TENDER DOCUMENT NO: PSER:SCT:BDG: C 719:07

GENERAL CONDITIONS OF CONTRACT VOLUME – IB

FOR

Renovation of Chumery building, construction of soakpits, under ground masonry / concrete works, tiling, sanitary works and other miscellaneous civil & electrical works etc.

AT

1 X 250 MW Budge-Budge Generating station extension Unit-3 of CESC

PO - PUJALI

DIST - 24 Parganas (S)

WEST BENGAL

BHARAT HEAVY ELECTRICALS LIMITED
(A Govt. Of India Undertaking)
POWER SECTOR – EASTERN REGION
DJ-9/1, SALT LAKE CITY, SECTOR-II,
KOLKATA – 700 091

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<u>PART – I</u>

INSTRUCTION TO TENDERER

CLAUSE	DESCRIPTION
NO	DESCIVII TION
1.0	SUBMISSION OF TENDERS
	The tenderers must submit their tenders in two parts in separate sealed covers as detailed
	below and as per instructions of NIT.
	PART-I (TECHNO-COMMERCIAL PART).
	PART-II (PRICE PART).
1.1	PART-III (TECHNO-COMMERCIAL PART)
1.1.1	This shall includes the following :
1.1.1.1	Covering letter of Tenderer.
1.1.1.2	Volume-IA/IB/IC/ID – General and Special Conditions of Contract.
1.1.1.3	Volume-II – Technical specification including drawings, if any.
1.1.1.4	Volume-III – 'Price schedule', (No rate shall be entered in the rate column. Only write 'quote'
4 4 4 5	against each rate of the schedule).
1.1.1.5	Drawings.
1.1.1.6	Schedules, annexures, proformas and other documents as indicated in the tender document and as specified in the tender enquiry letter.
1.1.1.7	The above documents shall form one set of the Part-I tender. Tenderers shall submit requisits sets of Part-I tender, i.e. original and duplicate sets as specified in the tender enquiry letter. All the sets shall be sealed and marked 'Original Part-I tender' and 'Copies of Part-I tender' on the respective sets and superscribed as:
	PART – I (TECNHO-COMMERCIAL PART).
	TENDER DOCUMENT NO.
	NAME OF WORK AND PROJECT.
	SUE DATE OF SUBMISSION.
1.2	PART –II (PRICE PART)
	This shall include following:
1.2.1	Copy of the covering letter enclosed in Part – I tender.
1.2.2	Volume III – Schedule of item of work (in the rate /price column the rate / price figures should
	be entered in words as well as in figures).
1.2.3	Tenderer shall submit requisite sets of Part – II tender duly sealed in one cover, superscribed as:
	PART – I (PRICE PART).
	TENDER DOCUMENT NO.
	NAME OF WORK AND PROJECT.
	SUE DATE OF SUBMISSION.
1.3	PART – III (EMD)
	Earnest Money Deposit should be made in the form as indicated in tender document and shall be submitted inside a sealed envelope superscribing the following.
	PART – III (EMD).
	TENDER DOCUMENT NO.
	NAME OF WORK AND PROJECT.
	SUE DATE OF SUBMISSION.
1.4	MAIN COVER
	Duly sealed and superscibed, as detailed above of Part - I, Part- II and Part - III tenders
	shall be enclosed in one main cover duly sealed and superscirbed as:
	PART-IV (TECNHO-COMMERCIAL PART, PRICE PART AND EMD).
	TENDER DOCUMENT NO.
	NAME OF WORK AND PROJECT.
4.5	SUE DATE OF SUBMISSION.
1.5	Tenders submitted by post shall be sent by 'REGISTERED POST ACKNOWLEDGEMENT
	DUE"/ by courier and shall be posted with due allowance for any postal delay. BHEL takes
	no responsibility for delay, loss or non-receipt of tenders sent by post. The tenders received
	after the due date and time of submission is liable to be rejected. Telegraphic offers and offers received by telex/ fax may not be considered unless confirmed in writing by a detailed
	offer.
<u> </u>	Onor.

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2.0	OPENING OF TENDERS
2.1	Unless otherwise specified, techno-commercial bids will be opened one day after latest due
	date of submission of offer at 15-00 hrs for which bidder may depute representative.
2.2	While BHEL reserve the right to open the price bid (Cover -II) of the offers in camera, the
	date & time to open to Cover–II tender opening shall be intimated to the bidders in case
	BHEL decides it to be 'Public opening' and in such a case, one representative of the bidder shall be allowed to attend.
2.3	Price bids of those bidders who will be qualified for the subject job on the basis of pre-bid
2.0	discussions, evaluation of techno commercial bids etc will be opened on specified date.
	Bidders may depute their representatives to participate in opening of price bids. BHEL's
	decision in this regard is final & binding.
3.0	RATES TO BE IN FIGURES AND WORDS
3.1	The tenderer shall quote in English both in figures as well as in words the rates and amounts
	tendered by him in the priced schedule of items of work forming part of the tender in such a
	way that interpolation is not possible. The amount for each item shall be worked out and
	entered and requisite totals given of all items. The tendered amount for the work shall be
3.2	entered in the tender and duly signed by the tenderer. If some discrepancies are found between the rate given in words and figures or the amount
3.2	shown in the tender the following procedure shall be followed.
3.2.1	When there is a difference between the rates in figures and words, the rates which
	correspond to the amount worked out by the tenderer shall be taken as correct.
3.2.2	When the rate quoted by the tenderer in figures and words tallies but the amount is incorrect,
	the rate quoted by the tenderer shall be taken as correct.
3.2.3	When it is not possible to ascertain the correct rate, in the manner prescribed above, THE
	LESSER OF THE TWO (ie between figures and words) will be treated as valid rate.
4.0	CORRECTIONS AND ALTERATIONS
	All entries in the tender shall either be typed or be in ink, erasures and over-writing are not
	permitted and may render such tenders liable to summary rejection. All corrections and alterations shall be duly attested by the tenderer with date.
5.0	ALL PAGES TO BE INITIALLED
0.0	All signatures in tender documents shall be dated as well. All pages of all volumes and
	sections including drawing of tender documents shall be initialed with seal at the lower right
	hand corner or signed with seal wherever required in the tender documents by the tenderer
	or by a person holding power of attorney (copy to be enclosed with Part-I of tender)
	authorizing him to sign on behalf of the tenderer before submission of tender.
6.0	ADDENDA
	Addenda to the tender documents may be issued prior to the date of opening of the tenders
	to clarify documents or to reflect modifications in the design or contract terms. All such addenda issued shall form part of tender documents.
7.0	RATES TO BE ALL INCLUSIVE
	The tenderer shall quote for the jobs on the basis of the items entered in the schedule of
	items of work and shall quote separately for each and every items entered in schedule of
	items of work. The rates and prices quoted shall be all inclusive as provided for in the
	schedule of items of work and any claim whatsoever for enhancement of rates or prices
	quoted on any account shall not be entertained.
8.0	INFORMATION
	The information given in the tender documents and the plans and drawings forming part
	thereof is merely intended as general information without undertaking on the part of BHEL as to their accuracy and without obligation relative thereto upon BHEL. Before tendering, the
	tenderers are advised to inspect the site of work and the environments and be well
	acquainted with the actual working and other prevalent conditions, facilities available, position of labour etc. No claim will be entertained later on the ground of lack of knowledge.
9.0	acquainted with the actual working and other prevalent conditions, facilities available,
9.0	acquainted with the actual working and other prevalent conditions, facilities available, position of labour etc. No claim will be entertained later on the ground of lack of knowledge.
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10.0	acquainted with the actual working and other prevalent conditions, facilities available, position of labour etc. No claim will be entertained later on the ground of lack of knowledge. QUANTITIES The qualities indicated in the schedule of items of work with respect to the various items are only approximate and are intended merely as general information without undertaking as to the correctness thereof and without any obligation relative thereto upon BHEL. ENCLOSURES The enclosures to be enclosed alongwith Part-I of the tender shall include the following besides other such enclosures which may have been specified elsewhere in the tender documents.
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10.0	acquainted with the actual working and other prevalent conditions, facilities available, position of labour etc. No claim will be entertained later on the ground of lack of knowledge. QUANTITIES The qualities indicated in the schedule of items of work with respect to the various items are only approximate and are intended merely as general information without undertaking as to the correctness thereof and without any obligation relative thereto upon BHEL. ENCLOSURES The enclosures to be enclosed alongwith Part-I of the tender shall include the following besides other such enclosures which may have been specified elsewhere in the tender documents.

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	business shall be furnished. In case of partnership firm, names of all the partners and their
	address, attested copy of partnership deed, instrument of partnership duly certified by the
	Notary Publics shall be enclosed. In case of company, date and place of registration
	including date of commencement – certificate, certified copies of Memorandum and Articles
	of Association, nature of business carried on by the company and provisions of the
	memorandum relating thereof, names and particulars including addresses of all the directors
	and their previous experiences etc shall be furnished.
10.4	Power of Attorney or other proof of authority of the person who has signed the tender.
10.5	Provident Fund Account No through which PF of the Employees are deposited including
	supporting document for the same.
10.6	In case of a consortium arrangement consisting of prime bidder and his associate, the prime
	bidder to furnish as exclusive undertaking jointly executed by him and his associate for the
	successful performance of the entire contract. At the time of contract finalisation, a legal
	document on the formation of such group has to be submitted to BHEL which will be a part of
	the contract document.
10.7	Any other documents required in terms of this notice.
11.0	GÉNERAL
11.1	The tender shall be completely filled in all respects and shall be tendered together with
	requisite information in the manner detailed above. Any tender incomplete in any respect
	and violating any of the instructions shall be liable to be rejected. If the space in the tender or
	any schedule or proforma is insufficient pages shall be separately added and numbered.
11.2	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.
11.2.1	To reject any or all the tender.
11.2.2	To split up the work amongst two or more tenderers.
11.2.3	To award the work in part.
11.2.4	Either of the contingencies stated in 11.2.2 and 11.2.3 to modify the time for completion
11.2.4	suitably.
11.3	Conditions and unwitnesses tenders, tenders containing absurd or unworkable rates and
11.0	amounts and tenders which are incomplete and otherwise considered defective and not in
	accordance with the tender conditions, specification, etc are liable to be rejected.
11.4	If a tenderer expires after his submission of the tender or after the acceptance of his tender
11.4	BHEL may at their discretion cancel such tender. If a partner of a firm expires after the
	submission of the tender or after the acceptance of the tender, BHEL may cancel such
	tender at their discretion unless the firm retains its character.
11.5	BHEL will not be bound by any power of attorney/ granted by the tenderer or by changes in
11.5	the composition of the firm made subsequent to the execution of the contract. They may
	however, recognize such power of attorney and changes after obtaining proper legal advice,
	the cost of which will be chargeable to the contractor, concerned.
11.6	If the tenderer deliberately gives wrong information in his tender, BHEL reserves the right to
11.0	
	reject such tender at any stage or to cancel the contract, if awarded and forfeit Earnest
11.7	Money Deposit/ Security Deposits. Canvassing in any form in connection with the tenders is strictly prohibited and the tenders
11.7	submitted by the contractor who resort to canvassing are liable to rejection.
11.8	Should a tenderer or contractor or in the case of a firm or Company one or more of its
11.0	partners / shareholders / directors have a relation or relations employed in the capacity of an
	officer of BHEL, the authority inviting tender shall be informed of the fact alongwith detail of
	the officer. Failing this, BHEL may, at its sole discretion, reject the tender or cancel the contract and forfeit the Earnest Money /Security Deposit.
11.9	
11.9	The tender submitted by a bidder shall become property of BHEL who shall have no
11.10	obligation to return the same to the bidder. BHEL shall not be liable for any expenses incurred by the bidder in the preparation of the
11.10	
11.11	tender irrespective of whether the tender is accepted or not.
11.11	In the event of any contradiction between the terms and conditions stipulated in the different
	volumes forming the tender documents, the order or precedence shall be Volume-II
	Technical specifications (for technical aspects); Special conditions of contract followed by
44.40	General condition of contract (for commercial aspects).
	Any submission of tondor by the hidden shall be deemed to be a deep deep of the same
11.12	Any submission of tender by the bidder shall be deemed to have done after careful study
11.12	and examination of the tender papers with the full understanding of the implications thereof.
11.12	and examination of the tender papers with the full understanding of the implications thereof. The specifications and terms & conditions shall be deemed to have been accepted unless
11.12	and examination of the tender papers with the full understanding of the implications thereof. The specifications and terms & conditions shall be deemed to have been accepted unless otherwise specifically commented upon by the tenderer in his officer. Non compliance of any
	and examination of the tender papers with the full understanding of the implications thereof. The specifications and terms & conditions shall be deemed to have been accepted unless otherwise specifically commented upon by the tenderer in his officer. Non compliance of any tender instructions may result in the rejection of the tender offer.
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	any portion of the tender specification or find discrepancies or omissions in the drawings or the tender documents issued are incomplete or shall require clarifications on any of the technical aspect, scope of work etc, he shall at once contract the authority inviting the tender for clarification before the submission of the tender.
11.14	The bidder shall make independent enquiry as to the conditions and circumstance affecting his tender estimate and to the possibility of executing the supplies/ works as described. In assessing the tender it will be deemed that the bidder has inspected and examined the site and its surroundings and to have satisfied for the completion of the work and the means of transport and access to the site. The accommodation he may require, the general labour position at the site and to have fixed his prices taking into consideration the risk, contingencies and other circumstances which may influence or affect the execution of the contract.
11.15	Deviations from specifications technical as well as commercial will not normally be allowed. In case the bidder offers an alternative/ nearest equivalent equipment/ specifications, the bidder shall guarantee the performance of the same for the same conditions and ensure as specified in the technical specifications.
11.16	List of the deviations shall be given separately for technical and commercial aspects with specific mention to the clause of tender documents.
11.17	Reasons for such deviations are to be furnished.
11.18	If the proposal submitted has any assumption while making technical specification and scope the same shall be listed separately.
11.19	Deviation from terms and conditions contained in the tender document is not acceptable. However if it is must for the bidder to take deviations, the same shall be loaded while evaluating their offer.
11.20	Penalty for technical deviations/ power consumption etc. shall be twice the rate used for loading. This shall be over and above liquidated damages.
11.21	Tender will be evaluated taking into consideration financial advantages as available including those available from the ultimate owner.
11.22	Conditions and unwitnesses tenderers, tenders containing absurd or unworkable rates and amounts and tenders which are incomplete and otherwise considered defective and not in accordance with the tender conditions, specification, etc. are liable to be rejected.
11.23	BHEL will be not be bound by any power of attorney granted by the bidder or 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 chargable to the contractor concerned.
11.24	No correspondence shall be entertained from the bidder after the opening of Part-II price part of the tender.
11.25	Offer submitted by any bidder other than to whom the tender is issued shall be treated as unsolicited offer.
11.26	Tender when finalised shall be in the name of the bidder only and change of name during tender evaluation and after submission of the tender is liable to make his offer ineligible for participation.

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<u>PART – II</u>

GENERAL CONDITIONS OF CONTRACT

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GENRAL CONDITIONS OF CONTRACT

1.0	APPLICATION				
	Unless otherwise provided in the Contract Documents, these General Conditions shall				
	govern the works of the accompanying Technical Specifications. Special conditions of this				
	volume shall be read in conjunction with these General Conditions and these conditions will form a part of the Contract Documents.				
2.0	DEFINITION OF TERMS				
2.1	In construing these General Conditions, Special conditions and accompanying				
	Specifications the following words shall have the meaning herein assigned to them except				
	where the context otherwise requires.				
2.1.1	The "Owner /purchaser" shall mean,				
	and shall include its accessor to the standards of the standard of the standards of the sta				
	,and shall include its successor in office, legal representative and permitted assigns.				
2.1.2	"Vendee / BHEL" shall mean Bharat Heavy Electricals Limited, a Company registered under				
	the Indian Companies Act 1956, with its Registered Office at BHEL House, Siri Fort, New				
	Delhi, Power Sector, Eastern Region, Kolkata – 01, or its Administrative Officers or its				
	engineer or other employees authorised to deal with any matter with which these persons				
2.1.3	are concerned on its behalf. EXECUTIVE DIRECTOR / GENERAL MANAGER shall mean the officer in administrative				
2.1.0	charge of BHEL, Power Sector, Eastern Region or their other regional offices.				
2.1.4	The "Bidder / Tenderer" shall mean well – established reputed Organizations,				
	manufacturers, etc. having requisite financial and technical capability and experience				
	participating in the Tender invited by BHEL for supply and delivery, erection, testing and				
	commissioning of plant, equipment and strikes including associated civil, structural and				
2.1.5	architectural works complete as per applicable technical specifications. The "Contractor" shall mean the successful Bidder / Tenderer who is awarded the Contract				
2.1.0	and shall be deemed to include the Contractor's successors, assigns, heirs, executors,				
	administrators of representatives approved by the BHEL.				
2.1.6	The "Sub-contractor" shall mean individual or firm to whom any part of the work has been				
	Subletted by the Contractor with the consent in writing of BHEL & shall include his /its heirs,				
2.1.7	executors, administrators, legal representative and permitted assigns. The "Engineer" shall mean an Officer of BHEL as may be duly appointed and authorised in				
2.1.7	writing by BHEL to act as "Engineer" on his behalf for the purpose of the Contract, to				
	perform the duty set forth in this General Condition of Contract and other Contract				
	Documents. Site incharge is empowered for such appointment.				
2.1.8	The "Inspector" shall mean any firm or person as may be duly appointed and authorised in				
	writing by BHEL /Purchaser from time to time to inspect plant and equipment, works and services under the Contract.				
2.1.9	"Acceptance of Tender" shall mean Telegraph /Telex /Telefax Letter of Intent or Notification				
2.1.0	communicating to the Contractor the acceptance by BHEL of his tender.				
2.1.10	"Contract Price" means the sum named in the tender subject to such additions thereto or				
	deductions therefrom as may be made under the provisions hereinafter contained.				
2.1.11	"Contract" shall mean the Agreement between the Contractor and BHEL for execution of				
2.1.12	the payment for the Work as defined in the Contract Documents. The "Contract Documents" shall mean and include the General Conditions of Contract,				
2.1.12	Specifications and Schedules, Drawings. Form of Tender, Covering Letters, Schedule of				
	Prices and Quantities submitted by the successful Bidder, Letter of Intent of BHEL,				
	Drawings, subsequent amendments mutually agreed upon and the Agreement to be				
	entered in to between BHEL and the Contractor duly signed by them under the Clauses				
	"Contract" of these General Conditions and other documents that may form part(s) of the Contract Documents.				
2.1.13	"Work or Works" shall mean the plant / equipment to be supplied and /or works to be done				
	by the Contractor under the contract Documents.				
2.1.14	"Plant" shall mean the portion of the Coal-fired Thermal Power Plant comprising of Unit no.				
	with an installed capacity of MW each (including some other common				
	facilities) being installed at				
	includes permanent equipment, machinery, apparatus, materials, articles and civil, structural and architectural works and things of all kinds to be provided under the contract				
	documents.				
2115	"Test" shall mean such test as is prescribed or considered necessary by BHEL/ purchaser				
2.1.15					
∠.1.15	whether performed or made by the Engineer or any Agency acting under the direction of the Engineer.				

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2.1.16	"Constructional Plant" means all appliances or things of what so ever nature required in or about the execution, completion or maintenance of the works or temporary works by the contractor at his own cost and risk (as hereinafter defined) but does not include materials or other things intended to form or forming part of the permanent work.
2.1.17	"Goods" shall mean plants, equipment or materials to be supplied under the Contract Documents.
2.1.18	"Temporary Work" shall mean all temporary works of every kind required in or about the execution, completion or maintenance of the work by the contractor at their cost and risk.
2.1.19	"Completion Time" shall mean the period by date/month specified in the acceptance of tender for handing over of the intended scope of work, erected equipment /plant, which are found acceptable by the engineer being of required standard, and conforming to the specifications of the contract.
2.1.20	"Consignees" shall mean the authorised representative or officer of the Purchaser / BHEL to whom the plant, equipment and materials are required to be delivered in the manner indicated in the Contract Documents.
2.1.21	The "Specification" or Specifications / Technical Specification shall mean all Specifications including technical specifications of, the Works and the Tender Drawings and schedules attached thereto and any modification made thereof.
2.1.2	"Drawings" shall mean drawings referred to in the contract Documents including modifications if any and such other drawings as may be from time to time furnished by the Contractor and approved by BHEL/purchaser.
2.1.23	"Site" shall mean the land and other places including existing roads, paths, etc put at the disposal of the contractor by BHEL/purchaser in connection with the execution of the Contract.
2.1.24	"Tests on Completion" Shall mean tests as are prescribed in the specifications and/or other tests as mutually agreed upon by BHEL/purchaser and the Contract to be carried out by the Contractor on erection of the plant to prove satisfactory performance as per Specification.
2.1.25	"Acceptance Test / Performance Guarantee Test" shall mean such test as are required to determine and demonstrate guaranteed capacity, efficiency and operating characteristics of the Plant as stipulated in the contract Documents.
2.1.26	"Commissioning" shall mean the first successful operation of the plant by the Contractor after all initial adjustments, Trials, Cleaning and reassembly required on completion of installation at the Site, if any, have been completed.
2.1.27	"Initial Operation", "Reliability Run" or "Trial Run" shall mean the first continuous operation of the plant by the Contractor covered under the Contract with sub-systems under varying loads to demonstrate satisfactory operation for a specified period which shall not be less than fifteen (15) days.
2.1.28	"Commercial Operation" shall mean the conditions of operation in which all the equipment covered under the Contract are officially declared by BHEL / Purchaser, to be available for continuous operation at different loads and including rated capacity. Such declaration by BHEL/ Purchaser will be issued within thirty days after successful trial run made by the Contractor.
2.1.29	"Service" shall mean furnishing of labour and services as per specifications & supervision of complete erection, testing and putting equipment and materials to be supplied into satisfactory operation, supervision of inland transportation, loading, unloading & storage at the site as defined in the Contract Documents.
2.1.30	"Warranty Period" shall mean the period during which the Contractor shall remain liable for repair or replacement of any defective part of the plant supplied, Works done and services rendered under the Contract.
2.1.31	"Codes" shall mean the applicable International and Indian standards as on the date of letter of Intent and any subsequent modification thereof.
2.1.32	"Month" shall mean calendar month. 'Day' or 'Days' unless herein otherwise expressly defined shall mean calendar day or days of twenty four (24) hours each. A week shall mean continuous period of seven (7) days.
2.1.33	"Letter of Intent" shall mean BHEL's letter or notification conveying his acceptance of the Tender subject to such conditions as may have been stated therein.
2.1.34	"Writing shall include any manuscript type or handwritten or printed statement, including Telex, Cable and facsimile transmission under or over signature or seal as the case may be.
2.1.35	"Approved" or "Approval" shall include firms, companies, corporations and other bodies whether incorporated or not.
2.1.36	Words incorporating "Persons" shall include firms, companies, corporations and other bodies whether incorporated or not.
2.1.37	"Words" incorporating the singular only shall also include the plural and vice-versa where the context requires.

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2.1.38	"F.O.B." shall mean delivery free of expenses to the Purchaser / BHEL on board the vessel at the port of shipment.
2.1.39	"CIF price" shall mean delivery free of expenses to the purchaser /BHEL on board the vessel at the port of entry including the insurance coverage.
2.1.40	"F.O.R. Destination" shall mean delivery free of expenses to the Purchaser / BHEL on rail wagons at destination Railway Station or the purchaser's siding as may be named.
2.1.41	"F.O.R. Works" shall mean loaded and stowed or trimmed free of expenses to the purchaser / BHEL on board rail wagons at the Contractor's Works siding or the nearest Railway station for transportation.
2.1.42	"Tonne" shall mean 1000 Kilogram weight. "Gallon" shall mean Imperial gallon, unless otherwise mentioned specifically.
2.1.43	"Final Acceptance" mean the BHEL's /purchaser's acceptance of the work / plant completed in every respect as per terms of Contract Documents on expiry of the Warranty / guarantee / maintenance period.
2.1.44	Terms and conditions not herein defined shall have the same meanings as are assigned to them in the latest edition of Indian Sales of Goods Act / Indian Contract Act as applicable.
2.2	SINGULAR AND PLURAL Words importing the masculine gender or singular number shall also include the famine gender and plural and vice versa where the context so requires.
2.3	HEADING OR NOTES
	The headings or notes in these conditions are solely for the purpose of facilitating reference and shall not be deemed to be part thereof or be taken into consideration in the interpretation or construction thereof or of the Contract.
2.4	LANGUAGE All documentation and correspondence regarding the Contract shall be in English language.
2.5	DOCUMENTS MUTUALLY EXPLANATORY
	Except if and to the extent otherwise provided by the Contract the provisions of Special Conditions of Contract shall prevail over General Conditions of Contract and over those of any other document forming part of the Contract. Subject to the foregoing the several documents forming the Contract are to be taken as mutually explanatory of one another but in case of ambiguities or discrepancies the same shall be explained and adjusted by the Engineer who shall thereupon issue to the Contractor instructions directing in what manner the Work is to be carried out.
3.0	SCOPE OF CONTRACT
3.1	The scope of work, if no otherwise mentioned in the Contract Document, shall be on the basis of a single contractor's responsibility, completely covering all the equipment / work specified under the accompanying Technical Specification. Some of the salient features are detailed hereunder:-
3.1.1	Detailed design of all the equipment and sub-systems and work as per specification if specifically mentioned in "Special Conditions of contract Vol. II" / Technical specification.
3.1.2	Complete manufactures of all the equipment /subsystem including shop /field testing and assembly as per specification. Providing of special tools and tackles and services necessary for satisfactory execution of the contract.
3.1.3	Pre- assembly, if any, erection, testing & commissioning, trial run of all the equipment / subsystems at the site, test on completion, putting into commercial operation and maintenance during warranty period as specified etc.
3.1.4	Providing services including manpower assistance for performance guarantee tests on completion of commissioning as specified.
3.1.5	Planning construction, completion and maintenance of the Works and except in so far as the contract otherwise provides the provision of all labour, materials, supervision, storage, Constructional Plant, equipments, supplies, transportation to or from the site, fuel, electricity, Temporary works and everything whether of a temporary or permanent nature including civil, structural and architectural works as required in and for such construction, completion, maintenance and handing over of the Works except items specified to be furnished by BHEL or others, all in accordance with the stipulations laid down in the Contract and additional drawings as may be provided by the engineer during execution of the works.
3.1.6	Even though all the work and materials necessary to the satisfactory completion of the Works may not be detailed in the Specifications and Schedule, their costs will be considered to be within the Contract and no extra charge will be accepted.
3.1.7	Except where otherwise specified the contractor shall at his own expenses supply and provide all the constructional plant, temporary works, materials, both for temporary and for permanent works, labour (including the supervision thereof) transport to or from the site and in an about the works and other things of every kind required for the construction, completion and maintenance of the works.

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3.1.8	The contractor shall provide and maintain adequate portable fire fighting site during the performance of the contract to the approval of the Engine authority. The work shall be executed in such a manner so as to minimize	er and the local fire
3.2	ENABLING WORKS	
3.2.1	The contractor shall, during the progress of the work, provide, erect and expenses all necessary temporary workshops, stores, site offices, roads, movements of his personnel and equipment, partitioning, temporary facilities required at site, temporary segregation within the site during contract, distribution of water and power, drainage etc and other tempo would be required including those required for fulfilling statutory provisi requirements required for the proper and efficient execution of the w sitting and erection of these buildings shall have the approval of the contractor shall at all times keep them tidy and in a clean and sanital entire satisfaction of the Engineer.	and access for the civil works, testing the tenure of the rary facilities which ions and any other ork. The planning, engineer and the
3.2.2	The contractor shall at his own cost provide office and other temporary a his staff and workmen including canteen facilities and sanitary accommod of electricity and water etc.	
3.2.3	If the contractor wishes to provide temporary housing and / or camp accollabour the contractor shall submit for prior approval by the Englaccommodation he proposes to erect before any construction commen will be responsible for all the costs associated with any temporary housecommodation provided by him.	gineer plan of all ces, the contractor
3.2.4	On the completion of the works the contractor shall clear away and remo- contractor's equipment, construction plant, surplus materials, rubbish an etc. of every kind and leave the whole of the site and works clean a condition to satisfaction of Engineer. All roads constructed and used including the access road shall be repaired and resurfaced where nece up to a condition satisfactory to the Engineer. The cost of carrying out borne by the contractor and such work shall be completed in all respect 4 weeks from the date of completion of the works.	nd temporary works as a workman like under the contract essary and brought such work shall be s within a period of
3.2.5	The contractor shall allow in his tender and provide at his cost all w required for the work of his employees of the work, together with all pipes or other means that may be necessary or required to ensure a proper a water and electricity for all purposes connected with the work.	s, wiring and fittings
3.2.6	In the event of a provision existing in the tender documents for su electricity either free or on payment basis, the water and electricity will be purchaser's/BHEL's supply system, or other sources at any point fixed I the site of work. The contractor shall make necessary arrangement for carrying or conveying the water and distribution of electricity in safe and required at his own cost.	e supplied from the by the Engineer on or lifting, pumping,
3.2.7	The contractor shall be responsible for the true and proper setting or relation to original points, lines and levels of reference given by the Eng for the correctness (subject as above mentioned) of the position lever alignment of all parts of the works and for the provision of all necessary and bench marks, instruments, appliances and labour in connection there during the progress of the work any error shall appear or arise in dimensions or alignment of any part of the works, the contractor on bein by the Engineer shall at his own expense rectified such error to satisficate the contractor of his responsibility for correctness thereof and the carefully protect and preserve all survey grid pillars, bench marks, significant of the works. CONTRACT PRICE	ineer in writing and els, dimension and survey, grid, pillars ewith. If at any time the position level g required to do so action of Engineer. hall not in any way the contractor shall
		t Documente to he
4.1	The Contract Price is the agreed sum of money stated in the Contract paid to the Contractor for the successful completion of the Works in acterms of the Contract Documents. The Contract Price shall be for the Work with the break ups as specified. The individual item rates or lump sum price as the case may be in the Contract shall be deemed to be firm for the entire period of the Contract of Contract and no escalation in the rates or price shall be permissil whatsoever unless otherwise specified. The Contract price shall not be varied in respect of the fluctuations in	ccordance with the entire scope of the ne schedule of this or extended period ble for any reason
	allowances payable to the labour in the cost of materials, consumables, or freight rates or for the soil conditions subsequently discovered at site	water, fuel, power

law of any local or other duly constituted authority in relation to the execution of the works or or day temporary works and by the rules and regulations of all public bodies and companies whose property or rights are affected or may be affected in any way by the works or any temporary works. In case BHEL is forced to pay any of such taxes and feet etc. BHEL shall have the right to recover the same from the money due to the contractor of other wise as deemed fit by BHEL. 4.2.2 The contractor shall conform in all respects with the provisions of any such statutes ordinance or law as aforesaid and the regulations or bye-laws of any local or other duly constituted authority which may be applicable to the works or to any temporary works and with such rules and regulations of public and companies as aforesaid and shall keep BHEL indemnified against all penalties and liability of every kind for breach of any such statute ordinance or law regulation or bye-law. 4.2.3 If the cost of the contractor of the penformance of the contract shall be increased or reduced by reason of the making at any stage after the date of his tender of any statute, ordinance or law, regulation, bye-laws of the Govt. or any local or other duly constituted authority the amount of such increase /decrease shall he borne by the contractor alone & Nc compensation on this account be entertained by BHEL except otherwise expressly provided. 4.2.4 While BHEL could pay the inspection fees, of the Boiler Inspectorate (wherever applicable) all other arrangement for the visits periodically by Boiler inspector to site, inspection certificates etc. will have to be made by the contractor. 5.0 VARIATIONS AND VALUATIONS 5.1 QUANTITIES The quantities set out in the tender are the estimated quantities of the work but they are no to be taken as the actual and correct quantities of the works to be executed by the contractor. 5.2.1 Increase or decrease the quantity of any work included in the contract. 5.2.2 Omit any such work. 5.2.3 Change the character or	VOLUME	- IB GENERAL CONDITIONS OF CONTRACT (SERVICES) 13 of 53
mentioned. 4.2.1 NOTICES, FEES, STATUTES, REGULATIONS ETC 4.2.1 The contractor shall give notices and pay all taxes, fees, royalties etc required to be give or paid under any National or State Statute, Ordinance, other law or any regulation or bye law of any local or other duly constituted authority in relation to the execution of the work or of any temporary works and by the rules and regulations of all public bodies and companies whose property or rights are affected or may be affected in any way by the works or any temporary works. In case BHEL is forced to pay any of such taxes and feet etc. BHEL shall have the right to recover the same from the money due to the contractor other wise as deemed fit by BHEL. 4.2.2 The contractor shall conform in all respects with the provisions of any such statutes ordinance or law as aforesaid and the regulations or bye-laws of any local or other duly constituted authority which may be applicable to the works or to any temporary works and with such rules and regulations of public and companies as aforesaid and shall keep BHEL indemnified against all penalties and liability of every kind for breach of any such statute ordinance or law regulation or bye-law. 4.2.3 If the cost of the contractor of the performance of the contract shall be increased or reduced by reason of the making at any stage after the date of his tender of any statute, ordinance or law, regulation, bye-laws of the Govt. or any local or other duly constituted authority, the amount of such increase /decrease shall he borne by the contractor alone & Nc compensation on this account be entertained by BHEL except otherwise expression provided. 4.2.4 While BHEL could pay the inspection fees, of the Boiler Inspectorate (wherever applicable) all other arrangement for the visits periodically by Boiler Inspector to site, inspection certificates etc. will have to be made by the contractor. 5.1 QUANTITIES The quantities set out in the tender are the estimated quantities of the work but they are not be taken as the a		profit or alleged losses or for any reason whatsoever unless otherwise specifically
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5.3.3 If the rates for altered, additional or substituted work cannot be determined in the manne	5.3.3	If the rates for altered, additional or substituted work cannot be determined in the manner

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	specified in sub-clause 5.3.1 & 5.3.2 above, then the contractor shall within 7 days of the date of receipt of order to carry out inform the engineer on the basis of prevailing market rates when the work is done and the decision given in this behalf shall be final and binding on the contractor. Rate analysis will be worked on CPWD manual of rate analysis as guidance.
5.3.4	If the rates for the altered, additional or substituted work cannot be determined in the manner specified in also clauses 5.3.1 to 5.3.3 above, then the contractor shall within 7 days of the date of receipt of order to carry out the work inform the engineer of the rate at which it is his intention to charge for such class of work, supported by analysis of rate or rates claimed, and the engineer shall determine the rate or rates on the basis of prevailing market rates and pay the contractor accordingly.
5.3.5	However, the engineer, by notice in writing, will be at liberty to cancel his order to carry out such class of items of work and arrange to carry it out in such manner as he may consider advisable. But under no circumstances the contractor shall suspend the work on the plea of non-settlement falling under the clause or claim any compensation on this account.
5.3.6	VARIATION EXCEEDING SPECIFIED PERCENT If the net effect of all variations (other than those arising by reason of any clause relating to variations in price of materials and/or labour) shall be found on completion of the whole of the works to result in a reduction or an addition greater than 30 percent of the sum named in the tender the amount of contract price shall be amended by such sum as shall be agreed upon between the Engineer and the contractor. In the event of disagreement, the Engineer shall fix such sum as shall in his opinion be reasonable & proper regard being had to all material and relevant factors including the contractor's cost & overhead. The contractor shall be obliged to accept such sum as fixed by the Engineer.
5.4 5.4.1	DAY WORK The Engineer may if in his opinion it is necessary or desirable order in writing that any additional or substituted work shall be executed on a day work basis. The Contractor shall then be paid for such work under the conditions set out in the day work schedule including in the bill of quantities and at the rates and prices affixed thereto by him in his tender.
5.4.2	The contractor shall furnish to the Engineer receipts or other vouchers as may be necessary to prove the amount paid and before ordering materials shall submit to the Engineer quotations for the same for his approval.
5.4.3	In respect of all work executed on a day work basis the contractor shall during the continuance of such work deliver each day to the Engineer an exact list in duplicate of the names, occupation and time of all workmen employed on such work and a statement also in duplicate showing the description and quantity of all materials and plant used thereon or therefore (other than plant which is included in the percentage addition in accordance with the schedule here-in-before referred to). One copy of each list and statement will if correct or when agreed be signed by the Engineer and returned to the contractor.
5.4.4	At the end of each month the contractor shall send to the Engineer a priced statement of labour, material and plant (except as aforesaid) used and the contractor shall not be entitled to any payment unless such lists and statements have been fully and punctually rendered. Provided always that if the Engineer shall consider that for any reason the sending of such list or statement by the contractor in accordance with the foregoing provision was impracticable he shall nevertheless be entitled to authorize payment for such work either as day work (on being satisfied to the time employed and plant and materials used on such work) or at such value therefore as shall in his opinion be fair and reasonable.
5.4.5	The contractor shall send to the Engineer once in every month an account giving full and detailed particulars of all claims for any additional expenses to which the contractor may consider himself entitled and all extra or additional work ordered by the Engineer which he has executed during the preceding month and no claim for any such work will be considered which has not been included in such particulars. Provided always that if the Engineer shall be entitled to authorize payment to be made for any such work notwithstanding the contractor's failure to comply with this condition if the contractor has at the earliest practicable opportunity notified the Engineer in writing that he intends to make claim for such work.
6.0	COMMENCEMENT OF WORK, COMPLETION TIME, PROGRESS AND COMPLETION OF WORK
6.1	The time and date of completion of the work as stipulated in the contract document shall deemed to be the essence of the Contract. The contractor shall commence the works on site within the period named in the letter of intent issued by BHEL and shall proceed with the same with due expedition and without delay except as may be expressly sanctioned or ordered by the Engineer. If the contractor fails to commence the work within the stipulated time, BHEL at his sole discretion will have the right to cancel the contract. In such an event the contractor's earnest money and security deposit with BHEL will stand forfeited without any further reference to the contractor, without prejudice to any and all of the BHEL's other

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	rights and remedies in this regard. The contractor shall so organize his resources and perform so as to complete the work not later than the aforesaid date of completion. The time for completion shall always be reckoned from the effective date of contract.
6.1.1	The Contractor shall submit a PERT Network showing various key phases of the work such as design, procurement, manufacturing, shipment, field erection and construction activities within thirty (30) days after the date of Letter of intent. This network shall also indicate the interface facilities to be provided by the purchaser /BHEL and the dates by which such facilities are needed by the contractor and also the programme for phase wise release of work site for construction work as may be needed by the contractor.
6.1.2	The Contractor shall discuss the network so submitted with BHEL. The agreed network may be in the form as submitted or in revised form in line with the outcome of discussions any shall form a part of the contract documents.
6.1.3	The above PERT network shall be reviewed periodic review reports shall be submitted by the Contractor to BHEL as directed by him.
6.1.4	The Contractor shall make available to BHEL detailed manufacturing, erection, testing and commissioning and construction programmes in line with the agreed PERT Network in the form of PERT or Bar Chart as desired by BHEL within 30 days from the date of receipt of LOI During performance of the contract, such programmes shall be renewed, updated and submitted to BHEL as and when needed by him or periodically as specified by him. If in the opinion of BHEL proper progress is not maintained, suitable changes shall be made in the Contractor's operation to ensure proper progress.
6.2	Should the amount of extra or additional work of any kind or other special circumstances of any kind whatsoever which may occur be such as fairly to entitle the contractor to an extension of time for the completion of the work the Engineer shall determine the period of such extension. The contractor shall have no claim against BHEL in respect of revision in delay and disorganization of work even if the extension of time is granted, except where such claim is expressly allowed in the Contract.
6.3	NIGHT AND HOLIDAY WORK Subject to any provision to the contrary contained in the Contract, none of the permanent work shall, save as hereinafter provided, be carried on during the night or on Sundays or other holidays without the permission in writing of the Engineer save when the work is unavoidable or absolutely necessary for the saving of life or property or for the safety of the works in which case the contractor shall immediately advise the Engineer or Engineer's representative. Provided always that the provisions of this clause shall not be applicable in the case to any work which it is customary to carry out by rotation of double shifts. The whole of the materials, plant and labour to be provided by the contractor in night and holiday work under this clause and the mode, manner and speed of execution and maintenance of the works are to be of a kind and conducted in manner approved by the Engineer. Should the rate of progress of the works or any part thereof be at any time in the opinion of the Engineer is too slow to ensure the completion of the work by the prescribed time for completion. If the work is not being carried on by day described and by night and the contractor shall request permission to work by night and on Sundays and other holidays as well as by day, then, if the Engineer shall grant such permission the contractor shall not be entitled to any additional payment for doing so. All work at night shall be carried out without reasonable noise and disturbance. The contractor shall indemnify BHEL from and against any liability for damages on account of noise or disturbance created while carrying out the work and from against all claims, demands, proceedings, damages, costs, charges and expenses what so ever in regard or in relation to such liability.
6.4.1	PROGRESS REPORTS AND PHOTOGRAPHS The Contractor shall furnish eight (8) prints each of monthly progress reports as approved by BHEL and photographs of the work done. Photographs shall be taken when and where indicated by the Engineer or his representative. Photographs shall be approximately 100mm x 125mm in size including margin of for fixing. Adequate number of photographs shall be submitted indicating various stages of manufacture and/or installation as applicable. Each photograph shall contain the date, the name of the Contractor and the title of the view taken.
6.4.2	Monthly progress report shall be submitted. These shall detail the status of design, drawings, procurement of raw materials and manufacture of the equipment and delivery of the equipment and also status of erection, testing and commissioning work as applicable. BHEL shall advise the Contractor about the progress schedule and photographs he has to submit each together with the names and addresses of persons to whom they are to be sent. The Contractor shall also furnish actual progress against schedule and such other information as BHEL may require to satisfy himself about the timely manufacture and delivery of equipment and timely construction and erection work to suit the commissioning date. The report shall also indicate the reasons for the variance between the schedule and actual progress and the action proposed for corrective measure wherever necessary.

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6.4.3	The submission and acceptance of the photograph and/or reports shall rights of BHEL in any manner.	I not prejudice the
6.4.4	In the event of contractor's continued poor work progress, BHEL shall as breach of contract by the contractor. In such case it shall be open to work completed through any other agency / agencies & claim the diaddition to damages from the contractor without prejudice to any othe BHEL under this contract.	BHEL to have the fference in cost in
6.5	COMPENSATION FOR DELAY	
6.5.1	Time is the essence of the Contract. If the contractor fails to maintain the of work as per contract or to complete the work and clear the site within the by the Contract (Contractual Completion period), he shall without prejinght or remedy of BHEL on account of such breach, the contract compensation (penalty) to BHEL. The above agreed compensation sequivalent to 1/4 % (one fourth percent) of the total contract price (irrespor item-rate contract or others) excluding elements of EXCISE DUTY quoted by the contractor separately) per week or part thereof of the maximum of 10% (ten percent) of the total executed contract price includes, duties etc. Complete.	the time prescribed udice to any other tor agrees to pay shall be a penalty ective of lump sum and Sales Tax (if delay subject to a luding elements of
6.5.2	BHEL shall deduct the amount of such compensation from any money become due to the contractor and/or recover such compensation from the security deposit of the contractor. To be entitled to impose such compensation be required to prove that he has incurred such amount as actual dame	e bank guarantees ensation, BHEL will
6.5.3	REDUCTION OF COMPENSATION FOR DELAY If before the completion of the whole of the works any part of the works by the Engineer as completed pursuant to clause "completion certi occupied or used by BHEL the compensation for delay shall for any persuch certification be reduced at the discretion of BHEL in proportion while part so certified bears to the value of the whole of the works.	ficate" hereof and eriod of delay after
6.6	TEST ON COMPLETION	
6.6.1	Tests on completion at site will be undertaken by the contractor in addetailed requirements of the contract. The contractor shall after consulting to the engineer in writing 21 days notice after which he will be ready to completion. Unless other wise agreed the tests shall take place within 10 date on such day or days as the engineer shall in writing notify the contral	g the engineer give o make the test on days after the said ctor.
6.6.2	If the engineer fails to appoint a time after having been asked so to do or or place duly appointed for making the said tests the contractor shall be in his absence and the said tests shall be deemed to have been made the Engineer.	entitled to proceed
6.6.3	If in the opinion of the engineer the tests are being unduly delayed he writing call upon the contractor to make such tests within 10 days from said notice, and the contractor shall make the said tests on such days days as the contractor may fix and of which he shall give notice to the contractor fails to make such tests within the time aforesaid the Engineer of the contractor.	n the receipt of the written the said 10 ne Engineer. If the lineer may himself
6.6.4	The contractor shall provide such assistance, labour, materials, electrinstruments and apparatus as are required to complete the tests. If it is nout these tests prior to taking over, then BHEL reserves the right to call f to taking over and the procedure to carry out the tests shall be subject to between BHEL and the contractor.	ot possible to carry for these tests prior mutual agreement
6.6.5	The necessary tests shall be repeated for any repaired or replaced port any portion of the works fails to pass the tests, tests of the said portion, the Engineer, or contractor be repeated within a reasonable time upon the conditions.	shall if required by
6.7	As soon as in the opinion of the Engineer the works shall have completed and shall have satisfactorily passed any final tests that may be the contract the Engineer shall on receiving a written undertaking by the any outstanding work within six months issue a certificate of completion works. Provided that the Engineer may give such a certificate with respect works before the completion of the whole of the works and shall upon the of the contractor give such certificate with respect to any substantial part has been both completed to the satisfaction of the Engineer and occupie and when any each certificate is given in respect of a part of the works considered as completed. Provided also that a certificate of completion guith the foregoing provisions of any part of the works occupied and used	e prescribed under contractor to finish n in respect of the ct to any part of the written application of the works which d or used by BHEL such parts shall be iven in accordance

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	of co		ssue of a certificate ty in respect of any
6.8		BEFORE COMPLETION CERTIFICATE	
6.8.1	issu the use beer reas	y reason of any default on the part of contractor, a completion certified in respect of every portion of the works as mentioned above with time for 'completion or extended time as the case may be, BHEL state works or any portion thereof in respect of which a completion in issued, provided that the works or the portion so used as a conably capable of being used and that the contractor shall be affortunity of taking such steps as may be necessary to permit the issue completion.	nin one month after hall be at liberty to certificate has not aforesaid shall be forded the earliest
6.8.2	take the whe exte Eng	EL shall be at liberty from time to time or at any time before the complete possession of and use any part of the sites or of incomplete works contractor shall completely finish the said incomplete parts or part of in the Engineer shall direct whether before of after the respective ended time or times (if any) for the completion of the works and ineer while BHEL is in possession of the said part or parts of the site.	s and in such case f the works as and prescribed time or if required by the
6.9	REJ	ECTION OF DEFECTIVE PLANT	
6.9.1	over requ parti plan Sho notic as th cont BHE inclu	e completed plant or any portion thereof, before it is taken over uniform or during the guarantee / warranty period, be found defective of direment of the contract, the Engineer shall give the contractor noticulars of such defects or failure, and the contractor shall forthwith report to do so within a reasonable time, BHEL after giving several to do so within a reasonable time, BHEL after giving	or fails to fulfil the notice setting forth make the defective hts of the contract. en (7) days written ortion of the plant, of the contract. The by the payment to be of the equipment pinal contract price inch defective plant.
6.9.2	as loas of this dam have be no mining rejections.	the event of such rejection, BHEL shall have the right to operate any song as it is in operating condition, whether or not, such equipment have complete and satisfactory, to enable him to obtain necessary replace shall not be construed to permit operation of any equipment what aged by such operation before any required alterations or repairs are been made. All repairs or alternations or replacement required of the nade by the contractor at such times as directed and in such a manner mum interruption in the time of the equipment. Should the contractor contracted plant within the time frame as directed by the Engineer, upto the specification, the contractor's full and extreme liability under this clause payment of all money paid by BHEL to him in respect of such plant.	has been accepted bement except that hich may become ad/or replacements the contractor shall er as will cause the mot so replace the he requirements of use will be satisfied
6.9.3	Noth cont way	ning in this clause shall be deemed to deprive BHEL or, effect a tract which he may otherwise have in respect of such defects or def relieve the contractor of his obligation under the contract.	ny right under the
6.10		(ING OVER	
6.10.1	syst succ such defe equi /omi issu shal cond docu	In successful completion of all the tests to be performed at the sem and material furnished and erected by the contractor and cessful trail run, BHEL shall issue to the contractor a taking over cert in much certificate shall not be reasonably with held on account of ects which do not affect the commercial operation and/or causes any ipment and system provided the contractor gives an undertaking to ression within a reasonable period of time. Unless until a final accepted on completion of warranty / guarantee period by BHEL /purchall not be relieved of any of his obligations, duties, responsibilities unditions of the contract including insurance as specified elsewher unents. The taking over by BHEL / the purchaser may be for each unects for commercial operation at the discretion of BHEL/ the purchaser	on completion of ificate. Issuance of minor omission or serious risk to the rectify such defects trance certificate is ser, the contractor of the terms and the in the contract nit completed in all
6.10.2	BHE	EL reserves the right of taking over such buildings as the administrate, garages, machine shop etc constructed by the contractor and reset. It is purchaser prior to taking over certificate of any, plant.	ative building, ware
7.0		MPETENCE AND GUARANTEES	
7.1	Con	tractor shall have sound technical and financial capabilities and po-	
	expe	erience in executing the works of similar kind and magnitude. The	ie contractor shall

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		•

		formas prescribed in the tender document. Non	
7.0	submission of the information in the prescribed schedules and proformas may lead to rejection of the bid.		
7.2 7.2.1	EARNEST MONEY DEPOSIT (EMD)	properition amount of Formant Manage Danasit as	
7.2.1	Every tender must be accompanied by the prescribed amount of Earnest Money Deposit as indicated in the tender enquiry letter, in any of the following forms. (All securities are to be discharged and pledged in favour of BHEL). Note: Cheque, Money order, postal order or bank guarantee will not be accepted.		
7.2.2	The amount shall be remitted by the bidder	in cash (as permissible under Income Tax Act)	
	to the cashier of Bharat Heavy Electricals Li and cash receipt issued by BHEL shall be er	mited, Power Section, Eastern Region. Kolkata nclosed alongwith the tender.	
7.2.3	Electricals Limited .	tata duly pledged in favour of Bharat Heavy	
7.2.4	be rejected.	full in the manner prescribed above are liable to	
7.2.5	retained towards part of Security Deposit.	ul tenderer paid in cash /DD/pay order shall be	
7.2.6	In the case of unsuccessful tenderers, the reasonable time after acceptance of award of	of work by the successful tenderer.	
7.2.7	BHEL reserves the right of forfeiture of earn		
7.2.7.1	increases his earlier quoted rates.	evokes his tender within the validity period or	
7.2.7.2		eriod as specified in the Letter of Intent or the Letter of Intent within 15 days of date of the	
7.3	SECURITY DEPOSIT (SD)		
7.3.1		tenderer within the time specified in the letter of	
		urity deposit for satisfactory completion of work tract before remitting security deposit except as	
7.3.2	The amount of Security Deposit shall be as f	ollows:	
	a) In the case of work upto ten lakhs	10%	
	b) In the case of work costing above Rs.	Rs. 1[One] lakh plus 7.5% of the the amount	
	10 lakhs upto Rs. 50 lakhs	exceeding Rs 10 lakhs.	
	c) Above Rs 50 lakhs	Rs. 4 [Four] lakhs plus 5% of the the amount exceeding Rs 50 lakhs.	
7.3.3	The Security deposit may be deposited in an		
7.3.3.1	The total Security Deposit as indicated in the letter of intent can be paid in cash(as permissible under the Income Tax Act)/Pay Order or Demand Draft (in favour of Bharat Heavy Electricals Limited payable at Kolkata)/local cheques of Scheduled Banks (subject to realization) to BHEL, Power Sector, Eastern Region, Kolkata within the time limit stipulated in the letter of intent.		
7.3.3.2	50% of Security Deposit(SD) as indicated in the letter of intent can be paid in the form of Bank Guarantee(BG) from Scheduled Banks/Public Financial institutions as defined in the Companies Act in the prescribed proforma, the validity being at least upto completion of work as stipulated in the letter of intent. EMD amount shall also be converted as part of security deposit (provided it is not One time EMD). Balance amount of the security deposit {i.e. (Total SD) – (50 % SD amount deposited in the form of BG) – (EMD amount)} can be paid either in cash/ other form of security or may be recovered by deduction from running		
	bills @ 10% of the gross value of each running bills till the full Security Deposit is made up. The Bank Guarantee furnished towards Security Deposit should be kept valid by proper		
	renewal till the said work is actually complete	ed.	
7.3.3.3	The security deposit may be submitted through securities from Post Offices such as National Savings Certificates/Kisan Vikas Patras etc. (certificates should be held in the name of the contractor furnishing the security and duly pledged in favour of Bharat Heavy		
7.3.3.4	Electricals Limited, Power Sector, Eastern Region, Kolkata and discharged on the back). The security deposit may be submitted by 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 Bharat Heavy Electricals Limited, Power Sector, Eastern Region, Kolkata, duly discharged on the back.		
7.3.3.5	Acceptance of security deposit against sl. hypothecation or endorsement on the docu	No. 7.3.3.3 & 7.3.3.4 above will be subject to ments in favour of BHEL. However, BHEL will er for collection of interest or renewal of the	
7.3.3.6	If the value of the work done at any time ex	ceeds accepted agreement value, the security	

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	deposit shall be correspondingly enhanced and the extra security deposit shall be immediately deposited by the contractor or recovered from payments due to him.
7.3.3.7	Regarding adjustment of Earnest Money deposit towards part of Security Deposit, refer clause under EMD above.
7.3.3.8	Failure to deposit security money within stipulated time may lead to forfeiture of Earnest Money and cancellation of award of work.
7.3.3.9	If any parts of security deposit of the contractor is held in the form of approved securities, it shall be kept transferred in the name of Bharat Heavy Electricals Limited, Power Sector, Eastern Region, Kolkata in such a manner the BHEL can realize it fully without reference to the contractor. BHEL shall not be responsible for any depreciation in the value of the security while in BHEL's custody or for any loss of interest thereon.
7.3.3.10	BHEL reserve the right of forfeiture of security deposit in addition to other claims and penalties in the event of the contractor's failure to fulfil any of the contractual obligations (including liquidation or bankruptcy of the contractor, non-payment of money payable by means of arbitration award in favour of BHEL) or in the event of termination of contract as per terms and conditions of contract. BHEL reserve the right to set off these security deposit, against any claims of any other contract with BHEL.
7.3.4	Return of Security Deposit If the contractor duly performs and completes the contract in all respects to the entire satisfaction of BHEL and presents an absolute no Demand Certificate in the prescribed form and returns properties belonging to BHEL taken / borrowed or hired by him for carrying out the said works, half of the amount of Security Deposit will be released to the contractor after deducting all costs of expenses or other amounts that are to be paid to BHEL under this or other contracts entered into with the contractor. It may be noted that in no case the Security Deposit shall be refunded/released prior to passing of final bill. Balance half of the amount of Security Deposit will be released only after the satisfactory completion of Warranty / Guarantee Period as per terms of specification.
7.3.5	No interest shall be payable by BHEL on earnest money / security deposit or any money due to the contractor by BHEL.
7.4 7.4.1	PERFORMANCE BOND
7.4.1	In addition to the security deposit the contractor shall provide to BHEL bank guarantee of an approved nationalized bank for an amount equal to 5% of the contract price as performance bond (under the terms of a bond) within 30 days from the date of LOI and the terms of the said bond shall be such as shall be approved by BHEL. The bond shall remain valid until 6 month after the expiry of warranty / guarantee period. The obtaining of such guarantee and the cost of bond to be so entered into shall be at the expense in all respects to the contractor.
7.4.2	BHEL reserve the right of forfeiture of the above bond in addition to other claims and penalties in the event of the contractor's failure to fulfil any of the contractual obligations or in the event of termination of contract as per terms and conditions of contract. BHEL reserve the right to set off this bond against any claim of any other contract with BHEL.
7.4.3	However, this Performance Bond clause will not be applicable for works involving erection, testing & commissioning of BHEL supplied equipment. This shall be applicable to the portion of the contract price for the contractor supplied equipment (including installation of the same, if applicable) which is installed in the main plant unless otherwise specified elsewhere.
8.0	DRAWING, DOCUMENTS AND INSTRUCTIONS
8.1	The contractor shall be responsible wherever applicable, for developing detail drawing to adopt equipment and materials to be supplied to the requirement, indicated in the specification and shall submit a list of such drawings and programme for submission of these drawings within 30 days from the date of LOI.
8.1	Within a reasonable time not exceeding 30 days from the date of LOI the contractor shall also provide BHEL with the following drawings and data as applicable.
8.2.1	Eight (8) marked up copies of technical particulars conforming to the specification.
8.2.2	Outline drawings of all equipment together with weights and sufficient overall dimensions.
8.2.3 8.2.4	Other drawings & data as indicated in different sections of the tender document. The contractor shall within 3 weeks form the date of LOI submit for approval of BHEL the original copies of Codes and Standards which shall govern the design, manufacture, construction, erection, testing, commissioning and trial operation of the plant as applicable under scope of contract.
8.2.5	The contractor shall within 30 days from the data of LOI furnish inputs for civil packages, basic design data etc as applicable.
8.3	DRAWING SUPPLIED BY BHEL
8.3.1	The drawings supplied by BHEL shall remain in the sole custody of the Engineer but 2 copies thereof shall be furnished to the Contractor free of cost. The contractor shall provide

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	and make at his own expense any further copies required by him. At the completion of the Contract the Contractor shall return to the Engineer all drawings and specifications provided under the Contract.
8.3.2	One copy of the Drawings furnish to the Contractor and aforesaid shall be kept by the Contractor at the Site and the same shall at all reasonable times be available for inspection and use by the Engineer and the Engineer's Representative and by any other person authorised by the Engineer in writing.
8.3.3	The Engineer shall have full power and authority to supply to the Contractor from time to time during the progress of the works such further drawings and instructions as shall be necessary for the purpose of the proper and adequate execution and maintenance of the works and the Contractor shall carry out and be bound by the same.
8.3.4	The detailed drawings, specifications, instruction manual, if any, available with the Engineer will form part of tender specification. These documents will be made available for reference only to the contractor during execution of work.
8.3.5	Should any error or ambiguity be discovered in the specification or information, the contractor shall forthwith bring the same to the notice of BHEL before commencement of work. BHEL's interpretation in such cases shall be final and binding contractor.
8.4	MISTAKE IN DRAWINGS The Engineer shall have the right at all reasonable times to inspect at the office/premises of contractor all shop and/or details drawings of the works or any portion of the works. The contractor shall be responsible for and shall pay alterations of the work due to any discrepancies, errors or omission in the drawings or other particulars supplied by him whether such drawings or particulars has approved by the Engineer or not, provided that such discrepancies, errors or omissions be not due to inaccurate information or particulars furnished to the Contractor by the Engineer, in which event BHEL shall pay for any alternations of work necessitated by reason of inaccurate information supplied by the Engineer to the Contractor.
9.0	MATERIALS AND WORKMANSHIP
9.1	MATERIALS AND WORKMANSHIP FOR MANUFACTURER
9.1.1	All Good to be supplied and all works to be done by the contractor under the contract shall be manufactured and executed in the manner stipulated in the specification or where not specified, to the satisfaction of the Engineer. All materials used in the manufacture of the plant shall be selected from the best available for the purpose, considering strength, durability and best engineering practice, free from defects and imperfection and of recent manufacturer and unused. Liberal factors of safety shall be used throughout the design and specially in the design of all parts subject to alternating stresses or shorts.
9.1.2	All the works shall be performed and completed in a thorough workman like manner and shall follow the best modern practice in the manufacturer of high grade equipment notwithstanding any omission in the specification.
9.1.3	Casting shall be free from blow holes, claws, cracks or other defects and shall be smooth, close-grained and of true forms and dimensions. No plugged or filled-up holes or other defects will be allowed. Such casting are liable to be rejected. However, the contractor may rectify minor casting defects by welding or other method in accordance with the standing manufacturing practice provided such rectification does not affect the strength of the casting or impair with the efficient working of the plant and prior approval or BHEL is obtained for the same.
9.2	WORK MATERIALS, WORKMANSHIP AND TESTS
9.2.1	All materials including construction materials, structural steel and workmanship shall be of the respective kinds described in the contract documents and in accordance with the Engineer's instruction and shall be subjected to from time to time to such tests as stipulated in the approved quality assurance plan and as the Engineer may direct at the place of fabrication or on the site or at all or any of such places. The contractor shall provide such assistance, instruments, machines, labour and materials as are normally required for examining, measuring and testing any work and the quality, weight or quantity of any materials used and shall supply samples of materials before incorporation in the work for testing as may be selected and required by the Engineer. The contractor shall establish at site testing facilities adequate for the above purpose. Collection of samples and testing as specified in the contract documents including special test, if any shall be carried out by the contractor at his cost.
9.2.2	The Contractor shall carry out tests of materials of finished work as stipulated in the Technical Specification as applicable and as the Engineer in writing may require and shall also supply samples necessary for this purpose.
9.2.3	Cost of Tests The cost of making test including may supply if required shall be borne by the Contractor if such test is clearly intended by or provided for in the specification or bill of quantities and (

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9.2.4	in the cases only of a test under load or of a test to ascertain whether finished or partially finished work is appropriate for the purposes whice fulfill) is particularised in the specification or bill of quantities in suffice Contractor to price or allow for the same in his Tender.	h it was intended to ient detail to enable
	Cost of tests not provided for etc If any test is ordered by the engineer v	vnich is either:
9.2.4.1	Not so intended by or provided for or	
9.2.4.2	(in the cases above mentioned) is not so particularized or	
9.2.4.3	Though so intended or provided for is ordered by the Engineer to be carried out by an independent person at any place other than the site or the place of manufacture or fabrication of the materials tested. Then the cost of such test shall be borne by the Contractor if the test shows the workmanship or materials not to be in accordance with the provisions of the contract or the	
	Engineer's instructions but otherwise by BHEL.	
9.2.5	EXAMINATION OF WORK BEFORE COVERING UP	
9.2.5.1	No work shall be covered up or put out of view without the examination Engineer or the Engineer's representative and the contractor shall affor the Engineer or the Engineer's representative to examine and measur about to be covered up or put out of view and to examine foundation work is placed thereon. The contractor shall give 15 days notice representative whenever any such work or foundation is or are ready for examination and the Engineer's representative shall without unrease he considers it unnecessary and advises the contractor accordingly, at of examine and measuring such work or of examining such foundations that such examination by the Engineer or his representative shall not at of his obligation in respect of the work so examined and notwithstanding the contractor shall remain wholly liable in the event of such foundation accordance with specification.	rd full opportunity for the any work which is as before permanent the to the engineer's or about to be ready onable delay, unless tend for the purpose . Provided, however, posolve the contractor ag such examination,
9.2.5.2	The contractor shall uncover any part or parts of the works, make op the same as the Engineer may from time to time direct and shall reins such part or parts to the satisfaction of the Engineer. If any such part covered up or put out of view after compliance with the requirements of are found to be executed in accordance with the contract, the expe making opening in or through, reinstating and making good the same BHEL as mutually agreed upon but in any other cases all such expens the Contractor and shall be recoverable from him by BHEL or may be from any money due or which may become due to the contractor.	tate and make good or parts have been this sub-clause and nses of uncovering, e, shall be borne by es shall be borne by
9.2.6	Improper Work and Material	
	The Engineer shall during the progress of the works have power to dime to time.	order in writing from
9.2.6.1	The removal from the Site within such time or times as may be specilibrory be specilibrory of any material which in the opinion of the Engineer are not the Contract Documents.	
9.2.6.2	The substitution of proper and suitable materials, and	
9.2.6.3	The removal and proper re-execution (notwithstanding any previous to payment therefore) of any work which in respect of materials or wor opinion of the Engineer in accordance with the Contract Documents. I the part of the Contractor in carrying out such order BHEL shall be en pay other persons to carry out the same and all expenses consequent thereto shall be borne by the Contractor and shall be recoverable from be deducted by BHEL from any money due or which may become due to	kmanship is not the n case of default on utitled to employ and thereon or incidental him by BHEL or may
10.0	POSSESSION OF SITE	
	Save in so far as the contract may prescribe the extent of portion of the contractor is to be given possession from time to time & the order in shall be made available him and subject to any requirement in the converged which the works shall be executed, BHEL or the purchaser will with a order to commence the works give to the contractor possession of so may be required to enable the contractor to commence & proceed with the works in accordance with the programme & otherwise in accordance with the programme & otherwise in accordance will from time to time as the works proceed give the contractor further portions of the site as may be required to enable the contractor construction of the works with due dispatch in accordance with the proposals (as the case may be). If the contractor suffers delay or in failure on the part of BHEL or the purchaser to give possession in a terms of this clause the Engineer shall grant an extension of time for	which such portions intract as to order in the Engineer written much of the site as in the construction of cordance with such of the Engineer make possession of such to proceed with the said programme or curs expenses from accordance with the

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	works. No financial compensation whatsoever shall be payable by BHEL	on this account.
10.1	WAYLEAVES	
	The contractor shall bear all expenses and charges for special or ten required by him in connection with access to site. The contactor shall	also provide at his
	own cost any additional accommodation outside the site required by him works.	for purposes of the
10.2	LAND	
	BHEL/ the purchaser will provide the land required for the permanent w	
	may, where approved by the Engineer, use the same for temporary p land required for temporary purposes, such as workshop, workyard,	
	materials and the like, the Engineer will, on application being made, po	
	can be used for these purposes. No land belonging to the purchaser or u	under temporary the
	possession of BHEL shall be occupied by the contactor without the w	
	BHEL. BHEL however reserves the right to ask the contractor to valearlier allowed for use or to shift to another area during the period of t	
	assigning any reasons therefore and the contractor shall be bound to co	
	and within the time limit specified by BHEL.	
11.0	COMPLETENESS OF EQUIPMENT	
11.1	The equipment shall be completely installed in every respect with all and standard accessories which are normally supplied even though not	
	in the Specification. The Contractor shall not be eligible for any extra pa	
	such mountings, fittings, fixtures and accessories if needed for saf	fe operation of the
	equipment as required as per applicable codes through they may not in the Contract.	have been included
11.2	Parts of all similar equipment supplied shall be interchangeable with one	another.
11.3	ALL the equipment supplied under this contract shall be subject to	BHEL/Purchaser's
12.0	approval according to applicable stipulations set-forth in the specification	ns.
12.0	ISSUE OF CERTIFICATE Certificate of BHEL	
12.1.1	Every application to BHEL for a certificate must be accompanied by	a details invoice (in
	quadruplicate) setting forth in the order of the schedule of quantities	and prices as per
	approved billing breakups of the work executed and/or goods ready for	
	of claim and the certificate as to such goods and work as in the reason Engineer in accordance with the specification shall be issued within thirty	
12.1.2	The Engineer, by any certificate, make any correction or modification	on in any previous
	certificates which may have been issued by him and payments aga	inst invoices under
12.2	certification will be regulated and adjusted accordingly. BHEL's decision	_
12.2	In respect of all matters which are left to the decision of BHEL include	ding the granting or
	withholding of certificates BHEL shall, if required to do so by the contract	ctor, give in writing a
	decision thereon and his reasons for taking such decision. If in the opinion decision made by PUEL is not in accordance with the magnitude	
	a decision made by BHEL is not in accordance with the meaning contractor, the contractor may file with BHEL within 15 days after recei	
	written objection to the decision. Failure to file such an objection within	
	be considered as accordance of BHEL's decision and the decision sha	
	binding. It is the intent of the contract that there shall be no delay in t work in such cases and the decision of BHEL as given shall be promptly	
12.3	No certificate of the Engineer on account, nor any sum paid on account	
	extension of time for the execution of the work by the contractor shall af	fect or prejudice the
	rights of BHEL against the contractor or relieve the contractor of his ob	
	performance of the contract and be interpreted as approval of the w goods supplied and no certificate shall create liability in BHEL to	
	amendments, variations or additional work and ordered in writing by BH	
	liability of the contractor for payment of damaged, whether due, ascerta	ained certified or not
	or of any sum against the payment of which he is bound to indemnify I	
	such certificate nor the acceptance by him or any sum paid on account or prejudice the right of BHEL against the contractor.	or otherwise, affect
13.0	GUARANTEE / WARRANTY	
	Even though the work will be carried under supervision of BHEL engin	
	be responsible for the quality of the workmanship and shall guarantee	
	period of 12 [twelve] months from the date of start of guarantee period engineer for good workmanship and shall rectify free of cost all defects	
	done. In case contractor fails to repair the defective works within the ti	
	engineer. BHEL may proceed to undertake the repairs of such	defective works at
	contractor's risk and cost without prejudices to any other rights and reco	over the same from

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	SD/other dues of contractor.
14.0	DEFAULTS, REMEDIES AND POWERS
14.1	If the Contractor shall neglect to execute the work with due diligence and expedition or such refuse or neglect to comply with any reasonable orders given to him in writing by BHEL in connection with the work, or shall contravenes the provisions of the Contract, BHEL may give notice in writing to the Contractor calling upon to make good the failure, neglect or contravention complained of. Should the Contractor fail to comply with such notice within a period considered reasonable by BHEL from the date of such notice service thereof, in the case of a failure, neglect or contravention capable of being made good within that time, or otherwise within such time as may be in the opinion of BHEL be reasonably necessary for making it good, then and in such case BHEL shall have the option and be at liberty to take the work wholly or in part, out of the Contractor's hand and may carry on the work
14.2	envisaged in the Contract either by himself or his agents or may re-contract with any other person or persons to execute the same or any part thereof and provide any other materials, tools, tackle or labour for the purpose of completing the works or any parts thereof. In such event BHEL shall without being responsible to the Contractor for normal wear and tear of the same, be entitled to seize and take possession and have free use of all materials, tools, tackle, or other things which may be on the Site, for use at any time in connection with the Work to the exehision of any right of the contractor over the same and BHEL shall be entitled to retain and apply any balance sum which may otherwise be then due on the contract by him to the Contractor or such part thereof as may be necessary to the payment of the cost of execution of such work as aforesaid. If the cost of completing the works or executing a part thereof as aforesaid shall exceed the balance due to the contractor, the contractor shall pay such excess. CHANGE IN CONSTITUTION
14.2.1	Where the Contractor is a partnership firm, the prior approval in writing of the engineer shall be obtained before any changes is made in constitution of the firm. Where the Contractor is an individual or a Hindu Undivided Family business concern such approval as aforesaid shall likewise be obtained before the Contractor enters into any partnership Agreement where under the partnership firm would have the right to carry out work hereby undertaken by the Contractor. If such approval as aforesaid is not obtained the Contract shall be deemed to have been assigned in contravention of Contract Conditions and the action may be taken, and the consequences shall cause as provided in the Contract.
14.2.2	The expression "change in constitution" shall include.
14.2.2.1	Any new partner coming in or any existing partner retiring.
14.2.2.2 14.2.2.3	Any change in the profit sharing ratio. Any alteration in the mutual right of the partners.
14.2.3	It is an agreed term and the contract that all the partners of the Contractor shall continue to be jointly and liable to BHEL in respect of the obligation to the Contractor herein and notwithstanding the resignation or retirement of any partner, his liability hereunder shall continue unless he is relieved there from by BHEL in writing.
14.3	FORFEITURE
14.3.1	If the contractor shall become bankrupt or have a receiving order made against him or shall present his petition in bankruptcy or shall make an arrangement with or assignment in favour of his creditors or shall agree to carry out the Contract under a Committee of inspection of his creditors or (being a corporation) shall go into liquidation (other than a voluntary liquidation for the purpose of amalgamation or reconstruction) or if the Contractor shall assign the Contract without the consent in writing of BHEL first obtained or shall have an execution levied on his goods or if the Engineer shall certify in writing to BHEL that in his opinion the Contractor:
14.3.1.1	Has abandoned the Contract, or
14.3.1.2 14.3.1.3	Without reasonable excuse has failed to commence works or has suspended the progress of the works for 15 days after receiving from the Engineer written notice to proceed, or Has failed to proceed with the works with due diligence or
14.3.1.4	Has failed to remove materials from the Site or to pull down and replace work for 15 days after receiving from the Engineer written notice that the said materials or work had been condemned and rejected by the Engineer under these conditions, or
14.3.1.5	Is not executing the works in accordance with the Contract or is persistently or flagrantly neglecting to carry out any of his obligations under the Contract, or
14.3.1.6	Has to be detriment of good workmanship or in defiance of the Engineer's instructions to the contrary Sub-contracted any part of the Contract.
14.3.1.7	Then the Employer may after giving 14 days notice in writing to the Contractor enter upon the site & the works and expel the Contractor therefrom without thereby releasing the Contractor from any of his obligations or liabilities under the Contract or affecting the rights

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t () () () () () () () () () (and powers conferred on BHEL or the Engineer by the Contract and may him self complete the work may employ any other Contractor to complete the works and BHEL or such other contractor may use for such completion so much of the Constructional Plant, Temporary works, materials which have been deemed to be reserved exclusively for the construction and completion of the works under the provisions of the Contract as he or they may think proper and BHEL may at any time sell any of the said Constructional plant, temporary work & unused materials & apply the proceeds of sale in or towards the satisfaction of any sum due or which may become due to him from Contractor under the Contract.
\$ \$ 6 \	The Engineer shall as soon as may be practicable after expulsion of this Contractor and such entry by BHEL fix and determine experts or by or after reference to the parties or after such investigations or enquiries as he may think fit to make or institute and shall certify what amount (if any) had at the time of such entry and expulsion been reasonably earned by or would reasonably accrue to the Contractor in respect of work then actually done by him under the Contract and what was the value of any of the said unused or partially used materials, any constructional plant and any Temporary Works upon the Site.
	Payment After Forfeiture If BHEL shall enter and expel the Contractor under this clause he shall not be liable to pay to the Contractor any money on account of the Contract until the expiration of contractual period and until the costs of completion and compensation for delay in completion (if any) and all other expenses incurred by BHEL have been ascertained and the amount thereof certified by the Engineer. The Contractor shall then be entitled to receive only such sum of sums (if any) as the Engineer may certify would have been due to him upon due completion by him after deducting the said amount. But if such amount shall exceed the sum which would have been payable to the Contractor on due completion by him then the Contractor shall upon demand pay to BHEL the amount of such excess and it shall be deemed a debt due by the Contractor to BHEL and shall be recoverable accordingly.
14.4	SUSPENSION OF WORK The Contractor shall on the written order of the Engineer suspend the progress of the works or any part thereof for such time or times and in such manner as the Engineer may consider necessary and shall during such suspension properly protect and secure the work so far as is necessary in the opinion of the Engineer. The extra cost including all running wages to be paid on the Site, salaries, depreciation and maintenance of the plant at Site, on costs and general overhead costs of the Contract incurred by the Contractor in giving effect to the Engineer instructions under this clause shall be borne and paid by BHEL (provided such costs are substantiated by the contractor to the satisfaction of BHEL / the purchaser) unless such suspension is:
	Otherwise provided for in the Contract, or
14.4.2 I	Necessary for the proper execution of the Work or by reason of weather conditions affecting the safety or quality of the Works or by some default on the part of the Contractor, or
14.4.4 F	Necessary for the safety of the Works or any part, thereof. Provided that the Contractor shall not be entitled to recover any such extra cost unless he gives notice in writing of his intention to claim to the Engineer within 15 days of the Engineer's order. The Engineer shall settle and determine such extra payment to be made to the Contactor in respect of such claims as shall in the opinion of the Engineer be fair and reasonable. Provided always that BHEL shall not be liable for any claim of idle wages for men and/or equipment which are otherwise used by the Contractor during the period of suspension of work whether in the work of BHEL or otherwise. BHEL shall not be responsible for any liabilities if suspension or delay is due to some default on the part of the contractor or his subcontractor.
	REMEDY OF BHEL
14.5.1	The Engineer on behalf of BHEL without prejudice to his rights against the Contractor in respect of any delay or inferior workmanship or otherwise or to any claims for damage in respect of any breaches of any of the Terms and Conditions of the Contract and without prejudice to any right or remedies under any of the provisions of this Contract or otherwise and whether the date for completion has or has not elapsed by the notice in writing, absolutely determine the Contract in any of the following:
t	If the Contractor being a company shall pass a resolution or the court shall make an order that the company shall be wound up or if a receiver or a manager on behalf of a creditor shall be appointed or if circumstance shall arise which entitled the court or creditor to appoint a receiver or a manager or which entitle the court to make a winding up orders.
	If the Contractor commits breach of any of the terms and conditions of the Contract.
	When the Contractor has made himself liable for action under any of the cases as in sub-
(clause (i) above, the Engineer on behalf of BHEL shall have powers: To determine or rescind the Contract as aforesaid (of which termination or rescission notice

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	n writing to the Contractor under the hand of the Engineer shall be conclusive evidenc	ce).	
	Jpon such determination or rescission the Security Deposit of the Contractor shall be lial	ble	
	to be forfeited and shall be absolutely at the disposal of BHEL.		
14.5.2.2	To employ labour and to supply materials to carry out the works or any part of the work		
	debiting the contractor with the cost of the labour and the price of the materials (of t	the	
	amount of which cost and price certified by the Engineer shall be final and conclus		
	against the contractor) and crediting him with the value of the work done in all respect in t		
	same manner and at same rates as if it had been carried out by the contractor under the		
	terms of the contract. The certificate of the Engineer as to the value of the work done shall		
	pe final and conclusive against the contractor providing always that action under this s		
	clause shall only be taken after giving notice in writing to the contractor. Provided also that		
	he expenses incurred by BHEL are less then the amount payable to the contactor at the		
	agreement rates, the difference shall not be paid to the contractor.	uic	
14.5.2.3	After giving notice to measure the work of the contractor and to take such part thereof	20	
14.3.2.3	shall be executed out of his hands and to give it to another contractor to complete in whi		
	case any expenses which may be incurred in excess of sum which would have been paid		
	he original contractor if the whole work had been executed by him (of the amount of whole work had bee		
	excess the certificate in writing of the Engineer shall be final and conclusive) shall be bor		
	and paid by the original contractor and maybe deducted from any money due to him		
	BHEL under this contract or any other account whatsoever or from his Security Deposit		
	he proceeds of sales thereof or a sufficient part thereof as the case may be. In the event		
	any one or more of the above courses being adopted by the Engineer the Contractor sh		
	have no claim to compensation for any loss sustained by him by reason of his havi		
	ourchased or procured any materials or entered into any engagements or made a		
	advance on account or with a view to the execution of the work or the performance		
	Contract. And in case action is taken under any of the provision aforesaid, the Contrac	ctor	
	shall not be entitled to recover or be paid any sum for any work thereto or actua	ally	
	performed under this contract unless and until the engineer has certified in writing t	the	
	performance of such work and the value payable in respect thereto and he shall only	be	
	entitled to be paid the value as certified.		
14.5.3	n any case in which any of the power conferred upon the Engineer under this clause, sh	hall	
	have become exercisable and the same shall not be exercised, the non-exercised there	eof	
	shall not constitute a waiver of any of the conditions hereof and such powers sh	hall	
	notwithstanding be exercisable in the event of any future case of default by the Contrac		
	and the liability of the Contractor for compensation shall remain unaffected. In the event		
	he Engineer putting in force all or any of the powers vested in him under this clause		
	may, if he so desires, giving a notice in writing to the Contractor, take possession of or		
	he sole discretion of the Engineer which shall be final) use on hire (the amount of the h		
	money being also in the final determination of the Engineer) all or any tools, plant, materia		
	and stores, in or upon the works, or the Site thereof, belonging to the Contractor,		
	procured by the Contractor and intended to be used for the execution of the work or a		
	part thereof, paying or allowing for the same in account at the Contract rates or in the ca		
	of these not being applicable, at current market rates to be certified by the Engineer, who		
	certificate thereof shall be final, otherwise the Engineer by notice in writing may order to		
	Contractor, or his clerk of the works, foreman or other authorised agent to remove su		
1	ools, plant materials, or stores from the premises (within a time specified in such notic		
1	and in the event of the Contract failing to comply with any such requisition, the Engine		
	may remove them at the Contractor's expense or sell them by auction or private sale		
	account of the Contractor and at his risk in all respects and the Certificate of the Engine		
	as to the expense of any such removal and the amount of the proceeds and expense of a	any	
	such sale shall be final and conclusive against the Contractor.		
14.5.4	No claim will be entertained from the Contractor for idle labour, stoppage of work		
	damage on account of unprecedented rain, storm or any unforeseen circumstances whi	ich	
	will be responsible for the same.		
14.6	RIGHTS OF BHEL		

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14.6.1	Without prejudice to the right conferred by the various clauses under the Contract and of their right ensuring to BHEL in the terms of contract, BHEL reserves the following rights in respect of this contract without entitling the Contractor for any compensation.
	To withdraw any portion of work and/or to restrict, alter the quantum of work as indicated in the Contract during the progress of the erection and get it done through other agency and/or by departmental labour to suit BHEL's commitment to the purchaser or in case BHEL decides to advance the date of completion due to other emergency reasons of BHEL's obligation to the purchaser.
	To terminate the Contract after a notice of 14 days when served at the last known address of the principal office of the Contractor and forfeit Security Deposit and recover the loss sustained in getting the balance work done through other agencies in addition to "Compensation for Delay" in the event of:
14.6.1.1 14.6.1.2 14.6.1.3	Contractor's continued poor progress brought to notice from time to time. Withdrawal from or abandonment of the Work by Contractor before completion of the Work. Corrupt act of Contractor.
14.6.1.4	Insolvency of the Contractor.
14.6.1.5	Persistent disregard to the instruction in writing of BHEL.
14.6.1.6	Assignment, transfer, sub-contracting of the contract without BHEL's written permission.
14.6.1.7	Non-fulfillment of any contractual obligations.
	Any delay in works for reasons attributable to the contractor will have to be compensated by either increasing manpower and resources or by working extra hours and more than one shift without any extra cost.
	To recover any money due from the Contractor from the money which is due or which may become due to the Contractor under this Contract or any other Contract or from the Security Deposit or as debt payable by the Contract.
	To claim compensation for losses sustained by BHEL including BHEL's supervisions charges and overheads in completion or termination of Contract & to recover compensation for delay in completion of the work, from Security Deposit and/or from the money which is due or which may become due to the Contractor under this or any other Contract or as a debt payable by the Contractor.
	To terminate the Contract or to restrict the quantum of the work and pay for the portion of work executed in case BHEL's Contract with the purchaser are terminated for any reason. To effect recovery from any amounts due to the Contactor under this or any other Contract, the moneys BHEL is forced to pay to anybody, due to Contractor's failure to fulfil any of his obligations.
14.6.2	While every endeavor will be made by BHEL, BHEL can not guarantee uninterrupted work due to conditions beyond their control. Contractor will not be entitled for any compensation / extra payment on this account.
14.6.3	In the event of any dispute of any nature, the decision of BHEL shall be final and binding on the Contractor.
14.6.4	All safety rules and codes applied by the purchaser/ BHEL at the site shall be observed by the Contractor without exception. The Contractor shall be responsible for the safety of the equipment/ materials and work to be performed by him and shall maintain all light fencing, guards, sings 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 & atmospheric conditions. Suitable number of clerical staff, watch and ward, be posted at Site by the Contractor till the completion of the Work under the Contract. The Contactor shall arrange for such safety device as are necessary for such type of work and carry out the requisite tests of handling equipment, lifting, tools, tackles etc, as per prescribed standards and practices.
14.6.5	Should any error or ambiguity be discovered in the specification or information, the Contractor shall forthwith bring the same to the notice of the Engineer before commencement of work. Engineer's interpretation in such cases shall be final and binding or the contractor.
14.6.6	No idle labour be admissible in the event of any case in the work resulting contractor's labour being rendered idle due to any case at any time.
14.6.7	No over run charges shall be paid in the event the completion period is extended for any reason whatsoever.
14.6.8	The quality and progress of work will be regularly reviewed. The schedule and programme of work will be given to the contractor in advance and it will be the obligation of the

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	On the start of a shirt of the desired weekly and a second by a start of the start of the shirt of the start	h h	
	Contractor to achieve the desired quality and progress of work by suitably reinforcing the		
	labour force and/or by working extra shifts at no extra costs. Workmen found unsuitable		
14.6.9	the work will be replaced immediately by the Contractor on being informed by BHEL.		
14.6.9	During the erection/ construction performing work under the Contract it is proper and adequate inspection should be made constantly to main		
	workmanship so that any deviation from design dimension does not		
	limits. The proper functioning of the power plant, while in operation, depends to a great extent of the above factors. For the details regarding alignment and permissible		
		it and permissible	
14.6.10	dimensioned deviation in the Work, Engineer may be consulted. It is possible that some minor repair/ rectification/ modification may	he needed on the	
14.0.10	equipment to be erected/ constructed/ work to be performed under the		
	reasons not attributable to the contractor. All such repair/ rectification		
	which can be done with the available facilities at site shall be carried o		
	free of cost and no extra charges shall be paid to the contractor, unle		
	elsewhere.	33 Stated Offici Wisc	
14.6.11	In the event of failure of the contactor to bring necessary, sufficient and	l nroner mannower	
14.0.11	consumables, Tools & Plants and any other input required to be broug		
	for proper and timely completion of the job, BHEL may arrange/ hire the		
	and cost of the contractor including all incidental charges for bringing th		
	source place. The entire cost towards these together with overhead ch		
	or as decided by the engineer shall be paid by the contractor or		
	contractor's bills. BHEL may at his discretion terminate the contract or the contract of the c		
	whole of the contract from the scope of the contractor on these grounds.		
14.7	CONSEQUENCES OF TERMINATION		
14.7.1	Whenever BHEL exercises his authority to terminate the Contract / Wi	ithdraw a portion of	
	work pursuant to the Contract, BHEL may complete the work by		
	Contractor risk and cost and BHEL shall not be liable to pay the contract		
	account of the contract until the expiry of guarantee / warranty period		
	the cost of completion including delay compensation and all other ex		
	BHEL have been ascertained. In the event of the cost of completion		
	Engineer which shall be final and conclusive) being less than the	Contract price, the	
	advantage shall accrue to BHEL and that if cost of completion exceed the		
	Contractor under the Contract, the Contractor shall either pay the	excess amount as	
	ordered by BHEL or the same shall be recovered from the Contractor by	by any other means	
	as deemed (to be) fit by BHEL.		
14.7.2	This will be in addition to the forfeitures of Security Deposit and recover	y of "Compensation	
	for Delay" and other dues payable under the Contract.		
14.7.3	In case BHEL completes the work under the provisions of this clause	e, the cost of such	
	completion to be taken into account in determining the excess cost to	the charges to the	
	Contract under this clause, shall consist of materials purchased and/or	labour provided by	
	BHEL with an addition of such percentage to cover supervision and over	erhead charges as	
	may be decided by BHEL.		
15.0	FORECLOSURE OF CONTRACT		
	If at any time after acceptance of the Tender the Purchaser / BHE		
	abandon or reduce the Scope of the Work for any reason whatsoever an		
	the whole or any part of the work to be carried out, BHEL shall give not	ice in writing to that	
	effect to Contractor and the Contractor shall have no claim to any payme	ent of compensation	
	or otherwise, whatsoever, on account of any profit or advantage wh	nich he might have	
	derived from the execution of the works in full but which he could not der	rive in consequence	
	of the foreclosure of the whole or part of the work.		
	The contractor shall be paid at the contract rate full amount for work exe		
	addition a reasonable amount as certified by BHEL for the items here		
	which could not be utilized on the work to the full extent because of the f		
15.1	Proportionate value of the expenditure incurred on preliminary site work.		

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15.2	BHEL shall have the option to take over contractor's materials or any brought to the site or of which the contractor is legally bound to ac suppliers (for incorporation in the incidental to the work), provided howe bound to takeover the materials or such portion thereof as the contractor retain.	ever, BHEL shall be	
	For materials taken over or to be taken over by BHEL cost of such materials shall, however, take into account purchase prices, cost of transportation and deterioration or damage which may have been caused to materials whilst in custody of the contractor.		
	For the contractor's materials not retained by BHEL reasonable cost of materials from the site to contractor's permanent stores or to his other voless. If materials are not transported to either of the said places, no conshall be payable.	vorks, which ever is	
15.3	If any materials supplied by BHEL are rendered surplus, the same excessible shall be returned by the contractor to BHEL at rates not exceeding the were originally issued less allowance for any deterioration or damage who caused whilst the materials were in the custody of the contractor. It transporting such materials from site to BHEL'S stores, if so required included.	ose at which these nich may have been in addition, cost of	
15.4	Reasonable compensation for transfer of tools and plants from the permanent stores or to his other works, whichever is less. If tools transported to either of the said places, no cost of transportation shall be	and plants are not	
15.5	A sum to be certified by BHEL being the amount of any expenditure rea the contractor in expectation of completing the whole of the works expenditure shall not have been covered by the payments in this mentioned.	sonably incurred by in so far as such	
	Provided always that against any payments due from BHEL under the shall be entitled to be credited with any outstanding balances due from advances in respect of construction machinery and materials and any of the date of termination were recoverable by BHEL from the contractor the contract.	n the contractor for other sums which at	
	The contractor shall, if required by BHEL, furnish to him books of actime sheets and other relevant documents as may be necessary to enabreasonable amount payable under this condition.		
16.1	In the event of any claim made or being made against BHEL arising referred to, in and in respect of which the contractor is liable under contractor shall be promptly notified thereof and the contractor shall a conduct all negotiations for the settlement of the same and any litigate therefrom. BHEL shall not unless and until the contractor shall have far conduct of negotiations or litigation make nay admission which might be contractor having first given to BHEL such reasonable security as shall for required by BHEL to cover the amount ascertained or agreed or estimate of any compensation, damages, expenses, and costs on which BHEL BHEL shall, at the request of the contractor, afford all available assist purpose and shall be paid any out of pocket expenses incurred in so doing the contractor is liable under contractor.	er the contract, the at his own expense tion that may arise iled to takeover the exprejudicial thereto. Conditional upon the from time to time be ed as case may be, may become liable. Itance for any such	
16.2	In case, due to exigency or any other reason BHEL incurs costs, damage which under the contract the contractor is liable, BHEL shall claim contractor. All such claims shall be billed by BHEL to the contractor as due. Such bills shall be supported by appropriate and certified vouchers enable the contractor to properly identify such claims. Such claims si contractor within fifteen (15) days of the receipt of the corresponding bil the contractor within the said period, BHEL may then deduct the amoundue or becoming due by him to the contractor under the contract or mactions of law or otherwise, if the contractor fails to satisfy BHEL of such	ges or expenses for the same from the and when they fall s or explanations, to hall be paid by the ls and if not paid by ant from any money ay be recovered by	
17.0	ASSIGNMENT AND SUB-CONTRACTING		
17.1	Assignment The Contractor shall not assign or transfer the Contract or any part there any obligation thereof or interest therein or thereunder (otherwise than be of the Contractor's Bankers of any moneys due to become due under the prior written consent of BHEL.	y a charge in favour	
17.2	SUB - CONTRACTING		

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17.2.1	Equipment
	Subcontracting of work, normally should not be permitted. However, in case of unavoidable instances, the contractor may, after informing BHEL & getting his written approval along with approval of the purchaser, assign or subcontract any part of the contract other than for raw materials, for minor details or any part of the plant for which makes are identified in the contract. BHEL shall not be liable in any way, in case such approval for sub contracting is
	not permitted by the purchaser. Sub-contractor of the equipment not identified in the contact or any change in the identified sub-contractor shall be subject to approval by BHEL & the purchaser. The experience list of the equipment sub-contractor under consideration by the contractor for this contract shall be furnished to BHEL for approval prior to procurement of all such items /equipment. Such assignment /sub-contracting shall not relieve the contractor from any obligation, duty or responsibility under the contract. Any assignment as above without prior written approval of BHEL & the purchaser shall be null and void. For components / equipments procured by the contractor for the purposes of the contract, after
	obtaining written approval of BHEL/the purchaser, the contractor's purchase specifications and enquiries shall call for quality plans to be submitted by his sub-contractor alongwith their proposals. The quality plans called for from the subcontractor shall set out during the various stages of manufacture & installation the quality practices & procedures followed by the sub-contractor quality control organization, the relevant reference documents, standards used, acceptance levels, inspection of documentation raised, etc. Such quality plans of the sub-contractor shall be discussed and finalized in consultation with BHEL and shall form a part of the contract between the contractor and the sub contractor. The contractor along with the subcontractor and BHEL shall furnish a joint undertaking to the purchaser or guaranteed performance of the equipment and subsystems. The contractor should desist
	from seeking approval for two-tier sub-contracting which may not be permitted by BHEL/the purchaser.
17.2.2	Erection / Construction work When the job of erection/ construction is entrusted with the sub-contractor, the name of such sub-contractor should be brought to the notice of BHEL for his as well as the purchaser's approval. The credential and experience profile of such sub-contractor along with quality assurance plan are to be submitted by the contractor before starting work without which BHEL shall not entertain such proposal from the contractor. The procedure to be followed before assigning such contract are already elaborated above. Salient features
17.2.2.1	of such assignment / sub-contracting are enumerated below: The Contractor shall not sub-contract the whole of 'the works'. Except where otherwise provided by the Contract, the Contractor shall not sub-contract any part of the works without the prior written consent of BHEL/the purchaser and such consent if given shall not relieve the Contractor from any liability or obligation under the Contract and he shall be responsible for the acts, defaults and neglects of any sub contractor, his agents, servants or workman as fully as if they were the acts, defaults or neglects of the Contractor, his agents, servants or workman.
17.2.2.2	The contractor shall make available to the Engineer, at his request, any agreement in writing entered into by the Contractor with his Sub-contractor.
17.2.2.3	BHEL shall have the right to specify the brand name/s of the bought out materials required in connection with the contract and the Contractor shall procure and use only such branded items to the extent possible to the full satisfactions of the Engineer. This shall however, not relieve the Contractor of his obligations under the Contract.
17.2.2.4	Notwithstanding the consent given by BHEL/ the purchaser for Sub-contracting, it shall be obligatory on the part of the Contractor to provide the Engineer all drawings, technical data and all other details etc. concerning the portion of work sub-contracted. It shall also be obligatory on the part of the Contractor to exercise control over quality of materials and workmanship of the portion of work sub-contracted.
18.0	FORCE MAJEURE The following shall amount to force majeure :
18.1	Acts of God, acts of any Government, war, sabotage, riots, civil commotion, police action, revolution, flood, fire, cyclone, earthquake, epidemic and other similar cause over which the contractor has not control.
18.2	If the contractor suffers delay in the due execution of the contractual obligation due to delays caused for force majeure as defined above the agreed time of completion of the job covered by this contract or the obligations of the contract shall be extended by a period of time equal to the period of delay provided that on the occurrence of any such contingency the contractor immediately reports to BHEL in writing the causes of delay and contractor shall not be eligible for any compensation.
19.0	PATENT RIGHTS The Contractor shall defend any claim which allege in a suit of proceeding against BHEL that equipment or any part thereof constitutes an infringement of any patent, if notified

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	promptly in writing and given authority, information and assistance for the defence and the Contractor shall pay all damages and costs awarded against BHEL in such suit or proceeding for the patent infringement and the use of equipment or part is Prohibited, the contractor shall, at his own expenses either procure for BHEL the right to continue using the equipment or replace the same with a non-infringing, or move the equipment and refund the Contract Price plus the transportation and installation costs thereof. The contractor shall indemnify BHEL from and against all claims and proceeding for or on account of infringement or alleged infringement of any patent rights, design trade mark or name or other protected rights in respect of execution of the contract.			
20.0	INDEMNIFICATION OF BHEL			
20.0	The Contractor shall insure all his personal, tools and tackles, drawings etc. and shall also take a third party liability cover to indemnify BHEL of all liabilities such may come up due to any act or omission on the part of Contractor, his agent, representative, or sub-contractor(s) and cause harm/damage to other contractor/representatives of the Purchaser / BHEL or all or anybody rendering service to the Purchaser / BHEL or is connected with the Purchaser's / BHEL's work in any manner whatsoever. The Contractor shall necessarily indemnify BHEL in all these respects and the indemnification and insurance policy shall be subject to approval of the Purchaser/BHEL.			
21.0	CORRESPONDENCE			
	Detailed correspondence procedure will be indicated at the time of finalization of the contract. All drawings and correspondence to BHEL shall be transmitted by the contractor via air mail or alternatively by means involving the minimum time of transit.			
21.1	Service of notice on contractor			
	Any notice to be given to the Contractor under the terms of the contract shall be served by sending the same by post to or leaving the same at the Contractor's last known address of the principal place of business (or in the event of the contractor being at company to or at its registered office). In case of change of address the notice shall be served at changed address as notified in writing by the contractor to BHEL. Such posting or leaving of the notice shall be deemed to be good service of such notice and the time mentioned to the condition for doing any act after notice shall be reckoned from the date so mentioned in such notice.			
21.2	Service of notice on BHEL			
	Any notice to be given to BHEL under the terms of the Contractor shall be served by sending the same by post to or leaving the same at BHEL address or changed address as notified in writing by BHEL to the Contractor.			
22.0	SITE RECORD			
	Following registers, as made available to the contractor by BHEL, is to be maintained at site in the manner as specified by the Engineer at site:			
22.1	Cement Register.			
22.2	Site Order Book.			
22.3	Material at site account.			
22.4	Hindrance Register.			
22.5	Cube Test Register.			
22.6	Test Check Statement.			
22.7	Part Rate Statement.			
22.1	CONTRACT ACREMENT EFFECT AND HIDISDICTION			

CONTRACT AGREEMENT, EFFECT AND JURISDICTION

23.0

The contractor shall within 60 days from the date of LDI but in any case before submitting his first bill for payment, enter into and execute a contract agreement (to be prepared at the cost of the contractor). In the event of the failure of the contractor to execute the contract agreement within the time specified above, BHEL may cancel the LOI and forfelf his EMD and/or SD unless this period is extended by BHEL. The agreement will be signed in seven (7) originals and the contractor shall be provided with one (1) signed original and the rest will be retained by BHEL. These General Conditions together with the specifications, tender drawings and technical particulars, tender date with subsequent agreed modification thereof, tender, all correspondences with BHEL and signed agreement and other supporting documents shall constitute the contract document(s). No variation or modification of terms and conditions shall be deemed valid unless agreed in writing and signed by the BHEL and the Contractor. The failure of either party to endorse at any time of the provisions of the contract or any right thereto or to an option herein provided shall in no way be construed to be a waiver of such provisions, rights or option or in any way to affect the validity of the Contract. The exercise by either party of any of his rights herein shall not preclude or prejudice either party from exercising the same or any other right in may have hereunder. The contract shall in all respects be deemed to be and shall be construed and shall operate as an Indian contract as defined in the Indian Contract Act 1872 and all payments thereunder shall be made in Indian Rupees unless otherwise specified. The contract shall be made in Indian Rupees unless otherwise specified. The contract shall be made in Indian Rupees unless otherwise specified. The law applicable to the Contract shall be the law in force in India. The Courts of Kolkata under this Contract shall be weaken shall provided in the form of a Fax of Award or Letter of INTENT. The	VOLUME	- IB GENERAL CONDITIONS OF CONTRACT (SERVICES) 31 of 53				
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24.8	Work under the contract shall continue during arbitration proceeding unless BHEL shall order the suspension or termination thereof or any part thereof of the work or any portion of the work.
24.9	Subject arbitration as aforesaid, shall be conducted in accordance with the provision of Indian Arbitration Act, 1996 or any statutory modification or re-enactments thereof and the rules made thereunder and for the time being in force shall apply to the arbitration proceeding under the clause. The venue of the arbitration, if any, shall be Kolkata.
25.0	AS-BUILT DRAWINGS
00.0	The Contractor shall provide and keep up to date "As Built" drawings of all structures constructed and all equipment and accessories and miscellaneous metal works erected or installed. These drawings shall show all changes and revisions from the original drawings and specifications, including the exact "As Built" locations, sizes and kinds of equipment and accessories, miscellaneous metal works, embedded piping and electrical systems and other concealed items of work. These drawings shall be kept in Contractor's field office but shall be made available at all times for review of the Engineer. At the end of every work, all entries, changes or revisions made in the drawings by the Contractor shall be checked and approved by the Engineer Reproducible prints with requisite copies of all "As Built" drawings shall be progressively handed over to BHEL after taking over of the work by BHEL/ the Putal AMOE.
26.0 26.1	INSURANCE BHEL shall arrange for insuring the materials/properties of BHEL/ Customer covering the
	risks during transit, storage, erection and commissioning.
26.2	It is the sole responsibility of the contractor to insure the workmen, his properties including tools and plants against accident and injury while at work as required by relevant rules and to pay compensation, if any, to workmen as per Workmen's Compensation Act. This policy shall also cover the contractor against claims for injury, disability, disease or death of his or his sub-contractor's employee, which for any reason are not covered under the Workmen's Compensation Act. The liabilities shall not be less than:
26.2.1	Workmen's Compensation :- As per statutory provisions Employee's liability : As per statutory provisions.
26.2.2	The work will be carried out in a protected area and all the rules and regulations of the purchaser / BHEL in the area of project which are in force from time to time will have to be followed by the contractor.
26.3	If due to negligence and/or non-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.
26.4	If due to contractor's carelessness, negligence or non-observance of safety precautions damage to BHEL'S /purchaser's property and personnel should occur, and if BHEL is unable to recover, in full cost from the insurance company, the balance will be recovered from the contractor. The damage is to be-reported within 48 hours of occurrence alongwith Engineers report. In the event of loss/theft of BHEL's /purchaser's property while in the custody of the contractor, it will be the responsibility of the contractor to lodge FIR with local Police authorities and furnish the details of FIR and Engineer's investigation report about loss/theft within 48 hours of occurrence. This is for the purpose of lodging insurance claim. If BHEL is unable to recover full cost from Insurance Company, the balance including deductible franchise whereas applicable will be recovered from the contractor.
27.0	WORK AT SITE
27.1	In the execution of the work, no persons other than the contractor, or his duly appointed representative, sub-contractors and workmen employed by him and his sub-contractors shall be allowed to do work at the Site, except by the special permission, in writing, of the Engineer or his representative, but access to the work at all times shall accorded to the Engineer and representative of the Purchaser.
27.2	Nevertheless, the Contractor shall not object to the execution of works under other Packages by other contractor(s) or tradesmen whose names shall have been previously communicated in writing to the Contractor by the Engineer, and accord them every facility for the execution of works under other Packages simultaneously with his own work.
27.3	The contractor shall provide, erect and maintain at the entrance to the site an approved painted sign-board of minimum size 2m×1m, giving the name of the project, Employer's name and contractor's name. The location and layout design of the signboard shall be such as shall be approved by the Engineer.
27.4	The contractor shall in connection with the works provide & maintain at his own cost all lights, guards, fencing & watching when & where necessary or required by the Engineer or by any duly constituted authority for the protection of the works or for the safety and convenience of the public or others. Adequate precautions against fire shall be taken by the Contractor. No naked light shall be used by the contractor on the site, otherwise than in the

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	anno cir without the neuroiceian of the Engineer			
27.5	open air, without the permission of the Engineer. The contractor shall have total responsibility for all plants and materials etc., in his custody, stores, loose or semifinished. The contractor shall make suitable security arrangements including employment of security personnel to ensure the protection of all materials, plant etc., and work from theft, fire, pilferage and any other damage and loss.			
27.6	The contractor shall follow at site all security rules as may be framed by BHEL and/or the Purchaser from time to time regarding removal of materials from site, issue of identity cards, control of entry of personnel and all similar matters. The contractor and his personnel shall abide by all the security measures imposed by the Engineer of his duly authorised representative from time to time. The provision of the clause shall also apply to all Subcontractors.			
27.7	The work so far as it is carried out on BHEL's premises shall be carried out at such times as BHEL may approve but BHEL shall give the contractor all reasonable facilities for carrying out the work.			
27.8	No female labour shall be allowed during dark hour.			
27.9	The Contractor shall not employ for the purpose of executing any work any person who is below the age of eighteen (18) years and shall pay to the work done by such labourer, wages, not les than the wages paid for neighborhood. The Engineer shall have the right to enquire into and de alleging that the wages paid by the Contractor to any labourer for the labourer is less than the wages paid for similar work in the neighborhood.	o each labourer, for r similar work in the ecide any complaint work done by such nood and to refuse		
27.10	giving Permission of appointment of any labourer less then eighteen (18) years of age. The Contractor shall make regular and prompt payment of wages to the labourer engaged on the work and in no case the payment shall be delayed by more than seven (7) days following the period for which the wages are due. If it is found that workers are not paid regularly, the Contract is liable to be rescinded. The Contractor shall comply strictly with the provision of the prevailing Labour Laws.			
27.11	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 representatives should be furnished to BHEL site office for record purpose.			
27.12	All the properties / equipment / components of BHEL/the purchaser loaned with or without deposit to the contractor in connection with the contract shall remain the properties of BHEL/purchaser. The Contractor shall use such properties for the purpose of executor of this contract. All such properties /equipment / components shall be deemed to be in good condition when received by the contractor unless he notifies within 48 hour to the contrary. The Contractor shall return them in good condition as and when require by BHEL/purchaser. In case of non-return, loss, damage repairs etc., the cost thereof, as may			
27.13	be fixed by he site Engineers, will be recovered from the Contractor. It is not obligatory on the part of BHEL to supply any tools & tackles or r those specifically agreed to do so by BHEL. However, depending up BHEL's / purchaser's handling equipment and other plants may be ma contractor on payment of the hire charge as fixed, subject to the cond BHEL/purchaser from time to time. Unless paid in advance such hire charges the shall be recovered from contractor's Bill /security deposit in ONE installing.	oon the availability, ade available to the litions laid down by arges, if applicable		
28.0	MANUFACTURER'S SUPERVISION The Contractor may be required to work under the guidance of the manupersonnel, as and when needed, where the Contractor is not the manuperson this will not relieve the Contractor of his responsibility of the correctnet quality of workmanship.	ufacturer. However,		
29.0	CONTRACTOR'S SUPERINTENDENCE			
29.1	The Contractor shall give or provide all necessary superintendence during the execution of works and as long thereafter as the Engineer may consider necessary for the proper fulfilling of the Contractor's obligations under the Contract.			
29.2	The Contractor or a competent and authorised agent or representat writing by the Engineer (which approval may at any time be withdrawn) on the works and shall give his whole time to superintendence of the san shall be withdrawn by the Engineer, the Contractor shall as soon as is regard to the requirement of replacing him as hereafter mentioned) aft notice of such withdrawal, remove the agent from the Site and shall no him again on the site in any capacity and shall replace him by another the Engineer. Such authorised agent or Representative shall receive Contractor directions and instructions from the Engineer or the Engineer Such directions and instructions given to the Contractor's agent or representative shall attend when required and claim for so doing, either the office of BHEL/ Engineer or the Site to rece	is to be constantly ne. If such approval practicable (having er receiving written at thereafter employ agent approved by e on behalf of the er's Representative. resentative shall be tractor himself. The without making any		

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	All the employees provided by the Contractor and employed on the site shall be the Contractor's employees and the Contractor shall be solely responsible for all liabilities in connection with their employment.				
29.3	Any written orders or instruction which the engineer or his duly authorised representative may give to the said representative of the Contractor, shall be deemed to have been given to the Contractor.				
29.4	The services of the Contractor's representative(s) shall be made available for such period as the Engineer may require and they shall work at all reasonable times as may be				
29.5	necessary to complete the work within the period specified in the Contract. The Engineer shall be at liberty to object to and require the Contractor to remove forthwith				
25.5	from the works any person employed by the Contractor in or about the execution of the contract who in the opinion of the Engineer misconducts himself or is incompetent or negligent in the proper performance of his duties or whose employment is otherwise considered by the engineer to be undesirable and such person shall not be again employed upon the works without the written permission of the Engineer. Any person so removed from the works shall be replaced as soon as possible by a competent substitute approved				
	by the Engineer.				
30.0	ENGINEER'S SUPERVISION The work shall be performed under the direction of the Engineer. The scope of the duty of the Engineer, pursuant to this Contract shall include but not be limited to the following:				
30.1	Interpretation of all the terms and conditions of the Contract Documents and Specification:				
30.2	Review and interpretation of all drawings, engineering data etc.				
30.3	Witness or authorize his representative to witness tests & trial run etc., either at the manufacturer's works or at site as applicable, or at any place where work is performed under the Contract.				
30.4	Inspect, accept or reject any equipment, any component, materials and works under the Contract:				
30.5	Issue certificate of acceptance and/or certificates for progressive payments and final payment;				
30.6	Review and suggest modification and improvements in completion schedule from time to time; and				
30.7	Supervise implementation of the quality assurance at all stages of the Works; The contractor shall take instruction and direction only from the Engineer or from the Engineer's representative. Any supervision by the purchaser shall be deemed to be that of the Engineer or his Representative and no extra claim can arise on this score. Provided however that if the Contractor shall be dissatisfied by reason of any instruction of the purchaser, he shall be entitled to refer the matter to the Engineer who shall thereupon confirm, reverse or vary such decision. Any written instruction or approvals given by the Engineer's Representative to the contractor within the terms of the delegation by the Engineer (but not otherwise) bind the				
30.7.1	contractor and BHEL, as though it had been given by the Engineer Provided always as follows;				
	Failure of the Engineer's representative to disapprove any work or materials shall not pre judice the power of the Engineer there after to disapprove such work or materials and to order the pulling down, removal or breaking up thereof.				
30.7.2	If the contractor shall be dissatisfied by reason of any decision of the Engineer's representative he shall be entitled to refer the matter to the Engineer who shall thereupon confirm, reverse or very such decision.				
30.7.3	The Engineer may at any time revoke any such delegation and shall in the event of such revocation inform the contractor in writing.				
31.0	PROGRAMME OF WORK AND PROGRESS REPORT				
31.1	The Contractor shall submit at such times erection and construction schedules in the form of PERT network or Bar Chart as desired by BHEL showing the programme and order in which the Contractor proposes to carry out the work. Such schedules shall be approved by the Engineer, prior to starting the Work at the Site.				
31.2	During the progress of the work, the Contractor shall submit required copies of monthly progress reports and photographs and such other reports on the erection and construction works and his site organisation, as the Engineer may direct. The format of the progress report shall be finalized by the Contractor with the approval of BHEL. If at any time BHEL desires to change the format or requires any additional information, the Contractor shall comply with the same. The Contractor shall also submit an anticipated one(1) month's programme at the beginning of each month describing in detail the anticipated progress for the following month. The Contractor shall also submit every week a list of various				

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	within the fi approval by of such par under the co		n following the reporting er's representative of the contractor of ar	ng month. The such programn	submission to and ne or the furnishing
32.0	LIABILITY FOR ACCIDENT AND DAMAGE				
22.4	The Contractor shall, except if and so far as the Contract provides otherwise, indemnify BHEL against all losses and claims in respect of injuries or damage to any person or material or plant or physical damage to any property whatsoever which may arise out of or in consequence of the execution & maintenance of the Works and against all claims, proceedings, damage, costs, charges and expenses whatsoever in respect of or in relation thereto except any compensation or damages for or with respect to:				
32.1 32.2		ent_use or occupation on BHEL/the Purchaser to			
	in or through	n any land.			
32.3	/BHEL, his for or in resrespect there contract equitable has	amage to persons or pro agent, servants or other spect of any claims, pro eof or in relation therettor, his servants or age aving regard in the ext agents or other contract	contractor(s) not bei oceedings, damages, o or where the injury nts such part of the cent of the responsibi	ng employed by costs, charges or damage was compensation a	y the contractor, or s and expenses in s contributed to by is may be just and
33.0		EMPORARY WORKS A			
33.1	when broug completion (save for the in writing of the contract the complet	tional plant, temporary ht on to the site be dee of the works and the co e purpose of moving it f the Engineer which sh or to use all such const ion of the works until the ontractor from the site ar	med to be exclusively ontractor shall not rem rom one part of the si all not be unreasonal ructional plant tempor e happening of any e	vintended for the nove the same ite to another) withheld. Butary works and revent which give	ne construction and or any part thereof without the consent at BHEL will permit materials in and for es right to BHEL to
33.2	During erect working and of waste mareasonable of the same	tion, the Contractor shall storage areas used by sterials or rubbish. If the time as specified by the will be back charged thwith on request by BH	all without any addition him and/or his subconse materials are not reasonable Engineer these will be to the Contractor. Ar	nal payment at entractor(s) free emoved by the be removed by the	all times keep the from accumulation Contractor within a others and the cost
	construction provided by condition sa remove the of four wee plant, works BHEL store as he may clear the place sell by pub towards the shall be ent	eletion of the works the lal plants and temporare the contractor, packing tisfactory to the Engine constructional plant, term is after the completion or materials and clair is such plants, works or claim from the contract claims, works and materialic auction such plants amount due to it and the itled to proceed agains oceeds are not sufficient.	y works remaining the cases, waste and der. In the event of fails apporary works or materials, he shall be a rand in the event of als after paying such a balance if any, shall the contractor for the	nereon and any lebris and leave ure on the part terials as afores shall be at liber efore from the e entitled to suc failure on the p expanses or calls and approprial be paid to the	r unused materials the premises in a of the contractor to said within a period rty to remove such contractor. In case ch storage charges part of contractor to harges BHEL shall riate the proceeds the contractor. BHEL
33.3	BHEL shall	not at any time be lal plant, temporary work	iable for the loss of	f or damage to	o any of the said
33.4	TOOLS & P		s and materials.		
33.4.1	All T&Ps in	cluding precision meas			
33.4.2	In the even shall maint instruments	arranged by the contract of BHEL issue T&Ps, ain joint protocol as etc. taken from BHEL's te these equipments forment.	measuring instrume per BHEL format al custody and return t	nts etc. the cond bout the cond to BHEL after u	ntractor and BHEL ition of all T&Ps, use. The contractor
	and ensure	ponsibility of contractor their safe return in work ompliance to this may e	king condition to BHEI	L's store subjec	t to normal wear &

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	and cost of the contractor.				
33.4.3	All the T&P, measuring instruments, etc must be mobilized at site in advance prior to actual start of the job. They must be in accordance with those recommended in the tender document, if any and must be got verified to that effect. Formal clearance in writing must be obtained from the Engineer before the contractor starts the job.				
33.4.4	All T&Ps, lifting tackles and pulling devices to be used must bear valid/latest test certificates for their suitability, and the same to be furnished alongwith the offer or during execution.				
	The contractor shall ensure deployment of reliable and calibrated Instrument, Measuring and Test Equipments (IMTE). The IMTE shall have test/calibration certificates from authorised /Govt. approved/ accredited agencies traceable to national/international standards. Retesting/ recalibration shall also be arranged by the contractor as advised by BHEL. The contractor shall also have alternate arrangement for such IMTEs so that the work does not suffer when the particular IMTE is sent for calibration. Also if any IMTE is found not fit for use, BHEL shall have the right to stop use of such IMTE and instruct the contractor to deploy proper IMTE and repeat the reading taken by the instrument failing				
33.4.5	which BHEL may deploy IMTEs and retake the readings at the contractor's cost. T&P/instrument found defective /improper/insufficient or not having valid test / calibration				
34.0	certificate should be made good immediately as per instruction of the English LABOUR AND LABOUR LAWS	gineer.			
34.1	Engagement of labours The Contractor shall employ labour in sufficient numbers to maintain to progress and of quality to ensure workmanship of the degree specified in the sufficient numbers.				
	to the satisfaction of the Engineer. The Contractor shall save in, so f otherwise provides shall provide for the transport, housing, canteen, wages etc thereof to the labourers in accordance with relevant St Regulation etc. The Contractor shall not employ in connection with the who has not completed eighteen years of age. Preference should be	and payments of catutory Rules and works any persons given to the local			
	unskilled labourers and to the local land sufferers for employments. All the Contractor shall be and remain the employees of the Contractor an against BHEL by them or the Contractor, or any person claiming on t BHEL in respect of any right or benefit due to them in their employments shall have to obtain labour license from the appropriate authority as person about the property of	d no claim shall lie their behalf against ent. The Contractor the law at his cost			
	and shall indemnify BHEL about his financial and other obligation arising workers employed by him. On obtaining the labour license, the Cont certified photocopy of the same to BHEL.				
34.2	Return of labour compliance with rules etc	Daniel and the control			
34.2.1	The contractor shall if required by the Engineer deliver to the Engineer's at his office a return in detail in such form and at such intervals as prescribe showing the supervisory staff and the numbers of the several from time to time employed by the contractor on the site and such regarding contractor's equipment as the Engineer's representative may re-	the Engineer may al classes of labour n other information			
34.2.2	The contractor shall pay to the labour, employed by him either direct contractor, rates of wages and observe hours and conditions of labour than those established for the trade or industry in the district where the by machinery of negotiation or arbitration to which the parties are organis and trade union's representatives respectively of substantial proportion and workers engaged in the trade or industry in the district. In the abse	not less favorable works is carried or sation of employers of the employers			
	wages, hours or conditions of labour so established the contractor shall and observe hours and conditions of labour which are not less favorable of wages and hours and condition observed by other contractor circumstances in trade or industry in which he is engaged are similar.	pay rates of wages than general levels or whose general			
34.2.3	The contractor shall in respect of labour employee by him either direct contractors comply with or cause to be complied with the provisions wages Act, 1936; minimum wages Act, 1948; Employer's liability Act compensation Act, 1923; Industrial disputes Act, 1947; Maternity benef Act, 1952 employers provident fund scheme; Employer state insurance labour (regulations and abolition) Act, 1970 and other Act, rules and regal as may be enacted by the Government during the tenure of contract of thereof or any other law relating thereto and rules made thereunder from having force or jurisdiction at site.	of the payment of , 1938; workmen's it Act, 1961; Mines e scheme; Contract gulations for labour r any modifications			
34.2.4	The Contractor shall be liable to pay his contribution and the employee's state insurance scheme in respect of all labour employed by him for the contract, in accordance with the provision of "Employees state insura amended from time to time. In case the contractor fails to submit full de of labour employed and the contribution payable, the Engineer shall	ne execution of the ance Act, 1948" as stails of his account			

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	running bills of the contractor an amount of contribution as assessed by him. The amount so recovered shall be adjusted against the actual contribution payable for Employees state insurance.
34.2.5	The Engineer shall on a report having been made by the inspecting officer as defined in the contract labour (regulations and abolition) Act, 1970 have the power to deduct from the moneys due to the contractor any sum required or estimated to be required for making good the loss suffered by a worker or workers by reason of non-fulfillment of the conditions of the contract for the benefits of workers, non-payment of wages or of deductions made from his or their wages which are non-justified by the terms of the contract or non-observance of the said contract labour regulations.
34.2.6	The contractor shall indemnify BHEL against all or any payments to be made under and for observance of the regulations aforesaid without prejudice to his right to claim indemnify from his sub-contractors.
34.2.7	In the event of the contractor committing a default or breach of any of the provisions of aforesaid contract labour regulations, as amended from time to time or furnishing any information or submitting or filling any form /register/slip under the provisions of these regulations which is materially incorrect then on the report of the inspecting officers as defined in the contract labour regulation, the contractor shall without prejudice to any other liability pay to BHEL sum not exceeding Rs. 50.00 as liquidated damages for every default, breach or furnishing, making, submitting, filling materially incorrect statement as may fixed by the Engineer and in the event of the contractor's default continuing in this respect, the liquidated damages may be enhanced to Rs. 50.00 per day for each day of default subject to a maximum ten percent of the contract price.
34.2.8	The Engineer shall deduct such amount from bills or security deposit of the contractor and credit the same to the welfare fund constituted under the same regulations. The decision of the Engineer in this respect shall be final and binding.
34.3	Labour welfare etc
34.3.1	First Aid Facility
	approval and to the satisfaction of concerned public health authority. At least one of his staff shall be fully qualified in the knowledge and administration of first aid. The contractor shall be responsible for and shall make all necessary arrangements and provisions for proper medical treatment of all persons employed by him for execution of the contract at his own cost and BHEL shall not have any liability on the account.
	Contractor shall within 24 hours of the occurrences of any accident on or about the site or in connection with the execution works, report such accident to the engineer and to the competent authorities, whenever such report is required under the law.
34.3.2	Supply of water The contractor shall have regard to local conditions provide on the site to the satisfaction of the Engineer's representative an adequate supply of drinking and other water for the use of his staff and "labour employed".
34.3.3	Alcoholic liquor or drugs The contractor shall not otherwise than in accordance with the statutes, ordinances and government regulations or orders for the time being in force import, give barter or otherwise dispose of any alcoholic liquor or permit or suffer any such importation, sale, gift, barter or disposal by his sub-contractors, agents or employers.
34.3.4	Arms and Ammunition The contractor shall not give barter or otherwise dispose of to any person or persons any arms or ammunition of the any kind or permit or suffer the same as aforesaid.
34.3.5	Festivals and religious Customs The contractor shall in all dealings with labour in his employ have due regard to all recognized festivals, date of rest and religious or other customs.
34.3.6	Epidemic In the event of any outbreak of illness of an epidemic nature the contractor shall comply with and carry out such regulations, orders and requirements as may be made by the Government or the local medical or sanitary authorities for the purpose of dealing with and overcoming the same.
34.3.7	The contractor shall at all times take all reasonable precautions to prevent any unlawful riotous or disorderly, conduct by or amongst his Employees and for the preservation of peace protection of persons and property in the neighborhood of the site against the same.
34.3.8	The contractor shall at his own expense fully comply with or cause to be complied with model rules for labour welfare as advised by Engineer or rules as framed by the government from time to time for the protection of health and for making sanitary arrangements for workers employed directly or indirectly on the works. In case the

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	contractor fails to make arrangements as aforesaid, the Engineer shall be entitled to do so and recover the cost thereof from the contractor.
34.3.9	The contractor & his sub-contractor(s) shall followed the contract Labour Regulation.
34.3.10	The contractor shall be responsible for observance by his subcontractors of the foregoing
01.0.10	clauses.
35.0	CARE OF WORKS
	From the commencement to the completion of the works, the Contractor shall take full
	responsibility for the care thereof and of all temporary works and in case any damage, loss
	or injury shall happen to the works or to any part thereof or to any temporary works from
	any cause whatsoever (save and except the Force Majeure" as defined earlier) he shall at
	his own cost repair and make good the same to the satisfaction of the Engineer so that at
	completion, the works shall be in good order and condition and in conformity in every
	respect with requirements of the Contract and the Engineer's instructions. The Contractor shall also be liable for any damage to the works occasioned by him in the course of any
	operations carried out by him for the purpose of complying with his obligations as provided
	for in the Contract Documents.
36.0	OWNERSHIP OF ARTICLES OF VALUE DISCOVERED AT SITE
	All fossils, coins, articles of value or antiquity and structures and other remains or things of
	geological or archaeological interest discovered on the Site shall as between BHEL and the
	contractor be deemed to be in the absolute property of BHEL and the Contractor shall take
	reasonable precitions to prevent his workmen or any other persons from removing or
	damaging any such article or thing and shall immediately upon discovery thereof and before removal acquaint the Engineer of such discovery and carry out the Engineer's orders as to
	the disposal of the same.
37.0	CONVENIENCE OF PUBLIC
	All operation necessary for the execution of the works and for the Construction of any
	temporary work shall, so far as compliance with the requirements of the Contract permits,
	be carried on so an not to interfere unnecessarily or improperly with the public convenience
	or the access to use and occupation of public or private roads and foot paths or to use of
	properties whether in the possession of the Purchaser / BHEL or of any other person and
	the Contractor shall indemnify BHEL in respect of all claims, demands, proceedings, damage, costs, charges and expenses whatsoever arising out of or in relation to any such
	matter in so far as the contractor is responsible therefore.
38.0	PREVENTION OF EXTRAORDINARY TRAFFIC AND PROTECTION OF HIGHWAY
	The Contractor shall use every reasonable means to prevent any of the highways or
	bridges communicating with or on the routes to the Site from being damaged or injured by
	and traffic of the contactor or any or his sub-contractors and in particular shall select
	routes, choose and use vehicles and restrict and distribute loads so that any such extraordinary traffic as will inevitably arise from the moving of Plant and material from and
	to the Site shall be limited as far as reasonably possible and so that no damage or injury
	may be occasioned to such highways and bridges. Should it be found necessary for the
	Contractor to move one or more loads or construction plant machinery or preconstructed
	units or parts of units of work over part of a highway or bridge and that the moving of such
	load must in all probability damage – the highway or bridge unless means of protection of
	strengthening are carried out then the Contractor shall before moving the load on to such
	highway or bridge, carryout such protection or strengthening at his own cost. If during the execution of the works or at anytime thereafter BHEL or purchaser shall receive any claim
	arising out of the execution of the works in respect of damage or injury to highways or
	bridges, he shall immediately notify the same to the contractor and thereafter the contractor
	shall negotiate the settlement of and pay all sum due in respect of such claim and shall
	indemnify BHEL in respect thereof and in respect of all claims, demands, cost charges and
	expenses in relation thereto.
39.0	URGENT REPAIR WORK
	If by reason of any accident of failure or other event occurring to or in connection with the
	Works or any part thereof during the execution of the contract shall in the opinion of the Engineer be urgently necessary for safety and the Contractor is unable or unwilling at once
	to do such work or repair, BHEL may be his own or other workmen do such work or repair
	as the Engineer may consider necessary. If the work or repair so done by BHEL is Work
	which in the opinion of the Engineer the Contractor was liable to do at his own expense
	under the Contract all costs and charges properly incurred by BHEL in so doing shall on
	demand be paid by the Contractor to BHEL or may be deducted by BHEL from any money
	due or which may become due to the Contractor. Provided always that the Engineer shall
	as soon after the occurrence of any such emergency as may be reasonably practicable
	notify the Contractor thereof in writing.
40 ₋ 0	STRIKES AND LOCKOUTS
40.0	STRIKES AND LOCKOUTS The contractor will be fully responsible for all the dispute, consequences and other issues

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	connected with strikes, lockouts and his labour. In the event of the cont lockout and if the strike by the contractor's labour or the lockout decla within a reasonable time, BHEL shall have the rights to get the work exect own labour or through any other agencies or both and the cost so incurred be deducted from the contractor's bills.	ared is not settled cuted employing its
41.0	PAYMENTS AND RECOVERY	
41.1	Billing Schedule	
	The contractor shall prepare and submit to BHEL for approval requirements and item-wise billing schedule (breakups of the contract agreed PERT network setting forth starting and completion dates for the v of work within 1 month from the date of LOI. Payment under the contra advance if any, shall be made only after the contractor's billing schedu BHEL.	price) interlinking various key phases act excepting initial
41.2	Work To Measure	
	The Engineer shall except as otherwise stated ascertain and determine the value in accordance with the contract of work done in accordance with shall when he requires any parts of the Works to be measured go Contractor's authorised agent or representative who shall forthwith a qualified agent to assist the Engineer or the Engineer's Representative measurement and shall furnish all particulars required by either of Contractor not attend or neglect or omit to send such agent then the measurement the Engineer or approved by him shall be taken to be the correct measurement for the purpose of measuring such permanent work as is to be measured drawings the Engineer's Representatives shall prepare records and drawings the Engineer's Representatives and when called upon to do within 14 days attend to examine and agree such records and drawings to Representatives and shall sign the same when so agreed and if the Contactent to examine and agree any such records and drawings they shall correct. If after examination of such records and drawings the Contractor the same or does not sign the same as agreed they shall nevertheless correct unless the Contractor shall within 14 days of such examination erespects in which such records and drawings are claimed by him to be incored.	th the contract. He give notice to the attend or send a re in making such them. Should the surement made by ement of the work. ed by records and rawings month by so in writing shall with the Engineer's tractor does not so all be taken to be a does not agree to se be taken to be on lodge with the in writing of the
41.3	Method of measurement The works shall be measured net according to the procedure set forth notwithstanding any general or local custom except where otherwise spe or prescribed in the contract.	h by the Engineer
41.4	PAYMENTS TO THE CONTRACTOR	
44.4.4		

41.4.1

Interim payments.

A bill shall be submitted by the contractor each month on or before the date fixed by the Engineer for all works executed in the previous month for the purpose of interim payments, and the measurements for the purpose of having the same verify and the claim as far as possible before the expiry of 30 days from the presentation of the bill, complete in all respects.

If the contractor does not submit the bill within the time fixed as aforesaid the Engineer may depute within 7 days of the date fixed as aforesaid a subordinate to measure on the said work in the presence of the contractor whose counter signature to the measurement list will be sufficient warrant and the Engineer may prepare a bill from such list. Before taking any measurement of any work as has been referred to in clauses hereinbefore the Engineer or a subordinate deputed by him shall give notice to the contractor as mentioned above.

The contractor shall submit all bills in printed terms in six copies and the charges in the bills shall always be entered at the rate as specified in the tender or in case of any extra work ordered in pursuance of these conditions not mentioned or provided for in the tender at the rates provided for such work. Every interim payment certificate shall certify the contract value of the work executed up to the date mentioned in the application for the payment, provided that no sum shall be included in any inter in payment certificate in respect of the work that, according to the decision of the Engineer, does not comply with the contract specification or has been performed prematurely on the date of application.

Whether the contract stipulates a lumpsum as payable for the work where a lumpsum rate is stipulated in the schedule of rate in respect of any particular work or a part thereof and the works are not in at any intervening stage capable of measurement BHEL may at discretion pay on a interim bill prepared by the contractor, a percentage of the lumpsum provided for the entirely of the work or item of the work as the case may be on the basis of value assessment of such certified for payment by the Engineer.

No interim payments shall be made and/ or certified for an amount less than Rs. 10,000/-. All interim payments shall be subject to deductions provided for in the contract and taxes and other money deductible within the provisions of 194-C of the income tax act or any other rule or regulations for the time being in force.

All interim payments shall be recorded merely as advance payments against the amounts due to the contractor in terms of the contract and any such payment shall be without prejudice to the full rights of BHEL under the contract and the liabilities of the contractor thereunder and specifically shall not be regarded as an acceptance or completion of any work paid for in term of any interim payment or otherwise notwithstanding any verification or certification by the Engineer in respect thereof.

Interim payments are only by the way of assistance to the contractor and nothing provided in the foregoing clause thereof shall in any way be deemed to confer any right or entitlement on the contractor to receive interim payment nor shall any failure or delay by BHEL to make any interim payment as herein envisaged or otherwise afford the contractor a ground or basis for extension for completion or otherwise relieve the contractor from any of his liabilities under the contract.

41.4.2 Final measurements

If the contractor fails to apply to the Engineer for final measurement within a reasonable time the Engineer may of his own initiative notify the contractor of the date of taking the measurements as mention here in before.

41.4.3 Mode of measurement

All measurement shall be in metric system except where expressly indicated to the contrary in the schedule of rates or other contract documents and shall be as per relevant Indian Standards.

41.4.4 Final Bill

On the basis of final measurement entered in the Measurement Books / Sheets the Contractor shall prepare final bill in prescribed form with reference to the total work covered by the contract, such bill to be draw up by applying the applicable rate (s) specified in the schedule of rates to the relative measure quantity (ies). The final bill shall be submitted to BHEL for payment in sextruplicate accompanied by certificate of completion of works duly signed by Engineer or his Representative /owner's representative relating to works covered by the final bill.

Final payment to the contactor may be withheld by BHEL while any claim, demand, proceedings, suits etc. for which under the Contract the Contractor is liable remains

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	unsettled.
41.5	Payments due from contractor
	All costs, damages, penalties or expenses for which under the contract the contractor is liable to BHEL may be deducted by BHEL from any money due or becoming due to the contractor under this or any other contract with BHEL or from the security deposit or performance bond or bank guarantee (s) issued by the contractor or as debt due from the contractor or may be recovered by action at law or otherwise from the contractor. Such
44.0	deduction or recovery affected by BHEL shall be without prejudice to any other right or remedy which BHEL may have under the contract.
41.6	Withholding of payment BHEL may withhold the whole or part of any payment due to the Contractor, which in the opinion of BHEL, is necessary to protect himself from loss on account of.
41.6.1	Defective work not remedied or guarantees not met.
41.6.2	Claim filed against the contractor.
41.6.3	Failure by the contractor to make due payment for materials or labour employed by him.
41.6.4	Damage to another contractor and
41.6.5	Damage to equipments, instruments and other materials issued to the Contractor. 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.
41.7	Liens
	If at any time, there should be evidence of any lien or claim for which BHEL might have become liable and which is chargeable to the Contractor, BHEL shall have the right to retain out of any payment then due and thereafter to become due an amount sufficient to completely indemnify the Contractor against such lien and such claim be valid BHEL may pay and discharge the same and deduct the amount so paid from any money which may be or may become due and payable to the Contractor. If any item or claim remains unsatisfied after all payments are made, the Contractor shall refund or pay to BHEL all moneys that the later may be compelled to pay in discharging such lien or claim including all costs and
	reasonable expenses.
42.0	CONTRACTOR TO INFORM HIMSELF FULLY
42.1	Inspection of site before submission of offer. The Contractor shall inspect and examine the Site and its surroundings and shall satisfy himself before submitting the tender as to the form and nature of the Site, the quantities and nature of the work and materials necessary for the completion of the Works and the means of the site, the accommodation he may require, the labour position at the site, and in general shall himself obtain all necessary information as to the risks, contingencies and other circumstances which may influence or effect his tender.
42.2	Correctness and sufficiency of rates
	The Contractor by tendering shall be deemed to have satisfied himself as to all the condition and circumstances affecting the rates & prices stated in the priced schedule of items of work, as to the possibility of executing the works as shown and described in the Contract, as to the General circumstances at the Site and as to the General labour position at the Site, and to have fixed his rates and prices according to his own means to cover all his obligation under the Contract and all matters and things necessary for proper execution, completion of the contract as no additional allowance, except as otherwise expressly provided, will afterwards be made beyond the rates and prices stated in the price schedule of work. The Contractor alone shall be responsible for any misunderstanding or incorrect information however obtained except information given in writing by the Engineer.
43.0	DETAILS CONFIDENTIALS
43.1	The Contractor, his Employees and agents shall treat the Contract and everything contained therein as private and confidential. They shall not disclose any information or drawings or documents furnished to the Contractor by BHEL or Engineer or Engineer's Representative. All drawings reports and other information prepared by the Contractor or by BHEL or jointly by both for the execution of Contract shall not be disclosed without the prior written permission of the Engineer.
	The Contractor shall not permit the drawings or other documents entrusted to the
43.2	Contractor to be inspected copied or extracts taken there from by any person (other than is lawfully necessary for the performance of the Contract). No photographs of the Works or the plant within the Site premises shall be taken without the prior written permission of the Engineer. The Contractor shall not use the site for the purpose of advertising except with the prior written permission of the Engineer. Above such permission may if granted be subject to such conditions as the Engineer may prescribed. The provisions of this clause shall also apply to all the Sub-contractors.
43.2 44.0	Contractor to be inspected copied or extracts taken there from by any person (other than is lawfully necessary for the performance of the Contract). No photographs of the Works or the plant within the Site premises shall be taken without the prior written permission of the Engineer. The Contractor shall not use the site for the purpose of advertising except with the prior written permission of the Engineer. Above such permission may if granted be subject to such conditions as the Engineer may prescribed. The provisions of this clause

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	the Engineer and the manner and to the extent to which he his prescribed, where explosive are used, the same shall be stored in the special magazine to be provided by and at the cost of the Contactor who shall be liable for all damages, loss and injury to any person or property and shall be responsible for complying with all statutory obligations, in these respects.
45.0	MEMBERS OF STAFF ETC NOT PERSONALLY LIABLE
	Neither any member of BHEL'S staff nor the Engineer, nor the Engineer's representative shall be in any way personally liable for the acts or obligations under the contract or answerable for any default or omission on the part of BHEL in the observance or performance of any of the acts, matters, or things which are herein contained.
46.0	BHEL reserves the right to carry out the post payment audit and technical examination of the work and final bill including all supporting vouchers, abstracts etc., and to enforce recovery of any sums becoming due as a result thereof provided however that no such recovery shall be enforced after 4 years of passing and setting the final bill.
47.0	NON WAIVER OF DEFAULTS
	Failure of BHEL to insist upon strict performance of any terms and conditions of the contract will not be deemed a waiver of any rights or remedies that BHEL may have and will not be deemed a waiver of any subsequent default under the terms and conditions of the Contract. No right or remedy will be exclusive of any other right or remedy and BHEL will have all rights and remedies given under the Contract and now or hereafter existing in law or by statute.
48.0	GENERAL GUIDELINES FOR FIELD ACTIVITIES
	The activities to be rendered by the contractor shall broadly include (expect otherwise specified in the contract) but not limited to the following:
48.1	Arranging issue of materials from site store / open yard from time to time for erection as per the construction programme. The contractor shall be the custodian of all the materials issued till the plant is officially taken over the BHEL/purchaser after complete erection and successful trial run & commissioning etc. as applicable.
48.2	Transportation of materials to their respective places of erection and erection of the
	complete plant & equipment as supplied under this specification.
48.3	The contractor shall co-operate with BHEL/purchaser and other contractors working in site and arrange to perform his work in a manner so as to minimise interference with other contractor's works. The BHEL's engineer shall be notified promptly of any defect in other contractor's work that could affect the contractor's work. If rescheduling of contractor's work is requested by BHEL's Engineer in the interest of overall site activities, the same shall be complied with by the contractor. In all cases of controversy, the decision of BHEL shall be final and binding on the contractor without any commercial implication.
48.4	It may sometimes be necessary to remove some of the erected structural members to facilitate erection of bigger/pre-assembled equipment. In such case, the removal and re-erection of such members, which are essential, and if so agreed by the Engineer, will have to be done by the contractor at his cost.
48.5	Attachment welding of necessary instrumentation tapping points, thermocouple pads, root valves, condensing vessels, flow nozzles and control valves etc. Both for regular measurement and performance testing to be provided on equipment, its auxiliaries or pipelines covered within the scope of this tender, will also be the responsibility of the contractor and the same will be done as per the instructions of Engineer. The erection and welding of all above items will be the contractor's responsibility, even if:
48.5.1	Product groups under which these items are released are not covered in the scope of this tender.
48.5.2	Items are supplied by an agency other than the contractor.
48.6	Preservation of all materials / equipment under custody of the contractor during storage, pre-assembly & erection, commissioning etc, shall be the responsibility of the contractor. All necessary preservatives and consumables like paints, etc., shall be arranged by the contractor. Necessary touch up painting, periodic application of preservatives/paints on pressure parts/other equipment even after erection until completion of work shall be carried out by the contractor.
48.7	It is responsibility of the contractor to do the alignment etc., if necessary, repeatedly to satisfy Engineer, with all the necessary tools & tackles, manpower etc., The alignment will be complete only when jointly certified so, by the contractor's Engineer & BHEL. Also the contractor should ensure that the alignment is not disturbed afterwards.
48.8	Additional temporary platforms required for approaching different equipment as per site requirement, which may not be indicated in drawings, shall be fabricated and erected by the contractor. The materials required for these works shall be supplied by the contractor (except otherwise specified in the contract) and he will have to fabricate them to suit the

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	requirement.
48.9	Before erection of any equipment on a foundation, the contractor shall check and undertake if necessary rectification of foundation bolts reaming of holes, drilling of dowels, matching of bolts and nuts, making new dowel pin etc.
48.10	Assistance for calibrating /testing the power cylinders, valves, gauges, instruments etc., and setting of actuators coming under various groups shall be provided by contractor.
48.11	It shall be the responsibility of the contractor to provide ladders on columns for initial works till such time stairways are complete. For this, the ladder should not be welded on the column and should be prefabricated clamping type. No temporary welding on any structural member is permitted except under special circumstances with the approval of BHEL.
48.12	Structural materials required for the supporting /operating platforms required for the valves at various levels for the same operation of valves will be arranged by BHEL (except otherwise specified in the contract). Fabrication and erection of the same is deemed to be in the scope of the contractor.
48.13	All empty containers, packing materials, gunny bags, transport frames as also surplus and unused materials shall be the property of BHEL/the purchaser and shall be returned to the purchaser's scrap yard/store as directed by BHEL from time to time within the plant boundary.

48.14 Site welding & heat treatment.

Welding shall be done in accordance with IS-813, IS-816, IS-9595 & other relevant IS/ International standards. Only those welders, who are qualified as per IS-817 for ordinary welds and as per IBR/ASME Section-IX for high pressure welds, shall be employed in job. All welders shall be tested and approved by Engineer before they are actually engaged on the work even though they may possess the requisite certificates. BHEL reserves the right to reject any welder without assigning any reason. The welder identification code as approved by the Engineer shall be stamped by the welder on each joint done by them. The contractor will be responsible for the periodic renewal, re-testing of the welders as demanded by BHEL.

The Engineer is entitled to stop contractor's any welder from his work. If his work is unsatisfactory for any technical reason or there is a high percentage of the rejection of joints welded by him, which in the opinion of Engineer will adversely affect the quality of welding even though the welder has earlier passed the tests. The welders having passed the tests do not relieve the contractor from his contractual obligations, to check the performance of the welders.

All charges for testing of welders including destructive and non-destructive tests if conducted by BHEL or by the inspection authority at site shall have to be borne by the contractor. The necessary test materials and consumables will have to be arranged by the contractor and all testing facility made available, as required.

All welded joints shall be subject to acceptance by Engineer Inspection of welds shall be in accordance with IS-822 or equivalent code.

Preheating/postheating and stress relieving after welding are part of fabrication and erection work and shall be performed by the contractor in accordance with the instruction of Engineer. Unless otherwise specified, contractor shall arrange to supply heating equipment with automatic recording devices. Also the contractor shall have to arrange for the labour, heating elements, thermocouples, compensating cables, isolations materials like mineral wools, asbestos cloth, ceramic bricks, asbestos rope, etc. required for the heat-treatment and stress relieving hours. During pre-heat/stress relieving operation, the temperature shall be measured at one or more points as required by attaching thermocouples and recorded on a continuous printing type recorder. All the record graphs for the heat treatment works carried out shall be got signed by the Engineer prior to the commencement of each cycle and handed over to Engineer on completion. The graphs will be the property of BHEL. Also, the contractor has to provide thermo-chalks temperature recorders, thermocouple attachments, units, graph sheets etc, required for the job & maintain them in good condition. All electrodes shall be backed and dried in the electric/ electrode drying oven to the required temperature and for the period specified by the Engineer before they are used in erection work. The electrodes used shall be as per IS-814,IS-815, IS-1442, IS-9200 and other codes as applicable, and shall be of approved by reputed manufacture. The electrodes shall meet the requirement of the pipe materials. No electrodes manufactured more than 12 months ago and the type covered under certificate issued after conducting tests more than 6 months ago shall be used. All electrodes shall be preserved at works and at site as per manufacturer's recommendations.

Oxy-acetylene flame or Exo-thermic chemical heating for stress relieving is not permitted. Heating shall be by means, of electric induction coil or electric resistance coil.

It may become necessary to adopt inter layer radiography /MPT/UT depending upon the site/technical requirement interruptions in continuation of the work and making necessary arrangement for carrying out the above work.

Gas tungsten arc welding process (TIG) shall be adopted for all root pass welds except for structural works until 4.75 mm thickness is deposited. Subsequent wielding after root pass can be carried out by manual metal arc welding with coated electrodes. For pipes of thickness less than 6 mm the entire welding has to be carried out by TIG welding.

Fillet weld shall be made by shielded metal arc process as per applicable codes.

However, the Engineer will have the option of changing the method of welding as per site requirement. The method adopted for manual arc welding shall be weaving technique are the width of weaving shall not exceed 1.5 times of the diameter of the electrode.

In case of deviation from welding process and electrodes, the Contractor shall take approval of BHEL prior to adoption of same.

The root pass for butt joints shall be such as to achieve full penetration with complete fusion of root edges.

Each pass shall be cleared and freed of slag before the next pass is deposited.

On completion of each run, craters, weld irregularities, slag etc shall be removed by grinding or chipping.

Each layer of welding shall have an even and smooth appearance.

Welding sequence shall be adjusted in such a way that distortion due to welding shrinkage is minimised. Further any movement, shock or vibration during welding shall be avoided to prevent weld cracks.

Proper protection of welders and the work shall be taken during periods of rain. No welding

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48.14.1	Two pieces to be joined shall be individually checked for the weld edge preparation and profile dimensionally and to the template. Dye penetrant check shall be carried out on edge prepared surfaces at random. The percentage will depend on criticality as specified by Engineer.
48.14.2	Joint fit up will be a stage of inspection. Misalignment after fit up may vary from 0.3 mm to 1.6 mm depending on outside diameter and thickness.
48.14.3	All joints shall be offered for visual inspection after root run. Subsequent welding should be made only after the approval of root run.
	All welded joints shall be painted with anti corrosive paint immediately on completion of radiography and stress relieving.
49.0	INSPECTION / QUALITY ASSURANCE/QUALITY CONTROL
49.1	The work covered under the specification shall be subject to stage wise inspection by BHEL/ the purchaser.
49.2	The contractor has to follow BHEL FQA checklists / Quality plan/ other documents, pertaining to the work covered under the specification, as per instruction of the Engineer.
49.3	Protocols between the contractor and BHEL/Purchaser shall be made by the contractor as per requirement of BHEL/ Purchaser.
	Preparation of quality assurance log sheets and other quality control and quality assurance documentation as per instruction of the Engineer is within scope of the contractor.
49.4	A daily log book shall be maintained by every supervisor /engineer of the contractor on the job in duplicate (one for BHEL and one for the contractor) for detailing and incorporating various inspection details. All important measurements shall be recorded in the daily log book with sketches based on drawings indicating readings /measurements actually taken and signed by BHEL's / purchaser's /contractor's representative.
	The contractor shall adopt suitable quality assurance programme to control all activities pertaining to the scope of work, as necessary. Such programmes shall be outlined by the contractor and shall be finally accepted by BHEL/ purchaser. A quality assurance programme of the contractor shall generally cover the following:
49.4.1	Organisation structure and qualification data of key personal of the contractor for the management and implementation of the proposed assurance programme.
49.4.2	The procedure for source inspection, incoming raw material in section, verification of materials purchased etc.
49.4.3	System for maintenance of records.
49.4.5	General requirement – quality assurance
49.5.1	All materials, components & equipment covered under this specification shall be procured, manufactured, erected, commissioned and tested, as applicable, at all the stages, as per a comprehensive Quality Assurance Programme. An indicative programme of inspection / tests to be carried out by the contractor for some of the major items is given in the respective technical specification.
49.5.2	Field Quality Plans will detail out the quality practices and procedures etc to be followed by the contractor's Site Quality Control organisation, during various stages of site activities from receipt of materials / equipments at site.
49.5.3	Castings and forgings used for construction shall be of tested quality. Details of results of chemical analysis, mechanical property test results, as necessary, shall be furnished.
49.5.4	All welding shall be carried out as per procedure drawn and qualified in accordance with requirements of ASMC. Section IX/BS-4870 or other International equivalent standard acceptable to the purchaser / BHEL.
	All welders etc employed on any part of the contract at contractor's works or at site shall be qualified as per ASME Section IX or BS-4871 or equivalent international standard approved by the purchaser/ BHEL. Such qualification tests shall be conducted in presence of purchase's /BHEL's authorised representative.
49.5.5	All non destructive examination (NDT) shall be carried out in accordance with approved international standard. The NDT operator shall be qualified as per SNT-TC-IA (of American Society of non destructive examination). Results of NDT shall be properly recorded and submitted for approval.
49.5.6	All the purchase specifications for the major bought out items test of which shall be drawn up by the contractor and finalized with the purchaser/BHEL shall be furnished to the Purchaser/BHEL for comment and subsequent approval before orders are placed.
49.5.7	Purchaser /BHEL reserves the right to carryout quality audit and quality surveillance of the system and procedures of the contractor's quality management and control activities. The contractor shall provide all necessary assistance to enable the purchaser/BHEL to carryout

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such audit and surveillance.		

	such audit and surveillance.
49.5.8	Quality audit /approval of the results of tests and inspection will not prejudice the right of the
	purchaser /BHEL to reject an equipment / service not giving the desired performance and
	shall not in no way limit the liabilities and responsibilities of the contractor in earning
10.5.0	satisfactory performance of equipment/ service as per specification.
49.5.9	Repair /rectification procedures to be adopted to make any job and acceptable shall be
40.0	subject to the approval of the purchaser / BHEL.
49.6	It is further clarified to Cl. No. 10.6.V/I of General Conditions of Contact – Instructions to
	Tenderers that the prime bidder in the Consortium Arrangement shall mean the bidder as applicable in terms of relevant clauses of GCC (definition of terms).
50.0	OCCUPATIONAL HEALTH, SAFETY & ENVIRONMENT MANAGEMENT/ QUALITY
30.0	ASSURANCE PROGRAMME
	BHEL, Power Sector (ER) is ISO 9001:2000 certified company. Quality of work to
	customer's satisfaction and fulfillment of system requirements are the essence of ISO 9001
	certification. BHEL, PSER is having HSE certification (ISO 14001 & OHSAS 18001) also
	Contractor will organise/ plan/ perform all their activities to meet with the applicable
	requirements of these standards.
50.1	HSE (Health, safety & Environment)
	Contractor will comply with HSE (Health, safety & Environment) requirements of BHEL.
	HSE requirements in brief, are given below :-
50.1.1	Contractor will nominate one of their qualified and experienced employees as safety officer,
	who will be responsible for all HSE related issues of contractors work area. Safety officer
	will have authority to stop any activity, in case he observes that the activity is not being
	carried out in safe manner. He will conduct surprise inspection as well as periodic
	inspection/drill (at least once in a month) and submit such reports to BHEL. He will conduct
	periodic meetings with supervisors of different working groups and explain HSE issues and
	use of PPEs to them. Reports of such meetings will be submitted to BHEL. Contractor will
	develop suitable work procedures based upon HSE guidelines and OCPs and implement it.
	Such work procedures will consist of Area of work, T&P Details, Work Procedure, PPE requirements etc.
50.1.2	The contractor shall ensure that proper job specific health check-up is done by medical
30.1.2	professional for their employees during initial mobilization and thereafter if there is any
	change of job.
50.1.3	Following personnel protective equipments (PPEs), in adequate numbers, will be made
	available at site & their regular use by all concerned will be ensured :-
	- HELMET
	- SAFETY GOGGLES & WELDING FACE SHIELDS
	- SAFETY BELTS AND PROTECTIVE NET FOR WORKING AT HEIGHT
	- SAFETY SHOES
	- EAR PLUG
	- ANY OTHER SAFETY EQUIPMENT REQUIRED FOR SAFE COMPLETION OF THE
	WORK
50.1.4	Providing appropriate first aid facilities for prompt treatment of injuries and illness at work
	place. Arranging training to contractor workmen/ employees for giving first aid.
50.1.5	Arranging ambulance in case of any emergency situation .
50.1.6	Identification of nearest hospital and health check-up of workmen/employees
50.1.7	Providing filtered drinking water at work place in cool container.
50.1.8	Providing Canteen, Rest Room, Washing facilities to the contracted employees as per
50.1.9	provisions of Contract Labour Regulation Act 1970 (Chapter V).
JU. 1.9	Providing appropriate fire fighting equipment at designated work place and nominate a fire officer/warden adequately trained for his job.
50.1.10	Identification of nearest fire station and display contact telephone nos. / person's name
50.1.10	around work places for cases of emergencies .
50.1.11	Providing adequate no. of 24 V sources and ensure that no hand lamps are operating at
30.1.11	voltage level above 24 Volts.
50.1.12	Fulfilling safety requirements at all power tapping points.
50.1.13	Red & White caution tape of proper width(1.5 to 2 inch) to be used for cordoning unsafe
	area such as open trench, excavation area etc.
50.1.14	Providing contractors company logo on cloths /uniform/ proper identity cards with
•	photographs, for correct identification of people working at project site.
50.1.15	High/ Low pressure welders to be identified with separate colour clothings. No welders will
-	be deployed without passing appropriate tests and holding valid welding certificates.
	Approved welding procedure should be displayed at work place.
	The provide the latter of the
50.1.16	Displaying safe handling procedures for all chemicals such as lube oil, acid, alkali, sealing

	All scaffolding/ platforms should be made from materials of appropriate quality/grade so that these are safe for use. It should be certified/declared safe for use by an experienced contractor person, before any scaffolding/platform is used.
50.1.18	All T&Ps/ IMTEs should be of reputed brand/appropriate quality & must have valid test/calibration certificates bearing endorsement from competent authority of BHEL.
	Ensure that the regulatory requirement of excessive weight limit (to carry/lift/ move weights beyond prescribed limits) for male and female workers are complied with.
	Safety slogan, Safety/ Caution boards , wherever required to be displayed in consultation with BHEL.
	Take suitable measures for waste management and environment related laws/legislation as a part of normal construction activities. Compliance with the legal requirements on storage/disposal of paint drums (including the empty ones), Lubricant containers, Chemical Containers, and transportation and storage of hazardous chemicals will be strictly maintained. Ensure proper cleanliness of work place, housekeeping and waste management (including proper waste disposal) on daily basis.
	It is imperative on the part of the contractor to join and effectively contribute in joint measures such as tree plantation, environment protection, contributing towards social upliftment, conversion of packing woods to school furniture, keeping good relation with local populace etc.
	The contractor shall carry out periodic air and water quality check and illumination level checking in his area of work place and take suitable control measure.
	All applicable OCPs (Operational control procedures) will be followed by contractor as per BHEL instructions. This will be done as part of normal scope of work. List of such OCPs is given below. In case any other OCP is found to be applicable during the execution of work at site, then contractor will follow this as well, within quoted rate. These OCPs (applicable ones) will be made available to contractor during work execution at site. However for reference purpose, these are kept with sub-contracting officer of BHEL at PSERHQ/Kolkata, which may be refereed by contractor, if they so desire. OCP for safe handling of chemicals
<u> </u>	OCP for Electrical safetyOCP for energy conservation
	■ OCP for safe welding and gas cutting operation
	 OCP for fire safety OCP for safety in use of hand tools
	OCP for first aid
	OCP for food safety at canteen
	 OCP for safety in use of cranes OCP for storage and handing of gas cylinders
_	OCP for manual arc welding
	■ OCP for safe use of helmets
	OCP for good house keeping
	 OCP for working at height OCP for safe excavation
	OCP for safe filling of Hydrogen in cylinder
	■ OCP for illumination
<u> </u>	OCP for handling and erection of heavy metals
_	 OCP for safe acid cleaning OCP for safe alkali boil out
<u> </u>	OCP for safe oil flushing
	■ OCP for steam blowing
	OCP for safe working in confined area
_	 OCP for safe operation of passenger lift, material hoists & cages OCP for Vehicle maintenance
_	OCP for safe radiography
	■ OCP for waste disposal
	OCP for working at night
<u> </u>	OCP for blastingOCP for DG Set
<u> </u>	OCP for handling & storage of mineral wool
	■ OCP for drilling, reaming and grinding(machining) etc.
	OCP for hydraulic test
	 OCP for spray insulation OCP for trial run of rotary equipment
_	OCP for stress relieving

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	■ OCP for material preservation
	OCP for cable laying/tray work
	■ OCP for electrical maintenance OCP for transformer charging
	OCP for transformer charging OCP for safe handling of battery system
	OCP for computer operation
	OCP for storage in open yard
	OCP for sanitary maintenance
	■ OCP for batching
	OCP for piling rig operation
	OCP for gas distribution test
	 OCP for cleaning of hotwell / deaerator OCP for electro-resistance heating
	OCF for electro-resistance reating OCP for compressor operation
	OCP for O&M of control of AC plant & system
	OCP for air compressor
	■ OCP for passivation
	■ OCP for Safe EDTA Cleaning
	OCP for Safe Chemical cleaning of Pre boiler system
	 OCP for Safe Boiler Light up OCP for Safe Rolling and Synchronisation
	OCP for Safe Loading of Unit
50.2	SAFETY AND CLEANLINESS
	The contractor shall take all necessary safety precautions and arrange for appropriate
	appliances as per discretion of BHEL or its authorised officials (Site Construction Manager)
	to prevent loss of human lives, injuries, to personnel engaged and damage to property.
	Before commencing the work, the contractor shall submit a "Safety Plan" to the above
	authorised BHEL official and obtain approval on the same. The safety plan shall indicate in detail the measures that would be taken by the contractor to ensure safety of men,
	equipment, materials and environment during execution of the work. This will also include
	an organization structure, role and responsibilities of the concerned key personnel, the
	safety practices that will be followed, PPEs deployed, plan for handling critical activities and
50.0	emergencies.
50.3	If the contractor fails to take appropriate safety precautions or to provide necessary safety devices and equipment or to carry out instructions issued by the authorised BHEL official,
	BHEL shall have the right to take corrective steps at the risk and cost of the contractor.
50.4	During the course of construction, alternation or repairs, scrap with protruding nail, sharp
	edge etc and all other debris shall be kept clean from working areas, passage, ways and
50.5	stairs in and around site.
50.5	Combustible scrap and debris shall be removed at regular intervals during the course of execution. Safe means shall be provided to facilitate such removal. The combustible scrap
	should be stored in safe place away from the plant materials to avoid fire accidents. The
	area shall be chosen in consultation with the Engineer and to be cordoned off.
50.6	Rigging equipment for materials handling shall be inspected prior to use in each shift and
	as necessary during its use to ensure that it is safe. Defective rigging equipment will be
50.7	removed from service.
50.7	Rigging equipment shall not be loaded in excess of its recommended safe working load. Rigging equipment, when not in use, shall be removed from the original work area so as not
	to present a hazard to employees.
50.8	Contractor shall notify the engineer, of his intention to bring on to site any equipment or any
	container, with liquid or gaseous fuel or other substance which may create a hazard. The
	Engineer shall have the right to prescribe the condition under which such equipment or
	container may be handled and used during the performance of the works and the contractor
	shall strictly adhere to such instructions. The Engineer shall have the right to inspect any construction tool and to forbid its use, if in his opinion it is unsafe. No claim due to such
	prohibition will be entertained.
50.9	Where it is necessary to provide and/or store petroleum products or petroleum mixture &
	explosives, the contractor shall be responsible for carrying out such provision / storage in
	accordance with the rules & regulations laid down in the relevant petroleum act, explosive
	act and petroleum and carbide of calcium manual, published by the chief inspector of
	explosives of India. All such storage shall have prior approval if necessary from the chief inspector of explosives or any other statutory authority. The contractor shall be responsible
	for obtaining the same.
50.10	Cylinders shall be moved by tilting and rolling them on their bottom edges. They shall not be
	intentionally dragged, struck or permitted to strike each other violently.

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50.11	When cylinders are transported by powered vehicle they shall be secured in a vertical position.				
50.12	All workmen of the contractor working on construction area shall wear safety shoes, hand gloves, safety helmets and safety belt as applicable. The contractor shall provide to its workforce and ensure the use of following personnel protective equipment as found necessary and as directed by BHEL.				
50.12.1	Safety Helmets conforming to IS-2965 : 1984				
50.12.1	Safety Belts conforming to IS-3521:1983				
50.12.3	Safety Shoes conforming to IS-1989 : 1978				
50.12.4	Eye and face protection devices conforming to IS – 8620 : 1977 & IS – 8950 : 1978.				
50.12.5	Hand and body protection devices conforming to IS – 2575 : 1975 and IS – 6994 : 1973, IS – 8907 : 1970 & 8619 : 1977.				
	The contractor shall insure his workmen against all accidents and the policy shall be presented to BHEL Engineer on demand. Other wise, BHEL will arrange the same and the expenditure towards this will be debited to the contractor. In case of a fatal or disabling injury accident to any person at construction site due to lapses by the contractor, the victim and/or his/her dependants 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 contractor and recover the same from payments due to the contractor for suitably compensating the victim and/or his/her dependence before imposing any such penalty. Appropriate enquiry shall be held by BHEL giving opportunity to the contractor for presenting his case. Above safety conditions are not exhaustive but gives an idea for the contractor and contractor shall adhere to all safety precaution given by the				
	Engineer at site.				
50.13	The contractor shall arrange at his cost adequate lighting facilities e.g. flood lighting, hand lamps, area lighting etc. at various levels for safe and proper working operations during night hours at the work spot as well as at the pre-assembly area.				
50.14	The contractor shall be responsible for provision of all the safety notices and safety equipment as enjoined on him by the application of relevant statutory regulation / provisions and/or as called upon by BHEL from time to time. He shall be held responsible for any violation of statutory regulations (local, state or central) and BHEL instruction that may endanger safety of men, equipment and material.				
50.15	The contractor shall provide temporary fencing wherever required as a safety measure against accident and damage to properties. Suitable caution notices shall be displayed where access to any part is found to be unsafe and hazardous.				
50.16	Contractor shall ensure safety of all the workmen, material and equipment either belonging to him or to others working at site. He shall observe safety rules and codes applied by BHEL without exception.				
50.17	It will be the responsibility of the contractor to ensure safe lifting of the equipment, taking due precaution to avoid any accident and damage to other equipment and personnel. All requisite tests and inspection of handling equipment, tools & tackle shall be periodically done by the contractor. Defective equipment shall be removed from service. Any equipment shall not be loaded in excess of its recommended safe working load.				
50.18	The contractor shall provide necessary first aid facilities for all his employees, representatives and workmen at site and BHEL shall have no obligation in this regard. The first aid boxes should be placed at various elevations so as to make them available within the reach and at the quickest possible time. The contractor should conduct periodical first – aid classes to keep his supervisor and Engineers properly trained for attending to any emergency.				
50.19	All the contractor's supervisory personnel and sufficient number of workers shall be trained for fire protection systems. Enough number of such trained personnel must be available during the tenure of contract. Contractor should nominate his supervisor to coordinate and implement the safety measures.				
50.20	Contractor shall provide enough fire protecting equipment of the types and numbers at his office, stores, temporary structure in labour colony etc. Such fire protection equipment shall be easy and kept open at all times. The fire extinguishers shall be properly refilled and kept ready which should be certified at periodic intervals. The date of changing should be marked on the Cylinders. All other fire safety measures as laid down in the "codes for fire safety at construction site" issued by safety coordinator of BHEL shall be followed. Noncompliance of the above requirement under fire protection shall in no way relieve the contractor of any of his responsibility and liabilities to fire accident occurring either to his materials or equipment or those of others.				
50.21	The contractor shall at his cost, remove from vicinity of work at least once each day all combustible waste, scrap, panting materials, rubbish, unused or other materials and deposit				

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carnvas paper, corrugated paper, fabricated carton, plastic or other flammable materials shall be restricted to the minimum and promptly removed. The contractor shall not use any hand lamp energized by Electric power with supply voltage of more than 24 volts in confined spaces like inside water boxes, turbine casings, condensers etc. The contractor shall not use any hand lamp energized by Electric power with supply voltage of more than 24 volts in confined spaces like inside water boxes, turbine casings, condensers etc. The production of the contractor shall have safe plugging system to source of power and be appropriately earthed. Only electricians licensed by appropriate statutory authority shall be employed by the contractor to carry out all types of electrical works. The contractor shall be responsible for the safe storage and handling of his radio-active sources as per BARC rules and regulations. Tarpaulin being inflammable should not be used (instead, only non infusible covering materials shall be used) as protective cover while preheating, welding, stress relieving etc. at site. If the contractor fails to improve the standards of safety in its operation to the satisfaction of BHEL after being igwen reasonable opportunity to do so and/or if the contractor fails to take appropriate safety precautions or to provide necessary safety devices and equipment or to carry out instruction regarding safety issued by BHEL, BHEL shall have the right to take corrective steps at the risk and cost of the contractor sure of the contractor fails to take corrective steps at the risk and cost of the contractor after giving a notice of not less than 7 days indicating thout any quanties to provide prevention of the provide and provide and provide steps that would be taken by BHEL. BHEL shall have the right to take corrective steps at the risk and cost of the contractor sure of the cont		them in places appointed by DLIFL to keep the week site along and tidy. Her of undergoated
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		above ground level or floor level, they shall be closely boarded and shall have adequate

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	width which shall not be less than 750 mm and be suitably fenced as described above.
50.39	Every opening in the floor or a building or in a working platform shall be provided with
00.00	suitable means to prevent the fall of persons or materials by providing suitable fencing or
	railing whose minimum height shall be 90 cm.
50.40	Wherever there are open excavation in ground, they shall be fenced off by suitable railing
	and danger signals installed at night so as to prevent persons slipping into the excavations.
50.41	Safe means of access shall be provided to all working places. Every ladder shall be
	securely fixed. No portable single ladder shall be over 9 m in the length while the width
	between side rails in rung ladder shall in no case be less than app. 29.2 cm for ladder upto
	and including 3 m in length. For longer ladders this width shall be increased at least 1/4" for
	each additional foot of length.
50.42	A sketch of the ladders and scaffolds proposed to be used shall be prepared and approval
	of the Engineer obtained prior to Construction.
50.43	All personnel of the Contactor working within the plant site shall be provided with safety
	helmets. All welders shall wear welding goggles while doing welding work and all metal
	worker shall be provided with safety gloves. Persons employed on metal cutting and
	grinding shall wear safety glasses.
50.44	Adequate precautions shall be taken to prevent danger for electrical equipment. No
	materials on any of the sites of work shall be so stacked or placed as to cause danger or
	inconvenience to any person or the public.
50.45	All trenches, four feet or more in depth, shall at all times be supplied with at least one ladder
	for each 30 m in length or fraction thereof. The ladder shall be extended from bottom of the
	trench to at least 90 cm above the surface of the ground. Sides of the trenches which are
	1.50 m or more in depth shall be stepped back to give suitable slope or securely held by
	timer bracing, so as to avoid the danger of sides collapsing. The excavated materials shall not be placed within 1.5 m of the edges of the trapph or half of the death of the trapph.
	not be placed within 1.5 m of the edges of the trench or half of the depth of the trench whichever is more. Cutting shall be done from top to bottom. Under no circumstances
	undermining or undercutting shall be done.
50.46	The Contactor shall take all measures at the sites of the work to protect all persons from
30.40	accidents and shall be bound to bear the expenses of defense of every suit, action or other
	proceeding at law that may be brought by any persons for injury sustained or death owing
	to neglect of the above precautions and to pay any such persons such compensation or
	which may with the consent of the Contractor be paid to compromise any claim by any such
	person should such claim proceeding be filed against BHEL, the Contractor hereby agrees
	to indemnify BHEL against the same.
50.47	Before any demolition work is commenced and also during the process of the work.
50.47.1	All roads and open areas adjacent to the work site shall either be closed or suitably
	protected.
50.47.2	No electric cable or apparatus which is liable to be a source of danger nor a cable or an
	apparatus used by the operator shall remain electrically charged.
50.47.3	All practical steps shall be taken to prevent danger to persons employed from the risks of
	fire or explosion or flooding. No floor, roof or other part of the building shall be so
50.40	overloaded with debris or materials as to render them unsafe.
50.48	All necessary personnel safety equipment as considered adequate by the Engineer should
	be kept available for the use of the persons employed in the Site and maintained in a
	condition suitable for immediate use and the Contactor should take adequate steps to ensure proper use of equipment by those concerned.
50.48.1	Workers employed on mixing asphalted materials, cement and lime mortars shall be
JU. 1 U. I	provided with protective foot wear and protective goggles.
50.48.2	Those engaged in white washing and mixing or stacking of cement bags or any materials
JU.7U.Z	which is injurious to the eyes shall be provided with protective goggles.
50.48.3	Those engaged in welding works shall be provided with welder's protective eyesight lids.
50.48.4	Stone breakers shall be provided with protective goggles and protective clothing and seated
30.10.1	sufficient to safe intervals.
50.48.5	Where workers are employed in sewers and manholes, which are in use, the Contractor
	shall ensure that the manhole covers are opened and ventilated at least for an hour before
	the workers are allowed to get into manhole, and the manholes so opened shall be
	cordoned off with suitable railing and provided with warning signals or boards to prevent
	accident to the public.
50.48.6	The Contractor shall not employ men below the age of 18 years and women on the work
-	of painting with products containing lead in any form. Wherever men above the age of 18
	are employed on the work of lead painting, the following precautions should be taken.
50.48.6.1	No plaint containing lead or lead products shall be used except in the form of paste or ready
	made paint.
50.48.6.2	Suitably face masks should be supplied for use by the workers where paints are applied in

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	the form of spray or a surface having lead paint dry rubbed and scrapped.
50.48.6.3	Overalls shall be supplied by the Contractor to the workmen and adequate facilities shall be provided to enable the working painters to wash during the cessation of work.
50.49	When the work is being done near any place where there is risk of drowning all necessary equipment should be provided and kept ready for use and all necessary steps taken for
	prompt rescue of any person in danger and adequate provision should be made for prompt first aid treatment of all injuries likely to be sustained during the course of the work.
50.50	Motors, gearing, transmission, electric wiring and other dangerous parts of hoisting appliances should be provided with efficient safe guards. Hoisting appliance should be
	provided with such means as will reduce to the minimum the risk of any part of a suspended
	load becoming accidentally displaced. When workers employed on electrical installations which are already energized, insulting mats, wearing apparel, such as gloves, sleeves and
	boots as may be necessary should be provided. The worker should not wear any rings, watches and carry keys or other materials which are good conductor of electricity.
50.51	All scaffolds, ladders and other safety devices mentioned or described herein shall be
	maintained in safe condition and no scaffold, ladder or equipment shall be altered or removed while it is in use. Adequate washing facilities should be provided at or near the places of work.
50.52	The contractor shall maintain and ensure necessary safety measures as required for
	inspection and tests HV test, Pneumatic test, Hydraulic test, Spring test, Bend test etc as applicable, to enable. inspection Agency for performing Inspection. If any test equipment is
	found not complying with proper safety requirements then the Inspection Agency may
50.53	withhold inspection, till such time the desired safety requirements are met. The Contractor shall notify BHEL of his intention to bring to site any equipment or material
30.33	which may create hazard. BHEL shall have the right to prescribe the conditions under which
	such equipment or materials may be handled and the contractor shall adhere to such instructions. BHEL may prohibit the use of any construction machinery, which according to
	instructions. BHEL may prohibit the use of any construction machinery, which according to him is unsafe. No claim for compensation due to such prohibition will be entertained by
50.54	BHEL.
50.54	All safety precautions shall be taken for welding and cutting operations as per IS-818. All safety precautions shall be taken for foundation and other excavation marks as per IS-3764.
50.55	These safety provisions should be brought to the notice of all concerned by display on a
	notice board at a prominent, place at work spot. The persons responsible for compliance of the safety code shall be named therein by the Contractor.
50.56	To ensure effective enforcement of the rules and regulations relating to safety precautions
	the arrangement made by the contract shall be open to inspection by the Engineer of the Engineer's Representative.
50.57	Keeping the work area clean/ free from debris, removed scaffoldings, scraps,
	insulation/sheeting wastage /cut pieces, temporary structures, packing woods etc. will be in the scope of the contractor. Such cleanings has to be done by contractor within quoted rate, on daily basis by an identified group. If such activity is not carried out by contractor / BHEL
	is not satisfied, then BHEL may get it done by other agency and actual cost alongwith BHEL overheads will be deducted from contractor's bill. Such decisions of BHEL shall be
50.58	binding on the contractor. Notwithstanding the above clauses there is nothing to exit the Contractor from the
	operations of any other Act or Rule in force in area of work in this respect.
	Provided always that all safety measures apart from those specifically provided in this agreement which are brought to the notice of the Contractor from time to time by the
	Engineer shall be complied by the Contractor. Provided further that all consequences,
	damages, or losses arising by reason of any safety code shall be met with by the
50.59	Contractor. GENERAL REQUIREMENTS OF QUALITY ASSURANCE
	Contractor's Engineers and supervisors shall be adequately qualified and also inclined to do
	a quality job. Contractor will designate one of their engineers as Quality Assurance Engineer. The Quality Assurance Engineer shall co-ordinaate all aspects of quality
	control, inspection, implementation of quality assurance procedures laid down in Quality
	Plan and technical specification by BHEL. He shall fill up quality assurance logsheets / formats and submit to BHEL for joint inspection and acceptance.
50.59.1	The contractor shall adopt suitable quality assurance programme to control activities as
	necessary. Such programme shall be outlined by the contractor and shall be finally accepted by the BHEL/Owner. A quality assurance programme of the contractor shall
E0 E0 4 4	generally cover the following:-
50.59.1.1	His organisation structure and qualification data of key personnel for the management and implementation of the proposed quality assurance programme.

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50.59.1.2	System for site erection control including process controls and fabrication and assembly controls.					
50.59.1.3	Control of non-conforming items and system for corrective actions.					
50.59.1.4	Inspection and test procedure for all site related works.					
50.59.1.5						
	intervals.					
50.59.1.6						
50.59.1.7	System for indication and appraisal of inspection status.					
50.59.1.8	System for maintenance of records.					
50.59.2	All materials, components and equipment covered under this specification shall be					
	erected, commissioned and tested at all the stages, as per a comprehensive Quality					
	Assurance Programme.					
50.59.3	Quality audit/approval of the results of tests and inspection will not prejudice the right					
	of BHEL to reject an equipment not giving the desired performance after erection and shall					
	not in no way limit the liabilities and responsibilities of the Contractor in earning satisfactory					
	performance of equipment as per specification.					
50.59.4	Repair/rectification procedures to be adopted to make any job acceptable shall be					
	subject to the approval of BHEL/ Owner.					
50.59.5	Filling up of different quality log sheets as desired and directed by BHEL/owner at					
	different stages of inspection of erection & commissioning activities after due checking by					
54.0	BHEL/owner and get the same signed by concerned engineers.					
51.0	LIST OF STANDARDS FOR REFERENCE					
51.1	International Standards Organisation (ISO).					
51.2	International Electro-technical Commission (IEC).					
51.3	American Society of Mechanical Engineers (ASME).					
51.4	American National Standards Institute (ANSI).					
51.5 51.6	American Society for Testing and Materials (ASTM).					
51.6	American Institute of Steel Construction (AISC).					
51.7	American Welding Society (AWS). Architecture Institute of Japan (AIJ).					
51.9	National Fire Protection Association (NFPA).					
51.10	National Electrical Manufacturer's Association (NEMA)					
51.10	Japanese Electro-technical Committee (JEC).					
51.12	Institute of Electrical and Electronics Engineer (IEEE).					
51.13	Federal Occupational Safety and Health Regulations (FOSHR).					
51.14	Instrument Society of America (ISA).					
51.15	National Electric Code (NEC).					
51.16	Heat Exchanger Institute (HEI).					
51.17	Tubular Exchanger Manufacturer's Association (TEMA).					
51.18	Hydraulic Institute (HIS).					
51.19	International Electro Technical Commission Publications.					
51.20	Test Code for Steam Turbines (PTC).					
51.21	Applicable German Standards (DIN).					
51.22	Applicable British Standards (BS).					
51.23	Applicable Japanese Standards (JIS).					
51.24	Electric Power Research Institute (EPRI).					
51.25	Standard of Manufacturer's Standardization Society (MSS).					
51.26	Bureau of Indian Standards Institution (BIS).					
51.27	Indian Electricity Acts & Rules.					
51.28	Indian Boiler Regulations (IBR).					
51.29	Indian Explosives Act.					
51.30	Indian Factories Act.					
51.31	Tariff Advisory Committee (TAC) rules.					
51.32	Emission regulation of Central Pollution Control board (CPCB).					
51.33	Central Board of Irrigation and Power (CBIP) Publications.					
51.34	Any other statutory Codes / Standards/Regulations.					

TENDER DOCUMENT NO: PSER:SCT:BDG: C 719:07

VOLUME - I E

(FORMATS & ANNEXURES)

FOR

Renovation of Chumery building, construction of soakpits, under ground masonry / concrete works, tiling, sanitary works and other miscellaneous civil & electrical works etc.

ΑT

1 X 250 MW Budge-Budge Generating station extension Unit-3 of CESC

PO - PUJALI

DIST – 24 Parganas (S)

WEST BENGAL

BHARAT HEAVY ELECTRICALS LIMITED
(A Govt. Of India Undertaking)
POWER SECTOR – EASTERN REGION
DJ-9/1, SALT LAKE CITY, SECTOR-II,
KOLKATA – 700 091

ANNEXURE - A DECLARATION SHEET

I/We, hereby declare and confirm
that we have visited the project site, namely, site, under specification no <u>PSER:SCT:</u> , issued by M/S BHARAT HEAVY ELECTRICALS LIMITED, POWER SECTOR-EASTERN REGION, KOLKATA, and acquired full knowledge and information about the site conditions including the law & order and other conditions prevalent at and around site. We further confirm that the above information is true and correct and we will not raise any claim of any nature due to lack of knowledge of site conditions.
I/We, hereby offer to carry out work as detailed in above mentioned tender specification, in accordance with terms & conditions thereof.
I/We, have carefully perused the following documents connected with the above specification and agree to abide by the same:
 Volume I, II and III of tender specification. Other sections, annexures, schedules, documents etc.
I/We, further confirm that I/we have not changed/tampered the tender document downloaded from the BHEL's website <u>{ www.bhel.com or www.jantermanter.com}</u> and in case any change from the tender document published in the website is detected at a later date in the signed copy of the same submitted by us along with the offer, the same shall stand null and void and the terms and conditions of the tender as published in the above mentioned BHEL website shall only prevail .
I/we, further certify that Sri is authorised to represent on behalf of me/us for the above mentioned tender and a this effect is also enclosed.
I have deposited/forwarded herewith the earnest money deposit in the form prescribed and as stipulated towards earnest money deposit for a sum of Rs (Rupees only) vide BHEL cash receipt No, dated, Call deposit no, dated, Demand draft no, dated, which shall be refunded should our offer not be accepted. I/we further agree to deposit such additional sum which along with the sum of Rs (Rupees only) mentioned above, shall make up the security deposit for the work as provided for in the tender specification within the stipulated time as may be indicated by BHEL, Power Sector, Eastern Region, DJ-9/1, Sector-II, Salt Lake, Kolkata - 700 091.
I/We, further agree to execute all the works referred to in the said documents upon the terms and conditions contained or referred to therein and as detailed in the annexure enclosed thereto.
Date: Tenderer:

Address:

Place:

Wi	tnesses with their a	addresses	
	Signature	Name	Address
1.			
2.			
3.			

Authorised representative's signature with name and address:

<u>ANNEXURE - B</u> <u>GENERAL INFORMATION ABOUT TENDERER</u>

FORMAT I - ORGANISATION STRUCTURE

1. Management structure of the firm

Whether Public Limited/Private Limited/Proprietorship:

2. Details of staff presently on permanent roll of organisation

A1	Name of site in-charge	
A2	Qualification and experience	

b) Engineering staff:

	No. of	Designation	Specialists, if	Qualificat	State no.,	Remarks
SI no	Officials		any (indicate	ion with	proposed	, if any
			the area of		to be	
			specialization	ce	deployed	
1	2	3	4	5	6	7

c) Details of technical staff:

SI no	Category	Total no on roll	Nos proposed to be deployed at site for this job
1	Supervisors/Foreman		
2	Storekeepers		
3	Crane Operators		
4	Compressor Operator		
5	Mill Wright Fitter		
6	Mill Fitters		
7	Instrument Fitter		
8	Electrician		
9	Sarang		
10	Rigger		
11	Carpenter		
12	Painter		
13	Tinsmith		
14	Sheet metal fabricator		
15	Pipe fabricator		
16	Cable jointing		
17	Light Vehicle Driver		
18	Heavy vehicle Driver		
19	Others		

d) Please indicate how you propose to ensure quality of work at site.

FORMAT II - FACILITIES FOR STAFF AND WORKERS AT SITE

1. Accomm	nodation				
a) For Er	ngineers/supervisc	ors/other staff			
SI. No.	Category	Type of accommodation	Facilities provided	Remarks	
		area of each quart structed for workn			
2. Medical					
3. Conveya	ance				
4. Other ar	menities				
			Signatur	e of the tenderer	

ANNEXURE - C

PROFORMA OF FINANCIAL VIABILITY

-	
1	Owner's capital in the business (in case
	of Partnership, please mention percentage
	shares and amounts).
2	Quantum of business done during last three
	financial years.
	a.
	b.
	C.
3	Value of fixed assets of the business in last
	three years.
	a.
	b.
	C.
4	Guarantee limits (if any) enjoyed by the firm.
5	Over draft limits (if any) enjoyed by the firm.
6	Please enclose audited profit and loss
	account and balance sheet for last three
	years (indicate no of sheets).
7	Certificate from Scheduled Bank to prove
	contractor's financial capacity to
	undertake the work duly indicating the
	financial limits the tenderer enjoys.
Note:	All the above documents should be
	duly certified by auditors /bank as may be
	applicable.
	approduct.

<u>ANNEXURE - D</u>

ANALYSIS OF SIMILAR JOBS EXECUTED/IN PROGRESS

SI	Agen	Loc	Capa	Scope	Date	Contract	_	Date of			Details of	Consumables
N	cy by	atio	city	of work	of	value in	work	completion	skilled	Engrs. &	Major	
0	who	n	and	and	award	Rs. Lacs	complete	if job is	/unskille	Sup.	T&Ps	
	m	of	unit	tonnag			d& due	already	d	deployed	deployed	
	awar	pro	no	е			date for	over	workers			
	ded	ject					compln		deployed			
1	2	3	4	5	6	7	8	9	10	11	12	13

<u>ANNEXURE - E</u>

MONTHWISE MANPOWER DEPLOYMENT PLAN

[INDICATE NO. OF PERSONS TO BE DEPLOYED IN EACH MONTH.]

SL. NO.	CATEGORY	MONT H-1	MON TH-2	MON TH-3	MON TH-4	MON TH-5	MON TH-6	MON TH-7	SO ON	

ANNEXURE - F

STATUS OF T&P AND DEPLOYMENT PLAN

A. STATUS OF TOOLS AND PLANTS

SL NO	NAME OF EQPT.	QTY. OWNED	REGISTRATIO N NO. WHEREVER APPLICABLE	DOCUMENTS ENCLOSED FOR PROOF OF OWNERSHIP	PRESENT LOCATION	QTY. PROPOSED TO BE DEPLOYED FOR THIS JOB

B. MONTHWISE T&P DEPLOYMENT PLAN

[INDICATE NO. OF PERSONS TO BE DEPLOYED IN EACH MONTH.]

SL. NO.	CATEGORY	MONT H-1	MON TH-2	MON TH-3	MON TH-4	MON TH-5	MON TH-6	MON TH-7	SO ON	

ANNEXURE - G

ANALYSIS OF QUOTED RATE

SI no.	Description	Percentage of quoted rate	Remarks
1	Salary & wages of staff and workers		
2a	Consumables		
2b	Gases		
2c	Welding Electrodes		
2d	P.O.L.		
2e	Others		
3	Depreciation and maintenance for T&P		
4	Depreciation and Maintenance for Other items		
5	Establishment and administration expenses of site		
6	Overheads		
7	Profit		

CHECKLIST OF GENERAL PARTICULARS

Note:	Tenderers are requested to fill in the following de column should be left blank.	tails and no
1	Name and address of the tenderer	
2	Telegraphic/Telex address	
3	Phone no/FAX no (Office)	
4	Details about type of the firm/company	
5	Name and designation of the official of the : Tenderer	
6	Attested copy of the Power of Attorney	
7	Tenderers proposal no and date	
8	Whether EMD submitted and submission details	
9	Declaration sheet (in the format of Annexure - A)	
10	Details of experience (in the format of Annexure - D)	
11	Monthwise & categorywise manpower deployment :	
10	plan (in the format of Annexure - E)	
12	Status of T&P and monthwise deployment plan: (in the format of Annexure - F)	
13	Financial status (in the format of Annexure - C)	
14	Valid Income tax celearance certificate	
15	Analysis of rate quoted (in the format of : Annexure - G)	

Date	Signature of the tendere (with company seal)
Witness (signature with full	ll particulars)
1.	

ANNEXURE - I FORMAT FOR BANK GUARANTEE FOR SECURITY DEPOSIT(SD)

(TO BE EXECUTED ON APPROPRIATE NON-JUDICIAL STAMP PAPER (Minimum Rs. 100)
(APPROPRIATE DATA SHALL BE FILLED-IN AGAINST THE FIELDS, SHOWN IN
ITALICS & BOLD WITHIN BRACKET)

SECURITY DEPOSIT

In consideration of the BHARAT HEAVY ELECTRICALS LIMITED (a Government of India Undertaking) having its registered office at BHEL HOUSE, Siri Fort, New Delhi - 110 049 through its division at Plot no.9/1, DJ Block, Sector -II, Salt Lake City,
kolkata 700 091.(hereinafter called `the Company') having agreed to exempt (hereinafter called `the said Contractor/s') from the demand, under the
terms and conditions of an Agreement arising out of letter of intent issued under no
, dated, made between the Company and
Contractor for (NAME OF WORK) (hereinafter called `the said Agreement') of
Security Deposit for the due fulfilment by the said Contractor/s of the terms and
conditions contained in the said Agreement, on production of a Bank Guarantee for Rs
(Rupees only), we (NAME OF BANK), (hereinafter
referred to as `the Bank') at the request of (CONTRACTOR/s) do hereby undertake to
pay to the Company an amount not exceeding Rs (Rupees
only) against any loss or damage caused to or
suffered or would be caused to or suffered by the company by reason of any breach
by the said Contractor/s of any of the terms or conditions contained in the said Agreement.
04 W (NAME OF BANK)

- We (NAME OF BANK) do hereby undertake to pay the amounts pay the 01. amounts due and payable under this guarantee without any demur, merely on a demand from the company stating that the amount claimed is due by way of loss or damage caused to or would be caused to or suffered by the company by reason of breach by the said Contractor/s of any of the terms or conditions contained in the said agreement or by reason of the Contractor's/s' failure to perform the said Agreement. Any such demand made on the Bank shall be conclusive as regards the amount due and payable by the Bank under this guarantee. However, our liability under this guarantee shall be restricted to an amount not exceeding Rs (Rupees ____ only).
- 02. We undertake to pay to the company any money so demanded not withstanding any dispute or disputes raised by the Contractor(s)/Supplier(s) in any suit or proceeding pending before any Court or Tribunal relating thereto our liability under this present being absolute and unequivocal.
- 03. The payment so made by us under this bond shall be valid discharge of our liability for payment there under and the Contractor(s)/Supplier(s) shall have no claim against us for making such payment.

- 04. We, (NAME OF 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 that it shall continue to be enforceable till all the dues of the Company under or by virtue of the said Agreement have been fully paid & its claims satisfied or discharged or till the Company certifies that the terms and conditions of the said Agreement have been fully and properly carried out by said Contractor(s) and accordingly, discharges this guarantee. Unless, a demand or claim under this guarantee is made on us in writing on or before (date) we shall be discharged from all liability under this guarantee therafter.
- O5. We, (NAME OF THE BANK) further agree with the Company that the Company shall have the fullest liberty without our consent and without affecting in any manner our obligation hereunder to vary any of the terms and conditions of the said Agreement or to extend time of performance by the said Contractor(s) from time to time or to postpone for any time or from time to time any of the powers exercisable by the Company against the said Contractor(s) and to forbear or enforce any of the terms and conditions relating to the said Agreement and we shall not be relieved from our liability by reason of any such variation, or extension being granted to the said Contractor(s) or for any forbearance, act or commission on the part of the Company or any indulgence by the Company to the said Contractor(s) or by any such matter or thing whatsoever which under the law relating to sureties would, but for this provision, have effect of so relieving us.
- O6. This guarantee will not be discharged due to the change in the Constitution of the Bank or the Contractor(s), Supplier (s).
- 07. The guarantor hereby declare that it has power to execute this guarantee and the executant has full power to do so on its behalf under the proper authority granted to him/them by the guarantor.
- 08. We, **(NAME OF THE BANK)** lastly undertake not to revoke this guarantee during its currency except with the previous consent of the Company in writing.

Dated the day of

(NAME OF THE BANK)

NOTE: Expiry date to be shown in para-4 above should not be earlier than 60 days after the completion date contemplated under the contract.

ANNEXURE - J

PROFORMA FOR CONTRACT AGREEMENT

Agreement No	: PSER:SCT	·:	Date:	
Name of the work	:			
Name of the contractor with full address	:			
Amount of tender	: Rs.	/- (Rupees		only)
LOI No. : PSER: SO	CT:	, dated		
Work order No.	: PSER:SCT	¯:	, dated	
Time alloted for completing work	:() months from	start of work	
FOR CONTRACTOR		FOR BHARA	T HEAVY ELECTRICALS LTD	

CONTRACT AGREEMENT

Ag	reement No: PSER:SCI: , Dated:	
1.	This agreement made this day the, 200_ between Br Heavy Electricals Limited, Power Sector, Eastern Region, Kolkata 091, having its registered office at BHEL House, Siri Fort, New Delhi 110 (hereinafter called the FIRST PARTY) of one part and Messers of the "CONTRACTOR") of the second part.	-700 049
2.	Whereas the first party is desirous of executing the work, more particularly described in the appendices including specification attached herewith.	
3.	Whereas in pursuance of the said contractor's tender having been accepted, the first party has decided to give the above said work to the contractor.	
4.	Whereas the said contractor has agreed to do the aforesaid work of the first party subject to the conditions herein contained in these presents, instructions to tenderers, general conditions and special conditions, schedules appendices, Letter of intent, Work order and specifications (hereinafter referred as the said contract rate).	
5.	from the bills forthwith in one instalment and it has further been agreed that the failure to extend the validity of the Bank guarantee or failure to pay the aforesaid amount in the manner specified above shall constitute the breach of contract, and first party reserves the right to take any	/-
	legal action deemed fit for recovering the said sum of Rs (Rupees only).	

6. NOW THESE PRESENTS WITNESS that in consideration of the said contract schedule and said contract rate, as also of agreement of good and

faithful service to be rendered and performed by the contractor in the execution of the said work, subject to the stipulation hereinafter expressed.

7. That the said contractor will perform the aforesaid work subject to the condition contained in these presents, instructions to tenderers,

general and special condition of contract and the contract document attached herewith including the said schedules, specifications, appendices, Letter of intent, Work order attached and also such other drawings and instructions as may from time to time be given by the first party. And that the said contractor shall be deemed to have carefully examined, the specifications and conditions of contract, appendices, schedules, Letter of intent, Work order, drawings etc as aforesaid and also to have satisfied himself as to the nature and character of the work to be executed.

- 8. That the said contractor shall carry out the complete execution of the said work to the entire satisfaction of the engineer within the agreed time schedule.
- 9. 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 the said contract rate and agreed terms of payment, a sum as determined by the first party in respect of the work executed by the contractor.
- 10. That the contract shall come into force with retrospective effect 199___, the date which the letter accepting the tender (Letter/Telex of Intent) has been issued to the said contractor. However start of work shall be as defined in the tender specification.
- 11. That whenever under this contract or other wise, any sum of money shall be recoverable from or payable by the contractor, the same may be deducted in the manner as set out in the conditions of contract as aforesaid.
- 12. That all charges on account of octroi, terminal and sales tax or other duties on materials obtained for the works shall be borne by the said contractor.
- 13. That 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.
- 14. That the expression BHEL wherever occurring means THE BHARAT HEAVY ELECTRICALS LIMITED, POWER-SECTOR, EASTERN REGION, KOLKATA 700 091.

15. The documents hereto attached viz:						
(1) BHEL's tender specification No:						
(2) Contractor's offer No:, dated						
(3) BHEL's TOI/LOI No:, dated						
(4) Contractor's unqualified acceptance letter no:, dated of BHEL's TOI/LOI.						
(5) BHEL's Work Order No:, dated						
 (6) Contractor's unqualified acceptance letter no						
the presence of :						
FOR CONTRACTOR						
WITNESS 1.						
2. FOR BHARAT HEAVY ELECTRICALS LIMITED						
WITNESS						
1.						
2.						

BHEL:PSER

FORMAT NO SP:03-F02, REV NO 01	PAGE 01 OF 02
REF NO	
DATE	

RATING/ EVALUATION OF SUBCONTRACTOR (CONFIDENTIAL, TO BE USED BY BHEL AND SHALL NOT TO BE USED BY VENDOR)

REPORTING PERIOD: APRIL (YEAR) TO MARCH (YEAR)

(1st report to be submitted on completion of 6 months from date of commencement of work or earlier, if required. Thereafter, successive report shall be sent in the month of March every year)

A OFN	EDAI.							
A. GEN		<u> </u>						
1.0	Name of the subcontractor							
2.0	Nature of work	Boiler/ turbine/ C&I/ electrical/ civil/ transportation/ insulation/ SAS (Specify if any other)				ation/		
3.0	LOI/ WO/ PO no, date & value							
4.0	Scheduled completion							
5.0	Status of completion as in March	200_	(0-30%), (3	31% to	70%)	, (71%	to 10	0 %)
6.0	Expected completion							
	Reason for delayed complet subcontractor (List).	ion attributable to						
6.1	, ,							
6.2								
6.3								
B) CAP	ABILITY TO PERFORM	•						
1.0	Provision of labour vis-a-vis con deficiencies).	tract requirement (spe	ecify major	01	02	03	04	05
2.0	Management of labour (specify management)	ajor deficiencies).		01	02	03	04	05
NOTE:	Please put "X" mark in the appropris	ate score box.						
3.0	Industrial relations at site (Specify		y labour of	01	02	03	04	05
	the subcontractor).							
4.0	Quality of output of work. (Specify frequency of rework involved, if 02 04 06				08	10		
	any, in no).							
5.0	Technical capability (Supervisory staff). 02 04 06				08	10		
6.0	Fulfillment of HSE requirements on					•		
6.1	Health check up for occupational diseases (for workmen).					Yes	No	
6.2	HSE related training to workmen.					Yes	No	
6.3	Compliance of usage of PPEs by workmen.					Yes	No	
6.4	Illumination, noise, ambient air & drinking water facilities for workmen.					Yes	No	
6.5	Provision of canteen, washing facilities & rest room (for employees working at night) for workmen.							
6.6	No of accidents.							•
6.6.1	Fatal.							
6.6.2	Non-fatal.							
6.7	Provision of T&P including cal	ibrated IMTE vis-à-vi	s contract	02	04	06	08	10
	requirements (Specify major defic							
6.8	Provision of consumables (Specify	y reasons for delays, if	any).	02	04	06	08	10
6.9	Provisions of funds for site operation.		01	02	03	04	05	
6.10	Payment of wages.		01	02	03	04	05	
6.11	Tendency to raise claims for extra	work.		01	02	03	04	05
6.12				02	03	04	05	
C. OTH	ERS			•	•			•
1.0	Adherence to schedules (Specify	shortfalls, if any).		01	02	03	04	05

	1							
2.0	Co-operation with							
2.1	BHEL.			01	02	03	04	05
2.2	Other subcontractor.			01	02	03	04	05
2.3	Maintenance of BHEL provided T&P.			01	02	03	04	05
2.4	Financial powers delega	ited to site.		01	02	03	04	05
NOTE								
(i)	In the above scales							
	01 denotes - Not satisfa	ctory.						
	02 denotes - Fair.	•						
	03 denotes - Good.							
	04 denotes - Very Good							
	05 denotes - Excellent.							
(ii)	02 denotes - Not satisfa	ctory.						
	04 denotes - Fair.	,						
	06 denotes - Good.							
	08 denotes - Very Good							
	10 denotes - Excellent.	•						
(iii)		ng shall be given based o	n summation of ind	ividua	l noint	s R &	C	
(iv)		HSE. Indicate Yes/ No ac						"Yes"
(10)		dicate 1 mark while "No" w						
		ne sub-contractor for point		. Auui	tion of	(0.1)	10 (0.0	J) WIII
ΕVΔΙΙΙ	ATION OF SUBCONTRA		110 00.					
	core obtained.	CTOR						
	performance.	Excellent/ Very Good/ Gr	ood/ Egir/ Not Satist	factor	,			
	nt (80 - 100).	Excellent/ Very Good/ Go		iacioi	у.			
		Performance better than	•					
	ood (60 - 79).	Performance satisfactory		pectai	ion.			
	40 - 59).	Performance just satisfac						
Fair (30	,	Performance below satis	factory level but sco	ope ex	KISTS TO	or impi	ovem	ent.
	isfactory (Below 30).	Not fit for such job.						
Remark								
(i)	Training recommended for							
(ii)	Any other aspect requirin	g special mention (state b						
Date:		S	Signature					
		Γ	Name					
			land of One mating of	S = 4! = .	_			
		r	Head of Operating S	ectio	n		_	
		-	Dooley of los	Cito				
		L	Designation	_ ડાલ			_	
Agrood	to above.							
Agreed	to above.							
Cianatu	Cignotius of Cita in charge							
Signature of Site-in-charge(Any disagreement at site needs to be resolved before forwarding of this report)								
		to be resolved belote tolk	arding or this report	·)				
Agreed/ not agreed to above.								
Signatu	ire of Head / PMX / SAS _							
Signatu	IIE UI I IEAU / FIVIA / SAS _							
To: Ucc	ad / SCT, PSER							
10.1166	au / 00 i , i 0Ll\							