Regulations or for the purpose of removing any difficulty which may arise in the administration thereof, based on which the B.H.E.L., Contractor's Labour Regulations herein contained shall be subject to revision.

2.0 MODEL RULES FOR LABOUR WELFARE

(See condition 20 CHAPTER III OF GCC)

1 Definition:

- (a) „Workplace“ means a place at which, on an average, twenty or more workers are employed.
 - (b) „Large Workplace“ means a place at which on an average, 500 or more workers are employed.
- 2 First Aid: At every workplace, there shall be maintained in a readily accessible place first-aid appliances including an adequate supply of sterilized dressings and sterilized cotton wool as prescribed in the Factory Rules of the State in which the work is carried on. The appliances shall be kept in good order
 - 3 and, in large work places, they shall be placed under the charge of a responsible person who shall be readily available during working hours.
 - 4 At large workplaces, where hospital facilities are not available within easy distance of the works First Aid posts shall be established and be run by a trained compounder.
 - 5 Where large workplaces are remotely situated and far away from regular hospitals an indoor ward shall be provided with one bed for every 250 employees.
 - 6 Where large workplaces are situated in cities, towns or in their suburbs and no beds are considered necessary owing to proximity of city or town hospitals, suitable transport shall be provided to facilitate removal of urgent cases to these hospitals. At other workplaces, some conveyance facilities shall be kept readily available to take injured person or persons suddenly taken seriously ill, to the nearest hospital.
 - 7 At large workplaces there shall be provided and maintained an ambulance room of the prescribed sizes, containing the prescribed equipment and in the in- charge of such medical and nursing staff as may be prescribed. For this purpose the relevant provisions of the Factory Rules of the State Government of the area where the work is carried on may be taken as the prescribed standard.
 - 8 Accommodation for Labour: The Contractor shall during the progress of the works provide, erect and maintain necessary temporary living accommodation and ancillary facilities for labour at his own expense and to standards and scales as approved by the Engineer-in-charge.
 - 9 Drinking Water: In every workplace, there shall be provided and maintained at suitable places, easily accessible to labour, a sufficient supply of cold water fit for drinking.

- 10 Where drinking water is obtained from an intermittent public water supply each workplace shall be provided with storage where drinking water shall be stored. Every water supply storage shall be at a distance of not less than 15 meters from any latrine drain or other source of pollution. Where water has to be drawn from an existing well, which is within such proximity of latrine drain or any other source of pollution, the well shall be properly chlorinated before water is drawn from it for drinking. All such wells shall be entirely closed in and be provided with a trap door which shall be dust and water-proof.
- 11 A reliable pump shall be fitted to each covered well, the trap door shall be kept locked and opened only for cleaning or inspection which shall be done at least once a month.
- 12 Washing and Bathing places: Adequate washing and bathing places shall be provided separately for men and women. Such places shall be kept in clean and drained condition.
- 13 Scale of Accommodation in Latrines and Urinals: These shall be provided within the precincts of every workplace latrines and urinals in an accessible place, and the accommodation, separately for each of these, shall not be less than at the following scales:
 - a) Where number of persons does not exceed 50 2
 - b) Where number of persons exceed 50 but does not exceed 100 3
 - c) For additional persons 3

Per 100 or part thereof. In particular cases, the Engineer-in-charge shall have the power to increase the requirement, where necessary.
- 14 Latrines and Urinals: Except in workplaces provided with water flushed latrines connected with a waterborne sewage system, all latrines shall be provided with receptacles on dry-earth system which shall be cleaned at least four times daily and at least twice during working hours and kept in a strictly sanitary condition. Receptacles shall be tarred inside and outside at least once a year.
- 15 If women are employed, separate latrine and urinals, screened from those for men and marked in the vernacular in conspicuous letters "For Women only" shall be provided on the scale laid down in rule Those for men shall be similarly marked "For Men only" A poster showing the figure of a man and of a woman shall also be exhibited at the entrance to latrines for each sex. There shall be adequate supply of water close to latrines and urinals.
- 16 Construction of Latrines: Inside walls shall be constructed of masonry or other non-absorbent material and shall be cement-washed inside and outside at least once a year. The dates of cement washing shall be noted in a register maintained for the purpose and kept available for inspection. Latrines shall have at least thatched roof.
- 17 Disposal of Excreta: Unless otherwise arranged for by the local sanitary authority, arrangement for proper disposal of excreta by incineration at the workplace shall be made by means of a suitable incinerator approved by the local medical health and municipal or cantonment authorities. Alternatively local excreta may be disposed off by putting a layer of night soil at the Bottom of pucca tank prepared for the purpose and covering it with a 15 cm. layer of waste or refuse and then covering it with a layer of earth for a fortnight (when it will turn into manure).
- 18 The contractor shall, at his own expenses, carry out all instruction issued to him by the Engineer-in-charge to effect proper disposal of soil and other conservancy work in respect of Contractor's work-people or employees on the Site. The Contractor shall be responsible for payment of any charges which may be levied by municipal or cantonment authority for execution of such work on his behalf.

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ACCEPTING OFFICER (BHEL)

- 19 Provision of shelters during rest: At every workplace there shall be provided, free of cost, four suitable sheds, two for meals and two others for rest, separately for use of men and women labour. Height of each shelter shall not be less than 3 meters from floor level to lowest part of roof. Sheds shall be kept clean and space provided shall be on the basis of at least 0.5 sq.m. per head.
- 20 Crèches: At a place at which 20 or more women workers are ordinarily employed, there shall be provided at least one hut for use of children under the age of 6 years of such women. Huts shall not be constructed to a standard lower than that of thatched roof, mud floor and walls with wooden planks spread over mud floor and covered with matting.
- 21 Huts shall be provided with suitable and sufficient openings, for light and ventilation. There shall be adequate provision of sweepers to keep the places clean. There shall be two „dais“ in attendance. Sanitary utensils shall be provided to the satisfaction of local medical, health and municipal or cantonment authorities. Use of huts shall be restricted to children, their attendants and mothers of children.
- 22 When the number of women workers is more than 25 but less than 50, the Contractor shall provide at least one hut and one Dais to look after children of women workers.
- 23 Size of crèche (s) shall vary according to the number of women workers employed. Creche(s) shall be properly maintained and necessary equipment like toys, etc. provided.
- 24 Canteen: A cooked food canteen on a moderate scale shall be provided for the benefit of workers wherever it is considered necessary.
- 25 Planning, setting and erection of the above mentioned structures shall be approved by the Engineer-in-charge, and the whole of such temporary accommodation shall at all times during the progress of the works be kept tidy and in a clean and sanitary condition to the satisfaction of the Engineer-in- Charge and at the Contractor“s expense. The Contractor shall conform generally to sanitary requirements of local medical, health and municipal or cantonment authorities and at all times adopt such precautions as may be necessary to prevent soil pollution of the site.
- 26 On completion of the works the whole of such temporary structures shall be cleared away, all rubbish burnt, excreta or other disposal pits or trenches filled in and effectively sealed off and the whole of site left clean and tidy to the entire satisfaction of the Engineer-in-Charge, and at the Contractor“s expenses.
- 27 Anti-malarial precautions: The Contractor shall, at his own expense, conform to all anti-malarial instructions given to him by the Engineer-in-charge, including filling up of any borrow pits which may have been dug by him.
- 28 Enforcement: The Inspecting Officer mentioned in the Contractors Labour Regulations or any other officer nominated in his behalf by the Engineer-in- Charge shall report to the Engineer-in-Charge all cases of failure on the part of the Contractor and or his sub-contractors to comply with the provisions of these Rules either wholly or in part and the Engineer-in-Charge shall impose such fines and other penalties as are prescribed in the conditions.

3.0 TERMS AND CONDITIONS REGARDING COMPLIANCE WITH LABOUR LAWS

- 1 The Contractor shall not employ in connection with the work any person who has not completed 18 years of age.
- 2 The Contractor shall in respect of labour employed by him either directly or through subcontractors, comply with or cause to be complied with the following statutory provisions and rules and in regard to all matters provided therein.
 - a) The Contract Labour (Regulation & Abolition) Act 1970 and the related Punjab State Rules.
 - b) The Minimum Wages Act 1948 and the related Punjab state Rules.
 - c) The Payment of Wages Act 1936 and the related Punjab State Rules.
 - d) The Factories Act 1948 and the related Punjab State Rules.
 - e) The Employee's Provident Fund & Miscellaneous Provisions Act 1952.
 - f) The Employees State Insurance Act 1948.
 - g) The Workmen Compensation Act 1923.
 - h) The Industrial Disputes Act 1947.

and any other law or modifications to the above or to the Rules made thereunder from time to time.

REGISTRATION AND LICENSING

- 3 Every Contractor shall inform to Human resource Department of BHEL before taking up the work awarded to him by giving the following information :
 - a) The Name of the Contractor
 - b) Nature of Contract Work
 - c) Period of work
 - d) Number of maximum labour employed by him on any one day
 - e) License No. & Date (Applicable in case of contractor employing 20 or more workers)
 - f) Whether enrolled for PF, ESI, etc., and enrolment No.

This information is called for, for the purpose of informing the Inspectorate of Factories whenever they call for information regarding contracts.

- 4 The Contractor employing 20 or more workmen is required to obtain license from the authorities (The Deputy Chief Inspector of Factories / Assistant Commissioner of Labour as the case may be). The license shall be amended and / or renewed wherever, there is an increase in the workmen employed by him or in the event of contract being extended or renewed. The Contractor shall inform the licence number to the BHEL Management before taking up the work.
- 5 The Contractor (Licensed or unlicensed) shall promptly furnish every information and document required by BHEL authorities for the purpose of fulfilling their obligations as Principal Employer and / or Occupier of the Factory and shall render all necessary assistance for the same.

WAGES

- 6 The Contractor shall pay wages to the workmen employed by him at the rate which shall not be less than the minimum wages applicable under Law from time to time.
- 7 The Contractor shall fix wage periods in respect of which wages shall be payable. No wage period shall exceed one month.

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ACCEPTING OFFICER (BHEL)

- 8 The Contractor shall ensure payment of wages to the contract labour employed by him within three days from the end of wage period in case the wage period is one week or a fortnight and in all other cases before 10th day of the following month.
- 9 All Payment of wages shall be made on working days at the work site and during the working time and on date notified in advance. In case the work is completed before the expiry of the wage period final payment shall be made within 48 hours of the last working day.
- 10 Where the employment of any worker is terminated by or on behalf of the Contractor, the wages earned by him shall be paid before the expiry of the second working day from the day on which his employment is terminated.
- 11 Wages due to every worker shall be paid to him direct or to the person authorized by him in this behalf. All wages shall be paid in current coin or currency in both.
- 12 The Contractor shall ensure the disbursement of wages in the presence of such authorized representative of BHEL Management.
- 13 The above payment shall be verified by the authorized officer / representative of BHEL with the following certificate of the payment sheet "Certified that the amount shown in Column No..... has been paid to the workmen concerned in my presence onat....."
- 14 A certificate of payment shall be furnished in duplicate by the Contractor to the Engineer in charge each month.
- 15 A notice showing the wage period and the place and time of disbursement of wages shall be displayed at the place of work and a copy to be sent to the HR Department by the Contractor under acknowledgement.
- 16 Notices showing the rate of wages, weekly rest days, hours of work, wage period, date of payment of wages, names and addresses of the Inspector having jurisdiction, the date of unpaid wages shall be displayed in Punjabi and Hindi and English in conspicuous places at the establishment and at work site by the Contractor. The Contractor shall inform the BHEL Management every month the details of contract labour engaged for contract in this following form :
 - a) Serial Number
 - b) Location
 - c) Period of work
 - d) No. of contract labour engaged during the month
 - e) No. of days worked and No. of men worked
 - f) Wages paid to workersThe above statement shall be furnished to BHEL Management at the end of every month.
- 17 The Contractor shall display the abstract of the Contract Labour (Regulation&Abolition) Act and the Rules thereunder both in English and PUNJABI and Hindi.
- 18 Half yearly Return shall be sent by the Contractor in duplicate to the Licensing Officer.
- 19 The Contractor shall submit the returns required under the Contract Labour (Regulation & Abolition) Act 1970 periodically to BHEL Management.
- 20 The Contractor shall without fail give upto date information in writing of the attendance of the workers employed by him.
- 21 The Contractor shall ensure that his workers keep and produce their Employment Card when coming to duty and take them back when leaving duty.
- 22 All the above registers and records shall be preserved in original for a period of three years. All the registers, records and notice maintained under the Act and rules shall be produced on demand by Inspector or any authority under the Act.

SIGNATURE OF TENDERER

ACCEPTING OFFICER (BHEL)

WORKING HOURS AND WORKING CONDITIONS

- 23 No worker shall be required or allowed to work on Sunday unless he has or will have a holiday on anyone of the three days before or after the said day.
- 24 The Contractor shall inform BHEL Management in the prescribed form details of the contract workers scheduled to work on Sunday, the day of rest and also indicate the substituted holiday in lieu thereof. This shall be intimated two days in advance before his workmen are booked for work on Sunday.
- 25 The contract labour working for more than nine hours in any day or for more than 48 hours in any week shall be paid wages at the rate of twice the ordinary rate of wages in accordance with the provisions of Sections 59 of the Factories Act 1948.
- 26 The Contractor shall ensure that his workers keep and produce their Employment Card when coming to duty and take them back when leaving duty.
- 27 The Contractor shall give four paid National Holidays to his workers, viz., 26th January, 1st May, 15th August and 2nd October.
- 28 The Contractor shall ensure that his workmen vacate the premises after the shift is over.
- 29 The Contractor shall give leave with wages to his workmen who have worked for a period of 240 days or more in the Factory premises during a calendar year. This leave shall be allowed during the subsequent calendar year at the rate of one day for every 20 days of work performed by the worker during the previous calendar year. The worker whose services commences on a day other than the first of January shall be entitled to leave with wages at the above rate (One day for every 20 days of work) only if he had worked for a minimum of 2 /3 of the total number of days in the remainder of the calendar year. This leave will be admissible only during the subsequent calendar year.
- 30 No woman worker shall be required or allowed to work in the Factory except between the hours of 6.00 A.M. and 7.00 P.M.
- 31 The Contractor shall comply with the provisions relating to Welfare and Health facilities as provided in the Contract Labour (Regulation and Abolition) Act 1970.

NOTICE OF ACCIDENTS

- 32 Notwithstanding anything contrary to this, in the event of accident the contractor shall be required to fill injury report and submit the Engineer in charge immediately and ensure the compliances of ESI / Workmen's compensation Act, Factories Act and Rules made thereunder. He shall also maintain a register of accident as per the Act. In case of any Injury /Mishappening occurred during the contract period and /Or execution of work all Liability will be borne by contractor and in no case Liability will be beared by BHEL.
- 33 The Contractor shall get the contract labour engaged by him insured under Workmen's Compensation policy from General Insurance Corporation of India before actually starting the work of contract. The insurance coverage should be for the entire period of Contract. The Contract shall comply with the provisions of the Workmen's Compensation Act 1923. (This should be read in conjunction with the provisions of ESI Act)

COVERAGE UNDER THE ESI ACT / PF AND MISCELLANEOUS PROVISIONS ACT

- 34 It shall be the responsibility of contractor to compliance with ESI/PF act .The contractor shall ensure that all his workmen are covered under the Employee's State Insurance Act and produce to BHEL such Registration Number / Enrolment Number before executing the contract work.

- 35 The Contractor shall regularly pay the amount of contribution. i.e., employer's contributions as well as employees' contribution pursuant of the above scheme as fixed from time to time. The Contribution payable presently is 1.75% wages to be recovered from his workmen and 4.75% of wages to be contributed by the Contractor. Contributions recovered from employee and contribution made by the contractor may be rounded to the next higher multiples of five paise.
- 36 The Contractor shall take note of any amendment that may be brought forth in the above contribution rate and act accordingly.
- 37 The contractor shall ensure that his workmen are covered under the EPF & Miscellaneous Provisions Act 1952 and accordingly produce to the BHEL Management the registration / enrolment number before awarding of contract work. As per the existing provisions every worker shall be entitled and required to become a member of the fund. The employee's contribution payable at present is 12% of wages which will be recovered by the contractor from the wages of his workmen and the contractor should pay equal contribution. The contractor is also liable to pay any administrative charges in this behalf that may be decided from time to time. It will be the responsibility of the contractor to ensure such contribution payable in respect of workmen employed through sub-contractors also.
- 38 The Contractor shall take note of any amendment in the rate of contribution payable under the scheme from time to time.
- 39 The Contractor shall within seven days of the close of every month submit to BHEL a statement showing the amount of contribution payable / paid for employees engaged by him or through him and shall also furnish to BHEL such information as Principal Employer is required to furnish under the provisions of the ESI Act and PF as well as the schemes made thereunder to the authorities concerned.
- 40 Whenever any sum of money is found to be recoverable from or payable by the contractor under the above Act, the sum shall be deducted from any sum that may be due or which at any time thereafter may become due to the Contractor under this contract or under any other contract or from his security deposit. In case the recoveries are not sufficient to satisfy the claim, the contractor shall pay the balance thereof on demand. In case any recoveries are made under this clause from security deposit, the contractor shall immediately thereafter pay such further sums as may be required to replenish the shortage caused by such recoveries in amount of security deposit.
- 41 The Contractor shall abide by all the labour and other laws applicable to contract labour / worker under this contract and shall at all times keep BHEL indemnified against all losses, claims, prosecutions under any law.
- 42 In case of non-compliance of any of the provisions of the Acts and in case BHEL having complied with the same, BHEL will be entitled to recover the same from the contractor / sub-contractor.
- 43 Non-exercise of any of the powers or rights available to BHEL hereunder or under any law, shall not in any way operate as waiver thereof.

4.0 B.H.E.L SAFETY CODE

(See condition 20 CHAPTER III OF GCC)

- 1 Suitable scaffolds shall be provided for workmen for all work that cannot safely be done from the ground, or from solid construction except such short period of work as can be done safely from ladders. When a ladder is used an extra mazdoor shall be engaged for holding the ladder and if the ladder is used for carrying materials as well, suitable footholds and hand-holds shall be provided on the ladder and the ladder shall be given an inclination not steeper than $\frac{1}{4}$ to 1 ($\frac{1}{4}$ horizontal and 1 vertical)
- 2 Scaffolding or staging more than 3.25 meters above the ground or floor, swung or suspended from an overhead support or erected with stationary support, shall have a guard rail properly attached, bolted, braced and otherwise secured atleast 1 meter high above the floor or platform of such scaffolding or staging and extending along the entire length of the outside and ends thereof with only such openings as may be necessary for the delivery of materials. Such scaffolding or staging shall be so fastened as to prevent it from swaying from the building or structure.
- 3 Working platform, gangways, and stairways shall be so constructed that they do not sag unduly or unequally, and if height of a platform or gangway or stairway is more than 3.25 meters above ground level or floor level, it shall be closely bordered have adequate width and be suitably fenced, as described in 2 above
- 4 Every opening in floor of a building or in a working platform shall be provided with suitable means to prevent fall of persons or materials by providing suitable fencing or railing with a minimum height of 1 meter.
- 5 Safe means of access shall be provided to all working platforms and other working places. Every ladder shall be securely fixed. No portable single ladder shall be over 9 meters in length. Width between side rails in a rung, ladder shall in no case be less than 30 cm, for ladders upto and including 3 metres in length. For longer ladders this width shall be increased by atleast 6 mm for each additional 30 cm. of length. Uniform step spacing shall not exceed 30 cm.
- 6 Adequate precautions shall be taken to prevent danger from electrical equipment. No materials on any of the sites shall be so stacked or placed as to cause danger or inconvenience to any person or the public. The Contractor shall provide all necessary fencing and lights to protect public from accidents and shall be bound to bear expenses of defence of every suit action or other proceedings at law that may be brought by any person for injury sustained owing to neglect of the above precautions, and pay any damages and costs which may be awarded in any such suit, action or proceeding to any such person or which may with the consent of the Contractor be paid to compromise any claim by any such person.
- 7 Excavation and Trenching:

All trenches, 1.5 metres or more in depth, shall at all times be supplied with atleast one ladder for each 30 m length or fraction thereof. Ladder shall be extended from bottom of trench to atleast 1 metre above surface of the ground. Sides of a trench 1.5 metres or more in depth shall be stepped back to give suitable slope or securely held by timber bracing, so as to avoid the danger of sides collapsing. Excavated materials shall not be placed within 1.5 metres of the edge of trench or half the depth of trench, whichever is more. Cutting shall be from top to bottom. Under no circumstances shall undermining or undercutting be done.
- 8 Demolition: Before any demolition work is commenced and also during the process of the work:
 - a. All roads and open areas adjacent to the work site shall either be closed or suitably protected:

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ACCEPTING OFFICER (BHEL)

- b. No electric cable or apparatus which is liable to be a source of danger over a cable or apparatus used by the operator shall remain electrically charged.
- c. All practical steps shall be taken to prevent danger to persons employed, from risk of fire or explosion, or flooding. No floor, roof, or other part of a building shall be so overloaded with debris or materials as to render it unsafe.
- 9 All necessary personal safety equipment as considered adequate by the Engineer-in-Charge shall be available for use of persons employed on the site and maintained in a condition suitable for immediate use and the Contractor shall take adequate steps to ensure proper use of equipment by those concerned.
 - a. Workers employed on mixing asphaltic materials cement and lime mortars/ concrete shall be provided with protective footwear and protective gloves.
 - b. Those engaged in handling any material which is injurious to the eye shall be provided with protective goggles.
 - c. Those engaged in welding works shall be provided with welder's protective eye-shields.
 - d. Stone breaker shall be provided with protective goggles and protective clothing and seated at sufficiently safe intervals.
 - e. When workers are employed in sewers and manholes which are in use, the
- 10 Contractor shall ensure that manhole covers are opened and manholes are ventilated atleast for an hour before workers are allowed to get into them. Manholes so opened shall be cordoned off with suitable railing and provided with warning signals or boards to prevent accident to public.
- 11 The Contractor shall not employ men below the age of 18 and women on the work of painting with products containing lead in any form. Whenever men above the age of 18 are employed on the work of lead painting, the following precautions shall be taken:
 - i. No paint containing lead or lead products shall be used except in the form of paste or ready-made paint.
 - ii. Suitable face masks shall be supplied for use by workers when paint is applied in the form of spray or a surface having lead paint is dry rubbed and scraped.
 - iii. Overalls shall be supplied by the Contractor to workmen and adequate facilities shall be provided to enable working-painters to wash during on cessation of work.
- 12 When work is done near any place where there is risk of drowning, all necessary equipment shall be provided and kept ready for use and all necessary steps taken for prompt rescue of any person in danger and adequate provision made for prompt first aid treatment of all injuries likely to be sustained during the course of the work.
- 13 Use of hoisting machine and tackles including their attachments, anchorage and supports shall conform to the following:
 - i. These shall be of good mechanical construction, sound material and adequate strength and free from defects and shall be kept in good working order.
 - ii. Every rope used in hoisting or lowering materials or as a means of suspension shall be of durable quality and adequate strength, and free from defects.
 - iii. Every crane driver or hoisting appliance operator shall be properly qualified and no person under the age of 21 years shall be in charge of any hoisting machine including any scaffolding winch or give signals to operator.

- iv In case of every hoisting machine and of every chain, ring, hook, shackle, swivel and pulley block used in hoisting or lowering or as means of suspension, safe working load shall be ascertained by adequate means. Every hoisting machine and all gear referred to above shall have the safe working load plainly marked there on, In case of a hoisting machine having a variable safe working load, each safe working load and the conditions under which it is applicable shall be clearly indicated. No part of any machine or any gear referred to above in this paragraph shall be loaded beyond the safe working load except for the purpose of testing.
- v Incase of departmental machine, safe working load shall be notified by the Engineer-in-Charge. As regards contractor's machine the Contractor shall notify safe working load of each machine to the Engineer-in-Charge whenever he brings it to site of work and get it verified by the Engineer-in-Charge.
- 14 Motors, gearing, transmission, electric wiring and other dangerous parts of hoisting appliances shall be provided with efficient safeguards; hoisting appliances shall be provided with such means as will reduce to the minimum risk of accidental descent of load. Adequate precautions shall be taken to reduce to the minimum risk of any part of a suspended load becoming accidentally displaced. When workers are employed on electrical installations which are already energized, insulating mats, working apparel such as gloves, sleeves and boots, as may be necessary shall be provided. Workers shall not wear any rings, watches carry keys or other materials which are good conductors of electricity.
- 15 All scaffolds, ladders and other safety devices mentioned or described herein shall be maintained in a safe condition and no scaffold, ladder or equipment shall be altered or removed while it is in use. Adequate washing facilities shall be provided at or near the places of work.
- 16 These safety provision shall be brought to the notice of all concerned by display on a notice board at a prominent place at the work spot. Persons responsible for ensuring compliance with the Safety Code shall be named thereon by the Contractor.
- 17 To ensure effective enforcement of the rules and regulations relating to safety precautions, arrangements made by the Contractor shall be open to inspection by the Engineer-in-Charge or his representatives and the Inspecting Officers as defined in the Contractor's Labour Regulations.
- 18 Notwithstanding the above conditions 1 to 14, the Contractor is not exempted from the operation of any other Act or Rule in force.

GENERAL SAFETY PRECAUTIONS TO BE FOLLOWED AT WORK SITE DURING EXECUTION

The following safety measures should be strictly adhered to during execution of works at sites.

- 1 Providing the working platform with toe board and handrail for continuous working at heights.
- 2 Providing safety belt and life line at all times for men working at heights.
- 3 Providing dust or fume respirator in places where dust and fume concentration exists.
- 4 Providing goggles and welding screens.
- 5 Providing acid and alkali proof rubber gloves for handling acid and alkali and chemical which are corrosive.
- 6 Providing rubber gloves for working on electrical works.
- 7 Ensuring proper lashing of the components while being transported in vehicles.
- 8 The gas cylinders must be always handled on trolleys or kept tied down not in use. They should never be rolled as Roller for conveying.
- 9 Cylinders should not be used without regulators.
- 10 All excavations must be barricaded and red lamps must be provided.
- 11 All electrical connections must be properly earthed.
- 12 No work should be taken up for execution inside shop floor, without obtaining necessary work permit.
- 13 Providing helmet, safety belt, etc., for high level work and sufficient number of Industrial Safety nets at appropriate level to safeguard the persons working at high level particularly in trusses, girders, roofing etc., of industrial and high roof buildings. **Without use of Safety Net work inside production shop will not be permitted**
- 14 All personal protective equipment conform with standard specification as per the details given in the code of conduct.
- 15 Contractor including their sub contractors, agents and labour engaged on the work are required to scrupulously adhere to the safety regulations, safety precautions and measurers. Any violation thereof will invite punitive action being taken against them. Also contractors with frequent violations of safety regulations will not be entrusted with further work in this organization.

SAFETY PRECAUTIONS TO BE OBSERVED WHILE TRANSPORTING MATERIALS IN VEHICLES

- 1 The vehicles should not be moved directly inside the production building in case the materials are to be unloaded there. But the vehicle should be parked outside the building and the driver should ascertain the passage as well as the unloading points with the help of shop officials. This will avoid the congestion of blocking of traffic in the gangway.
- 2 Vehicles carrying material should have proper registration documents and must be produced on demand by BHEL Security Staff.
- 3 The light on right side, i.e., over the drivers cabin shall be in working condition.
- 4 Both the head lights as well as park lamps must be in working conditions.
- 5 The vehicle should not travel at more than 20 km.ph in BHEL premises.
- 6 The Driver of the vehicle must possess appropriate licence and produce on demand by the BHEL Security Staff.

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- 7 Vehicles carrying inflammable liquids in the tank containers should have grounding chain or the tank should be coated with insulating material also to avoid Static Electricity.
- 8 In road junctions, speed breakers and railway crossing, the speed should be lowered and vehicle should proceed cautiously.
- 9 The vehicle should not be parked in road which could obstruct the vehicular traffic.
- 10 No person other than driver should be allowed to sit or stand on the prime mover or Vehicle.
- 11 The vehicle should pass only through the approved routes. Short cuts should be forbidden.
- 12 There must be a safe distance behind another moving Vehicle.
- 13 The driver should avoid making quick starts, jerky stops or quick turns at excessive speed.

- 14 Strong side supports should be provided on both sides of the Vehicle. The side supports should be fixed in such a way that it cannot be removed even temporarily.
- 15 Adequate packing must be given for easy slinging operation. The packing materials should be good enough to withstand the load.
- 16 The stacking of loads in the Vehicle should be evenly placed. The load should not be heaped together or dumped over the chassis.
- 17 The loaded materials should be fastened tightly with „WIRE ROPE“. Manila rope or coir rope should not at all be used. There must be side packing such as gunny or rubber tyre between the sharp edge of the job and wire rope in order to avoid cut in the wire rope.
- 18 There must be minimum two fastenings and it should be more in case of lengthier loads.
- 19 The wire rope should be in sound conditions i.e, there should not be links, knots or bristles etc.,

- 20 The wire rope ends should be clamped with „U“ clamps.
- 21 The load on the Vehicle should not be beyond its standard capacity. The carrying capacity must be clearly marked on the Vehicle also.
- 22 The loose pieces should be bundled before loading on the Vehicle.
- 23 There must be red flags or red lamps for the lengthy loads which extend beyond chassis.
- 24 The load should not be over hanging beyond the end of the body of the transporting Vehicle.
- 25 The materials should not be stacked too high to avoid hitting against live electric lines.
- 26 While transporting the scraps, there must be wire knitting cover to prevent falling of scrap.

G. TECHNICAL SPECIFICATION OF WATERPROOFING WORKS

FIVE LAYERED WATER PROOFING TREATMENT WITH ATACTIC POLYPROPYLENE POLYMER MODIFIED PREFABRICATED MEMBRANE

Atactic Polypropylene Polymer modified prefabricated five layer water proofing membrane shall be of thickness as specified. In selecting thickness of membrane due consideration shall be given to the type and construction of building, climate and atmospheric condition and permanence required. Five layered treatment 2.00 mm thick with glass fibre is with a normal duty treatment suitable for pitched roofs. Five layered 3.00 mm thick with glass fibre matt treatment is suitable for moderate condition of rainfall (50 to 150 mm) and fine layered 3.00 mm thick with non-woven polyester matt treatment is suitable for heavy condition of rainfall

Materials

Bitumen primer for bitumen membrane shall have density at 25°C in the range of 0.87 - 0.89 kg./litre and viscosity of 70-160 CPS primer shall be applied @ of 0.40 litre/sqm.

Atactic Polypropylene Polymer Modified Prefabricated Membrane: It is a polymeric water proofing membrane. This shall be one of the following types:

- (i) 2 mm thick with glass fibre matt.
- (ii) 3 mm thick glass fibre matt.
- (iii) 3 mm thick with non-woven polyester matt.

It is prefabricated five layered black finish water proofing membrane comprising of centre core of 50 gsm. Glass fibre matt/170 gsm nonwoven polyester matt sandwiched on both sides by APP polymer modified bitumen which is protected on both sides by 20 micron thermofusible polyethylene sheet. Composite thickness of the membrane including all five layers shall be 2/3 mm with glass fibre matt and 3 mm with non woven polyester matt. It is available in 1 m width and variable lengths.

Physical and chemical parameters of the membrane shall be as given in Table1.

TABLE 1.0

Sl. No.	No. of Layers	Thickness	Elongation at 23° C in longitudinal transverse direction	Joint strength in longitudinal and Transverse direction	Tear strength in longitudinal Transverse direction	Softening Point	Cold flexibility
1	2	3	4	5	6	7	8
1	Five Layered reinforced with fibre glass	2 mm	3N/5 cm.	350/300 N/5 cm.	60/80 N	150°	-2°C
2	Five layered reinforced with fibre glass	3 mm	3.3N/5 cm.	350/3000 N/5 cm.	60/80 N	150°	-3°C
3	Five layered reinforced with non-woven polyester matt.	3 mm	40/50 N/5 cm.	650 N/450 N/5 cm.	300/250 N	150°	-2°C

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When tested Atactic polypropylene modified black finished is proposed to be used shall conform in all respects to the specification in the preceding paras. The work should be got done through authorized applicator/specification agency.

Preparation of Surface: The surface to be treated shall have a minimum slope of 1 to 120. This grading shall be carried out with cement concrete or cement plaster with coarse sand, as desired, to the average thickness required and finished smooth. Such grading shall be paid for separately.

Junctions between the roof and vertical faces of parapet walls, chimneys etc. shall be chased by running triangular fillets 7.5 x 7.5 cm. size, cement concrete. At the drain mouths, the fillets shall be suitably cut back and rounded off for easy application of water proofing treatment and easy flow of water. Cement concrete where shall be 1:2:4 mix (1 Cement: 2 Coarse sand: 4 Graded stone aggregate 20 mm. Nominal size). The provision of fillets shall be deemed to be covered by the item of water proofing and shall not be measured or paid for separately.

In existing roof where gola and drip course are provided at the junction of roof and vertical face of parapet wall, chimney stacks, etc. These shall be dressed suitably and finished smooth so as to ensure an easy and gradual turning of the flashing. Any dismantlement or forming and finishing smooth the junction for forming the base of the flashing shall not be measured or paid for separately and shall be deemed to form part of the preparation of the surface.

While the grading of roof surface is being done, it shall be ensured that the outlet drain pipe have been fixed and mouth at the entrance have been eased and rounded off properly for easy flow of water. When any pipe passes through the roof to be treated, angular fillet of shape shown in shall be built around it for the water proofing treatment to be taken over it. These fillets shall not be measured or paid for separately. For carrying over and tucking in the water proofing felts into the parapet walls, chimneys stacks etc. a horizontal groove 6.5 cm. deep, 7.5 cm. wide section with its lower edge at not less than 15 cm. above the graded roof surface shall be left on the inner face of the same; during construction if possible. When such groove has not been left, the same shall be cut out neatly and the base at rear of the groove shall be finished smooth with cement plaster 1:4 (1 cement: 4 coarse sand). Such cutting of the groove and its finishing smooth shall be part of the water proofing or paid for separately. No deduction shall be made either for not making the groove or when the latter has already been left in the masonry by the construction agency. section, cleaned and filled up flush with cement mortar slurry 1:4 (1 cement : 4 coarse sand) or blown type petroleum bitumen of IS grade 85/25, or approved quality conforming to IS 702. Such cleaning of the surface or treating the cracks shall not be paid for separately.

Tucking in the water proofing felt will be required where the parapet wall exceeds 45 cm. in the height from the graded surface. Where the height is 45 cm. or less, no groove will be required as the water proofing treatment will be carried over the top of the parapet wall to its full thickness. In the case of low dividing walls of height 30 cm. or less, outlets therein shall be cut open for full height and the bottom and sides shall be rendered smooth and corners rounded and such treatment shall not be measured and paid for separately. Where expansion joints are left in the slab the provision of dwarf walls and/or RCC slabs for covering them and finishing the surface smooth shall be the responsibility of the construction agency, which had laid the roof slab and will not be included in the operation of water proofing. The graded surface of the roof and concrete fillets and the faces of walls shall be thoroughly cleaned with wire brushed and all loose scales etc. removed. The surface shall then be dusted off. Any crack in the roof shall be cut to V

To ensure good adhesion between the surface and water proofing treatment suitable method to dry the surface shall be adopted. All hair line cracks in the surface should be filled with approved sealant.

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Treatment: The water proofing shall consist of prefabricated five layered 2 mm / 3 mm membrane as shown in fig. 1. The choice of 2 mm or 3 mm membrane will depend on the type of roof i.e. pitched or flat and importance of building, durability, cost and rainfall etc.

Laying: Bitumen primer @ 0.40 lts/sqm shall be applied to the prepared roof, drain and all other surfaces where polymer modified membrane is to be laid. The five layered water proofing membrane shall be laid using Butane torch and sealing all joints and preparing the surface complete. Drain outlets shall be given same treatment as specified for the roof in the description of the item in the manner specified for the flat roof surface. Water proofing treatment shall be carried into the drain pipe or outlets by at least 10 cm. The water proofing treatment laid on the roof surface shall overlap the upper edge of the water proofing treatment in the drain outlets by at least 10 cm.

The APP polymer modified prefabricated water proofing membrane shall be cut to the required length. Water proofing membrane shall normally be laid in length in the direction of the slope and laying shall be commenced at the lowest level and worked upto crest. APP water proofing membrane shall be laid in 6 to 8 m lengths. The roof surface shall be cleaned and bitumen primer shall be applied in the correct quantity, over this specified water proofing membrane shall be laid with butane torch after allowing 24 hours for primer to dry. Each strip shall overlap the preceding one by at least 10 cm. at the longitudinal edges and 15 cm. at the ends. All overlaps shall be firmly bonded with bitumen primer and levelled by heating the overlap with butane torch.

If the roof is accessible the treatment is protected by brick tiles laid over 12 mm thick cement mortar of specified grade bedding and joints sealed with cement mortar of which shall be measured and paid for separately

APP water proofing membrane shall be laid as flashing wherever junction of vertical and horizontal surfaces occur. Longitudinal laps shall be 10 cm. The upper edge of flashing membrane shall be well tucked into the flashing grooves in the parapets, chimney stack etc. to a depth of not less than 6.5 cm; corresponding applications of primer coat shall also be made. The flashing treatment shall be firmly held in the grooves and it shall be sealed with the approved sealant after terminating the membrane.

Where parapet walls are of height 45 cm or less AP water proofing membrane flashing shall be provided in the same manner as for splashing in the core of high parapet walls except that upper edge shall be carried out the full height of the wall and taken right across the top of the parapet and down on the external vertical faces to a minimum distance of 5 cm.

Where low dividing walls or inverted beams are met with, the same treatment shall be provided as for the main roof, the lateral bearing carried down both sides of the wall and overlapping the roof treatment.

Drain outlets where formed in the low dividing walls, shall be given water proofing treatment same as for the main roof.

Where the expansion joints are provided in the slabs, the joints and their cover slabs shall be suitably treated with water proofing treatment. A typical sketch of an expansion joint with the RCC slabs on either side of the joint turned vertically up and covered with precise RCC cover slabs . The cover slabs shall cover the vertical turned up dwarf walls by not less than 7.5 cm and are provided with throatings on their underside along their length. The water proofing treatment shall be taken up the slopping junction fillets and the vertical faces of the walls to the underside of the cover slabs are given the water proofing treatment like the roof slabs, after the cross joints between adjacent cover slabs are first sealed with 15 cm. width of roofing felt struck to them with bitumen. The water proofing treatment shall be carried down the sides of the cover slabs to their full thickness. Care shall be taken to see that overlaps if any in the roofing over the cover slabs stagger with the joints between cover slabs.

The formation of the expansion joints and provision of cover slabs shall be the responsibility of construction agency. The formation of the junctions fillets and the water proofing treatment of the joint and cover slabs shall be carried out by the water proofing agency. No extra shall be paid for the junction fillets or for the sealing of the cross joints in the cover slab with 15 cm. width of bitumen strips.

Measurements: Length and breadth shall be measured correct to a cm. The area shall be calculated in square metres correct to two places of decimal.

Measurement shall be taken over the entire exposed area of roofing and flashing treatment including flashing over low parapet walls, low dividing walls and expansion joints at pipe projections etc. overlaps and tucking into flashing grooves shall not be measured.

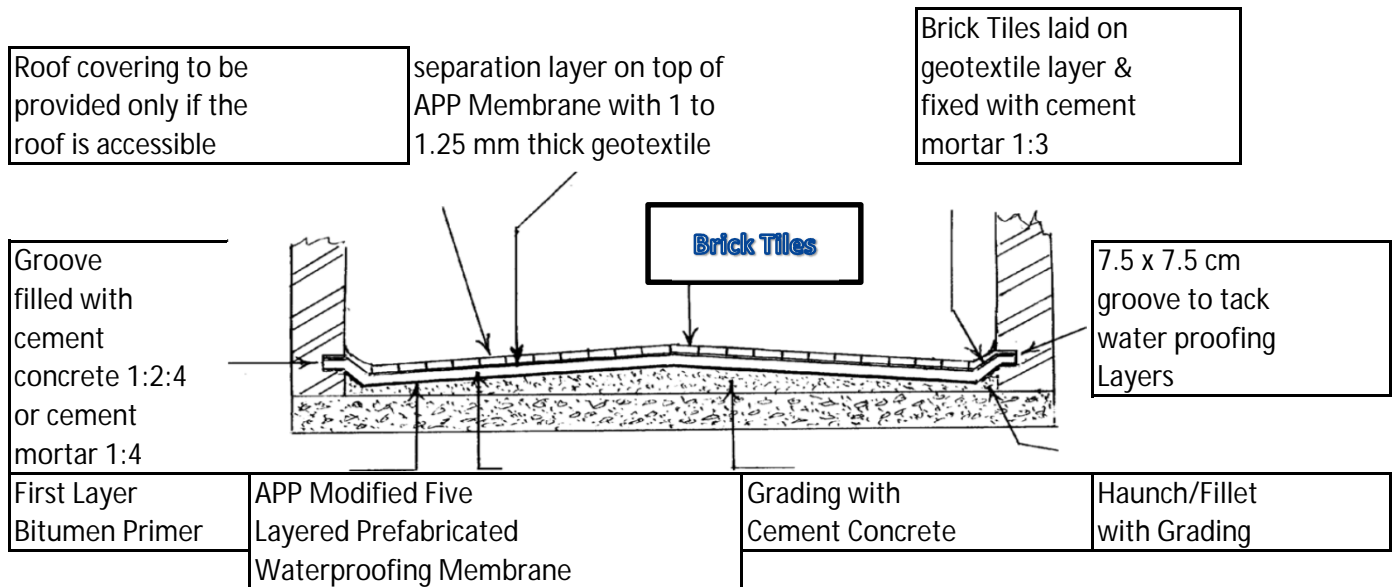


Fig. 1

Bharat Heavy Electricals Limited
Industrial Valves Plant
Goindwal, Distt. Tarn -Taran, Punjab
Department of Civil Engineering
TECHNOCOMMERCIAL BID

TENDER NOTICE NO.

04/2011-12

NAME OF WORK.

WATER PROOFING WORKS IN RESIDENTIAL BUILDINGS OF BHEL TOWNSHIP AT GOINDWAL, PUNJAB

1 Name of Tenderer : **Shri / M/s**

2 Nationality :

3 Address :

4 Telephone No. :

5 Fax No.

6 Constitution (ATTACH DOCUMENTARY EVIDENCE IN SUPPORT OF THIS INFORMATION)

Individual/ Sole proprietorship Concern

Private Ltd. Company

Partnership Firm

Public Ltd. Company

7 Place of business

8 Date of commencement of business

9 Details of Owner / Partners / Directors (Strike out whichever is not applicable) attach separate sheet if more space is required

Sl.	Name & Designation	Occupation Address	Telephone No. & Fax No.	E-mail

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ACCEPTING AUTHORITY (BHEL)

10 Name of person holding power of attorney. (Copy to be enclosed)

.....
(a) Nationality Indian Other

11 Whether enlisted with any other Department Yes No

(a) If yes, give details:

(i) Name of Department & address

(ii) Money limit

(iii) Enlistment No. & date

(iv) Valid up to

12 Is the individual/sole proprietor/any partner/ directors of company:

(a) Dismissed Government Servant Yes No

(b) Having business banned/suspended by any government in the past Yes No

(c) Convicted by a court of law Yes No

(d) Retired Engineer / Official from Engineering Departments of Govt. of India within last two years Yes No

(e) Director or partner of any other company / firm enlisted with CPWD or any other department Yes No

(f) Member of Parliament or any State Legislative Assembly If answer to any of the above is „Yes”, furnish details on a separate sheet Yes No

13 State whether Income Tax Returns filed Acknowledged by IT Office, certified Copy for Profit and Loss Account & Balance Sheet for last three Fy. years enclosed

Yes NO

14 Details of Income Tax paid during last three financial years.

2010-11

2009-10

2008-09

15 Quantum of business (Turn Over) done during last three financial years

2010-11

2009-10

2008-09

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16 Details of similar works (all civil works of builing construction & Maintenance) completed during the last seven years (from 01/04/2005 to 31/1/2012).(Detail to be submitted in separate sheet as per Annexure-II.)

Successful completion of Three similar works each of value not less than Rs. 4.65 Lakhs.	<input type="checkbox"/>	Yes	No	<input type="checkbox"/>
Successful completion of Two similar works each of value not less than Rs. 5.80 lakhs.	<input type="checkbox"/>	Yes	No	<input type="checkbox"/>
Successful completion of one similar works of value not less than Rs. 9.30 lakhs.	<input type="checkbox"/>	Yes	No	<input type="checkbox"/>

17 Detail of credential documents (work completion certificate of clients or work orders along with Final bill payment certificate by Clients) in support of work experience mentioned above .

.....

.....

.....

.....

.....

18 Required Cost of Rs. 500/- of Tender Document paid Yes No

19 Detail of DD no./ Cash Recpt. No. For Cost of tender document

20 Required EMD of Value of Rs. 40,000/- through DD attached Yes No

21 Detail of DD no. and Date

22 PAN NO.(Copy of PAN CARD is to be enclosed)

23 Sale Tax /TIN NO.(Copy of Registration is to be enclosed)

24 Service Tax Registration NO.
(Copy of Registration no. or proof for
having applied for same with
acknowledgement is to be enclosed)

.....
25 Details of Technically qualified staff available for this work (APP membrane -
Manufacturers approved Applicator for water proofing works only) (as per S/n. 35 of
special condition of contract)

Sl. No	Name of Approved Applicator who will be deputed by contractor for this work	Name of Manufacturer of APP membrane	Experience of Applicator in years	Enclose approval document.
1				
2				
3				
4				

26 The details of T & P, Machinery, Equipments required for this work and available with contractor is to be furnished below.

- | | | |
|------------------------------------|--------------------|--------------------------|
| (i) Ladders of reach upto 20 feet | Two Sets | <input type="checkbox"/> |
| | More than Two Sets | <input type="checkbox"/> |
| | Less than Two Sets | <input type="checkbox"/> |
| (ii) Butane torch | One set | <input type="checkbox"/> |
| | Less than one Set | <input type="checkbox"/> |
| (iii) RCC cutting/drilling Machine | Two Sets | <input type="checkbox"/> |
| | More than Two Sets | <input type="checkbox"/> |
| | Less than Two Sets | <input type="checkbox"/> |

27 Does the applicant maintain any office for preparing designs, drawings, bills, etc. Yes NO

28 Performance in previous Civil or structural works completed in past three years (1/01/2009-31/12/2011) each of value not less than Rs. 4.65 Lakhs completed successfully in time . (Within time as specified in LOI or within extended period of time without levy of LD; detail is to be submitted as per Sheet in Annexure II)

- (i) Four or more works completed in time
- (ii) Three works completed in time

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(iii) Two works completed in time

(iv) One work completed in time

29 Detail of credential documents in support of Work Performance mentioned above (Work completion Certificate given by Clients with clear mention of completion time.

.....
.....
.....
.....

30 Whether the Tenderer/ Contractor is Covered under Employee State Insurance Act 1948. YES NO

(a) If Yes, Registration number is to be furnished and copy to be enclosed.

(b) (in case not available, L1 Contractor Shall obtain this after award of work to compliance with act.

.....
Tenderer is Agreed : Yes or No (PL write in Ink in space provided here)
.....

31 Whether the Tenderer/ has obtained License from / Assistant Commissioner of Labour or Competent Authority. YES NO

(a) If Yes, License No. and validity of license obtained from Assistant Commissioner of Labour or competent authority (Copy to be enclosed if available)

(b) In case not available, L1 bidder shall submit the Licence before commencement of the work to compliance with ACT.

.....

32 Whether the Tenderer/ Contractor is Covered under Employees' Provident Funds & Miscellaneous Provision ACT 1952. YES NO

(a) If Yes, Registration number is to be furnished and copy to be enclosed.

.....

(b) If The agency doesn't possess the PF code no. but covered under ACT then L1 Contractor shall obtain it before the commencement of work to compliance with ACT

Tenderer is Agreed : Yes or No (PL write in Ink in space provided here)

33 Is any person working with the applicant as a near relative of the Officer / Official of BHEL

Yes

No

(a) If yes, give details

(i) Name

(ii) Staff No.

(iii) Designation & Department

(iv) Unit

34 Detail of Bank for Payment by Electronic Fund Transfer mode

I/We(tenderer) request and authorize you(BHEL) to effect payment through NEFT /RTGS to our (tenderer's) Bank account, subject to RBI Guidelines as per the details given below.

a Beneficiary (Name as per PO/SCo)

b Address of beneficiary

c e-mail address of Beneficiary

d PAN of Beneficiary

e TIN of Beneficiary

f Bank Name

g Branch (of Bank)

h A/c Number

i A/c type (Saving or Current)

j MICR Code of the branch (9digit)

k IFSC for NEFT (11 char)

l IFSC for RTGS (If different from k)

35 TENDERER ARE REQUIRED TO FILL IN COLUMN NO. 5 ABOUT QUOTATION THEY HAVE MADE IN "SCHEDULE A" OF PRICE BID. TENDERER SHALL NOT WRITE THEIR RATES IN THIS COLUMN. THEY SHALL WRITE ONLY " QUOTED OR UNQUOTED" .

IT IS REQUIRED THAT TENDERER QUOTE FOR ALL ITEMS OF WORK (S/N 1 TO 10) . THEY ARE REQUIRED TO READ SPECIFICATIONS OF ITEM CAREFULLY AND SHALL BE AGREED WITH CONDITIONS STIPULATED IN ITEM OF WORK.

L1 CONTRACTOR SHALL BE DECIDED ON THE BASIS OF COST TO COMPANY FOR TOTAL AMOUNT OF ALL ITEMS (1 TO 10) INCLUDING ALL TAXEX , SERVICE TAX ETC .IF TENDERER DO NOT QUOTE FOR ANY ITEMS OR ALL ITEMS OF WORK , THEIR BID SHALL BE REJECTED.

S/n	Description of Work	Quantity	Unit	QUOTED OR NOT QUOTED
1	Demolishing Brick Tile covering in terracing including stacking of serviceable material and disposal of unserviceable material within 50 metres lead.	1447.24	sqm	
2	Providing and laying APP (Atactic Polypropylene Polymer) modified prefabricated five layer, 3mm thick water proofing membrane, black finished reinforced with glass fibre matt consisting of a coat of bitumen primer for bitumen membrane @ 0.40 ltr/sqm. by the same membrane manufactured of density at 25°C, 0.87 - 0.89 kg/ltr and viscosity 70 - 160 cps. Over the primer coat the layer of membrane shall be laid using butane torch and sealing all joints etc., and preparing the surface complete. The vital physical and chemical parameters of the membrane shall be as under : Joint strength in longitudinal and transverse direction at 23°C as 350/300 N/5cm. Tear strength in longitudinal and transverse direction as 60/80N. Softening point of membrane not less than 150°C. Cold flexibility shall be upto -2°C when tested in accordance with ASTM, D - 5147. The laying of membrane shall be got done through the authorised applicator of the manufacturer of membrane :	1447.24	sqm	
3	Providing and laying brick tiles of Class Designation 100 over mummy roofs grouted with Cement mortar 1:3(1 Cement: 3 Fine sand) mixed with 2% of integral water proofing Compound by weight of Cement, over a 12 mm layer of Cement mortar 1:3(1 Cement:3 fine Sand) and finished neat with F.P.S brick tiles	1447.24	sqm	
4	Cutting holes upto 15x15cm in R.C.C floors and roofs for passing drain pipe etc. and repairing the hole after insertion of drain pipe etc. with cement concrete 1:2:4(1 Cement: 2 Coarse sand: 4 graded stone aggregate 20mm nominal size) including finishing complete so as to make it leak proof.	34.00	Nos	

5	Providing and fixing on wall face unplasticised Rigid PVC rain water Pipes Conforming to IS: 13592 Type A including jointing with seal ring conforming to IS: 5382 leaving 10mm gap for thermal expansion, (i) Single Socketed Pipes, 110 mm diameter	262.00	Meter	
6	Providing and fixing on wall face unplasticised Rigid PVC moulded fittings/ accessories for unplasticised Rigid PVC rain water Pipes conforming to IS: 13592 Type A including jointing with seal ring conforming to IS:5382 leaving 10mm gap for thermal expansion.			
6.1	Coupler 110mm.	34.00	Nos	
6.2	Bend 87.5 degree,110mm.	34.00	Nos	
6.3	110mm Shoe.	34.00	Nos	
6.4	Single Tee without door 110x110x110mm.	34.00	Nos	
7	Providing and fixing unplasticised- PVC pipe Clips of approved design to unplasticised- PVC rain water pipes by means of 50x50x50 mm hard wood plugs, screwed with M.S. Screws of required length including cutting cutting brick work and fixing in cement mortar 1:4(1 Cement: 4 Coarse sand) and making good the wall etc. complete. 110 mm	102.00	Nos	
8	Providing and fixing to the inlet mouth of rain water Pipe PTMT(an Engineering Thermoplastic) grating square(slit) 150mm square with a height of 8mm and weighing not less than 100 gms.	34.00	Nos	
9	Providing gola 75x75 mm in cement concrete 1:2:4(1 Cement: 2 Coarse sand: 4 Stone Aggregate 10mm and down gauge) including finishing with cement mortar 1:3(1 Cement: 3 Sand) as per standard Design. including all materials etc complete.	536.60	Meter	
10	Making Khurras 45x45cm with average minimum thickness of 5 cm cement concrete (1 Cement: 2 Coarse Sand: 4 graded stoneaggregate of 20mm nominal size) over PVC sheet 1mx1mx400 micron, finished with 12mm cement plaster1:3 (1 cement: 3 Coarse sand) and a coat of neat cement rounding the edge and making and finishing the outlet and including all materials etc complete.	34.00	Nos	

- 1 That In quoting our rates, I/we have account all factors including any fluctuations in the market rates etc. No claim will be entertained on this account after acceptance of the tender or during the currency of the contract.

- 2 That The item rates offered in Schedule A of price bid are for finished item of works as per Bill of Quantities and shall provide for the complete cost towards fuel, tools, tackles, plant & machinery, temporary works, labour, materials, levies, taxes, transport, lay-out, repairs, rectifications, maintenance till handing over, supervision, labour colonies, establishment, services, roads, revenue expenses, overheads, profits & all other incidentals etc., complete.
- 3 That the Rates quoted in schedule A of price bid are excluding Service Tax but including all royalties, terminal taxes, Octroi duties, Central or Provincial Excise Tax, Sales Tax and any other taxes leviable under the State or Central Government rules on this work. The Bharat Heavy Electricals Ltd., will not entertain any claim whatever in this respect.
- 4 That the Service Tax is applied or not applied (PLz write in ink) on this contract work and if applied than rate of service tax shall be
% of
- 5 That The service Tax Claimed by us will be extra to the rates quoted and the same will be reimbursed on production of valid document / proof for having paid service tax by us only.
- 6 Any other conditions (plz mention).....

SIGNATURE OF TENDERER

36 Certificates:

- (i) I/We (including all partners) certify that I/We have read the Tender Notice, Instructions to Tenderers , Special conditions and General Conditions of Contract as mentioned in this tender documents and I/We are agreed with all conditions and shall abide by Them.
- (ii) I/We undersigned do hereby tender to execute works as mentioned in Tender notice and Schedule A of Price Bid of this tender document and in accordance with the conditions noted in this documents in consideration of payment being made for the quantity of work as executed on Site at the respective rates as specified by me/us in the Schedule A of Price Bid .
- (iii) I / We hereby distinctly and expressly declare and acknowledge that I /We have made such examination of the contract documents and of the specifications etc., and of the location where the said work is to be done and such investigation of the work required to be done and in regard to the material required to be furnished as to enable me/us thoroughly to understand the intention of same and the requirements, covenants, agreements, stipulations and restrictions contained in this Tender Documents and in the said specifications and distinctly agree that I /We will not hereafter make any claim or demand upon the Bharat Heavy Electricals Limited based upon or arising out of the said requirements, covenants, agreements, stipulations, restrictions and conditions.
- (iv) I/We certify that the information given above (for all S/n 1 to 35) is true to the best of our knowledge. I/We also understand that if any of the information is found wrong, I/We am/are liable to be debarred.
- (v) I/We certify that I/We will not get myself / ourselves registered as contractor(s) in BHEL under more than one name.
 - (a) I certify that I did not retire as an Engineer of Gazetted rank or as any Gazetted Officer employed on Engineering or Administrative duties in any Engineering Department of the Government of India during the last two years. I also certify that I have neither such a person under my employment nor shall I employ any such person within two years of his retirement except with the prior permission of the Government. (For Individuals seeking enlistment in their own name).
 - (b) We certify that none of the partners/directors retire as an Engineer of Gazetted rank or as any Gazetted Officer employed on Engineering or Administrative duties in last two years. We also certify that we have neither under our employment any such person nor shall we employ any person within two years of his retirement except with the prior permission of the Government. (For partnership firms and limited companies).
- (vi) I/We certify that I/We are not banned or blacklisted by any government in past or present. I/WE are also agree for rejection of our offer at any stage of finalization or after finalization as per Clause 49 of tender notice if this information is found wrong .

Signature(s) of the applicant(s) Name

Signature

Address (Seal in case of Firm)

1
2
3

Date:

ACCEPTING AUTHORITY (BHEL)

ANNEXURE - II

DETAILS OF

(1) SIMILAR WORKS* COMPLETED DURING THE LAST SEVEN YEARS

(01/04/2005-31/1/2012)

(2) all Civil or Structural Works of value minimum Rs. 4.65 Lakhs completed in Last Three Years (1/1/2009-31/12/2011)

*attach separate sheet if more space is required*** Similar works means Those Civil works of building Construction or maintenance which includes waterproofing works. Irrelevant works like House keeping, Sewage cleaning, sweeping, Boring, Fabrication, Erection etc shall not be considered in similar works category.*

Sl. No.	Name of work & Agreement No.	Date of commencement	Date of completion		Reasons for delay & compensation levied, if any	Work order Value	Gross cost of completion	Name, designation & complete address of the authority for whom the work was done
			Stipulated	Actual				

Credential documents in support of above informations are WORK COMPLETION CERTIFICATES given by Clients or WORK ORDERS along with Final Bill Payment Certificate given by clients etc.THESE ARE TO BE SUBMITTED . In case of non submission of credential documents this information will not be accepted.

SIGNATURE OF TENDERER

ACCEPTING AUTHORITY (BHEL)