TENDER SPECIFICATION

No. BHE/PW/PUR/CHT-CRH/OJ-144

FOR

SERVICE OF HLHR CRANE ON MONTHLY LEASING BASIS FOR

CONSTRUCTION WORK IN THERMAL POWER PROJECT
AT

MAHARASHTRA STATE POWER GENERATION COMPANY LIMITED CHANDRAPUR SUPER THERMAL POWER STATION EXPANSION PROJECT (2X500MW Unit 8 & 9), CHANDRAPUR, DIST- CHANDRAPUR (MAHARASHTRA)

PART: I

(TECHNICAL BID SPECIFICATION, NOTICE INVITING TENDER & GENERAL CONDITIONS OF CONTRACT)



BHARAT HEAVY ELECTRICALS LIMITED
(A Govt. of India Undertaking)
POWER SECTOR - WESTERN REGION
345-KINGSWAY, NAGPUR-440 001

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3	Project Information		1				
4	Check-List		2				
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LEGEND:

@: Issued as separate hard copy booklet 'Tender Specifications Part-II (Price Bid-OJ-....)'. Hosted in BHEL web page (www.bhel.com) as file titled "PRICE BID-OJ-144"

Note:

Rest of the tender documents are included in Tender Specifications Part-I. Hosted in BHEL web page (www.bhel.com) as file titled "TECH BID-OJ-144"

General arrangement drawing is uploaded as file titled "Drawing OJ-144"

BHARAT HEAVY ELECTRICALS LIMITED

(A Govt. of India Undertaking)
POWER SECTOR - WESTERN REGION
345, KINGS WAY - NAGPUR 440 001

TENDER SPECIFICATION No. BHE/PW/PUR/CHT-CRH/OJ-144

ISSUE DETAILS

NAME OF THE WORK:

SERVICE OF HLHR CRANE ON MONTHLY LEASING BASIS FOR CONSTRUCTION WORK IN THERMAL POWER PROJECT AT MAHARASHTRA STATE POWER GENERATION COMPANY LIMITED, CHANDRAPUR SUPER THERMAL POWER STATION EXPANSION PROJECT (2X500MW Unit 8 & 9), CHANDRAPUR, DIST-CHANDRAPUR (MAHARASHTRA)

For Bharat Heavy Electricals Limited

Dy. General Manager (Purchase)

Place: Nagpur

Date:

Bharat Heavy Electricals Limited: PSWR: Nagpur Tender Specs. No. BHE/PW/PUR/CHT-CRH/OJ-144

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BHARAT HEAVY ELECTRICALS LIMITED



POWER SECTOR-WESTERN REGION

'Shreemohini' Complex, 5th floor

345-Kingsway Nagpur 440001 Phone: 0712-3048600-604 Fax: 0712-3048 605, 698, 699

THE TENDERER MUST SUBMIT THEIR TENDERS AS REQUIRED IN TWO PARTS IN SEPARATE SEALED COVERS PROMINENTLY SUPERSCRIBED AS PART-I TECHNICAL BID AND PART-II PRICE BID AND ALSO INDICATING ON EACH OF THE COVERS THE TENDER SPECIFICATION NUMBER AND DUE DATE AND TIME AS MENTIONED IN THE TENDER NOTICE.

PART-I (TECHNICAL BID) COVER-I

EXCEPTING RATE SCHEDULE, ALL OTHER SCHEDULES, DATA SHEETS AND DETAILS CALLED FOR IN THE SPECIFICATION SHALL BE ENCLOSED IN PART-I "TECHNICAL BID" ONLY.

PART-II (PRICE BID) COVER-II

ALL INDICATIONS OF PRICE SHALL BE GIVEN IN THIS PART-II "PRICE BID". **EMD SHALL NOT BE INCLUDED IN THIS COVER.**

THESE TWO SEPARATE COVERS-I AND II (PART-I AND PART-II) SHALL TOGETHER BE ENCLOSED IN A THIRD ENVELOPE (COVER-III) ALONGWITH REQUISITE EMD AS INDICATED EARLIER AND THIS SEALED COVER SHALL BE SUPERSCRIBED AND SUBMITTED TO ADDL. GEN MANAGER (PURCHASE) AT THE ABOVE MENTIONED ADDRESS ON OR BEFORE THE DUE DATE AS INDICATED.

THE QUALIFIED TENDERER WILL BE INTIMATED SEPARATELY ABOUT THE STATUS OF THEIR OFFER.

TENDERER ARE REQUESTED TO MAKE SPECIFIC NOTE OF THE FOLLOWING CONDITIONS:

- CONTRACTOR SHOULD HAVE ADEQUATE RESOURCES INCLUDING MAJOR T&PS AT HIS DISPOSAL FOR THIS JOB.
- CONTRACTOR SHOULD HAVE SOUND FINANCIAL STABILITY.
- TENDERER SHOULD MEET QUALITY REQUIREMENT REGARDING WORKMANSHIP, DEPLOYMENT OF PERSONNEL, ERECTION TOOLS AND NECESSARY INSPECTION, MEASUREMENT & TESTING INSTRUMENTS.
- ALL INFORMATION AS CALLED FOR IN VARIOUS APPENDICES AND CLAUSES OF TENDER SPECIFICATION SHOULD BE FURNISHED IN COMPLETENESS. PLEASE REFER THE CHECKLIST.
- CLARIFICATION ON TENDER IF ANY, SHALL BE OBTAINED BY THE TENDERER BEFORE SUBMITTING THEIR OFFER.
- OFFERS MUST BE SUBMITTED WITHOUT ANY DEVIATION.
- OFFERS RECEIVED WITH ANY DEVIATION OR WITHOUT RELEVANT INFORMATION AS DESCRIBED ABOVE ARE LIABLE TO BE REJECTED. PRICE BIDS RECEIVED IN THE FORM OTHER THAN SPECIFIED IN PART-II (PRICE BID) ARE LIABLE TO BE REJECTED.
- IN CASE CUSTOMER APPROVAL IS REQUIRED FOR THIS PACKAGE, BIDDER'S
 OFFER WILL BE ACCEPTED SUBJECT TO APPROVAL OF BIDDER BY CUSTOMER.

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PROJECT INFORMATION

BACKGROUND

Chandrapur Super Thermal Power Station is the biggest pit head Thermal Power Station of Maharashtra State Power Generation Co. Ltd. (MAHAGENCO). The location of power station is at 6 Kms from Chandrapur City. The capacity of the coal based thermal power generating station is presently 2340 MW consisting of 4 sets of 210 MW, 3 sets of 500 MW each. This is being augmented by installation of two 500 MW set in the existing premises. Work under the present tender specification is a part of this augmentation.

GEOGRAPHY

Chandrapur city is located in the eastern edge of Maharashtra in Nagpur division and forms the eastern part of 'Vidharbha' region. It is located between 19.30' N and 20.45' N latitude and 78.46'E longitude. Owing to the geographical location and physical features, the climate of the district can be classified as a tropical hot climate with a high range of temperature throughout the year. Primarily there are two prominent seasons in the district the very hot summer and moderate winter. The summer months are very hot and prolonged while winter is short and mild. The monsoon season starts immediately after summer and lasts until late September. The southwest monsoons bring a lot of rainfall during rainy season and there is no drought-prone area in the district.

Nearest Airport : Nagpur - 150 kms

Nearest Rail Stations: Chandrapur Railway Station on Delhi-Chennai rail route -6Km Main Road Highways: State Highway connecting Chandrapur with Jam, Rajura & Mul

National Highway – NH-7 Connecting Varanasi to Madurai passing through Jabalpur, Seoni, Nagpur, Buti Bori, Jam, Adilabad and Hyderabad. Jam is at a distance of 100 Km from

Chandrapur

CLIMATE

The temperature starts decreasing from the month of October. December is the coldest month. The mean maximum temperature during December is 28.2°C and means minimum is 11.6°C. The daily mean temperature starts rising from the month of February, and May is the peak summer month when mean maximum temperature goes up to 43°C and minimum temperature is 28°C to 29°C. In severe heat conditions the temperature rises up to 46°C and is among the highest temperatures in the South Asian region. However, temperature starts reducing after May due to the onset of the monsoon, which lasts from June to September when it is hot and humid.

The average annual rainfall is about 1420 mm. The eastern part receives more rainfall than the west. The average number of rainy days is 60 to 65 throughout the district. The relative humidity is very high during monsoon season, which exceeds 70%, but after monsoon season it goes down rapidly and in summer it is only 20%.

The prominent wind direction is from south to north. In summer the wind direction is from east to south and, during the monsoon, from south to east. During winter, the wind direction changes from north to east. Frequently it is characterized by the blowing of wild

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and violent winds, heralding the approach of the hot season which lasts till the middle of June.

Bidder is advised to visit the project sites and appraise himself about the local conditions and infrastructure available in the area for fulfilling their commitments under the contract. BHEL will not admit any claims whatsoever on account of Contractor's non-familiarization of local conditions.

CHECK LIST

(VIDE PARA 1.3 OF SECTION-I OF GENERAL CONDITIONS OF CONTRACT)

		<u> </u>		
1	NAME OF THE TENDERER WITH ADDRESS			
2	NATURE OF THE FIRM	LIMITED / PARTNERS	SHIP / PROI	PRIETARY
3	EMD DETAILS (Rs. 2.0 LACS BY DD ONLY OR ONE TIME EMD)			
4	VALIDITY OF OFFER (REQUIRED 6 MONTHS FROM TENDER OPENING DATE)			
5	MOBILIZATION TIME (NOT EXCEEDING 30 DAYS FROM FAX LOI)			
6	WHETHER NO DEVIATION CERTIFICA	TE FURNISHED	YES	NO
7	TENDERER HAS VISITED THE ACQUAINTED WITH THE SITE CONDI	PROJECT SITE AND TIONS	YES	NO
8	DETAILS OF CONCURRENT JOBS AF RELEVANT APPENDIX)	YES	NO	
9	HEAD QUARTER'S ORGANISATION IS	YES	NO	
10	FINANCIAL STATUS OF THE COMPA GCC) IS FURNISHED	YES	NO	
11	PROFIT & LOSS ACCOUNT FOR PRECE FURNISHED	YES	NO	
12	COPY OF PAN CARD ACCOMPANIED B FURNISHED	Y 'IT RETURN' COPY IS	YES	NO
13	ANALYSIS OF UNIT RATES QUOTED (A APPENDIX) IS FURNISHED	AS PER RELEVANT	YES	NO
14	POWER OF ATTORNEY ENCLOSED IN MAKING OFFER.	YES	NO	
15	DETAILS OF SIMILAR WORK DONE IN PER RELEVANT APPENDIX) AND SUPP FURNISHED.	YES	NO	
16	BIDDER HAS FMILIARIZED HIMSELF V LOCAL LAWS & CONDITIONS.	VITH ALL RELEVANT	YES	NO
17	WHETHER ALL THE PAGES OF THE TI READ, UNDERSTOOD AND SIGNED	ENDER DOCUMENTS ARE	YES	NO
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Part I : Technical Bid Specifications

18	WHETHER THE FOLLOWING DETAILS PERTAINING TO YOUR BANK ACCOUNT DULY ENDORSED BY THE BANK HAVE BEEN FURNISHED {TO ENABLE BHEL RELEASE PAYMENTS THROUGH ELECTRONIC FUND TRANSFER (EFT/RTGS) AS SPECIFIED IN SECTION 12 }	YES	NO
	1. Name of the Company 2. Name of Bank 3. Name of Bank Branch 4. City/Place 5. Account Number 6. Account type 7. IFSC code of the Bank Branch 8. MICR Code of the Bank Branch NOTE: In case Bank endorsed certificate regarding above has already been submitted earlier, Kindly submit photocopy of the same		

NOTE: STRIKE OFF YES OR NO, AS APPLICABLE

Strike off 'Yes' or 'No' as applicable for each row.

DECLARATION BY BIDDER'S AUTHORIZED SIGNATORY

HEREBY CERTIFY THAT ALL THE

TENDER SPECIFICATION No. BHE/PW/PUR/CHT-CRH/OJ-144

Ι,

INFORMATION	AND	DATA	FUR	NISHED	BY	ME	WITH	RE	GARD	ТО	THIS	TE	NDER
SPECIFICATION	ARE	TRUE	AND	COMF	LETE	ТО	THE	BEST	OF M	Y KNO	WLED	GE. I	HAVE
GONE THROUG	SH TH	E SPE	CIFIC	ATIONS	s, co	NDIT	ONS	AND S	STIPUI	OITA	IS IN E	DETAIL	AND
AGREE TO CO	MPLY	WITH	THE	REQUI	REME	ENTS	AND	INTE	NT OF	THE	SPECI	FICAT	ION. I
FURTHER CE	RTIFY	THA	ГΙ	AM D	ULY	ΑU	THORI	ISED	REPF	RESEN	TATIVE	OF	THE
UNDERMENTIO	NED E	BIDDER	AND	A VAL	ID PC	WER	OF A	TTOR	NEY T	O THIS	S EFFE	CT IS	ALSO
ENCLOSED.													
DATE:				SIG	SNATU	JRE C	OF AU	THOR	IZED S	IGNAT	ORY W	/ITH S	EAL

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CERTIFICATE OF NO-DEVIATION

I/WE. M/s

TENDER SPECIFICATION No. BHE/PW/PUR/ CHT-CRH/OJ-144

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CERTIFICATE CONFIRMING KNOWLEDGE ABOUT SITE CONDITIONS

TENDER SPECIFICATION No. BHE/PW/PUR/ CHT-CRH/OJ-144

	we have visited the project site(s) for fer and acquired full knowledge and
	information is true and correct and we onal payment of any nature due to lack of site conditions.
BIDDER'S NAME AND ADDRESS:	
	SIGNATURE & OFFICIAL SEAL OF BIDDER'S AUTHORISED SIGNATORY
PLACE:	
DATE:	

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NOTICE INVITING TENDER (Page 1 of 3)

Sealed tenders are invited in two bid system (viz. Part-I: Technical cum Commercial Bid and Part-II: Price Bid) from bidders meeting Qualifying Requirements (QR) as specified later in this NIT. Brief details of job and Tender Specification (T. S.) No. are as under.

Tender Specs. No. BHE/PW/PUR/CHT- CRH /OJ-144

JOB: SERVICES OF HLHR CRANE ON MONTHLY LEASING BASIS FOR CONSTRUCTION WORK IN THERMAL POWER PROJECT AT MAHARASHTRA STATE POWER GENERATION COMPANY LIMITED, CHANDRAPUR SUPER THERMAL POWER STATION EXPANSION PROJECT (2X500MW), CHANDRAPUR, DIST- CHANDRAPUR (MAHARASHTRA)

Sale and Web Page Hosting of T.S. documents: 14.12.2009 to 03.01.2010

Last Date and Time for Offer Submission: 04.01.2010 by 15.00Hrs

Opening of Technical Bids: 04.01.2010 by 16.00Hrs

Earnest Money Deposit (EMD): Rs. 2 lakh by Demand Draft

- Tender Specs documents with complete details are hosted in web page (<u>www.bhel.com</u>). Bidders can directly download the same and use for submission of offer. Tender Document charges shall be paid to BHEL along with or before submission of Offer.
- Interested bidders may alternately collect hard copy of T.S. documents from this
 office on all working days within the sale period on payment of Tender
 Document charges.
- Tender Specification document Charges: Rs. 2,000/- by DD (in favour of BHEL payable at Nagpur) or by Cash. Courier charges will be Rs. 500/- extra if T.S. documents are requested through courier.
- BHEL takes no responsibility for any delay/loss of documents or correspondences sent by courier/post.
- Bidders who have deposited One Time EMD of Rs. 2.00 Lakhs with BHEL:PSWR: Nagpur will be exempted from submission of EMD with these tenders.
- Acceptance of any tender shall be subject to it's approval by BHEL's customer.
- BHEL reserves the right to accept or reject any or all tenders without assigning any reasons whatsoever.
- Dates of Price Bid opening will be intimated to bidders later.
- All corrigenda, addenda, amendments and clarifications to Tender Specifications will be hosted in the web page (<u>www.bhel.com</u> → Tender Notifications → View Corrigendums) and not in the newspaper. Bidders shall keep themselves updated with all such developments.
- BHEL reserves the right to reject any tender on the basis of unsatisfactory performance
 of the bidder in any ongoing job or any similar job in the last seven years or for
 furnishing false information/declaration in the offer.
- BHEL will operate CPSE purchase preference policy as applicable.

Bharat Heavy Electricals Limited : PSWR : Nagpur Tender Specs. No. BHE/PW/PUR/CHT-CRH/OJ-144

^{*}Please obtain latest information regarding these dates from the web page www.bhel.com (Tender Specification → View Corrigendums)

NOTICE INVITING TENDER (Page 2 of 3)

QUALIFYING REQUIREMENTS (QR)

Bidder must fulfill the following Qualifying Requirements concurrently for BHEL to accept the offer on Techno-Commercial ground.

a)

- a.1) Bidder must be in the business of providing Services of Crane Hiring/ Leasing in last seven years as on 3011/2009
- a.2) and the crane offered by the bidder must meet the technical requirements of BHEL.

AND

b) Average annual financial turnover (Audited) of Rs 105.00Lakhs or more over the last three financial years ending 31/03/2009.

AND

c) Net worth of the Bidder based on the latest Audited Accounts as furnished by Bidder in case of 'b' above should be higher than 50% of the Paid-up Capital in case of Companies.

AND

d) Bidder must have earned cash profit in any one of the three Financial Years as applicable in case of 'b' above based on latest Audited Accounts

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Explanatory Notes for QR 'a' and 'b'

i) The words 'provided services' mean the bidder should have achieved the criteria specified in the QR even if the total contract has not been completed or closed

GENERAL

- 1) Timing of sale of Documents: Tender Specification documents will be issued from BHEL PSWR Nagpur office from 10:00 AM to 4:00 PM on all working days within the period specified in the NIT.
- 2) Holidays:

Sale of Tender Documents shall not take place on National Holidays, holidays declared by the Central or State Governments, Sundays, second and last Saturdays and holidays of BHEL PSWR Nagpur HQ.

3) Seeking Clarifications on Tender Specification:

Clarifications on the Tender Specifications, if any, may be sought by the bidders so as to reach this office at least **seven days before the Due Date** for submission.

4) Fulfillment of Qualifying Requirements:

A bidder must satisfy **all the Qualifying Requirements** stipulated under 'a', 'b' etc of this tender concurrently in order to get qualified.

5) Customer Approval: In case customer approval is required for this package, bidder's offer will be accepted subject to approval of bidder by customer.

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6) Supporting Documents:

Bidders shall submit documents in support of possessing "Qualifying Requirements" as under duly self-certified and stamped by the authorized signatory.

- List of jobs done with Name of the Project, Owner of Project, Name of Customer, Work Order Ref. No. & Date, Brief Details of Job, Executed Value, Date of Start, Date of Completion.
- Photocopies of Work Orders issued by the Customer containing details of Bill of Quantities/Schedule of Rates.
- Photocopies of Completion Certificate issued by Customer or Owner of Project.
- Photocopies of audited Profit and Loss accounts accompanied by relevant schedules for turnover figures.
- 7) Earnest Money Deposit (EMD): Refundable, Non-interest bearing EMD for each tender is indicated against each job earlier here. Bidders may also opt to deposit "One Time EMD" of Rs. 2.0 lacs and thus be exempted henceforth from payment of EMD with each Erection and Commissioning tender of BHEL-PSWR Nagpur. EMD shall be paid ONLY by Account Payee Demand Draft in favour of "Bharat Heavy Electricals Limited" payable at Nagpur.

Those bidders who have already deposited 'One Time EMD' earlier need not submit EMD with the present tenders. Please indicate the payment details of the 'One Time EMD' in each tender.

8) Tender Document Cost and Courier Charges:

Tender document charges @ Rs 2000/- per set and courier charges @ Rs 500/- per set shall be made by Account Payee Demand draft in favour of "Bharat Heavy Electricals limited" payable at Nagpur or in cash payable at cash counter of this Office. Courier charges shall be paid in case bidders requests for dispatch of Tender specifications by courier. In case bidder downloads the Tender specifications etc from web page, they shall remit the Tender document charges (Rs 2000/-) positively along with or before submission of offer.

- 9) Liquidated Damages/Penalty: BHEL will impose Liquidated Damages and Penalty as per suitable clauses in the respective Tender Specifications on account of delay, violation of contract conditions and non-performance attributable to the contractor.
- **10) LATE TENDER**: Tender received after the specified date and time of submission shall not be considered in any circumstances.

Sr.Dy. General Manager (Purchase) BHEL:PSWR:Nagpur

1.0 BROAD SCOPE OF WORK.

Service of HLHR Crane with operation & maintenance crew on lease basis at MAHARASHTRA STATE POWER GENERATION COMPANY LIMITED, CHANDRAPUR SUPER THERMAL POWER STATION EXPANSION PROJECT (2X500MW Unit 8 & 9), CHANDRAPUR, DIST- CHANDRAPUR (MAHARASHTRA) The crane shall be engaged in the project construction work of thermal power plants consisting of Boiler Structures, Tanks, Vessels and other equipments of these plants as per instructions of the BHEL Engineer-in-Charge.

The intent of this tender specification is to hire the service of HLHR crane on monthly lease basis to suit the specified requirements.

1.1 Technical Requirements & Duration of Deployment

The offered crane shall meet the following requirements.

	HLHR Crane for BHEL MAHAGENCO Chandrapur STPS project					
SN	Description of Parameter/Feature	Details/Requirement				
01	Heavier objects to be lifted at high elevations	Ceiling Girder - weight 116 MT.				
02	Elevation of Boiler Ceiling Girders after installation	88.0 m (Top of Girder) 84.2 m (Bottom of Girder)				
03	Dimensions of Boiler Ceiling Girders	Built-up I beam Length: 26 m to 32 m Depth: 3.8 m Width of Flange: 1.6 m				
04	Interconnecting Beams between each pair of Ceiling Girders	These are built up structural beams of varying cross-sections; weights ranging from 1 MT to 8 MT; lengths ranging from 7.80 m to 9.25 m. These are to be placed in the vacant space between each adjacent pairs of Ceiling Girders. Erection will start immediately after erection of Girder-B and shall continue till completion of all such beams between Girder pair E & F.				
05	Other misc. major items to be placed at higher elevations (Boiler roof structures, Silencers Deareators etc.)	Up to around 10 MT at elevations of up to around 94 m. Majority of these would require 'Boom + Jib' combination to obtain required elevation and horizontal reach at those elevations.				

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Part I: Technical Bid Specifications

	HLHR Crane for BHEL MAHAGENCO Chandrapur STPS project					
SN	Description of Parameter/Feature	Details/Requirement				
06	Overall dimension of crane with HLA, Counterweight, Guy Rope, Boom, Jib etc. vis-à-vis critical space restriction for crane movement.	For heavy lifts and higher elevations, the crane sha have to operate in the area between Boiler Cavity ar Electrostatic Precipitator. While erecting the last part of boiler structures involving lifting components up to around 94 m elevation, the space available between Boiler and ESP will be around 50 m in length. The overall dimension of offered crane with all necessary assemblies shall be suitable for this. Bidder in his offer (Technical Bid) shall furnish complete dimensional details of crane assembly with sketch in this regard.				
07	Maximum Boom & Jib Lengths	Boom Length: To suit aforesaid lift requirements. Jib Length: At least 30 m.				
08	Crawler to Crawler outer dimension	Maximum 15.0 m				
09	Heavy Lift Attachment (HLA)	Crane may have HLA for lifting higher loads and/or higher elevations. In addition, it shall be capable to lift loads without HLA as well.				
10	Deployment tentatively by	May -2010. However, mobilization of the crane will be intimated approximately 30 days in advance of actual requirement.				
11	Duration of Hiring	Regular Duration: 07 months, Extendable by another 2(two) months under the contractually agreed terms & conditions.				

1.1.2 GENERAL REQUIREMENTS

- 1. The offered crane should have **boom travel limit alarm/stop** and **hoist travel alarm/stop** safety features as minimum requirement. Other additional safety features, if any, should be made available to user without any additional cost.
- 2. Bidder shall submit along with technical bid a **copy of load chart** and technical details of crane offered as per Annexure I,
- 3. Deployment of Crane & Commencement of Services

The deployment schedule of the crane indicated earlier here is tentative. Notwithstanding such indications, you shall deploy and make the crane operational at site within thirty (30) days from the written intimation for deployment of crane. A separate written notice asking to deploy the crane shall be issued for each crane by BHEL.

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5. Bidder shall make available the complete set of Main Boom & Jib attachment with offset angle adjustment facility as specified for the crane in ne go, that is at the time of mobilization. However the crane shall be initially and subsequently assembled as per the site requirement to be specified by BHEL site engineer. Bidder shall furnish the details of Main Boom & Jib configuration offered for HLHR crane in their technical bid.

2.0 OPERATION, MAINTENANCE AND OPERATING CREW CHARGES

- 2.1 The price quoted shall be inclusive of operation (excluding fuel) and preventive as well as breakdown maintenance of the crane. The bidder shall deploy Operator–cum–Mechanic, Helper and Maintenance Crew to ensure smooth operation and maintenance of the crane without affecting work. No extra payment shall be made towards engagement of crew in overtime working hours. The crane shall be available for service on all days of the month. Bidder shall carry out preventive maintenance beyond normal working hours or as per schedule agreed with BHEL engineer.
- 2.2 Bidder shall provide all lubricants, spare parts, filters and other necessary consumables (except fuel) that are necessary to fulfil the scope of services under this specification within the quoted rates. BHEL/erection contractors of BHEL will provide fuel commensurate with utilization time and agreed consumption rate.

3.0 <u>COMMENCEMENT OF CONTRACT, REGULAR CONTRACT PERIOD, TERMINATION & FORECLOSING</u>

The contract period shall commence from the successful load testing of crane with mutually agreed boom length at project site location and its written acceptance by BHEL. The Contract Period (duration of hiring) will generally be as indicated under 'Regular Duration' in tabular form earlier here. Contract Period may get reduced or extended depending upon the requirement of BHEL as specified therein.

If the performance/services of the contractor or the deployed crane is not to the satisfaction of BHEL, the contract is liable for termination without prior notice.

BHEL reserves the right of foreclosing the contract within the contract period with 30 days advance written notice without assigning reason and no payments will be made for the period after fore closure.

4.0 REGULAR WORKING HOURS

The services of crane with operating crew shall be made available for duration of **twelve (12) hours per day** including total one-hour break for lunch and tea intervals. The regular working hours will usually be from 08:30 a.m. to 8:30 p.m. However, this shall be adjusted to suit the working hours of the project site from time to time.

5.0 RATE SCHEDULE, QUOTED RATES/PRICE & CONTRACT VALUE.

- 5.01 Bidders shall quote their price in the Rate Schedule furnished in "Price Bid Specification" issued as Part-II of this tender specification.
- 5.02 **Total amount payable** towards **mobilization and de-mobilization** of HLHR crane shall be as in the table below.

SN	Description of Crane	Total Amount for Mobilization and Demobilization
1	HLHR Crane	Rs. 30,00,000/=

Bharat Heavy Electricals Limited: PSWR: Nagpur

Respective amount are also indicated in the Rate Schedule for HLHR crane. Bidder shall neither quote any amount towards mobilization and de-mobilization separately nor make any alteration in these amounts specified by BHEL. Offers with any deviation in this regard will be rejected.

- 5.03 Bidder shall quote only monthly hire charges rate and indicate the corresponding amount for the duration indicated in the Rate Schedule. Bidder shall also indicate the total amount comprising of total monthly hire charges and mobilization & de-mobilization charges for the crane. In case of any discrepancy between the rates and amounts, the monthly hire charges rate quoted by the bidder shall be considered as correct and the grand total amount for the crane shall be re-calculated for the purpose of offer evaluation.
- 5.04 Agreed monthly hire charges rates shall remain **firm** throughout the **Regular Duration**. Applicable monthly hire charges for **Extension Periods** as proposed in this Tender Specification shall be **90**% of the rates agreed for the regular contract/hiring period. No other revision of the rates shall be admitted during these periods.
- 5.05 Road permits, Octroi, VAT, CST and Declaration Forms etc. required for deployment of the crane at the destination site shall be arranged by the bidder within the agreed price/rates. BHEL will neither issue any Road Permit or VAT/CST declaration forms for this purpose nor pay any taxes in this regard.

5.06 TAXES, DUTIES, LEVIES

Refer to Clause 2.8.4 of General Conditions of Contract. Notwithstanding anything contained therein, the following provisions shall be applicable for this contract.

The contractor shall pay all (save the specific exclusions as enumerated in this contract) taxes, fees, license charges, deposits, duties, tools, royalty, commissions or other charges which may be levied on the input goods & services consumed and output goods & services delivered in course of his operations in executing the contract. In case BHEL is forced to pay any of such taxes, BHEL shall have the right to recover the same from his bills or otherwise as deemed fit.

However, provisions regarding Service Tax and Value Added Tax (VAT) on output services and goods shall be as per following clauses.

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Service Tax & Cess on Service Tax

Service Tax and Cess on Service Tax as applicable on output Services are excluded from contractor's scope; therefore contractor's price/rates shall be **exclusive** of Service Tax and Cess on Output Services. In case, it becomes mandatory for the contractor under provisions of relevant act/law to collect the Service Tax & Cess from BHEL and deposit the same with the concerned tax authorities, such applicable amount will be paid by BHEL.

Contractor shall submit to BHEL documentary evidence of Service Tax registration certificate specifying name of services covered under this contract. Contractor shall submit serially numbered Service Tax and Cess Invoice, signed by him or a person authorized by him in respect of taxable service provided, and shall contain the following, namely,

- I. The name, address and the registration number of the contractor,
- II. The name and address of the party receiving taxable service,
- III. Description, classification and value of taxable service provided and,
- IV. The service tax payable thereon.

All the four conditions shall be fulfilled in the invoice before release of service tax payment.

Contractor shall obtain prior written consent from BHEL before billing the amount towards such taxes.

With introduction of Cenvat Credit Rules 2004, which came into force w.e.f. 10.09.2004, Excise Duty paid on Input Goods including Capital Goods and Service Tax paid on Input Services that are used for providing the output services can be taken credit of against the Service Tax payable on output services. However BHEL may opt for availing the abatement provision in which case cenvat credit may not be available on input duty.

VAT (Sales Tax /WCT)

As regards Value Added Tax (VAT) on transfer of property in goods involved in Works Contract (previously known as Works Contract Tax) applicable as per local laws, the price quoted by the contractor shall be **exclusive** of the same. Where such taxes are required to be paid by the contractor, this will be reimbursed on production of proof of payment made to the authorities by the Contractor. In any case the Contractor shall register himself with the respective Sales Tax authorities of the state and submit proof of such registration to BHEL along with the first RA bill. The contractor has to take all necessary steps to **minimize tax on input goods** by purchasing the materials from any registered dealer of the concerned state only. In case contractor opts for composition, it will be with the prior express consent of BHEL. Deduction of tax at source shall be made as per the provisions of law unless otherwise found exempted. In case tax is deducted at source as per the provisions of law, this is to be construed as an advance tax paid by the contractor and no reimbursement thereof will be made unless specifically agreed to.

Modalities of Tax Incidence on BHEL

Wherever the relevant tax laws permit more than one option or methodology for discharging the liability of tax/levy/duty, BHEL will have the right to adopt the appropriate one considering the amount of tax liability on BHEL/Client as well as procedural simplicity with regard to assessment of the liability. The option chosen by BHEL shall be binding on the Contractor for discharging the obligation of BHEL in respect of the tax liability to the Contractor.

New Taxes/Levies

In case the Government imposes any new levy/tax on the output service/ goods/work after award of the contract, the same shall be reimbursed by BHEL at actual.

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In case any new tax/levy/duty etc. becomes applicable after the date of Bidder's offer, the Bidder/Contractor must convey its impact on his price duly substantiated by documentary evidence in support of the same **before opening of Price Bid**. Claim for any such impact after opening the Price Bid will not be considered by BHEL for reimbursement of tax or reassessment of offer.

No reimbursement/recovery on account of increase/reduction in the rate of taxes, levies, duties etc. on input goods/services/work shall be made. Such impact shall be taken care of by the Price Variation/Adjustment Clause (PVC) if any. In case PVC is not applicable for the contract, Bidder has to make his own assessment of the impact of future variation if any, in rates of taxes/duties/ levies etc. in his price

5.07 The Contract Value for the purpose of Offer Evaluation, Work Order and Security Deposit shall be as following.

Contract Value for Offer Evaluation & Work Order (Award Value):

- (i) Total amount payable towards mobilization and de-mobilization (As fixed by BHEL, refer Clause 5.02).
- (ii) Total hire charge of Crane for the Regular Duration of the crane as per Tender Specification.

Contract Value for Security Deposit (SD):

At the beginning of contract, the Security Deposit shall be calculated according to the awarded Contract Value. Subsequently amount of SD shall be regulated based on the Contract Value that is arrived at after taking care of time extensions, short closure etc. Accordingly contractor shall pay additional amount of SD or BHEL will adjust/refund excess SD if any.

06.1 Earnest Money Deposit:

- i) EMD for this tender is Rs. 2,00,000/- (Rupes Two Lakh only).
- ii) Bidders who have already deposited One Time EMD of Rs. 2.00 lakh are exempted from submission of EMD for this tender. However a copy of 'One Time EMD' certificate issued by BHEL/PSWR, Nagpur shall be enclosed along with the Offer.
- iii) EMD is to be paid in cash (as permissible under Income Tax Act), Pay order or Demand Draft in favour of Bharat Heavy Electricals Limited and payable at Nagpur.
- iv) No other form of EMD remittance shall be acceptable to BHEL.

EMD by the bidder will be forfeited as per Tender Documents if

- After opening the tender, the bidder revokes his tender within the validity period or increases his earlier quoted rates.
- ii) The bidder does not commence the work within the period as per LOI/Contract. In case the LOI / contract is silent in this regard then within 15 days after award of contract.

EMD shall not carry any interest.

In the case of unsuccessful bidders, the Earnest Money will be refunded to them after acceptance of tender by successful bidder

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Security Deposit

Security Deposit shall be furnished by the successful bidder. The rate of Security Deposit will be as below:

SN	Contract Value	Security Deposit Amount			
1	Up to Rs. 10 lakhs	10% of Contract Value			
2	Above Rs. 10 lakhs upto Rs.50 lakhs	1 lakh + 7.5% of the Contract Value exceeding Rs. 10 lakhs.			
3	Above Rs. 50 lakhs	Rs 4 lakhs + 5% of the Contract Value exceeding Rs. 50 lakhs.			

The security Deposit should be furnished before start of the work by the contractor.

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, 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 on the back).
- v. Bank Guarantee from Scheduled Banks / Public Financial Institutions as defined in the Companies Act. 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.
- 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 remitted (either by cash/DD or BG for maximum 50% of total SD) before start of the work and the balance 50% may be recovered from the running bills.
- viii. EMD of the successful bidder shall be converted and adjusted against the cash Security Deposit excepting for such bidder who has remitted One Time EMD.
- ix. The Security Deposit shall not carry any interest.

NOTE: Acceptance of Security Deposit against SI. 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.

SECURITY DEPOSIT SHALL NOT BE REFUNDED TO THE CONTRACTOR EXCEPT IN ACCORDANCE WITH THE TERMS OF THE CONTRACT

BANK GUARANTEE

i. It is the responsibility of the bidder to get the Bank Guarantees revalidated/extended for the required period as per the advice of BHEL Site

Engineer / Construction Manager. BHEL shall not be held liable for issue of any reminders regarding expiry of the Bank Guarantees.

- ii. In case extension/further extensions of any Bank Guarantees are not required, the bidders shall ensure that the same is explicitly conveyed through the Construction Manager to BHEL PSWR/HQ, Nagpur
- iii. In case the Bank Guarantees are not extended before the expiry date, BHEL reserves the right to invoke the same by informing the concerned Bank in writing, without any advance notice/communication to the concerned bidder.
- iv. Bidders to note that any corrections to Bank Guarantees shall be done by the issuing Bank, only through an amendment in an appropriate non judicial stamp paper.
- v. Bidders to ensure that the Bank Guarantees submitted are exactly as per format given in the Tender documents.
- vi. The Original Bank Guarantee shall be sent directly by the Bank to BHEL under Registered Post (Acknowledgement Due). However, in exceptional cases, where guarantee is directly received by Vendor, the Vendor shall instruct the Bank to send an unstamped duplicate copy of the guarantee directly to BHEL under Registered Post (Acknowledgement Due).

Guidelines for acceptance of Bank Guarantees are as follows:

 Vendors are advised to obtain BG from any of the following BHEL consortium banks

State Bank of India The Hongkong and Shanghai banking

Corporation Ltd.

ICICI Bank Ltd ABN Amro Bank N.V

Bank of Baroda IDBI Ltd

Canara Bank
Citi bank N.A
Corporation Bank
Standard Chartered Bank
State Bank of Travancore

Detshe Bank State Bank of Hydrabad

HDFC Bank Ltd Syndicate Bank

- The Bank Guarantees of all Public sector banks shall be accepted (Other than consortium banks also).
- The Bank Guarantees of Co-operative banks shall not be accepted.
- Bank Guarantees of other banks (banks other than consortium bank, public sector bank, & Co-operative banks) can be accepted subject to an overall exposure limit (at BHEL, PSWR, Nagpur) of RS. 10 crores for banks with net worth of more than Rs. 500 crores as on last balance sheet date and Rs 5 crores for banks with net worth between Rs. 350 to Rs 500 crores (A certificate and copy of latest Balance Sheet to be given at the time of submission of bank guarantees.

In case Bank Guarantees given by non consortium banks (Private sector or Public sector), the bank Guarantees shall be enforceable at Nagpur, Maharastra

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7.0 PAYMENT TERMS

7.1

The contractor shall submit his Running Account (RA) Bills towards mobilization, monthly charges, de-mobilization charges and Service Tax etc with all the details required by BHEL on or before the specified date every month. Payment of Monthly Hire Charges as certified by the BHEL Engineer-in-Charge will be made once in a calendar month at BHEL Site. Billing cycle may be as per mutually agreed cut-off dates.

7.2

Payment for RA Bills will normally be released in around 30 days of submission of the bill with measurement/log sheets. Contractor shall make his own arrangement for making payment of impending labour wages and other dues in the meanwhile.

7.3

Monthly hiring period shall be considered for payment purpose from the date of successful load testing of the crane and till the crane withdrawn for de-mobilization.

7.4

No advance payments shall be made by BHEL for this contract.

7 5

Payment towards mobilization and de-mobilisation of crane shall be made in the manner as specified below.

- First 50% of the specified amount for mobilization and demobilization will be paid after deployment of the crane complete in all respects including all assemblies, sub-assemblies, accessories & components, assembly of crane as required by BHEL and BHEL's acceptance of load test of assembled crane at site.
- 2. Remaining 50% of the specified amount for mobilization and demobilization will be paid after removing the crane from the project site and clearing the site premises in all respect.

7.6 PRO RATA DAILY & HOURLY HIRE CHARGES

In case services are availed for part of a calendar month, pro-rata payment of Hire Charge for the utilized number of days shall be made by BHEL. Pro-rata daily hire charge shall be calculated as follows.

- 7.6.1 Pro Rata Daily Hire Charge = Monthly Hire Charge divided by 30
- 7.6.2 Pro Rata Hourly Hire Charge = Monthly Hire Charge divided by 360

7.7 HOURLY OVERTIME CHARGE

If the crane is required beyond the normal working hours as stipulated in this tender specification, overtime payment shall be made as following.

Hourly Overtime Charge = 15% of Pro Rata Hourly Hire Charge (as in 7.6.2)

8.0 SERVICES IN EXTENDED HOURS

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Services of the cranes with crew may be needed by BHEL beyond the specified regular working hours. Prior consent from BHEL's Construction Manager shall be obtained by the contractor for rendering such services. Payment for the same shall be made along with the concerned month's Hire Charges bill on pro-rata basis as per clause 7.7 earlier here

9.0

Safety, Occupational Health and Environmental Management

BHEL PSWR has been certified for Environmental Management under ISO 14001:1996 standard and Occupational Health & Safety under OHSAS 18001 by DNV. In order to comply with the above standards, it shall be the endeavour of BHEL and all its subcontractors to meet and implement the requirements by following the guidelines issued under Environmental, Occupational Health and Safety Management (EHS) manual a copy of which will be available with the BHEL Site-in-charge.

Contractor shall also enter into a "Memorandum of Understanding" as given in clause 9.9 in case of award of contract.

9.0 Responsibility of the Contractor in Respect of Safety of Men, Equipment, Material and Environment.

9.1 The Contractor shall:

9.1.1

Abide by the Safety Regulations applicable for the Site/Project and in particular as mentioned in the booklet "Safe Work Practices" issued by BHEL. Contractors are also to ensure that their employees and workmen use safety equipments as stipulated in the Factories Act (Latest Revision) during the execution of the work. Failure to use safety equipment as required by BHEL Engineer will be a sufficient reason for issuance of memo, which shall become part of Safety evaluation of the contractor at the end of the Project. Also all site work may be suspended if it is found that the workmen are employing unsafe working practice and all the costs/losses incurred due to suspension of work shall be borne by contractor. A comprehensive list of National Standards from which the contractor can draw references for complying with various requirements under this section is given under 9.10

91.2

Hold BHEL harmless and indemnified from and against all claims, cost and charges under Workmen's Compensation Act 1923 and 1933 and any amendment thereof and the contractor shall be solely responsible for the same.

9.1.3

Abide by the Procedure governing entry/exit of the contractor's personnel within the Customer/Client premises. All the contractors employees shall be permitted to enter only on displaying of authorized Photo passes or any other documents as authorized by the Customer/Client.

914

Be fully responsible for the identity, conduct and integrity of the personnel/workers engaged by them for carrying out the contract work and ensure that none of them are ever engaged in any anti national activity

915

Prepare a signboard giving the following information and display it near work site:

i) Name of Contractor

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- ii) Name of Contractor Site-in-charge & Telephone number
- iii) Job Description in short
- iv) Date of start of job
- v) Date of expected completion
- vi) Name of BHEL Site-in-charge.

9.1.6

Abide by the rules and regulations existing during the contract period as applicable for the contractors at the Project premises.

9.1.7

Observe the timings of work as advised by BHEL Engineer-in-charge for carrying out the contract work.

9.2 **SPECIAL CONDITIONS**

9.2.1 **Safety**

9.2.1.1 **Safety Plan**

Before commencing the work, contractor shall submit a "safety plan" to the authorized BHEL official. The safety plan shall indicate in detail the measures that would be taken by the contractor to ensure safety to men, equipment, material and environment during execution of the work. The plan shall take care to satisfy all requirements specified hereunder.

The contractor shall submit "safety plan" before start of work. During negotiations, before placing of work order and during execution of the contract, BHEL shall have right to review and suggest modifications in the safety plan. Contractor shall abide by BHEL's decision in this respect.

9.2.1.2

The contractor shall take all necessary safety precautions and arrange for appropriate appliances and/or as per direction of BHEL or it's authorized person to prevent loss of human lives, injuries to men engaged and damage to property and environment.

9.2.1.3

The contractor shall provide to his work force and also ensure the use of Personnel Protection Equipment (PPE) as found necessary and/or as directed and advised by BHEL officials without which permission is liable to be denied.

- > Safety helmets conforming to IS 2925/1984 (1990)
- > Safety belts conforming to IS 3521/1989
- > Safety shoes conforming to IS 1989 part-II /1986(1992)
- > Eye and face protection devices conforming to IS 2573/1986(1991), IS 6994 (1973), part-I (1991), IS 8807/1978 (1991), IS 8519/1977(1991).
- ➤ Other job specific PPEs of standard ISI make as may be prescribed

9214

All tools, tackles, lifting appliances, material handling equipment, scaffolds, cradles, cages, safety nets, ladders, equipment, etc used by the contractor shall be of safe design and construction. These shall be tested and certificate of fitness obtained before putting them to use and from time to time as instructed by authorized BHEL official who shall have the right to ban the use of any item found to be unsafe.

9.2.1.5

All electrical equipment, connections and wiring for construction power, its distribution and use shall conform to the requirements of Indian Electricity Act and Rules. Only electricians

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licensed by the appropriate statutory authority shall be employed by the contractor to carryout all types of electrical works. All electrical appliances including portable electric tools used by the contractor shall have safe plugging system to source of power and be appropriately earthed.

9.2.1.6

The contractor shall not use any hand lamp energized by electric power with supply voltage of more than 24 volts. For work in confined spaces, lighting shall be arranged with power source of not more than 24 volts.

9217

The contractor shall adopt all fire safety measures as per relevant Indian Standards

9.2.1.8

Where it becomes necessary to provide and/or store petroleum products, explosives, chemicals and liquid or gaseous fuel or any other substance that may cause fire or explosion, the contractor shall be responsible for carrying out such provisions and/or storage in accordance with the rules and regulations laid down by the relevant government acts, such as petroleum act, explosives act, petroleum and carbides of calcium manual of the chief controller of explosives, Government of India etc. The contractor in all such matters shall also take prior approval of the authorized BHEL official at the site.

9.2.1.9

Proper means of access must be used e.g. ladders, scaffolds, platforms etc. No makeshift access such as oil drums or pallets shall be used. Design of these will be in accordance with relevant standards and certified by competent persons before use.

92110

Temporary arrangements made at Site for lifting, platforms, approach access etc should be properly designed and approved before being put to use.

9.2.1.11

All excavations and openings must be securely and adequately fenced/barricaded and warning signs erected when considered necessary as per relevant code of practice.

9.2.1.12

No persons shall remove guardrails, covers or protective devices unless authorized by a responsible supervisor and alternative precautions have been taken

9.2.1.13

Access ways, means of escape and fire exits shall be clearly marked, kept clear and unobstructed at all times

9.2.1.14

Only authorized persons holding relevant license will drive and operate site plant and equipments e.g. cranes, dumpers, excavators, transport vehicles etc

Only authorized personnel are allowed to repair, commission electrical equipments.

Gas Cylinders shall be handled and stored as per Gas Cylinders Rules and relevant safe working practices

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9.2.1.17

All wastes generated at Site shall be segregated and collected in a designated place so as to prevent spillage/contamination/scattering at Site, until the waste is lifted for disposal to designated disposal area as advised by BHEL official.

9.2.1.18

The contractor shall arrange at his cost (wherever not specified) appropriate illumination at all work spots for safe working when natural day light is not adequate for clear visibility.

92119

The contractor shall train adequate number of workers/supervisors for administering "FIRST AID". List of competent first aid administers should be prominently displayed.

9.2.1.20

The contractor shall display at strategic places and in adequate numbers the following in fluorescent markings

- >Emergency telephone numbers
- ➤ Exit, Walkways
- Safe working load charts for wire ropes, slings, D shackles etc
- ➤ Warning signs

9.2.1.21

The contractor shall be held responsible for any violation of statutory regulations (local, state or central) and BHEL instructions that may endanger safety of men, equipment, material and environment in his scope of work or other contractors or agencies. Cost of damage, if any, to life and property arising out of such violation of statutory regulations and BHEL instructions shall be borne by the contractor.

9.2.1.22

In case of a fatal or disabling injury/accident to any person at construction sites due to lapses by the contractor, the victim and/or his/her dependents shall be compensated by the contractor as per statutory requirements. However, if considered necessary, BHEL shall have the right to impose appropriate financial penalty on the contractor and recover the same from payments due to the contractor for suitably compensating the victim and/or his/her dependents. Before imposing any such penalty, appropriate enquiry shall be held by BHEL giving opportunity to the contractor to present his case.

9.2.1.23

In case of any damage to property due to lapses by the contractor, BHEL shall have the right to recover cost of such damages from payments due to the contractor after holding an appropriate enquiry.

9.2.1.24

In case of any delay in the completion of a job due to mishaps attributable to lapses by the contractor, BHEL shall have the right to recover cost of such delay from payments due to the contractor after notifying the contractor suitably and giving him opportunity to present his case.

9.2.1.25

If the contractor fails to improve the standards of safety in its operation to the satisfaction of BHEL after being given a reasonable opportunity to do so, and/or if the contractor fails to

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take appropriate safety precautions or to provide necessary safety devices and equipment or to carry out instructions regarding safety issued by the authorized BHEL official, BHEL shall have the right to take corrective steps at the risk and cost of the contractor after giving a notice of not less than seven days indicating the steps that would be taken by BHEL.

9.2.1.26 <u>Emergency Response</u>

BHEL will have an Emergency Response Plan for each Project Site in consultation with the Owner as the case may be, detailing the procedure for mobilization of personnel and equipment, and defining the responsibilities of the personnel indicated, in order to prepare for any emergency that may arise in order to ensure the priorities of

- Safeguard of life
- > Protect assets under construction or neighbouring
- Protect environment
- Resumption of normal operations as soon as the emergency condition is called off

All Contractors shall also be part of the Emergency response Plan and the personnel so nominated shall be aware of their duties and responsibilities in an emergency response situation.

9.2.1.27

At least 5% Contractors supervisors and workmen shall undergo training in administering 'First Aid'. The trained persons should represent for all categories of work and for all areas of work. Adequate number of trained persons should be available for each shift. These first aides shall be included in the emergency response team. Contractor employees and workmen are encouraged to participate in first aid training programmes whenever organized by BHEL.

9.2.2 OCCUPATIONAL HEALTH

9.2.2.1

Specific occupational health hazards will be identified through the hazard evaluation processes in consultation with BHEL engineers and the necessary prevention/reduction/elimination methods implemented.

0222

All personnel working in an activity with a potential risk to health shall be made aware of all those risks and the actions they must take to reduce/control/eliminate the risk

9.2.2.3

Safety coordinator shall conduct periodic checks to ensure that every group of workers engaged in similar activities are aware of potential risks to health and the actions required to be taken to mitigate the risk

9.2.2.4

In order to protect personnel from associated health hazards, the following main areas will be focused

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- Issue of approved Personnel Protective Equipment
- ➤ Verification that the PPE are adequate/maintained and worn by all staff involved in operations that are potentially hazardous to their health

- > Ensure that the personnel deployed are physically fit for the operation/work concerned
- Provide hygienic and sanitary working conditions

9.2.2.5

Contractor workers employees engaged in noise risk areas shall be issued with hearing protection aids and the use of the same will be enforced. Further, these workers will be educated on the hazards of noise

9.2.2.6

Contractor workers engaged in dust environment shall be issued with necessary dust protection aids and the use of the same shall be enforced

9.2.2.7

Workers engaged in exposure to bright light/rays as in welding or radiation shall be issued with eye protection devices and the use of the same shall be enforced

9.2.2.8

Adequate arrangements shall be made to provide safe drinking water 9.2.2.9

Health monitoring records on at least sample basis for contractor employees & workmen shall be maintained for persons engaged in specified categories of work. These shall include

- Noise induced hearing loss
- Lung Function test
- > Ergonomic Test
- > Eye Test for Welders, Grinders, Drivers etc

9.2.3.0 HYGIENE and HOUSEKEEPING

9.2.3.1

Good house keeping and proper hygiene is one of the key requirements of Occupational Health Safety and Environment management. Towards this the contractor shall encourage his workers and supervisors to maintain cleanliness in their area of work.

9.2.3.2

The Contractor shall arrange to place waste bins/chutes at convenient locations for the collection of scrap and other wastes. The bins shall be clearly marked and segregated for metal, non-metal, hazardous and non hazardous wastes.

9.2.3.3

BHEL may take up appropriate remedial measures at the cost of the contractors if the contractors fail in good house keeping and if there is an imminent risk of pollution

9.2.4 ENVIRONMENT MANAGEMENT

9.2.4.1

BHEL has a sound environmental management system, which is to be maintained and implemented by all the contractors. The system allows for project specific objectives to be set and developed sensitive to client requirements, applicable environmental legislation and BHEL's own objectives and policy. BHEL engineers will assess and monitor the

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environmental impact of their work and lay out objectives for their minimization. The contractors shall implement the objectives for continual improvement of environmental performance. BHEL shall regularly audit environmental impacts and their improvements.

9.2.4.2 WASTE MANAGEMENT

9.2.4.3.1

The objective of waste management is to ensure the safe and responsible disposal of waste, ensuring that it is correctly disposed of and being able to audit the process to ensure compliance.

9.2.4.3.2

Chemical wastes if any shall be collected separately and disposed of to BHEL designated refuse yard as per BHEL advice.

9.2.4.3.3

No dangerous chemicals, noxious waste products or materials will be disposed off on or off site without approval obtained through BHEL.

9.2.4.3.4

All disposal of wastes generated during construction shall be in accordance with all relevant legislation.

9.2.4.3.5

Acid and alkali cleaning wastes shall be neutralized to acceptable norms before disposal to the designated area.

9.2.4.3.6

All necessary measures shall be taken to ensure safe collection and disposal of waste oils. In particular to ensure the prevention of their discharge into surface waters, ground waters, coastal waters or drainages

9.3 SUPERVISION

931

Contractor must provide at least one full time on site safety coordinator when the manpower engaged is in excess of 50 for the contract activities in the premises. If the manpower is less than 50, the on site safety coordination responsibilities shall be assumed by any one of the contractor's other supervisory staff; however in both the cases, the contractor must specify in writing the name of such persons to the BHEL Engineer in Charge.

9.3.2

Contractor's safety coordinator or his supervisor responsible for safety as the case may be shall conduct at his work site, and document formal safety inspection and audits at least once in a week. Such documents are to be submitted to BHEL Engineer in Charge for his review and record.

Contractor, supervisor must attend all schedule safety meetings as would be intimated to him by the BHEL Engineer in Charge.

9.3.3

Before starting work under any contract, the contractor must ensure that a job specific safety procedures/field practices as required over and above the safety permit conditions are prepared and followed .He should also ensure that all supervisors and workers involved understand and follow this procedures /field practices.

9.3.4

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Contractor must ensure that in his work site appropriate display boards are put displaying signs for site safety, potential hazards and precautions required.

9.4.0 TRAINING & AWARENESS

9.4.1

Contractor shall deploy experienced supervisors and other manpower who are well conversant with the safety and environment regulations of the Project. The electricians to be deployed on the job should have wireman license.

9.4.2

All Supervisors & Workmen of the Contractor shall undergo Fire safety training/demonstration whenever arranged by BHEL with the help of either Customer's Fire and Safety department or outside faculty so as to acquire knowledge of fire prevention and also to be able to make use of appropriate fire extinguishers.

9.4.3

Contractor must familiarize himself from BHEL Engineer in Charge about all known potential fire, explosion or toxic release hazards related to the contract. He in turn will ensure that same information has been passed to the supervisors and workmen

944

Contractor must ensure that all his supervisors are properly trained and each employee has received and understood from his supervisor necessary training and briefing about the safety requirement. Necessary document as a means to verify that employees have understood the training is to be maintained.

9.4.5

The contractor supervisors shall also give a small safety briefing to all the workmen under his charge before undertaking any new work and specially understand the safety requirements that are mandatory

9.5.0 **REPORTING**

951

The contractor shall submit report of all accidents, fires and property damage, dangerous occurrences to the authorized BHEL official immediately after such occurrence but in any case not later than twelve hours of the occurrence. Such report shall be furnished in the manner prescribed by BHEL and also to meet statutory requirement.

9.5.2

Any injury sustained by any of the contractor's employees within the Project premises must be reported to BHEL supervisor and FIRST AID should be immediately administered. The Contractor shall be responsible for keeping and maintaining proper records of Accidents to his personnel.

9.5.3

Contractor must arrange to immediately investigate, properly document and report any injury, accident or near miss involving any of his employees and take appropriate follow up action. He must furnish within 12 hours of the incident a written report to BHEL Engineer in charge and the Safety Section.

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According to the Factory Act and the Employees state Insurance Act & regulation, any person sustaining any injury within the project premises and absenting himself from work for more than 46 hours, his accident report has to be sent to the respective Government Authorities. Therefore contractor shall inform the owner's representative such matter immediately for their needful action.

9.5.5

In addition, contractor shall submit periodic reports on safety to the authorised BHEL official from time to time as prescribed.

9.5.6

Before commencing the work, the contractor shall appoint/nominate a responsible officer to supervise implementation of all safety measures and liaison with his counterpart of BHEL.

9.6 AUDIT REVIEW AND INSPECTION

9.6.1

BHEL shall conduct audit on the contractor performance and compliance with the project specific requirements of the Environment and Occupational Health & Safety Management systems. The programme of audit shall cover all activities under the contract but will focus particularly on high-risk activities. The Construction Manager shall decide the schedule of audit. The audit findings shall be communicated to the contractors and necessary remedial action as advised by BHEL Engineers shall be under taken within the stipulated time.

9.6.2

Inspections shall be carried out regularly by the contractors and by BHEL Engineers on activities, facilities, equipment, documentation, to cover the following aspects.

- Compliance with procedures and systems
- > Availability, condition and use of PPE
- > Condition of maintenance tools, equipments, facilities
- > Availability of fire fighting equipments and its condition
- > Use of fire fighting equipments and first aid kit
- Awareness of occupational health hazard
- > Awareness of safe working practices
- > Presence of quality supervision
- ➤ Housekeeping

The Safety coordinator shall visit and inspect work sites daily. All unsafe acts, unsafe conditions that have imminent potential for causing harm/injury/damage will be immediately corrected. He shall maintain a daily logbook giving details of unsafe acts or conditions observed and the corrective action taken and recommendations for preventing recurrence. Adequacy of corrective actions will be verified

The contractor shall take remedial measures as per the findings of each inspection Besides the above, the contractor shall be required to carry out the following inspections

SI no	Equipment	Scope of inspection	Inspection by	Schedule
1	Hand tools	To identify unsafe/defective tool	User	Daily
2	Power tools	To identify unsafe/defective tool	User	Daily

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3	Fire Extinguishers	To check pressure and any defect	User / Safety Coordinator	Daily Every month
4	Lifting equipment/tackle s	To check for defects and efficacy of brakes	User Third party	Daily Every Year
5	PPE	To check for defects	User	Daily

9.7 NON COMPLIANCE:-

9.7.1 NONCONFORMITY OF SAFETY RULES AND SAFETY APPLIANCES WILL BE VIEWED SERIOUSLY AND THE BHEL HAS RIGHT TO IMPOSE FINES ON THE CONTRACTOR AS UNDER for every instance of violation noticed:

SI. No	Instance of Violation	Fine (in Rs)
01	Not Wearing Safety Helmet	50/-
02.	Not wearing Safety Belt	100/-
03.	Grinding Without Goggles	50/-
04.	Not using 24 V Supply For Internal Work	500/-
05.	Electrical Plugs Not used for hand Machine	100/-
06.	Not Slinging property	200/-
07.	Using Damaged Sling	200/-
08.	Lifting Cylinders Without Cage	500/-
09.	Not Using Proper Welding Cable With Lot of Joints And Not Insulated Property.	200/-
10.	Not Removing Small Scrap From Platforms	200/-
11.	Gas Cutting Without Taking Proper Precaution or Not Using Sheet Below Gas Cutting	200/-
12.	Not Maintaining Electric Winches Which are Operated Dangerously	500/-
13.	Improper Earthing Of Electrical T&P	500/-
	Major Accident or Accidents causing partial loss of earning	50,000/-
	to the victim	per victim
14	Fatal Accident or Accidents causing permanent loss of	1,00,000/-
	earning to the victim	per victim

Any other non-conformity noticed not listed above will also be fined as deemed fit by BHEL. The decision of BHEL engineer is final on the above. The amount will be deducted from running bills of the contractor. The amount collected above will be utilised for giving award to the employees who could avoid accident by following safety rules. Also the amount will be spent for purchasing the safety appliances and supporting the safety activity at site.

<u>CITATION:</u>-If safety record of the contractor in execution of the awarded job is to the satisfaction of safety department of BHEL, issue of an appropriate certificate to recognize the safety performance of the contractor may be considered by BHEL after completion of the job

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9.9 Memorandum of Understanding

After Award Of Work, Contractors Are Required To Enter Into A Memorandum Of Understanding As Given Below:

Memorandum of Understanding

BHEL, PSWR is committed to Health, Safety and Environment Policy (EHS Policy) as given in the booklet titled "Safe Working Practices" issued to all contractors.

M/S	do hereby also commit to the same EHS
Policy while executing the Con	tract Number
limited to the above bookle	shall ensure that safe work practices not are followed by all construction workers and tent therein shall be reached to all workers and
BHEL will be carrying out EHS	S audits twice a year and M/sconformity observed/reported within fifteen days.
Signed by authorized represen	ntative of M/s
Name :	
Place & Date:	

9.10Comprehensive list of National Standards for reference and use wherever applicable in the execution of Civil, Erection and Commissioning Contracts.

IS No	YEAR	Amd upto	DESCRIPTION
IS 10204	1982		PORTABLE FIRE EXTINGUISHERS MECHANICAL FOAM TYPE
IS 10245	1994		SPECIFICATION FOR BREATHING APPARATUS
IS 10291	1982		SAFETY CODE FOR DRESS DRIVERS IN CIVIL ENGINEERING WORKS
IS 10658	1983		HIGHER CAPACITY DRY POWDER FIRE EXTINGUISHERS (TROLLEY MOUNTED)
IS 10662	1992		COLOUR TELEVISION
IS 10667	1983		GUIDE FOR SELECTION OF INDUSTRIAL SAFETY EQUIPMENT FOR PROTECTION OF FOOT AND LEG
IS 11037	1984		ELECTRONIC FAN REGULATORS
IS 11057	1984		INDUSTRIAL SAFETY NETS
IS 11451	1998		RECOMMENDATION FOR SAFETY AND HEALTH REQUIREMENT RELATING TO OCCUPATION EXPOSURE TO ASBESTOS
IS 1169	1967		PEDESTAL FANS
IS 1179	1967		SPECIFICATION FOR EQUIPMENT FOR EYE AND FACE PROTECTION DURING WELDING
IS 11833	1986		DRY POWDER FIRE EXTINGUISHERS FOR METAL FIRES
IS 11972	1987		CODE OF PRACTICE FOR SAFETY PRECAUTION TO BE TAKEN WHEN ENTERING A SEWARAGE SYSTEM

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IS No	YEAR	Amd upto	DESCRIPTION
IS 1287	1986		ELECTRIC TOASTER
IS 13063	1991		STRUCTURAL SAFETY OF BUILDINGS ON SHALLOW FOUNDATIONS ON ROCKS
IS 13385	1992		SPECIFICATIONS FOR FIRE EXTINGUISHERS 50 LITRE WHEEL MOUNTED WATER TYPE (GAS CARTRIDGES)
IS 13386	1992		SPECIFICATIONS FOR FIRE EXTINGUISHERS 50 LITRE MECHANICAL FOAM TYPE
IS 13415	1992		CODE OF SAFETY FOR PROTECTIVE BARRIERS IN AND AROUND BUILDINGS
IS 13416	1992		RECOMMENDATIONS FOR PREVENTIVE MEASURES AGAINST HAZARDS AT WORKING PLACE PART 1 TO PART 5
IS 13430	1992		CODE OF PRACTICE FOR SAFETY DURING ADDITIONAL CONSTRUCTION AND ALTERATION TO EXISTING BUILDINGS
IS 13849	1993		PORTABLE FIRE EXTINGUISHERS DRY POWDER TYPE (CONSTANT PRESSURE)
IS 1446	1985		CLASSIFICATION OF DANGEROUS GOODS (FIRST REVISION)
IS 1476	1979		REFRIGERATORS
IS 1641	1988		CODE OF PRACTICE FOR FIRE SAFETY OF BUILDINGS (GENERAL): GENERAL PRINCIPLES OF FIRE GRADING AND CLASSIFICATION
IS 1642	1989		CODE OF PRACTICE FOR FIRE SAFETY OF BUILDINGS- DETAILS OF CONSTRUCTION
IS 1643	1988		CODE OF PRACTICE FOR FIRE SAFETY OF BUILDINGS (GENERAL): EXPOSURE HAZARD
IS 1646	1997		CODE OF PRACTICE FOR FIRE SAFETY OF BUILDINGS (GENERAL): ELECTRICAL INSTALLATIONS
IS 1904	1986		CODE OF PRACTICE FOR DESIGN AND CONSTRUCTION OF FOUNDATIONS IN SOIL
IS 1905	1987		STRUCTURAL SAFETY OF BUILDINGS MASONARY WALLS
IS 2082	1985		ELECTRICAL GEYSERS
IS 2171	1985		PORTABLE FIRE EXTINGUISHERS DRY POWDER TYPE (CARTRIDGE)
IS 2309	1989		PRACTICE FOR THE PROTECTION OF BUILDINGS AND ALLIED BUILDINGS AGAINST LIGHTENING
IS 2312	1967		EXHAUST FANS
IS 2361	1994		SPECIFICATION FOR BUILDING GRIPS - FIRST REVISION
IS 2418	1977		TUBULAR FLUORSCENT LAMPS IS 2418 (FT-1)
IS 2750	1964		STEEL SCAFFOLDINGS
IS 2762	1964		SAFE WORKING LOADS IN KGS FOR WIRE ROPE SLINGS
IS 2878	1986		FIRE EXTINGUISHERS CARBON DIOXIDE TYPE (PORTABLE AND TROLLEY MOUNTED)
IS 2925	1984		SPECIFICATION FOR INDUSTRIAL SAFETY HELMETS
IS 3016	1982		CODE OF PRACTICE FOR FIRE PRECAUTIONS IN WELDING AND CUTTING OPERATIONS- FIRST REVISION
IS 3315	1974		DESERT COOLERS
IS 3521	1989		INDUSTRIAL SAFETY BELTS AND HARNESS
IS 368	1983		IMMERSION WATER HEATERS
IS 3696	1991		SAFETY CODE OF SCAFFOLDS AND LADDERS PART 1 TO 2
IS 3737	1996		LEATHER SAFETY BOOTS FOR WORKERS IN HEAVY METAL

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IS No	YEAR	Amd upto	DESCRIPTION
			INDUSTRIES
IS 374	1979		CEILING FANS INCLUDING REGULATORS
IS 3764	1992		EXCAVATION WORK - CODE OF SAFETY
IS 3786	1983		METHOD FOR COMPUTATION OF FREQUENCY AND SEVERITY RATES FOR INDUSTRIAL INJURIES AND CLASSIFICATION OF INDUSTRIAL ACCIDENTS
IS 3935	1966		CODE OF PRACTICE FOR COMPOSITE CONSTRUCTION
IS 4014	1967		CODE OF PRACTICE FOR STEEL TUBULAR SCAFFOLDING
IS 4081	1986		SAFETY CODE FOR BLASTING AND RELATED DRILLING OPERATIONS
IS 4082	1977	1996	STACKING AND STORAGE OF CONSTRUCTION MATERIALS AND COMPONENTS AT SITE
IS 4130	1991		DEMOLITION OF BUILDINGS - CODE OF SAFETY PART 1 TO 2
IS 4138	1977		SAFETY CODE FOR WORKING IN COMPRESSED AIR (FIRST REVISION)
IS 4155	1966		GLOSSARY OF TERMS RELATING TO CHEMICAL AND RADIATION HAZARDS AND HAZARDOUS CHEMICALS
IS 4209	1967		CODE OF SAFETY FOR CHEMICAL LABORATORY
IS 4250	1980		FOOD MIXERS
IS 4262	1967		CODE OF SAFETY FOR SULFURIC ACID
IS 4756	1978		SAFETY CODE FOR TUNNELING WORK
IS 4912	1978		SAFETY REQUIREMENTS FOR FLOOR AND WALL OPENINGS, RAILINGS AND TOE BOARDS
IS 5121	1969		SAFETY CODE FOR PILING AND OTHER DEEP FOUNDATIONS
IS 5182	1969	1982	METHODS FOR MEASUREMENT OF AIR POLLUTION
IS 5184	1969		CODE OF SAFETY FOR HYDROFLUORIC ACID
IS 5216	1982	2000	RECOMMENDATIONS ON SAFETY PROCEDURES AND PRACTICE IN ELECTRICAL WORK PART I AND II
IS 555	1979		TABLE FANS
IS 5557	1995		INDUSTRIAL AND SAFETY LINED RUBBER BOOTS (SECOND REVISION)
IS 5916	1970		SAFETY CODE FOR CONSTRUCTION INVOLVING USE OF HOR BITUMINOUS MATERIALS
IS 5983	1980		SPECIFICATION FOR EYE PROTECTORS - FIRST REVISION
IS 6234	1986		PORTABLE FIRE EXTINGUISHERS WATER TYPE (STORED PRESSURE)
IS 692	1994		CRITERIA FOR SAFETY AND DESIGN OF STRUCTURES SUBJECTED TO UNDERGROUND BLASTS
IS 6994	1973		SPECIFICATION FOR SAFETY GLOVES
IS 7155	1986		CODE OF RECOMMENDED PRACTICE FOR CONVEYOR SAFETY (PART 1 TO 8)
IS 7205	1974		SAFETY CODE FOR ERECTION OF STRUCTURAL STEEL WORK
IS 7293	1974		SAFETY CODE FOR WORKING WITH CONSTRUCTION MACHINERY
IS 7323	1994		GUIDELINES FOR OPERATIONS OF RESERVOIRS
IS 7812	1975		CODE OF SAFETY FOR MERCURY

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IS No	YEAR	Amd upto	DESCRIPTION
IS 7969	1975		SAFETY CODE FOR HANDLING AND STORAGE OF BUILDING MATERIALS
IS 8089	1976		CODE OF SAFE PRACTICE FOR LAYOUT OF OUTSIDE FACILITIES IN AN INDUSTRIAL PLANT
IS 8091	1976		CODE OF PRACTICE FOR INDUSTRIAL PLANT LAYOUT
IS 8095	1976		ACCIDENTS PREVENTION TAGS
IS 818	1968	1997	CODE OF PRACTICE FOR SAFETY AND HEALTH REQUIREMENTS IN ELECTRIC AND GAS WELDING, AND CUTTING OPERATIONS
IS 8448	1989		AUTOMATIC LINE VOLTAGE CORRECTOR (STABILISER)
IS 8519	1977		GUIDE FOR SELECTION OF INDUSTRIAL SAFETY EQUIPMENT FOR BODY PROTECTION
IS 8520	1977		GUIDE FOR SELECTION OF INDUSTRIAL SAFETY EQUIPMENT FOR EYE, FACE AND EAR PROTECTION
IS 875	1987		STRUCTURAL SAFETY OF BUILDING: LOADING STANDARD PART 1 TO 5
IS 8807	1978		GUIDE FOR SELECTION OF INDUSTRIAL SAFETY EQUIPMENT FOR PROTECTION OF ARMS AND HANDS
IS 8978	1985		INSTANTANEOUS WATER HEATERS
IS 8989	1978		SAFETY CODE FOR ERECTION OF CONCRETE FRAMED STRUCTURES
IS 940	1989		PORTABLE FIRE EXTINGUISHERS WATER TYPE (GAS CARTRIDGE)
IS 9457	1980		SAFETY COLOURS AND SIGNS
IS 9679	1980		CODE OF SAFETY FOR WORK ENVIRONMENTAL MONITORING
IS 9706	1997		CODE OF PRACTICE FOR THE CONSTRUCTION OF AERIAL RPEWAYS FOR THE TRANSPORTATION OF MATERIAL
IS 9759	1981		GUIDELINES FOR DEWATERING DURING CONSTRUCTION
IS 9815	1989		SERVO MOTOR OPERATED LINE VOLTAGE CORRECTOR (SERVO STABILISER)
IS 9944	1992		RECOMMENDATIONS ON SAFE WORKING LOAD FOR NATURAL AND MAN-MADE FIBRE ROPE SLINGS
IS 996	1979		SINGLE PHASE ELECTRIC MOTORS
ISO 3873	1977		SAFETY HELMET

others at site.

10 BREAK IN SERVICES DUE TO BREAKDOWN, ABSENCE OF OPERATING CREW ETC.: DISALLOWANCE OF RENTAL/ OFFSETTING OF LOST HOURS

10.1

The contractor shall ensure 100% availability of the services of crane. If however there is any breakdown of the crane, the services shall be restored at the earliest so as not to affect the work at project site. **Disallowance in monthly rental charge** shall be made towards non-availability of services of crane for any reasons whatsoever as under:

10.1.1 Individual Incidences of Breakdown

a) Up to 4 (four) hours in a single incidence: Single pro-rata basis.

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b) Single Incidence stretching more than four hours: Single pro-rata basis up to 4 hours, followed by double pro-rata basis for duration exceeding four hours.

10.1.2 Cumulative Breakdown Duration in a Month

- a) Up to 36 Hours in a Complete Calendar Month: Single Pro-Rate basis.*
- b) Exceeding 36 Hours in a Complete Calendar Month: Single Pro-Rata basis up to 36 hours, followed by double pro-rata basis for duration exceeding 36 hours. *
 - * In both the cases (10.1.2.a and 10.1.2.b) as above, the conditions regarding disallowance due to individual incidence of breakdown (10.1.1.a and 10.1.1.b) shall essentially be applicable irrespective of the Cumulative Duration in the month.
- 10.1.3 For billing period less than one calendar month, the limit of 36 hours shall be pro-rated as 10% of the Hire Period in number of hours (e.g. Hire Period in hours = utilized number of days in the calendar month x 12 hours per day).

10.2

BHEL may also choose to utilize the services of the crane in extended hours or on holidays to offset the lost hours due to breakdown in lieu of disallowance as stipulated above. Construction Manager BHEL shall permit offsetting of lost hours only after the incidence of such breakdown and usually within the remaining period of the concerned calendar month of breakdown. Carrying forward to subsequent months shall be at the sole discretion of BHEL construction manager.

Offsetting shall be done with express prior permission of BHEL Construction Manager by availing the services in extended hours or on holiday's maximum up to the same number of hours lost due to breakdown irrespective of the total duration or single instance duration mentioned in earlier paragraphs. Depending on the actual project requirement, BHEL may opt to offset the lost hours due to breakdown either partly or fully. In the event of partial offsetting, disallowance as in relevant clause shall be applicable for the remaining lost hours.

10.3

In case there is a major breakdown of the crane, the contractor shall repair it or substitute with similar or higher capacity crane with BHEL's prior consent (regarding acceptability of the substitute) within 15 days. Failure to do so, shall entitle BHEL to arrange alternative at the risk and cost of contractor. Disallowance of rental charge shall be applicable in accordance with relevant clause.

11.0 MOBILISATION PERIOD

Crane with crew complete in all respect shall reach project site & made available for BHEL's work after load test **within 30 (Thirty) days** from BHEL's written deployment notice.

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11.1 SCOPE FOR MOBILISATION & DEMOBILISATION

Contractor shall arrange suitable capacity assist cranes and Tools & Tackles at the respective project site for unloading of crane sub-assemblies, components, assembly, dismantling/loading of the crane during mobilization & de-mobilization of crane. Contractor shall also arrange to and fro transportation, skilled manpower and consumables at his own cost.

11.2 DAILY LOG BOOK

The contractor shall maintain a logbook in duplicate giving full operation details, preventive maintenance and Breakdown records and obtain counter signature of BHEL Engineer in Charge on a daily basis. Original log sheets shall be submitted to BHEL at regular intervals as directed by BHEL and before submission of monthly bills.

12 REPAIR & MAINTENANCE COST

The cost of repairs arising during the operation should be borne by the contractor. Necessary manpower, fuel, lubricants, tools & tackles, assist cranes and spare parts shall be made available by the contractor as a normal scope to attend the breakdowns.

13 RELIEVERS FOR OPERATING CREW

In case any member of the operating crew proceeds on leave/ is absent, the contractor shall arrange alternative beforehand for continuation of work to meet BHEL's time-bound erection programme.

14 BOOM EXTENSION & REDUCTION

First assembly of the entire crane including required boom length, as decided by Construction Manager BHEL and dismantling for demobilization are in regular scope of these services.

For any in-between requirement of boom extension or reduction of the cranes at site, the manpower, tools and tackles required shall be provided by BHEL's erection agency free of charges. However the Contractor shall extend supervisory services of the operating crew for all such instances as necessary for BHEL. This duration shall be treated as services utilized and considered for payment of hire charges.

15 <u>INSURANCE COVER FOR MEN & MATERIALS</u>

The Contractor shall arrange necessary CPM Insurance cover with appropriate Third Party Liability cover for the cranes and WC/Personal Accident Policy as applicable for the O&M crew. If any accident/injury/loss occurs due to the operation of the crane, to any other persons/ public and the properties of BHEL/client/other agencies/third party, the contractor shall have to pay necessary compensation and other expense, so decided by the appropriate authorities.

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BHEL/Client has obtained comprehensive Marine cum Erection All Risks Insurance Policy for the plant under installation and other assets of BHEL. Accidental loss/damage to these materials will be covered under this policy. Contractor shall arrange for necessary insurance cover for the assets owned by him.

16 ACCOMODATION & LOCAL CONVEYANCE

Contractor has to make their own arrangement for accommodation, local transport and other amenities for their crew at project site.

17 FITNESS OF CRANE AS HEAVY LIFTING EQUIPMENT

Contractor shall arrange and submit fitness certificate of the assembled crane at site from the statutory authority as applicable.

18 LOAD TESTING AT SITE

BHEL will provide suitable load for carrying out the load test on assembled crane, however contractor shall arrange to & fro transportation of such test load within plant premises and return the same after completion of load test at their own cost. Depending upon the availability of load, the load test shall be conducted at the appropriate radius as applicable for a particular boom length as per crane load capacity chart.

19.0 GATE PASS FOR MEN & MATERIALS

Contractor shall arrange the entry/out gate pass for their crew and materials for which necessary documents will be forwarded by BHEL to the client. Contractor shall maintain duly endorsed records of all incoming equipments to facilitate grant of outward gate pass.

20.0 LIQUIDATED DAMAGES

The bidder is to clearly understand that timely deployment of the services complete with equipment and crew is very vital to this contract. Therefore deployment of crane with all necessary attachments, components and O&M crew specified in the work order shall be made within the time limit prescribed in the contract. In case of delay in deployment beyond the period specified in the order, BHEL will have no obligation to accept the crane and reserves the right to levy liquidated damages @ 0.5% (half percent) of the Order Value for each week of delay or part thereof, subject to a maximum of 5% of the Order Value.

In exceptional cases where the reasons for delay in deployment of crane at the project site are beyond the control of the contractor (e.g., Natural Calamities, Riot, Strike and Force Mejeure conditions) extension of delivery date may be granted by BHEL on merit. Documentary evidences supporting the reasons of such delay are to be produced by the contractor.

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21.0 FUEL, LUBE AND HYDRAULIC OIL ETC.

Fuel oil (HSD) for normal operation of the crane shall be provided by BHEL/ BHEL's erection contractor after the services of the crane is accepted by BHEL after first load test till the services are being utilized by BHEL. Consumption of fuel shall be as indicated by the bidder in this offer (Technical Bid). Excess consumption, if any, due to inefficient engine performance, leakage, theft and other reasons attributable to the bidder/crane shall be on the bidders account.

The bidder at his own cost shall arrange fuel during assembly and completion of load testing of cranes and meet the HSD required during breakdown maintenance.

Hydraulic oil, Engine Oil, Grease and all other lubricants and associated consumables e.g. filter elements etc have to be arranged by the contractor/bidder at his own cost. In case such or any consumables are arranged by BHEL, recovery at actual procurement cost plus overhead charges (currently @30) shall be recovered by BHEL.

22.0 HOLIDAYS AND OTHER BENEFITS:

Three national holidays shall be treated as holidays for the operation of this contract. In case services are availed on these days, the same will be treated as overtime. Being an important power project construction work, erection activities are likely to be carried out on Sundays and other holidays as well. No extra payments are envisaged other than the rentals for such holidays as specified elsewhere herein. The rates quoted by bidders shall be inclusive of such considerations.

23.0 STATUTORY REQUIREMENTS

ESI & EPF as applicable shall be obtained by the Contractor within the quoted rates.

24.0 REJECTION OF TENDER & OTHER CONDITIONS

The decision regarding acceptance of tender will rest with BHEL which does not bind itself to accept the lowest tender or any tender and reserves to itself full rights for the following without assigning reason whatsoever: -

- To reject any or all the tenders.
- To split up the work amongst two or more bidders.
- To award the work in part.
- Either of the contingencies stated above to modify the time for completion suitably.
- Conditional and Un-witnessed tenders, tender containing absurd unworkable rates and tenders which are incomplete or otherwise defective and tenders not in accordance with the tender conditions, specifications, etc., are liable to be rejected.

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25.0 GENERAL

- 25.1 In case of any contradiction between "General Condition of Contract" & "Special Conditions of Contract" of this Tender Specification, the provisions of Special Condition of Contract shall prevail.
- 25.2 In case of contradictions between Quoted Unit Rate and Total Amount, the quoted Unit Rate shall be taken as correct and total amount recalculated for the intended order quantity.
- 25.3 In case of contradictions between Rate in Figures and Rate Words, the lesser of the two shall be considered as correct.
- 25.4 Bidders are free to offer alternative models/make of crane for a specific requirement. However only one Price Bid/Rate shall be submitted for a specific category of crane in the specific price bid format of BHEL.
- 25.5 In case BHEL finds that any bidder has furnished incorrect information, the offer is liable for rejection.

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26.0 SUSPENSION OF BUSINESS DEALING WITH CONTRACTORS (w.e.f 18.05.09)

A bidder may be put on HOLD for a period of 6 months, for future tenders for specific works on the basis of one or more of the following reasons:

- I. Bidder does not honour his own offer or any of its conditions within the validity period.
- II. Bidder fails to respond against three consecutive enquires of BHEL.
- III. After placement of order, Bidder fails to execute a contract.
- IV. Bidder fails to settle sundry debt account, for which he is legitimately liable, within one year of its occurrence.
- V. Bidder's performance rating falls below 60% in specific category.
- VI. Bidder works are under strike/ lockout for a long period.

A Bidder may be de-listed from the list of registered Bidders of the region for a period of 1 year on the basis of one or more of the following reasons:-

- VII. Bidder tampers with tendering procedure affecting ordering process or commits any misconduct which is contrary to business ethics.
- VIII. Bidder has substituted, damaged, failed to return, short returned or unauthorizedly disposed off materials/ documents/ drawings/ tools etc of BHEL.
- IX. Bidder no longer has the technical staff, equipment, financial resources etc. required to execute the orders/ contracts.

A Bidder can be banned from doing any business with all Units of BHEL for a period of 3 years on the basis of one or more of the following reasons:

- X. Bidder is found to be responsible for submitting fake/ false/ forged documents, certificates, or information prejudicial to BHEL's interest.
- XI. In spite of warnings, the Bidder persistently violates or circumvents the provisions of labour laws/ regulations/ rules and other statutory requirements.
- XII. Bidder is found to be involved in cartel formation.
- XIII. The Bidder has indulged in malpractices or misconduct such as bribery, corruption and fraud, pilferage etc which are contrary to business ethics.
- XIV. The Bidder is found guilty by any court of law for criminal activity/ offences involving moral turpitude in relation to business dealings.
- XV. The Bidder is declared bankrupt, insolvent, has wound up or been dissolved; i.e ceases to exist for all practical purposes.
- XVI. Bidder is found to have obtained Official Company information/ documentation by questionable means.
- XVII. Communication is received from the administrative Ministry of BHEL to ban the Bidder from business dealings.

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INSTRUCTION FOR FILLING UP APPENDICES

Please note the following while filling up the Appendices.

- 1. Blank Formats for technical and other essential details of offered Crane/s are furnished in these Appendices. Bidder must fill up all the details and <u>submit as part of Technical cum Commercial Bid</u>. These details shall not be furnished with Price Bid.
- 2. In case the Bidder offers alternative models for a particular requirement, they shall use copy of the relevant Appendix for furnishing these details for each alternative/option.
- 3. Options must be clearly assigned identification numbers and indicated in the relevant space in the Appendix.
- 4. Bidders shall furnish appropriate supporting documents duly furnishing cross-reference in the Appendices.
- 5. In case of insufficient space in the Appendix, bidder shall use additional sheets in order to furnish complete information.

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(FOR WORK IN CONSTRUCTION MANAGEMENT OF BHARAT HEAVY ELECTRICALS LIMITED)

	TECHNICAL DETAILS OF C	OFFERED HLHR CRANE (CRANE NO. 1)
Opti	on No of (please indicate	ate in 'X of Y' format)	
SN	DESCRIPTION	AS BEING OFFERED BY BIDDER	SUPPORTING DOCUMENT REFERENCE
1	NAME OF CRANE MANUFACTURER		
2	CRANE MODEL NO.		
3	MFG SL. NO. OF CRANE		
4	MAXIMUM RATED CAPACITY IN METRIC TONNES		
-	WORKING RADIUS FOR MAX RATING		
5	FURNISH TECHNICAL/ TYPE OF BOOM CONFIGURATION & LOAD CHART SPECIFIC TO BOOM, WHICH SHALL BE PROPVIDED. SPECIFY, WHETHER OFFERED CRANE IS WITH OR WITHOUT HEAVY LIFT ATTACHMENT WHAT IS THE MAXIMUM CAPACITY OF CRANE WITHOUT HLA		
6	TYPE OF MAIN & JIB BOOM OFFERED		
7	LENGTH OF BASIC BOOM		
8	TOTAL LENGTH OF MAIN BOOM		
9	LENGTHS OF MAIN BOOM INSERTS		
10	LENGTH OF BASIC JIB		
11	TOTAL LENGTH OF JIB		
12	LENGTHS OF JIB INSERTS		

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	TECHNICAL DETAILS OF C	OFFERED HLHR CRANE (CRANE NO.	1)
Opti	on No of (please indicate	ate in 'X of Y' format)	
SN	DESCRIPTION	AS BEING OFFERED BY BIDDER	SUPPORTING DOCUMENT REFERENCE
13	LIFTING CAPACITY OF MAIN HOOK BLOCK IN MT		
14	LIFTING CAPACITY OF JIB (AUXILIARY) HOOK BLOCK IN MT		
15	WIDTH OF EACH CRAWLER ASSEMBLY		
16	COPY OF LATESTTEST CERTIFICATE		
17	CRANE LOAD CAPACITY CHART ENCLOSED		
18	CRANE PRODUCT CATALOGUE ENCLOSED		
19	DETAILS OF SAFETY FEATURES IN THE OFFERD CRANE		
20	CERTICIATION OF "SAFE CONSTRUCTION EQUIPMENT" OF THE OFFERED CRANE FROM ANY REGULATORY AUTHORITY		
21	DIMENSION OF CRANE IN OPERABLE CONDITION (WITH SKETCH/DRAWING/PHOTOGRAPH)		
22	PRESENT LOCATION OF ENGEGEMENT OF THE OFFERED CRANE WITH CONTACT TELEPHONE NUMBERS AND ADDRESS		
23	SCHEDULE FOR DEPLOYMENT AT BHEL PROJECT SITE AS PER TENDER SPECIFICATION		
24	DEPLOYMENT HISTORY OF OFFERED CRANE IN LAST FIVE YEARS (INDICATING NAMES OF THE CUSTOMERS IN NEXT COLUMN, AND ENCLOSE COPY OF ORDERS AND COMPLETION CERTIFICATE AS REF DOCUMENTS	04-05 05-06 06-07	A) B) C)

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GENERAL CONDITIONS OF CONTRACT (Rev 01, 18/07/2008) (FOR WORK IN CONSTRUCTION MANAGEMENT OF BHARAT HEAVY ELECTRICALS LIMITED)

	TECHNICAL DETAILS OF OFFERED HLHR CRANE (CRANE NO. 1)					
Opti	Option No of (please indicate in 'X of Y' format)					
SN	DESCRIPTION	AS BEING OFFERED BY BIDDER	SUPPORTING DOCUMENT REFERENCE			
		07-08 08-09	D) E)			
			_ <i>,</i>			

SIGNATURE OF BIDDER WITH SEAL

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GENERAL CONDITIONS OF CONTRACT SECTION-B

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SECTION-1

1 GENERAL INSTRUCTIONS TO TENDERER

1.1 **DESPATCH INSTRUCTIONS**

- 1.1.1 This tender specification as a whole, duly furnishing all the details required and other documents as required in the following pages shall be duly signed and sent in a sealed cover duly superscribing the name of work as given in the tender notice.
- 1.1.2 The tender shall be addressed to Officer inviting tender as indicated in the tender notice.
- 1.1.3 Tenders submitted by post shall be sent as "**REGISTERED POST ACKNOWLEDGEMENT DUE**" and shall be posted with due allowance for any postal delay. The Tender received after due date and time for opening are liable to be rejected. Telegraphic offers and offers received by telex may not be considered.
- 1.1.4 Tenders shall be opened by authorised Officer of BHEL at his office at the time and date as specified in the tender notice in the presence of such of those tenderers or their authorised representatives who may be present.
- 1.1.5 The tenderers shall closely persue all the clauses, specifications and drawing indicated in the tender documents before quoting. Should the tenderers have any doubt about the meaning of any portion of the tender specification or find discrepancies or omission in the drawings or the tender documents issued are incomplete or shall require clarification on any of technical aspect, scope of work etc., he shall at once, contact the authority inviting the tender for clarification before the submission of the tender.
- 1.1.6 Before tendering, the tenderers are advised to inspect the site of work and environments and be well acquainted with actual working and other prevalent conditions, facilities available, position of material and labour. No claim will be entertained later on the ground of lack of knowledge.
- 1.1.7 Tenderer must fill up all the schedules and furnish all the required information as per the instructions given in various section of the tender specification. Each and every page of the tender specification must be signed and submitted alongwith the offer by the tenderer in token of complete acceptance thereof. The information furnished shall be complete by itself.
- 1.1.8 The tenderer shall quote the rates in English language and international numerals. These rates shall be entered in figures as well as in words. In case of difference in rates between words and figures, the least of the two be treated as valid rate. For the purpose of the tenders, the matric system of units shall be used.

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1.1.9 All entries in the tender shall be typed or be written in ink. Erasers and overwriting are not permitted and may such tenders liable to summary rejection. All certifications and insertions shall be duly attested by the tenderer.

1.2 QUALIFICATION OF TENDERERS

Only tenderers who have previous experience in the work of this nature and description detailed in this tender specification are expected to quote for this work duly detailing their experience alongwith offer. Offers from tenderers who do not have proven and established experience in the field are not likely to be considered.

1.3 **DATA TO BE ENCLOSED**

Full information shall be given by the tenderer in respect of the following. Nonsubmission of this information may lead to rejection of the offer.

1.3.1 **FINANCIAL STATUS**

A Certificate from Scheduled Bank to prove his financial capacity to undertake the work duly indicating financial limits the tenderer enjoys/Solvency Certificate from the concerned Government authority. Information required in Annexure "A" shall be furnished by the tenderer alongwith the offer.

1.3.2 **INCOME TAX CERTIFICATE**

A Certificate of Income-tax clearance from the appropriate authority in the forms prescribed therefore duly indicating annual turnover and the Sales Tax clearance certificate from the appropriate authorities as prescribed by the concerned State Governments, if any. These certificates shall be valid for one year from the date of issue or for the period prescribed therein for all tenders submitted during the period.

1.3.3 **PREVIOUS EXPERIENCE**

A statement giving particulars duly supported by documentary evidence of the various services rendered for each similar works by the tenderer indicating particulars and value of each work, the site location and the duration and date of completion and also a list of site location and particulars and value of various services that are under progress. Information required in Annexure "B" shall be furnished by the tenderers alongwith the offer.

1.3.4 ORGANIZATION CHART

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The organization pattern what are totally available with him and will be employed by the tenderer for this work duly indicating the number of Supervisors, the number of Skilled and Unskilled persons etc.

1.3.5 An attested copy of the Power of Attorney, in case the tender is signed by an individual other than the sole proprietor shall also be attached.

1.3.6 IN CASE OF INDIVIDUAL:

His full name, address and place & nature of business.

1.3.7 IN CASE OF PARTNERSHIP FIRM

The names of all the partners and their addresses, A copy of the partnership deed/instrument of partnership dully certified by the Notary Public shall be enclosed.

1.3.8 **IN CASE OF COMPANIES:**

Date and place of registration including date of commencement certificate in case of Public Companies (certified copies of Memorandum and articles of Association are also to be furnished).

- 1.3.9 Nature of business carried on by the Company and the provisions of the Memorandum relating thereof.
- 1.3.10 Names and particulars including address of the Directors and their previous experience.
- 1.3.11 A list of Tools & Tackles that the tenderer is having and those that will be used on this job.
- 1.3.12 In addition to the above the particulars required in various annexures.

1.4 **EARNEST MONEY DEPOSIT**

- 1.4.1 Every tender must be accompanied by the prescribed amount of Earnest Money Deposit (EMD) in the manner described in Special Conditions of Contract.
- 1.5 AUTHORISATION AND ATTESTATION
- 1.5.1 Tenders shall be signed by a person duly authorised/empowered to do so. Certified copies of such authority and relevant documents shall be submitted alongwith tenders.

1.6 VALIDITY OF OFFER

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The rates in the Tender shall be kept open for acceptance for a minimum period of SIX MONTHS from the date of opening of tenders. In case BHEL (Bharat Heavy Electricals Ltd) calls for negotiations, such negotiations shall not amount to cancellation or withdrawal of the original offer which shall be binding on the tenderers.

1.7 EXECUTION OF CONTRACT

The successful tenderer's responsibility under this contract commences from the date of issue of the Letter of Intent by Bharat Heavy Electricals Limited. The successful tenderer shall be required to execute an agreement in the prescribed form Annexure-E with BHEL, within a reasonable time after the acceptance of the tender and in any case before submitting the first bill for payment. The expenses for completion and stamping and registration of agreement with prescribed authority, if necessary, shall be borne by the Contractor.

1.8 SECURITY DEPOSIT

- 1.8.1 Upon acceptance of tender, the successful tenderer shall deposit the required amount of Security Deposit (SD) in the manner specified in the Special Conditions of Contract.
- 1.8.2 If the value of the work done at any time exceeds the accepted agreement value, the Security Deposit shall be correspondingly enhanced and the extra Security Deposit shall be immediately deposited by the Contractor or recovered from payments due to him.
- 1.8.3 Failure to deposit the Security Deposit within the stipulated time may lead to forfeit of Earnest Money and cancellation of the award of work.
- 1.8.4 BHEL reserves the right to forfeit Security Deposit in addition to other claims and penalties in the event of the contractor's failure to fulfill any of the contractual obligations or in the event of termination of contract as per terms and conditions of contract. BHEL reserves the right to set off these Security Deposit against any claims of any other contracts with BHEL.

1.8.5 RETURN OF SECURITY DEPOSIT

If the contractor fully performs and completes the work in all respect to the entire satisfaction of BHEL, Security Deposit will be released to the contractor after deducting all costs of expenses of other amounts that are to be paid to BHEL under this or other contracts entered into with the contractor on completion/submission of the following:-

a) Release of payment against final bill by BHEL.

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- b) Clearance Certificate from PF Commissioner, Labour Department, and Railway Authorities etc. wherever applicable.
- c) Dismantling of site office, stores, labour colony or any other temporary structures, removal of debris and handing over possession of BHEL/Customer's land without any encumbrance.
- d) Performance Bank Guarantee in the prescribed proforma
- 1.8.9 No interest shall be payable by BHEL on Earnest Money, Security Deposit/or any money due to the contractor by BHEL.
- 1.9 REJECTION OF TENDER AND OTHER CONDITIONS
- 1.9.1 The acceptance of tender will rest with BHEL which does not bind itself to accept the lowest tender or any tender and reserves to itself full rights for the following without assigning any reasons whatsoever:-
- 1.9.1.1 To reject any or all of the tenders.
- 1.9.1.2 To split up the work amongst two or more tenderers.
- 1.9.1.3 To award the work in part
- 1.9.1.4 Either of the contingencies stated in (1.9.1.2) and (1.9.1.3) above to modify the time for completion suitably.
- 1.9.2 Conditional and Unwitnessed tenders, tenders containing absurd unworkable rates and tenders which are incomplete and otherwise defective and tenders not in accordance with the tender conditions, specifications etc. are liable to be rejected.
- 1.9.3 If a tenderer expired after the submission of his tender or after the acceptance of his tender, BHEL may at their discretion, cancel such tender. If a partner of a firm expires after the submission of tender or after the acceptance of the tender, BHEL may then cancel such tender at their discretion, unless the firm retains its character.
- 1.9.4 BHEL will not be bound by any Power of Attorney granted by changes in the composition of the firm made subsequent to the execution of the contract. They may, however, recognise such power of Attorney and changes after obtaining proper legal advice, the cost of which will be chargeable to the contractor concerned.
- 1.9.5 If the tenderer deliberately gives wrong information in his tender, BHEL reserves the right to reject such tender at any stage or to cancel the contract if awarded and forfeit the Earnest Money/Security Deposit/any other money due.

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- 1.9.6 Canvassing in any form in connection with the tenders submitted by the Contractors is liable to rejection.
- 1.9.7 Should a tenderer or contractor or in the case of a firm or company of contractor/one or more of its partners/shareholders/Directors have a relation or relatives employed in BHEL, the authority inviting tender shall be informed of the fact alongwith the offer. Failing to do so, BHEL may, at its sole discretion, reject the tender or cancel the contract and forfeit the Earnest Money/Security Deposit.
- 1.9.8 The successful tenderer should not sub-contract the part of complete work detailed in the tender specification undertaken by him without written permission of BHEL. The tenderer is solely responsible to BHEL for the work awarded to him.

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SECTION-2

- 2.1 DEFINITION: The following terms shall have the meaning hereby assigned to them except where the context otherwise required.
- 2.1.1 BHEL shall mean Bharat Heavy Electricals Limited, a company registered under Indian Companies Act, 1956 with its registered office at BHEL HOUSE, SIRI FORT, NEW DELHI, or its authorised officers or its Resident Engineers or other employees authorised to deal with any matters with which these persons are concerned on its behalf.
- 2.1.2 "GENERAL MANAGER" shall mean the Officer in Administrative charge of contracting unit of BHEL.
- 2.1.3 "ENGINEER" or "ENGINEER IN CHARGE" shall mean ENGINEER deputed by BHEL. The term includes DGM, PROJECT MANAGER, CONSTRUCTION MANAGER, RESIDENT MANAGER, SITE ENGINEER, RESIDENT ENGINEER and ASSISTANT SITE ENGINEER of BHEL at site as well as the Officers in charge at Head Office.
- 2.1.4 "SITE" shall mean the places or place at which the plants/equipments are to be erected and services are to be performed as per the specification of this contract.
- 2.1.5 "CLIENT OF BHEL" or "CUSTOMER" shall mean the project authorities with whom BHEL has entered into a contract for provision of services.
- 2.1.6 "CONTRACTOR" shall mean the individual firm or company who enters into the contract with BHEL and shall include their executors, administrators and successors and permitted assigns.
- 2.1.7 "CONTRACT" or "CONTRACT DOCUMENT" shall mean and include the agreement of work order, the acceptance, appendices or rates, schedules, quantities if any, general conditions of contract, special conditions of contract, instructions to the tenderer, drawings, technical specifications, the specifications if any the tender documents and the Letter of Indent/Accepting letter issued by BHEL. Any conditions or terms stipulated by the contractor in the tender documents or subsequent letters shall not form part of the contract unless, specifically accepted in writing by BHEL in the Letter of Indent and incorporated in the agreement.
- 2.1.8 "GENERAL AND SPECIAL CONDITIONS OF CONTRACT" shall mean the instructions to Tenderer and General and special conditions of contract pertaining to the work for which above tenders have been called for.
- 2.1.9 "TENDER SPECIFICATION" shall mean "Specific conditions, technical specifications, appendices, site information and drawing pertaining to the work in which the tenderers are required to submit their offer. Individual specification number will be assigned to each tender specification.

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- 2.1.10 "TENDER DOCUMENTS" shall mean the General and special conditions of contract (2.1.8) and tender specification (2.1.9).
- 2.1.11 "LETTER OF INTENT" shall mean the intimation by a letter to the tenderer that the tender has been accepted in accordance with provisions contained in the letter. The responsibility of the contractor commences from the date of issue of this letter and all terms and conditions of the contract are applicable from this date.
- 2.1.12 "COMPLETION TIME" shall mean the period by date specified in the acceptance of tender for handing over the erected equipment/plant which are found acceptable by the Engineer being of required standard and conforming to the specifications of the contract.
- 2.1.13 "PLANT" shall mean and connote the entire assembly of the plant and equipments covered by the contract.
- 2.1.14 "EQUIPMENT" shall mean equipment, machineries, materials, structural, electricals and other components of the plant covered by the contract.
- 2.1.15 "TESTS" shall mean and include such test or tests to be carried out on the part of the contractor as are prescribed in the contract or considered necessary by BHEL, in order to ascertain the quality, workmanship, performance and efficiency of the contractor or part there of.
- 2.1.16 "APPROVED", "DIRECTED" or "INSTRUCTED" shall mean approved, directed or instructed by BHEL.
- 2.1.17 "WORK OR CONTRACT" shall mean and include supply of all categories of labours, specified consumables, tools and tackles required for complete and satisfactory site, transportation, handling, stacking, storing, erecting, testing and commissioning of the equipments to the entire satisfaction of BHEL.
- 2.1.18 "SINGULAR AND PLURALS ETC" words carrying singular number shall also include plural and vice versa, where the context so required, Words, imparting the masculine Gender shall be taken to include the feminine Gender and words imparting persons shall include any company or associations or body of individuals, wherever incorporated or not.
- 2.1.19 "HEADING" The heading in these general conditions are solely for the purpose of facilitating reference and shall not be deemed to be part thereof or be taken as instructions thereof or of the contract.
- 2.1.20 "MONTH" shall mean calendar month.
- 2.1.21 "COMMISSIONING" shall mean the synchronisation of the Plant after all initial adjustments, trials, cleaning, re-assembly required at site if any, have been completed and plant is ready for commercial use.

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2.1.22 "WRITING" shall include any manuscript type written or printed statement under the signature of BHEL.

2.2 LAW GOVERNING THE CONTRACT AND COURT JURISDICTION

The contract shall be governed by the Law for the time being in force in the Republic of India. The Civil Court at NAGPUR having ordinary original civil jurisdiction shall alone have exclusive jurisdiction in regard to all claims in respect of this contract.

2.3 ISSUE OF NOTICE

The Contractor shall furnish to BHEL Engineer the name, designation and address of his authorised agent and all complaints, notices, communication and reference shall be deemed to have been duly given to the contractor if delivered to the contractor or his authorised agent or left at or posted to the address either of the contractor or his representative and shall be deemed to have been so given in the case of posting on the day on which they would have reached such address in the ordinary course of the post or on which they were so delivered of or left.

2.4 USE OF LAND

No land belonging to BHEL or their customer under temporary possession of BHEL shall be occupied by the contractor without written permission of BHEL.

- 2.5 COMMENCEMENT OF WORK
- 2.5.1 The contractor shall commence the work within the time indicated in the Letter of Indent from BHEL and shall proceed with the same with due expedition without delay.
- 2.5.2 If the successful tenderer fails to start the work within stipulated time, BHEL, at its sole discretion will have the right to cancel the contract. The Earnest Money and/or Security Deposit with BHEL will stand forfeited without any further reference to him without prejudice to any and all of BHEL's other rights and remedies in this regard.
- 2.5.3 All the work shall be carried out under the direction and to the satisfaction of BHEL.
- 2.5.4 The transported equipment, erected/constructed plan of work performed under the contract as the case may be shall be taken over when it has been completed in all respects and/or satisfactorily put into operation site.
- **2.6** MODE OF PAYMENT AND MEASUREMENT OF THE WORK COMPLETED:

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- 2.6.1 All payments due to the contractor shall be paid by "Account Payee Cheques"
- 2.6.2 For progress running bill payments: The Contractor shall present detailed measurement sheets in triplicate, duly indicating all relevant details based on technical documents and connected drawings for work done during the month/period under various categories in line with terms of payment as per Letter of Indent. The basis of arriving at the quantities, weights shall be relevant documents and drawings released by BHEL. The measurement sheets shall be prepared jointly with BHEL Engineers and signed by both the parties.
- 2.6.3 These measurement sheets will be checked by BHEL Engineers and quantities and percentage eligible for payment under various groups shall be decided by BHEL Engineer. The abstract of quantities and percentage so arrived at based on the terms of payment shall be entered in Measurement Book and signed by both the parties.
- 2.6.4 Based on the above quantity, contractor shall prepare the bills in prescribed proforma and work out the financial value. These will be entered in Measurement Book and signed by both the parties and paid for duly effecting recoveries due.
- 2.6.5 All recoveries due from the contractor for the month/period shall be effected in full from the corresponding running bills unless specific approval from the competent authorities is obtained otherwise.
- 2.6.6 Measurement shall be restricted to that for which it is required to ascertain the financial liability of BHEL under this contract.
- 2.6.7 The measurement shall be taken jointly by person duly authorised on the part of BHEL and by the Contractor.
- 2.6.8 The Contractor shall bear the expenditure involved if any, in making the measurement. The contractor shall, without extra charges, provide all the assistance with appliances and other things necessary for measurement.
- 2.6.9 If at any time due to any reason whatsoever, it becomes necessary to remeasure the work done in full or in part, the expenses towards such reimbursements shall be borne by the contractor.
- 2.6.10 Passing of measurement as per bills does not amount to acceptance of the completion of the work mentioned. Any left out work has to be completed, if pointed out at a later date by BHEL.
- 2.6.11 Final measurement bill shall be prepared in the final bill proforma prescribed for the purpose based on the certificate issued by BHEL Engineer that entire works as stipulated in tender specification has been completed in all respects to the entire satisfaction of BHEL. Contractor shall give unqualified "No Dues" and "No Demand" Certificate. All the

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tools and tackles loaned to him should be returned in satisfactory condition to BHEL. Quantities/weight erected shall be prepared and paid within a reasonable time after completion of work. After payment of final bill only guarantee obligation percentage shall remain unpaid which shall be released in accordance with clause 2.13 The final bill quantities and financial value shall also be entered in Measurement Book and signed by both the parties to the contract.

2.7 RIGHTS OF BHEL

BHEL reserves the following rights in respect of this contract without entitling the contractor for any compensation.

- 2.7.1 To get work done through other agency at the risk and cost of the contractor in the event of contractor's poor progress, other or inability to progress the work for completion as stipulated in the contract, poor quality of the work, persistent disregard to instruction of BHEL, assignment, transfer, subletting of the contract without permission of BHEL, nonfulfillment of any contractual obligation etc. and to claim/recover compensation for such losses from the contractor including BHEL's supervision charges and overheads from Security Deposit and other dues.
- 2.7.2 To withdraw any portion of work and/or to restrict after quantum of work as indicated in the contract during the progress of erection and get it done through other agency and/or by departmental labour to suit BHEL's commitment of its customer or in case BHEL decided to advance the date of completion due to other emergency reasons BHEL's obligation to its customer.
- 2.7.3 To terminate the contract after due notice and forfeit security deposit and recover the loss sustained in getting the balance work done through other agencies in addition to liquidated damages in the event of:-
- 2.7.3.1 Contractor's continued poor progress
- 2.7.3.2 Withdrawal from or abandonment of the work before completion of the work
- 2.7.3.3 Corrupt act of contractor
- 2.7.3.4 Insolvency of the contractor
- 2.7.3.5 Persistent disregard to the instructions of BHEL
- 2.7.3.6 Assignment, transfer, sub-letting of contract without BHEL's written permission
- 2.7.3.7 Non fulfillment of any contractual obligations

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- 2.7.4 To recover any money due from contractor from any money due to the contractor under this contract or any contract or from the security deposit.
- 2.7.5 To claim compensation for losses sustained including BHEL's supervision charges and overheads for completion on termination of contract and to impose penalty for delay in completion of the work at the rate of ½% of the contract value per week of delay or part thereof subject to ceiling of 10% of contract value.
- 2.7.6 To terminate the contract or to restrict the quantum of work and pay for the portion of work executed in case BHEL's contract with their customer are terminated for any reason.
- 2.7.7 To effect recovery from any amounts due to the contractor under this or any other contract or in any other form the money BHEL is forced to pay to anybody due to contractor's failure to fulfill any of his obligations.
- 2.7.8 To restrict or increase the quantity and nature of work to suit site requirement since the tender specification is based on preliminary documents and quantities furnished therein are indicative and approximate and the rates quoted shall not be subject to revision.
- 2.7.9 To deploy BHEL's Fitters, Welders, Operators and Technicians in case of emergency/poor progress/efficiency in skill on the part of employees of contractor and recover the expenditure on account of the same from contractor's bills.
- 2.7.10 While every endeavour will be made by BHEL, they can not guarantee uninterrupted work due to conditions beyond their control, contractor will not be entitled for any compensation/extra payment on this account.
- 2.7.11 In the event of any dispute of any nature, the decision of BHEL shall be final and binding on the contractor.
- 2.8 RESPONSIBILITIES OF THE CONTRACTOR IN RESPECT OF LOCAL LAWS, EMPLOYMENT OF WORKERS ETC.
 - The following are the responsibilities of the contract in respect of observation of local laws, employment of personnel, payment of taxes etc.
- 2.8.1 As far as possible, Unskilled Workers shall be engaged from the local areas in which the work is being executed.
- 2.8.2 The contractor at all times during the continuance of this contract shall, in all his dealings with local labour for the time being employed on or in connection with the work, have due regard to all local festivals and religious and other customs.
- 2.8.3 The contractor shall comply with all State and Central Laws, Statutory Rules, Regulations etc. such as:-

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- 2.8.4 Payment of Wages Act, Minimum Wages Act, Workmen Compensation Act, Employer's Liability Act, Industrial Dispute Act, Employers Provident Fund Scheme, Employees State Insurance Scheme, Contract Labour (Regulation and Abolition) Act, 1970 and other acts, rules and regulations for labour as may be enacted by the Government during the tenure of the contractor shall give to the local governing body, police and other relevant authorities all such notices as may be required by the Law.
- 2.8.4 The contractor shall pay all taxes, license charges, deposits, duties, taxes, royalties, commission or other charges which may be levied on account of his operations in executing the contract. In case BHEL is forced to pay any of such taxes, BHEL shall have the right to recover the same from his bills or otherwise as deemed fit.
- 2.8.5 While BHEL would pay the inspection fees of Boiler Inspectorate, all other arrangements for site visits periodically by Boiler Inspector to site, Inspection certificate etc. will have to be made by contractor. However, BHEL will not make any payment to Boiler Inspector in connection with contractor's Welders qualification/prequalification tests. Etc.
- 2.8.6 Contractor shall be responsible for provision of health and sanitary arrangements (more particularly described in Contract Labour Regulation & Abolition Act), Safety precautions etc. as may be required for safe and satisfactory execution of contract.
- 2.8.7 The contractor shall be responsible for proper accommodation including adequate medical facilities for personnel employed by him.
- 2.8.8 The contractor shall be responsible for the proper behaviour and observance of all regulations by the staff employed by him.
- 2.8.9 The contractor shall ensure that no damage is caused to any person/property of other parties working at site. If any such damage is caused, it is responsibility of the contractor to make good the losses or compensate for the same.
- 2.8.10 All the properties/equipments/components of BHEL/their Client loaned with or without deposit to the contractor in connection with the contract shall remain properties of BHEL/their Client.
 - The contractor shall use each property for the purpose of execution of this contract. All such properties/equipments/components shall be deemed to be in good condition when received by the contractor unless he notifies within 48 hours to the contrary. The contractor shall return them in good condition as and when required.
- 2.8.11 It is not obligatory on the part of BHEL to supply any tools or tackles or other materials other than those specifically agreed to do so by BHEL. However, depending upon availability/possibility/BHEL's/ Customer's

handling equipment and other plants may be made available to the contractor on payment of the hire charges free of charges as fixed, subject to the conditions laid down by BHEL/Customer from time to time unless paid in advance, such hire charges if applicable shall be recovered from contractor's bills/Security Deposit in one installment.

- 2.8.12 The contractor shall fully indemnify BHEL against all claims of whatsoever nature arising during the course of erection/construction/performing work under the contract.
- 2.8.13 In case the contractor is required to undertake any work outside the scope of this contract, the rates payable shall be those mutually agreed upon.
- 2.8.14 Any delay in completion of works/or non achievement of periodical targets due to the reasons attributable to the contractor, the same will have to be compensated by the contractor either by increasing manpower and resources or by working extra hours and/or by working more than shift. All these are to be carried out by the contractor at no extra cost.
- 2.8.15 The contractor shall arrange, coordinate his work in such a manner as to cause no hindrance to other agencies working in the same premises.
- All safety rules and codes applied by the Client/BHEL at site shall be observed by the contractor without exception. The contractor shall be responsible for the safety of the equipment/material and works to be performed by him and shall maintain all light, fencing guards, slings etc. or other protection necessary for the purpose. Contractor shall also take such additional precautions as may be indicated from time to time by the Engineer with a view to prevent pilferage, accidents, fire hazards and due precautions shall be taken against fire hazards and atmospheric conditions. Suitable number of Clerical staff, watch and ward, store keepers to take care of equipment/materials and construction tools and tackles shall be posted at site by the contractor till the completion of work under this contract.

The contractor shall arrange for such safety devices as are necessary for such type of work and carry out the requisite site tests of handling equipment, lifting tools, tackles etc. as per prescribed standards and practices.

- 2.8.17 The contractor will be directly responsible for payment of wages to his workmen. A pay roll sheet giving all the payments given to the workers and duly signed by the contractor's representative should be furnished to BHEL site for record purpose, if so called for.
- 2.8.18 In case of any class of work for which there is no such specification as laid down in the contract, such work shall be carried out in accordance with the instructions and requirements of the Engineer.

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- 2.8.19 No levy or payment or charge made or imposed shall be impeached by reason of any Clerical error or by reason of any mistake in the amount levied or demanded or charged by BHEL/their Client. In case of nonreturning, loss, damage, repair etc. the cost thereof as may be fixed by the Site Engineer will be recovered from the contractor.
- 2.8.20 Also, no idle labour charges will be admissible in the event of any stoppage caused in the work resulting contractor's labour being rendered idle due to any cause at any time.
- 2.8.21 The contractor shall take all responsible care to protect the materials and work till such time the plant/equipment has been taken over by BHEL/their Client.
- 2.8.22 The contractor shall not stop the work or abandon the site for whatsoever reason of dispute, excepting force majeure conditions. All such problems/disputes shall be separately discussed and settled without affecting the progress of work. Such stoppage or abandonment shall be treated as breach of contract and deal with accordingly.
- 2.9 CONSEQUENCES OF CANCELLATION

Whenever BHEL exercises its authority to terminate the contract/withdraws a portion of work under 2.7, they may complete the work by any means at the contractor's risk and cost, provided that the event of the cost of completion(as certified by the Site Engineer which is final and conclusive) be less than contract cost, the advantage shall accrue to BHEL and that if the cost of completion exceeds the money due to contractor under the contract, the contractor shall either pay the excess amount ordered by BHEL or same shall be recovered from the contractor by any other means. This will be in addition to the forfeiture of security deposit and recovery of liquidated damages as per relevant clauses.

- 2.9.1 In case BHEL completes the work under the provision 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 materials purchased and/or labour provided by BHEL within addition of such percentage to COVER SUPERVISION and establishment charges as may be decided by BHEL.
- 2.10 INSURANCE
- 2.10.1 BHEL/their customer shall arrange for insuring the materials/properties of BHEL/Customer covering the risk during transit, storage, erection and commissioning.
- 2.10.2 It is the sole responsibility of contractor to insure his workmen against accidents and injury while at work as required by relevant rules and to pay compensation to workmen as per Workmen's Compensation Act. Contractor shall insure his staff against accidents. The work will be carried out in a

Part I : Technical Bid Specifications Page 63 of 78

protected area and all the rules and regulations of the client/BHEL in the area of project which are in force from time to time will have to be followed by the contractor.

- 2.10.3 If due to negligence and for non observation/observance of safety and other precautions, any accident/injury occurs to any other persons/public, the contractor shall have to pay necessary compensation and other expenses, if so decided by the appropriate authorities.
- 2.10.4 If due to the contractor's carelessness, negligence or non-observance of safety precaution, damage to BHEL's/Customer's property and personnel occurs and if BHEL is unable to recover in full cost from the insurance company, the same will be recovered from contractor.
- 2.10.5 It shall be the responsibility of contractor to provide security arrangement for the equipment/materials belonging to BHEL and handed over to contractor for erection/transportation till same are taken over by BHEL.
- 2.11 STRIKES & LOCKOUT
- 2.11.1 The contractor will be fully responsible for all the dispute and other issues connected with his labour. In the event of the contractor's labour resorting to strike or the Contractor resorting to lockout and if the strike or lockout declared is not settled within a period of one month, BHEL shall have the right to get the erection work executed employing its own labour or through any other agencies or both and the cost so incurred by BHEL shall be deducted from the contractor' bills.
- 2.11.2 For all purposes whatsoever, the employees of the contractor shall not be deemed to be in the employment of BHEL.
- **2.12** FORCE MAJEURE
- 2.12.1 The following shall amount to force majeure:-

Acts of God, act of any Government, War, Sabotage, Riots, Civil commotion, Police action, Revolution, Flood, Fire, Cyclones, Earth quake and Epidemic and other similar causes over which the contractor has to control.

- 2.12.2 If the contractor suffers delay in the due execution of the contractual obligation due to delays caused by force majeure as defined above, the agreed time of completion of the job covered by this contract or the obligations of the contractor shall be extended by a period of time equal to period of delay, provided that on the occurrence of any such contingency, the contractor immediately should report to BHEL and the contractor shall not be eligible for any compensation.
- **2.13** GUARANTEE

Part I: Technical Bid Specifications

Even though the work will be carried out under the supervision of BHEL Engineers, the contractor will be responsible for the quality of the workmanship and shall guarantee the work done for a period of twelve months from the date of completion of work as certified by the Engineer for good workmanship and shall rectify free of cost all such defects due to faulty erection detected during the guarantee period starting from the date of the completion of rectification. In the event of the contractor failing to repair the defective works within the time specified by the Engineer, BHEL may proceed to undertake the repairs of such defective works at the contractor's risk and cost without prejudice to any other rights and recover the same from security deposit/other dues or by other legal means.

2.14 ARBITRATION

All disputes between the parties to the contract, arising out of or in relation to the contract other than those for which the decision of the Engineer or of any other person is by the contract expressed to be final and conclusive shall, after written notice by either party to the contract to other party be referred to sole arbitration of General Manager or his nominee. The arbitration shall be conducted in accordance with the provisions of the Indian Arbitration Act 1940.

The parties to the contract understand and agree that it will be no objection that the General Manager or the person nominated as Arbitrator, had earlier in his official capacity to deal directly or indirectly with the matter to which the contract relates or that in the course of his official duties had expressed views on all or any of the matters in dispute or difference. The award of the Arbitrator shall be final and binding on the parties to this contract.

In the event of the Arbitrator dying, neglecting or refusing to act, resigning or being unable to act for any reason or his award being set aside by the Court for any reason. It shall be lawful for the General Manager or his successor as the case may be, either to act himself as the Arbitrator or to appoint another Arbitrator in the place of the outgoing Arbitrator in the manner aforesaid. The Arbitrator may from time to time, with the consent of both the parties to the contract, enlarge the time for making the award.

2.15 Work under the contract shall be continued during the arbitration proceedings. The venue of the arbitration shall be the place from which the contract is issued or such other place as the Arbitrator at his discretion may determine.

2.16 PRICE VARIATION CLAUSE

The quoted rate shall be firm throughout the period as specified in time schedule plus grace period. The grace period would be one month for every six months of contract period or part thereof. In case the work cannot be completed within the above period plus grace period for no fault of contractor, the following shall become applicable to cover all expenditure for completing the contracted work. No other compensation shall be payable:-

 $P_1 = P_0 (0.10 + 0.90 L_1 / L_0)$

Where

 P_1 = Revised contract rate/Contract price

 P_0 = Accepted contract rate/contract price

L₀ = All India Average Consumer Price Index for Industrial Workers as published in RBI Bulletin for the month when the contract period comes to a close.

L₁ = All India average Consumer Price Index for Industrial Workers as published in RBI Bulletin for the month for Which bill has been raised.

ANNEXURE"A"

FINANCIAL VIABILITY

Owner's capital in the business (in case of Partnership, Please mention percentage, shares and amounts)

Rs.

Quantum of Business done during last three financial years

1)

2)

3)

Value of fixed assets of the business in last three years

1)

2)

3)

- 4. Guarantee Limits(if any) enjoyed by the firm
- 5. Over draft limits (if any) enjoyed by the firm
- 6. Please state whether audited Profit and Loss Account and Balance Sheet for last three years are enclosed.

NOTE: All the above documents should be duly certified by Auditors/Bank as may be applicable.

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ANALYSIS OF SIMILAR JOBS EXECUTED/IN PROGRESS

SI. No.	Details of job executed/in progress with location of projects	Total value of the contract	No. of Skilled/U nskilled workers deployed at site for this job	No. of staff deployed at site for execution of job	Remarks

ANNEXURE"C"

PROFORMA FOR BANK GUARANTEE FOR EARNEST MONEY DEPOSIT

Bharat Heavy Electricals Limited: PSWR: Nagpur Tender Specs. No. BHE/PW/PUR/CHT-CRH/OJ-144

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(IF APPLICABLE)

(To be issued in appropriate valid non-judicial stamp paper)

This deed of guarantee made th	is day of 200	by Bank
Limited in favour of Bharat Hea		
BHEL House, Asian Games Villa	ge, Siri Fort, New Delhi – 1	10 049 (hereinafter called
the "Company"), thru BHEL,	Power Sector-Western Reg	gion, Nagpur – 440 001
(Maharashtra).		
WHEREAS M/s	(hereinafter o	called the tenderer) have
submitted a tender	in response	to tender specification
no	(hereinafter called the sa	id "tender document") of
M/s BHEL, PSWR, Nagpur – 440	001.	,
AND WHEREAS the said tender	documents provide that the	tenderer shall pay a sum
	-	1 0
of Rs(Rupees _ Earnest Money Deposit to be made	le in the form and manner tl	here a specified.
• •		
AND WHEREAS the tender	erer	e approached in
consideration of the arrangemen	t arrived at between the	id tenderer and the said
Bank and the said Bank has agre	ed to give ou i gua an ée as	s hereunder mentioned to
the aforesaid company.		
Now, therefore, this presents		Dank Limited by the
	es anat we	Bank Limited by the
hand of Shrilo h	yundantaka ta nav tha afan	its lawfully and duly
Rs. Rupo of the Gualantee against any l	eesamaga_aaysad_ta	ar suffered by the said
company terms of any breac	h by the efereseid tenderer	of the terms conditions
stipulation, undertaking or any	one of them contained in the	he said tender documents
and for the payment of any mone		
company under the terms and		
regarding the breach, loss, damage		`
said company). We further under		•
demand irrespective of the fact w		
or questions its correctness in a		
before any authority.	,	1 8
·		

The aforesaid guarantee will remain in force and we shall be liable under the same irrespective of any concession for the time being granted by the said company to the tenderer in or for fulfilling conditions of the tender documents and the guarantee will remain in full force irrespective of any change of terms, conditions or stipulations or any variation in the terms of the said tender documents irrespective of whether notice of such change and variation is given to us or not and claim to receive such notice of any change and/or variation of the terms and/or conditions of the said tender document is hereby specifically waived by us. Further, we shall not be released from the guarantee by any for bearance of exercise of non exercise of any of the power of rights under the said company against the tenderer irrespective of whether notice of such for bearances, enforcement or non-enforcement of any powers or rights modifications or changes of such for bearances enforcement or non-enforcement of

Part I: Technical Bid Specifications Page 68 of 78

any powers or right, modifications or changes made in the said tender documents or concessions shown of the tenderer by the company is given to us or not. The guarantee herein contained shall be determined or affected by the liquidation or winding up or insolvency or change in the constitution of the tender but shall in all respects and for all purposes be binding and operative until all payments of all moneys due or that may hereafter become due to the said company in respect of any liability or obligations of the tender under the said tender documents.

We, the said Bank further agree that the guarantee hereinafter contained shall remain in full force and effect during the period that would be taken for the finalisation of the tender and execution of agreement there of and that it shall continue to be enforceable till the required security deposit is deposited by the successful tenderer, as stipulated in the said tender documents or till the company certifies that the terms and conditions of the said tender documents have been fully and properly carried out by the said tenderer, and accordingly discharged the guarantee subject however to that the company shall have no rights under this guarantee after the expiry of 180 days from the date of its execution.

Any claim of dispute arising under the terms of these documents shall only be enforced

or settled in Courts at NAGPUR only. Bank undertakes not to revoke this guarantee And lastly the under the Bank's memorandum and articles of association and the undersigned has full power to do so on its behalf under the power of attorney dated granted to him by the proper authorities of the Bank. **DATED** THE its constituted attorney (Signature of the person duly authorised t r RBI if it is executed by other Note: 1) To be countersign Scheduled Bank 2) n from the above can be accepted.

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PROFORMA FOR SECURITY DEPOSIT BG

THIS DEED OF GUARANTEE made this day of
By M/s
(Hereinafter called the Bank) in favour of M/s Bharat Heavy Electricals Limited,
having its registered office at BHEL House, Asian Games Village, Siri Fort, New Delhi
- 110 049 (hereinafter called the "Principal"), through BHEL, Power Sector-Western
Region, Nagpur – 440 001 (Maharashtra).
WHEREAS M/s
(Hereinafter called the contractor) proposes to enter into a contract arising out of
Letter of Intent No. dated addressed by principal
to the contractor for (hereinafter called the
said agreement).
AND WHEREAS the said agreement provides that the contractor shall pay a
sum of Rs (Rupeesonly)
towards 50% of full Security Deposit to be made in the form and manner therein specified.
AND WHEREAS the Contractor have approached the Bank and on their request and in consideration of the agreement arrived at between the said Contractor and the Bank, the Bank has agreed to give such guarantee as hereinafter mentioned to the Principal.
NOW, therefore these presents witnesses that we the Bank by the hand of
Mr, its lawfully duly constituted attorney to hereby
undertake to pay to the Principal a sum of Rs (Rupees
only) without demur on demand being made by
the Principal and keep to the Principal indemnified to the extent of
Rs by virtue of this guarantee against any loss or damage caused to
or by the aforesaid Contractor of any of the terms and conditions, stipulation or
undertaking of any one of them contained in the said Agreement and tender
documents attached thereto, and for the payment of any money or money payable by
the said contractor to the Principal under the terms and conditions of the said
Agreement (the decision regarding the breach, loss, damage or payment due being
solely in the discretion of the Principal).

We further undertake to pay without demur the aforesaid amount in a lump sum on demand or such part there of as the Principal may demand from time to time irrespective of the fact whether the said contractor admits or denies such claim or questions its correctness in any Court, Tribunal or Arbitration proceedings or before any authority. The aforesaid guarantee will remain in force and we shall be liable under the same irrespective of any concession or time being granted by the Principal to the contractor in or for fulfilling the said agreement between contractor and the Principal and the guarantee will remain in full force irrespective of any change of terms, conditions or stipulations or any variation in the terms of the said Agreement irrespective of whether notice of such change or variation is given to us or not.

Bharat Heavy Electricals Limited: PSWR: Nagpur Tender Specs. No. BHE/PW/PUR/CHT-CRH/OJ-144

The Guarantee herein contained shall not be determined or affected by the liquidation or winding up or insolvency of or change in the constitution of the Contractor but shall in all respects and for all purposes binding and operative until all payments of all money due or that may hereafter become due to the principal in respect of any liabilities or obligations of the contractor under the said agreement.

We, the Bank further agree that the guarantee herein contained shall remain in full force and effect during the period that would be taken for the performance of the said agreement and that it shall continue to be enforceable till all dues of the principal under or by virtue of the said agreement have been fully paid its Agreement have been fully and properly carried out by the said contractor and accordingly discharges the guarantee, subject however that the principal shall have no rights under the guarantee after the expiry of six months from the date of completion of the contract unless this guarantee is extended by mutual agreement.

Any claim or dispute or disputes arising under the terms of this document shall be enforced or settled in the Courts at Nagpur only.

And lastly the bank undertakes not to revoke this guarantee during its currency except with the previous consent of the principal in writing.

The Guarantor hereby declares that it has powers to execute this guarantee and the executant has full powers to do so on behalf of the Guarantor

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(Name of the Bank)

SEAL

DESIGNATION OF THE AUTHORISED PERSON SIGNING THE GUARANTEE

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PROFORMA FOR ADVANCE PAYMENT (If Applicable)

T	HIS DEED O	F GUARANT	EE made this d	ay of		by
M/s			(hereina	after called	the Bank)	in favour
of M/s B	harat Heavy E	lectricals Lim	(hereina nited, having its i	registered (office at BHE	L House,
Asian C	Games Village,	Siri Fort,	New Delhi – 1	10 049 (h	ereinafter c	alled the
"Princip	al"), thru Bl	HEL, Power	Sector-Western	Region,	Nagpur –	440 001
(Mahara						
V	WHEREAS M	's		(h	ereinafter ca	alled the
contract	or) proposes to	enter into a	contract arising	out of Lett	er of Award	reference
no	date	d	addressed by	y Principal	to the Contr	actor for
			(hereinaft	er called th	e said agreen	ient).
A	ND WHEREA	S the said Ag	greement provid	es that the	Principal sh	all pay a
sum of	up to Rs		_ (Rupees Contract amount			
only) be	ing the 5% v	alue of the C	Contract amount	of Rs		towards
interest l	bearing advanc	e to be made i	in the form and r	nanner the	rein specified	l .
			tor have approac			
a Bank (Guarantee for	Rs	a	nd based o	n their reque	est and in
			ed at between th			
	_	o give such l	oank guarantee	as hereina	fter mention	ed to the
Principa	l.					
		_		_		
			nts witnesses th			
Mr		, its lawful	ly duly constitute a sum of	ed attorney	do hereby u	ındertake
to pay	y to the	principal	a sum of	Rs.		(Rupees
			hout demur on			
			indemnified to the			
	_		loss or damag		•	
	•		nditions, stipulat		_	•
		0	t and tender doc			*
			s payable by the			
			the said agreen	`	0	0
breach, l	loss, damage or	payment due	being solely in the	he discretio	on of the prince	cipal).

We further undertake to pay without demur the aforesaid amount in a lump sum on demand or such part thereof as the principal may demand from time to time irrespective of the fact whether the said contractor admits or denies such claim or questions its correctness in any Court, Tribunal or Arbitration proceedings or before any authority. The aforesaid guarantee will remain in force and we shall be liable under the same irrespective of any concession or time being granted by the Principal to the Contractor in or for fulfilling the said agreement between contractor and the principal and the guarantee will remain in full force irrespective of any change of terms, conditions or stipulations or any variation in the terms of the said agreement irrespective of whether notice of such change or variation is given to us or not.

Bharat Heavy Electricals Limited: PSWR: Nagpur Tender Specs. No. BHE/PW/PUR/CHT-CRH/OJ-144

The Guarantee herein contained shall not be determined or affected by the liquidation or winding up or insolvency or change in the constitution of the contractor, but shall in all respects and for all purposes binding and operative until all payments of all money due or that may hereafter become due to the principal in respect of any liabilities or obligations of the contractor under the said agreement.

We, the Bank further agree that the guarantee herein contained shall remain in full force till the advance and interests thereof are recovered in full.

Any claim or dispute or disputes arising under the terms of this document shall be enforced or settled in the Courts at Nagpur only.

And lastly the Bank undertakes not to revoke this guarantee during its currency except with the previous consent of the principal in writing.

The Guarantor hereby declares that it has powers to execute this guarantee and the executant has full powers to do so on behalf of the Guarantor.

DATED

(Name of the Bank & Place)

SEAL

DESIGNATION OF THE AUTHORISED PERSON SIGNING THE GUARANTEE

Bharat Heavy Electricals Limited : PSWR : Nagpur Tender Specs. No. BHE/PW/PUR/CHT-CRH/OJ-144

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BANK GUARANTEE PROFORMA FOR RELEASE OF LAST 5% PAYMENT

THIS DEED OF O	GUARANTEE made this day of	by
M/s		(hereinafter called
the Bank) in favour of M	s BHARAT HEAVY ELECTRICA	LS LIMITED, having its
registered office at BHEL	House, Asian Games Village, Siri F	ort, New Delhi – 110 049
(hereinafter called the '	'Principal"), thru BHEL, Power	Sector-Western Region,
Nagpur	-440-001(Maharashtra),	WHEREAS
M/s		(hereinafter
called the contractor) pro	poses to enter into a contract arisin	g out of Letter of Award
reference no.	dated	addressed by the
Principal to the contractor	r for (hereinafter called the said agre	eement).
	the said agreement provides that th	
sum of Rs.	(Rupees) ract value towards guarantee period	only)
		d of twelve months in the
form and manner therein	specified.	
	the contractor have approached the	
	ne agreement arrived at between the	
	reed to give such guarantee as he	reinafter mentioned the
Principal.		
NOW therefore t	these presents witness that we the	Rank by the hand of
-	the offices are authority by the	· ·
	nk do hereby undertakes to pay to	
	cupees	
guarantee against any los	s or damage caused to or by the afo	resaid Contractor of any
	, stipulations or undertakings of an	
	nd documents attached thereto and	•
	by the said contractor to the Princ	
	eement. (the decision regarding the	1
_	in the discretion of the Principal).	

We further undertake to pay without demur the aforesaid amount in a lumpsum on demand or such part hereof as the Principal may demand from time to time irrespective of the fact whether the said Contractor admits or denies such claim or question its correctness in any Court, Tribunal or arbitration proceedings or before any authority. The aforesaid guarantee will remain in force and we shall be liable under the same irrespective of any concession or time being granted by the Principal to the Contractor in or for fulfilling the said Agreement between Contractor and the Principal and the guarantee will remain in full force irrespective of any change of terms, conditions or stipulations or any variation in the terms of the said Agreement irrespective of whether notice of such change or variation is given to us or not and claim to receive such notice of any change/and/or variation of the terms and/or conditions of the said agreement is hereby specifically waived by us. Further we shall not be released from the guarantee by any forbearance or the exercise or non-exercise of any of the powers or rights under the said agreement by the Principal against the

Bharat Heavy Electricals Limited: PSWR: Nagpur Tender Specs. No. BHE/PW/PUR/CHT-CRH/OJ-144

Contractor irrespective of whether notice of such forbearance enforcement or nonenforcement of any powers or rights, modifications or changes made in the agreement or concessions shown to Contractor by the Principal is given to us or not.

The Guarantee herein contained shall not be determined or affected by the liquidation or winding up or insolvency of or change in the constitution of the Contractor but shall in all respects and for all purposes binding and operative until all payments of all moneys due or that may hereinafter become due to the Principal in respect of any liabilities or obligations of the contractor under the said agreement.

The Bank guarantee shall be valid till i.e. 12 months after completion of works as per relevant clause of Tender Specification No._____

Any claim or dispute or disputes arising under the terms of this document shall be enforced or settled in the Courts at NAGPUR only.

And lastly the undertaken not to revoke this guarantee during its currency except with the previous consent of the Principal in writing.

The Guarantor hereby declares that it has powers to execute this guarantee and the executant has full powers to do so on behalf of the Guarantor.

(Name of the Bank & Place)

DATED:

SEAL

DESIGNATION OF THE AUTHORISED PERSON SIGNING THE GUARANTEE

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BHARAT HEAVY ELECTRICALS LIMITED

(A Government of India Undertaking)
Power Sector – Western Region
345, Kingsway
Nagpur – 440 001

CONTRACT AGREEMENT

AGREEMENT NO	DATED
NAME OF WORK	
NAME OF THE CONTRACTOR WITH FULL ADDRESS	
AMOUNT OF TENDER ACCEPTED	
LETTER OF INDENT NO.	
TIME ALLOTTED FOR COMPLETING THE WORK (DATE	
OF COMPLETION)	
CONTRACTOR	(OFFICER AUTHORISED TO SIGN
	AGREEMENT)

Bharat Heavy Electricals Limited: PSWR: Nagpur Tender Specs. No. BHE/PW/PUR/CHT-CRH/OJ-144

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CONTRACT AGREEMENT

This Agreement made this day, to Registered Office at BHEL HOUS the FIRST PARTY) thru BHI SHREEMOHINI, 345, KINGSW	E, SIRI FORT, NEV CL, POWER SEC	W DELHI (herein CTOR-WESTERN 440001, of one	after called REGION part and
of the SECOND PARTY). 02 WHEREAS the first part			
particularly described in the appendi herewith.	ces including drawing	gs and specificatio	more ons attached
of the first party has decided to give to the operated as the said contract schedule said contract rates). of AND WHEREAS the said contract schedule said contract rates). of AND WHEREAS the said congressed on the complete work and whereas the validity of the contractor, if so required for the extent failure to do so, the contractor shall from the bills for agreed that the failure to extend the aforesaid amount in the manner specificand first party reserves the right to the said sum of Rs	he above said work to r has agreed to do neral conditions and e) at approved rates cractor has furnished and has further agreing recovered at 10° the satisfactory come said Bank Guaranted ded period of contract pay or accept the rethwith in one installe validity of Bank Guied above shall constituted and legal action to the returned) to the returned of the same contract of the same con	the Contractor. the herein contain special conditions (hereinafter referred the Bank Guara only) towards reed for balance an value of each rupletion and performee has to be exect period and in the recovery of this am Iment and it has fuarantee or failure titute the breach of deemed fit for recovery of this contractor on	ned in these (hereinafte ed to as the ntee of Rs initial 50% nount of Rs nning bill till nance of the event of his ount of Rs turther beer to pay the the contractovery of the will be the will be the will be the contractovery of the mill be the contractory of the contra
Now these presents witness the said contract rates, as also rendered and performed by the to the stipulation hereinafter expenses.	of agreement of good contractor in the exe	od and faithful se	ervice to be
O7 That the said contractor will proceed contained in these presents, Conditions of Contract and the said schedule, Specifications, Albard also such other drawings and infirst party.	nstructions to the To Contract documents of ppendices, Letter of	enderers, General attached herewith i Indent, drawings a	and Specia ncluding the attached and
O8 And that the said contractor specifications and Conditions of Drawings etc. as aforesaid and character of work to be executed.	f Contract, Appendice also to have satisfie	es, Schedules, Lette	er of Award

Bharat Heavy Electricals Limited : PSWR : Nagpur Tender Specs. No. BHE/PW/PUR/CHT-CRH/OJ-144

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- That the said contractor shall carryout and complete the execution of the said work to the entire satisfaction of the Engineer-In-charge within the agreed time schedule.
- That the first party after proper scrutiny of the bills submitted by the said contractor will pay to him during progress of the said work at said contract rates and agreed terms of payment, a sum as determined by the first party in respect of the work executed by the contractor.
- That the contract shall come into force with retrospective effect from the date on which Telex/Fax Letter of Indent was issued to the contractor.
- That whenever under this contract or otherwise any sum of money shall be recoverable from or payable by the contractor, the sum may be deducted in the manner as set out in the conditions of the contract aforesaid.
- That all charges on account of Octroi, terminal and sales tax or other duties on material obtained for the work shall be borne by the said contractor.
- This is agreed between the parties that the non-exercise of any of the powers conferred on the authorities of the first party will not in any manner constitute waiver of the conditions hereto contained in these presents and the liability of the said contractor either of past or future compensation shall remain unaffected.
- That the expression BHEL means the Bharat Heavy Electricals Limited, BHEL House, Siri Fort, New Delhi, Through BHEL, Power Sector-Western Region, "Shreemohini Complex", 345, Kingsway, Nagpur 440 001.

	ents nereto attached viz:-
1	
3	etc.
shall also for	m part of this agreement.
	hereto the parties have respectively set their signature in presence of: with full address)
1.	
2.	Signature of the Contractor
	(To be signed by a person holding valid Power of Attorney of the Company)
	vith full address)
1. 2.	
	For and on behalf of
D.4.T.E.	BHARAT HEAVY ELECTRICALS LTD
DATE	