



2023

**BHARAT HEAVY ELECTRICALS LIMITED
SOLAR BUSINESS DIVISION, BENGALURU
TENDER DOCUMENT**

Name: A K Jaiswal

Designation: Dy. Manager/WCC

BHEL- SBD, Bengaluru



NOTICE INVITING TENDER

1. BHEL/ SBD (A Govt. of India Enterprise) invites Tender for engaging a Contractor for **“Erection of SCB supporting structure in Ph-01 & Ph-02 at 2X100MW Raghnesda solar PV plant, Gujarat”**.
2. The enquiry has been floated through e-procurement and offers shall be accepted through e-procurement only. BHEL shall neither entertain offers through hard copy nor provide any due date extension on account of the same. Interested vendors who do not have login ID and password are requested to register themselves on <https://eprocurebhel.co.in> through “Online Bidder Enrolment” link available on the portal.
3. Class-III, SHA2 2048 BIT – Signing & Encryption, Digital Signature Certificate (DSC) is required for bidders for authentication purpose (log in and bid submission). Vendors, who do not possess the DSC, are requested to obtain the same. The procedure for obtaining DSCs is detailed in the “Seller Manual” available on the above-mentioned website.

Tender reference No: 380548

For all clarifications/ issues related to the tender, please contact:

(i) Commercial:

Mr. AK Jaiswal, Dy. Manager / Works Engineering Contract, BHEL-SBD,

Prof CNR Rao Circle, IISc Post, Malleswaram, Bengaluru- 560 012

E-MAIL: ajaiswal@bhel.in

Ph. No. +91-080-2218-2246 Or

Mr. Vinay Kumar, AGM / Works Contract Cell, BHEL-SBD,

Prof CNR Rao Circle, IISc Post, Malleswaram, Bengaluru- 560 012

E-MAIL: vinay@bhel.in

Ph. No. +91-080-2218-2251

(ii) Technical:

Mr. R Palani Kumar, Manager/PV-Civil

BHEL-SBD, Prof CNR Rao Circle, IISc Post, Malleswaram, Bengaluru- 560 012

E-MAIL: palanikumar@bhel.in

Ph. No. +91-080-22184840 Or

Mrs. Punam Mishra, DGM/ PV-Engg

BHEL-SBD, Prof CNR Rao Circle, IISc Post, Malleswaram, Bengaluru- 560 012

E-MAIL: punammishra@bhel.in

Ph. No. +91-080-22182328



TENDER DOCUMENT

PART – A

VOLUME - I

| | |
|----|-----------------------------|
| 1. | GENERAL INFORMATION |
| 2. | SCOPE OF WORK |
| 3. | PRE- QUALIFICATION CRITERIA |
| 4. | OTHERS ELIGIBILITY CRITERIA |
| 5. | PRICE VARIATION CLAUSE |
| 6. | PAYMENT TERMS |
| 7. | ANNEXURES |



| | | |
|-------|--|--|
| 1. | General Information | |
| 1.1. | Tender Reference Number: | 380548 |
| 1.2. | Tender Name: | Erection of SCB supporting structure in Ph-01 & Ph-02 at 2X100MW Raghanesda solar PV plant, Gujarat |
| 1.3. | Tender System | Single Stage, Two Part Bid Part – A: Techno-Commercial & PQR Part – B: Price Bid |
| 1.4. | Tender Type | Works Contract |
| 1.5. | Estimated Value of Contract | Rs 42,02,341 /- (Plus applicable GST extra) |
| 1.6. | Duration of Contract | 30 Days |
| 1.7. | Qualifying Requirement | As per NIT Terms & Conditions |
| 1.8. | Earnest Money Deposit to accompany Tender | Rs 84,047/- in the form of a crossed Demand Draft/EFT favoring BHEL-SBD, Bengaluru. If submitted through DD, the DD in original should reach to the office of undersigned within 7 days of Part A bid opening. NO EXEMPTION OF EMD FOR MSEs/ Start-ups since it's a Works Contract. |
| 1.9. | Security Deposit | 5 % of the contract value |
| 1.10. | Cost of Tender documents | NIL |
| 1.11. | Issue of tender documents | As per Enquiry / RFQ / Notification on www.bhel.com & https://eprocurebhel.co.in |
| 1.12. | Pre- BID Meeting | As per Enquiry / RFQ / Notification on www.bhel.com & https://eprocurebhel.co.in |
| 1.13. | Last date for Issue of tender documents | As per Enquiry / RFQ / Notification on www.bhel.com & https://eprocurebhel.co.in |
| 1.14. | Last date for submission of tender doc | As per Enquiry / RFQ / Notification on www.bhel.com & https://eprocurebhel.co.in |
| 1.15. | Date and time of opening of Tender (Part-A) | As per Enquiry / RFQ / Notification on www.bhel.com & https://eprocurebhel.co.in |
| 1.16. | Tender Submission Place | Online at https://eprocurebhel.co.in |
| 1.17. | Tender Opening Place | Online at https://eprocurebhel.co.in |
| 1.18. | Dealing Officer (For any Clarifications) | Ajeet Kumar Jaiswal, Dy. Manager – Works Contract Cell Contact No.: 080-2218-2246 Email: ajaiswal@bhel.in |
| 1.19. | Reverse Auction | BHEL shall be resorting to Reverse Auction (RA) (Guidelines for Reverse Auction – 2021 as available on www.bhel.com) for this tender. RA shall be conducted among the techno commercially qualified bidders. Price bids of all techno-commercially qualified bidders shall be opened and same shall be considered for RA. In case any bidder(s) do(es) not participate in online Reverse Auction, their sealed envelope price bid along with applicable loading, if any, shall be considered for ranking. |
| 1.20. | Bid participation note | Firms debarred/Banned by BHEL are not eligible to participate in the tender. Any bidder on whom Show Cause Notice / Risk & Cost action initiated/ implemented in last 2 years from tender opening date are not eligible for participation in this tender. The tender envelope submitted by such a firms/ bidder will not be considered for evaluation and no communication in this regard will be entertained. |
| 2. | SCOPE OF WORK | |
| 2.1. | Erection of SCB supporting structure in Ph-01 & Ph-02 at 2X100MW Raghanesda solar PV plant, Gujarat. Details Scope of work as per Annexure -I | |
| 3. | PRE- QUALIFICATION CRITERIA | |
| 3.1. | <p>1. The bidder should have experience in successfully completed/executed MMS pilling (or) other short pilling works with structural erection, during last 7 years ending last day of month previous to the one in which applications are invited. The experience should be either of the following:</p> <p>a) Three similar completed works costing not less than the amount equal to Rs. 16.81 Lakhs /- (Excl. GST) each. OR b) Two similar completed works costing not less than the amount equal to Rs. 21.01 Lakhs /- (Excl. GST) each. OR</p> | |



| | |
|------|--|
| | <p>c) One similar completed work costing not less than the amount equal to Rs. 33.62 Lakhs (Excl. GST).</p> <p>Notes: “Bidder to submit the following documents as proof of completion or execution of similar work: i) The term “Similar works” means “MMS pilling (or) other short pilling works with structural erection”. ii) Proof for Past Experience and Project Experience: For fulfilling the experience criteria any one of the following documents may be considered as valid proof for meeting the experience criteria: a) Contract/Work order/PO copy along with end customer certified Invoice(s) with self-certification by the bidder that works against the invoices have been executed. b) Bidders claim for qualification shall be supported by work completion/execution certificate/Experience certificate with contract/executed value issued by employers or end-customer/end-user. Only works executed under direct contract shall be considered. Works executed under sub-contracts shall NOT be considered, unless there is certification from end-customer/end user. Work completion/execution/experience certificate must clearly mention date of issue, start and end date of work, value of work completed/executed. iii) The term ‘executed’ means the bidder should have achieved the criteria specified in the PQR even if the total contract has not been completed or closed.</p> |
| 3.2. | <p>Average Annual Financial turnover during the last 3 years ending 31st March of the previous financial year, should be at least Rs. 12.61 Lakhs/- excl. of GST. Audited Balance sheet and profit& Loss account OR Turn over Certificate from Chartered Accountant to be enclosed for the FY 20-21, 21-22 and 22-23. Note: If Audited Balance sheet and profit& Loss account OR Turn over Certificate from Chartered Accountant is not available for FY 2022-23, then same for FY-2019-20 to be submitted for TO calculation for last 3 years.</p> |
| 4. | OTHERS ELIGIBILITY CRITERIA |
| 4.1. | The bidder shall also mention the PAN Number issued by Income Tax Department, copy of the PAN card or PAN number allotment letter shall be submitted along with the tender documents. |
| 4.2. | A copy of GST to be submitted. |
| 4.3. | Bidder to submit declaration for obtaining the essential license under Contract Labor (Regulation & Abolition) Act 1970 after award of work. Form-5 will be issued to successful bidder by BHEL for applying the license. Successful bidder has to get the endorsement in the license for the areas and nature of work which they will be performing as part of the contract. |
| 4.4. | Bidder should have independent ESI Employer code under ESI Act 1948. Photocopy of letter from ESI Corp. to establish that bidder is independently registered as an employer under ESI to be produced. |
| 4.5. | Bidder should have independent PF code under Employee Provident Fund and Miscellaneous Provisions Act 1952. Photocopy of letter from PF Commissioner’s Office to establish that bidder is independently registered as an employer PF to be produced. |
| 4.6. | There should be no litigation or charge under investigation / enquiry / trial against the Tenderer, or conviction in a court of law or suspension or blacklisting by any organization on any ground. During the course of work, if any such information comes to light, the contract may be terminated. |
| 4.7. | The opinion / decision of BHEL regarding the bid shall be final and conclusive. BHEL reserves the right to reject any or all the bids at any time without assigning any reason. |
| 4.8. | In case the bidder has a relative employed in BHEL, the authority inviting tender shall be informed of this fact in writing at the time of submission of tender, failing which the tender may be disqualified, or if such fact comes to light subsequently, the contract may be terminated. |
| 4.9. | If the bidder gives wrong information in his tender or creates conditions favorable for the acceptance of his tender, BHEL reserves the right to reject such tender at any stage. |
| 5. | PRICE VARIATION CLAUSE: Not Applicable |
| 6. | PAYMENT TERMS |
| 6.1. | <p>Payment terms shall be as per GCC clause 2.6. Bills will be prepared after taking joint measurement as per actual work done at site. Payment time line shall be 45 days for Micro & Small Enterprises (MSEs), 60 Days for Medium Enterprises and 90 days for Non-MSME bidders from date of certification of invoice/bill.</p> |
| 6.2. | GST will be reimbursed to the contractor after the contractor pays GST, files return and submits a proof of the same to BHEL. GST TDS will be done @ 2%. Income Tax TDS will be done as applicable. |
| 7. | Annexures |



| | |
|------|--|
| 7.1 | Detailed Scope of Work – Annexure I |
| 7.2 | TECHNO-COMMERCIAL BID APPLICATION- ANNEXURE – II |
| 7.3 | Bidder Information – Annexure III |
| 7.4 | CHECKLIST OF ENCLOSURES – Annexure IV |
| 7.5 | Declaration by Bidder-I – Annexure V |
| 7.6 | Declaration by Bidder-II – Annexure VI |
| 7.7 | Unpriced BID- Annexure VII |
| 7.8 | PPP-MII Format- Annexure VIII |
| 7.9 | Deviations Sheet- Annexure IX |
| 7.10 | Border Sharing format |
| 7.11 | Conflict of Interest among Bidders/ Agents |



7.1 ANNEXURE – I: SCOPE OF WORK

Name of work: Erection of SCB supporting structure in Ph-01 & Ph-02 at 2X100MW Raghanesda solar PV plant, Gujarat

| S.NO. | DESCRIPTION | UNIT | QTY |
|-------|---|------|----------|
| 1 | Boring (with DTH/drilling machine) in any kind of soil/rock, providing and installing bored cast-in-situ reinforced/Plain cement concrete piles of grade M-25 of specified diameter and length below the pile cap, to carry a safe working load not less than specified, excluding the cost of steel reinforcement but including the cost of concrete, marking of pile location as per approved drawing with total station machine, boring, with bentonite solution and temporary casing of appropriate length for setting out and removal of same and the length of the pile to be embedded in the pile cap etc. all complete, (Cement Content shall be as per approved MIX DESIGN by BHEL/Owner) including removal of excavated earth with all lifts and leads (Length of pile for payment shall be measured upto bottom of pile cap).300 mm dia piles, | RM | 3375.00 |
| 2 | Providing and laying in position machine batched and machine mixed design mix M-25 grade cement concrete for reinforced cement concrete work, using cement content as per approved design mix, including pumping of concrete to site of laying but excluding the cost of centering, shuttering, and reinforcement, including admixtures in recommended proportions as per IS: 9103 to accelerate, retard setting of concrete, improve workability without impairing strength and durability as per direction of Engineer-in-charge. All works upto floor V level | cum | 38.00 |
| 3 | Centering and shuttering including strutting, propping etc. and removal of form for :Foundations, footings, pedestal, bases of columns etc. for mass complete as per direction of Engineer in charge. | sqm | 508.68 |
| 4 | Painting on Angles and steel structures with epoxy based synthetic enamel paint of approved brand and manufacture color. Thickness of paint shall be not less than 75 micron: Two or more coats on new work of approved brand and manufacture as per direction of Engineer-in -charge. | sqm | 100.00 |
| 5 | Structural steel work in single section, fixed with or without connecting plate, including cutting, hoisting, fixing in position all complete. (material supply by BHEL) | kg | 20000.00 |
| 6 | Supply & erection of M-10 bolt (nut, washer full set) (HDG) | no | 16000.00 |
| 7 | Drilling of 12dia/10dia/8dia hole in super structure without spur and finishing with zinc spray coating all complete as per site requirement. | no | 16000.00 |
| 8 | Erection of Columns, Erection and Alignment of Column (structure legs) in plumb, as per the Co-ordinates of BHEL MMS coordinate drawing, inside pile foundation before pouring of concrete complete in all respect including template etc, collecting of columns material from store (upto 5km), shifting to work location, unpacking, disposal of unwanted packing material at identified location as per instruction of Engineer in charge. Complete all (Column material supply by BHEL). | ton | 20.00 |

Remarks:

1. Please refer applicable BOQ under ANNEXURE VII Unpriced BID.
2. TECHNICAL SPECIFICATIONS, FIELD QUALITY PLAN (FQP-CIVIL) and drawing of Mounting arrangement of SCB (String Combining Box) documents enclosed with this NIT documents are part of above tabled scope of work.



7.2 ANNEXURE – II TECHNO-COMMERCIAL BID APPLICATION

To,

Dy. Manager / WCC
Bharat Heavy Electricals Limited
Solar Business Division,
IISc Post, Malleswaram,
Bengaluru – 560 012

Dear Sir,

I / We hereby offer to carry out the work **“Erection of SCB supporting structure in Ph-01 & Ph-02 at 2X100MW Raghnesda solar PV plant, Gujarat”**.

I /We have carefully perused the all the clauses mentioned in NIT and agree to abide with the same.

1. Notice Inviting Tender – Part A Volume 1
2. Technical specification, FQP, drawing – Part A Volume 1
3. Notice Inviting Tender – Part A Volume 2
4. Price Bid Format - Part – B

I/ We further agree to execute all the works referred to in the said documents.

I declare that, there was never / is no litigation or charge under investigation / enquiry / trial against me / us, nor conviction in a court of law or suspended or blacklisted by any organization on any grounds.

Signature of Tenderer

Date:



7.3 ANNEXURE – III: BIDDER INFORMATION

| S. No. | DETAILS REQUIRED | Requirement fulfilled (Yes / No / NA/ Value) |
|--------|--|--|
| 1 | Name of the Company | |
| 2 | Name of Authorized Signatory | |
| 3 | Name of Contact person for this tender | |
| 4 | Email-id of contact person | |
| 5 | Contact number | |
| 6 | Bank Account Details (Name of Bank, Branch and Account Number). Cancelled Cheque to be enclosed | |
| 7 | Details of Relatives employed in BHEL, Name Designation and Unit - Clause 4.8 | |
| | Relative 1 | |
| | Relative 2 | |
| | Relative 3 | |



7.4 ANNEXURE – IV: CHECKLIST OF ENCLOSURES

| S. No. | DETAILS REQUIRED | Requirement fulfilled (Yes / No / NA/ Value) | Whether proof / document enclosed (YES / NO) |
|--------|--|--|---|
| 1 | Documentary Evidence as per Clause 3.1 | | |
| 2 | Declaration as per cl. 4.3 | | |
| 3 | GSTIN certificate should be submitted (under Cl. 4.2) | | |
| 4 | Average turnover of last 3 years - Clause 3.2 | | |
| 5 | PAN No. - Clause 4.1 | | |
| 6 | ESI -Clause 4.4 | | |
| 7 | PF- Clause 4.5 | | |
| 8 | Non-Disclosure Agreement | | |
| 9 | EMD Details (DD No., Amount, Date & Bank) | | |
| 10 | PPP-MII Format to be enclosed - Annexure VIII | | |
| 11 | Boarder sharing (Applicable Annexure-D (i) or D(ii) to be submitted in letter head) | | |



7.5 ANNEXURE – V: BIDDER DECLARATION - I

| S. No. | DETAILS REQUIRED | Requirement fulfilled (Yes / No / NA/ Value) |
|--------|--|--|
| 1 | I have carefully read the Tender Terms and Conditions and I submit my agreement for the same. | |
| 2 | I have completely understood the scope of work and submit my agreement to carry out the work as per mentioned in Tender document. | |
| 3 | I have quoted rates for the total scope of work mentioned in the tender document | |
| 5 | I have understood and accepted the payment terms of BHEL as per Cl.6 | |
| 6 | I am responsible for the safety of workmen deployed and agree to fulfil the requirements as per tender terms | |
| 7 | I agree to participate in the tender and carry out the work (if awarded) ethically and submit my agreement to various requirements in this contract. | |
| 8 | I have carefully read the Tender Terms and Conditions and I submit my agreement for the same. | |
| 9 | Signed and submitted the deviations sheet | |



7.6 ANNEXURE – VI, BIDDER DECLARATION - II

I, -----, aged-----Yrs., S/o -----,

Residing at -----

Hereby declare as follows:

- (i) That my nationality is _____.
- (ii) That I am a major and eligible to enter into contract / my firm / my company is competent to enter into an agreement.
- (iii) I shall employ only such personnel who have not been found unfit for employment in Organizations such as Central / state / Public undertaking by the Police Authorities.
- (iv) I shall not employ persons against whom Criminal cases are pending or under investigation.
- (v) I shall also not employ persons found guilty of offences involving moral turpitude for executing work in BHEL contracts.
- (vi) That there are no Criminal cases/Civil/Labor pending or under investigation against me or my firm or company.
- (vii) I have not been found guilty of offences involving moral turpitude nor any of the company directors / partners of my firm have been found guilty of offences involving moral turpitude.
- (viii) Neither I nor my firm nor my company has been declared insolvent in the past.
- (ix) I have taken due care and efforts to furnish only information which are true in the tender document.
- (x) I shall employ labor who is more than 18 years of age and less than 58 years and having sound physical and mental health.
- (xi) I shall keep Photograph / identity proof / residential proof of the laborers to be employed against this tender and arrange for police verification.
- (xii) I shall employ and deploy suitable qualified personnel for supervision of the work in each shift and additionally as required for monitoring compliance to process requirements and compliance to contract terms & conditions.

[Signature with Name & seal of the Tenderer]

Date :
Place :



**SOLAR BUSINESS DIVISION,
Bengaluru - 560 012**

**TENDER
DOCUMENT
(PART – A)
Vol. I**

7.7 ANNEXURE VII Unpriced BID

| S.NO. | DESCRIPTION | UNIT | QTY | Unit Rate (Rs.) | Amount (Rs.) |
|---|---|------|----------|-----------------|----------------------|
| 1 | Boring (with DTH/drilling machine) in any kind of soil/rock, providing and installing bored cast-in-situ reinforced/Plain cement concrete piles of grade M-25 of specified diameter and length below the pile cap, to carry a safe working load not less than specified, excluding the cost of steel reinforcement but including the cost of concrete, marking of pile location as per approved drawing with total station machine, boring, with bentonite solution and temporary casing of appropriate length for setting out and removal of same and the length of the pile to be embedded in the pile cap etc. all complete, (Cement Content shall be as per approved MIX DESIGN by BHEL/Owner) including removal of excavated earth with all lifts and leads (Length of pile for payment shall be measured upto bottom of pile cap).300 mm dia piles, | RM | 3375.00 | 850.930 | 2871888.750 |
| 2 | Providing and laying in position machine batched and machine mixed design mix M-25 grade cement concrete for reinforced cement concrete work, using cement content as per approved design mix, including pumping of concrete to site of laying but excluding the cost of centering, shuttering, and reinforcement, including admixtures in recommended proportions as per IS: 9103 to accelerate, retard setting of concrete, improve workability without impairing strength and durability as per direction of Engineer-in-charge. All works upto floor V level | cum | 38.00 | 6777.373 | 257540.174 |
| 3 | Centering and shuttering including strutting, propping etc. and removal of form for :Foundations, footings, pedestal, bases of columns etc. for mass complete as per direction of Engineer in charge. | sqm | 508.68 | 260.975 | 132752.763 |
| 4 | Painting on Angles and steel structures with epoxy based synthetic enamel paint of approved brand and manufacture color.Thickness of paint shall be not less than 75 micron: Two or more coats on new work of approved brand and manufacture as per direction of Engineer-in -charge. | sqm | 100.00 | 162.203 | 16220.300 |
| 5 | Structural steel work in single section, fixed with or without connecting plate, including cutting, hoisting, fixing in position all complete.(material supply by BHEL) | kg | 20000.00 | 33.398 | 667960.000 |
| 6 | Supply & erection of M-10 bolt (nut, washer full set) (HDG) | no | 16000.00 | 6.490 | 103840.000 |
| 7 | Drilling of 12dia/10dia/8dia hole in super structure without spur and finishing with zinc spray coating all complete as per site requirement. | no | 16000.00 | 4.750 | 76000.000 |
| 8 | Erection of Columns, Erection and Alignment of Column (structure legs) in plumb, as per the Co-ordinates of BHEL MMS coordinate drawing, inside pile foundation before pouring of concrete complete in all respect including template etc,collecting of columns material from store (upto 5km),shifting to work location,unpacking, disposal of unwanted packing material at identified location as per instruction of Engineer in charge. Complete all (Column material supply by BHEL). | ton | 20.00 | 3806.975 | 76139.500 |
| TOTAL AMOUNT OF WORK (Rs) | | | | | 42,02,341.487 |
| Quoted Rate (Bidder to put rate in % tage in given/uploaded BOQ-price bid format in excel) | | | | | |

Note: 1.GST Extra applicable (on Total Quoted Price/Rate):.....% .

(To be indicated by bidder along with Techno Commercial Bid).

2.Bidders Quoted percentage (%) is applicable to each line item estimated rate to arrive Unit Rate.



7.8 ANNEXURE- VIII, PPP-MII Format

FORMAT FOR VERIFICATION OF LOCAL CONTENT UNDER PREFERENCE TO MAKE IN INDIA ORDER

(To be submitted with the offer)

[Applicable for procurement value from Rs. 5.00 Lac to Rs. 10.00 Crore]

Self-certification giving the percentage of local content, in line with PPP-MII order, if applicable [to be submitted on the letter head of the issuer.]

Item Name : **Erection of SCB supporting structure in Ph-01 & Ph-02 at 2X100MW Raghnesda solar PV plant, Gujrat**

Enquiry No. : **380548**

Project: **Ph-01 & Ph-02 at 2X100MW Raghnesda solar PV plant, Gujarat**

Applicable percentage of Local Content.....

(Bidder to indicate local content in percentage)

We have read and understood the provisions of “Public Procurement (Preference to Make in India) Order, 2017” dated 15/06/2017, its revision dated 28/05/2018 and any subsequent modifications/Amendments, if any [hereinafter, “PPP-MII Order”] issued by Department of Industrial Policy and Promotion (DIPP), Ministry of Commerce and Industry, Government of India.

In line with the provisions of the PPP-MII Order, We, M/s. [Enter the name of the Bidder] [hereinafter, “Local Supplier”] submits self-certification to M/s. Bharat Heavy Electricals Limited [hereinafter, BHEL] regarding Local Content in Goods/Services/Works to be supplied by the Local Supplier **Erection of SCB supporting structure** (Enter the name of the Equipment/Item for Project), wherein we have agreed to abide by the terms and conditions of the PPP-MII Order.

Details of location at which local value addition will be made is as follows:

We also understand, false declarations will be in breach of the Code of Integrity under Rule 175(1)(i)(h) of the General Financial Rules for which a bidder or its successors can be debarred for up to two years as per Rule 151 (iii) of the General Financial Rules along with such other actions as may be permissible under law.

For and on behalf of, Date:

Authorized Signatory

(With Company Seal & Signature)

Note: This is a guiding format. In case the bidder submits the certificate in a format different from the above, the same may be considered provided it meets the intent and purpose, as may be ascertained by BHEL.



7.9 ANNEXURE -IX: DEVIATION SHEET

| Sl No. | Volume | Part/Clause Sl no. | NIT requirement | Bidder's Deviation |
|--------|--------|--------------------|-----------------|--------------------|
| | | | | |
| | | | | |
| | | | | |
| | | | | |
| | | | | |

Total No. of deviations proposed by the Bidder- _____ nos.

BIDDER'S SIGN & SEAL:

Note: The Offers should be in full conformity with the terms and conditions of this tender. Incorrect and incomplete tenders are liable to be rejected. Deviations, if any, should only be mentioned as per format for Non-Technical Deviations (i.e. General Terms & Conditions, Commercial Terms etc.) & Technical Deviations (i.e. Scope of Work, Modalities of Contract etc.). BHEL at its discretion whether to give any further chance to a bidder in case of any deviation or reject the same offer.



Annexure-D (i)

(Compliance to be submitted in the bidder's letter head)
(as applicable)

Sub: Compliance to Government of India order OM No.6/18/2019-PPD dated 23.07.2020 & 24.7.2020 regarding restrictions under Rule 144 (XI) of the General Financial Rules (GFRs), 2017

| | |
|---------------|---|
| Item Name : | <u>Erection of SCB supporting structure in Ph-01 & Ph-02 at 2X100MW Raghnesda solar PV plant, Gujrat</u> |
| Enquiry No. : | <u>380548</u> |
| Project : | <u>Ph-01 & Ph-02 at 2X100MW Raghnesda solar PV plant, Gujrat.</u> |

We M/s. _____ (name of the bidder company) have read the clauses pertaining to Department of Expenditure's (DoE) Public Procurement Division Order (Public procurement no 1,2 & 3 vide ref. F.No.6/18/2019-PPD dated 23.07.2020 & 24.7.2020) regarding restrictions on procurement from a bidder of a country which shares a land border with India.

We hereby certify that **we are not from such a country** and eligible to be considered for this tender.

(Note: Non-compliance of above said GoI Order and its subsequent amendment, (if any), by any bidder(s) shall lead for commercial rejection of their bids by BHEL)

For and behalf of _____ (Name of the bidder)

(Signature, date & seal of authorized representative of the bidder)

Annexure-D (ii)

(Compliance to be submitted in the bidder's letter head)
(as applicable)

Sub: Compliance to Government of India order OM No.6/18/2019-PPD dated 23.07.2020 & 24.7.2020 regarding restrictions under Rule 144 (XI) of the General Financial Rules (GFRs), 2017

| | |
|---------------|---|
| Item Name : | <u>Erection of SCB supporting structure in Ph-01 & Ph-02 at 2X100MW Raghnesda solar PV plant, Gujrat</u> |
| Enquiry No. : | <u>329967</u> |
| Project : | <u>Ph-01 & Ph-02 at 2X100MW Raghnesda solar PV plant, Gujrat</u> |

We M/s. _____ (name of the bidder company) have read the clauses pertaining to Department of Expenditure's (DoE) Public Procurement Division Order (Public procurement no 1,2 & 3 vide ref. F.No.6/18/2019-PPD dated 23.07.2020 & 24.7.2020) regarding restrictions on procurement from a bidder of a country which shares a land border with India.

We are from such a country which shares a land border with India & have been registered with the Competent Authority as specified in above said order. We hereby certify that we fulfil all requirements in this regard and are eligible to be considered. **Evidence of valid registration by the Competent Authority is attached.**

(Note: Non-compliance of above said GoI Order and its subsequent amendment, (if any), by any bidder(s) shall lead for commercial rejection of their bids by BHEL)

For and behalf of _____ (Name of the bidder)

(Signature, date & seal of authorized representative of the bidder)



Conflict of Interest among Bidders/ Agents

“A bidder shall not have conflict of interest with other bidders. Such conflict of interest can lead to anti-competitive practices to the detriment of Procuring Entity's interests. **The bidder found to have a conflict of interest shall be disqualified.** A bidder may be considered to have a conflict of interest with one or more parties in this bidding process, if:

- a) they have controlling partner (s) in common; **or**
- b) they receive or have received any direct or indirect subsidy/ financial stake from any of them; **or**
- c) they have the same legal representative/agent for purposes of this bid; **or**
- d) they have relationship with each other, directly or through common third parties, that puts them in a position to have access to information about or influence on the bid of another Bidder; **or**
- e) Bidder participates in more than one bid in this bidding process. Participation by a Bidder in more than one Bid will result in the disqualification of all bids in which the parties are involved. However, this does not limit the inclusion of the components/ sub-assembly/ Assemblies from one bidding manufacturer in more than one bid; **or**
- f) In cases of agents quoting in offshore procurements, on behalf of their principal manufacturers, one agent cannot represent two manufacturers or quote on their behalf in a particular tender enquiry. One manufacturer can also authorise only one agent/dealer. There can be only one bid from the following:
 - 1. The principal manufacturer directly or through one Indian agent on his behalf; and
 - 2. Indian/foreign agent on behalf of only one principal;**or**
- g) A Bidder or any of its affiliates participated as a consultant in the preparation of the design or technical specifications of the contract that is the subject of the Bid; **or**
- h) In case of a holding company having more than one independently manufacturing units, or more than one unit having common business ownership/management, only one unit should quote. Similar restrictions would apply to closely related sister companies. Bidders must proactively declare such sister/ common business/ management units in same/ similar line of business.”

Signature with company seal -

Name –

Company / Organization –

Designation within Company / Organization –

Address of Company / Organization –

TECHNICAL SPECIFICATIONS

BHEL shall issue the relevant drawings during execution of works.

QUALITY ASSURANCE AND INSPECTION FOR CIVIL WORKS

1. INTRODUCTION

This part of the specification covers the sampling, testing and quality assurance requirement (including construction tolerances and acceptance criteria) for all civil and structural works covered in this specification. Wherever IS code or standards have been referred they shall be the latest revisions. The rate for respective items of work or price shall include the cost for all works, activities, equipment, instrument, personnel, material etc. whatsoever associated to comply with sampling, testing and quality assurance requirement including construction tolerances and acceptance criteria and as specified in subsequent clauses of this part of the technical specifications.

The QA and QC activities in all respects as specified in the technical specifications/ drawings / data sheets /quality plans / contract documents shall be carried out at no extra cost to the owner. The contractor shall prepare detailed construction and erection methodology scheme which shall be compatible to the requirements of the desired progress of work execution, quality measures, prior approvals if any and the same shall be got approved by the Engineer. If required, work methodology may be revised/reviewed at every stage of execution of work at site, to suit the site conditions by the contractor at no extra cost to the owner.

2. QA AND QC MANPOWER

The contractor shall nominate one overall QA coordinator for the contract detailing the name, designation, contact details and address at the time of post bid discussions. All correspondence related to Quality Assurance shall be addressed by the contractors QA coordinator to BHEL. BHEL shall address all correspondence related to Quality issues to the contractors QA coordinator. The Contractors QA coordinator shall be responsible for co-ordination of Quality activities between various divisions of the contractor and their sub-vendors on one hand & with GIPCL on the other hand.

The contractor shall appoint a dedicated, experienced and competent QA&QC in charge at site, preferably directly reporting to the Project Manager, supported as necessary by experienced personnel, to ensure the effective implementation of the approved QAP. The contractor shall finalize and submit a deployment schedule of QA&QC personnel along with their details to BHEL for approval acceptance and further shall ensure their availability well before the start of the concern activity.

3. LABORATORY AND FIELD TESTING

The field laboratory for QA and QC activities shall be constructed and set-up by the contractor in line with the approved FQP as per the site requirement or contractor has to arrange all the tests in NABL accredited laboratory. The Laboratory building shall be constructed and installed with the adequate facilities to meet the requirement of envisaged test setup. Temperature and humidity controls shall be available wherever necessary during testing of samples. The quality plan shall

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identify the testing equipment's/instrument, which the contractor shall deploy and equip the field quality laboratory for meeting the field quality plan requirements.

The contractor shall furnish a comprehensive list of testing equipment's / instrument required to meet the planned/scheduled tests for the execution of works for BHEL acceptance/ approval. The contractor shall mobilize the requisite laboratory equipment and QA&QC manpower at least 15 days prior to the planned test activity as per the schedule of tests. All equipment's and instruments in the field shall be calibrated before the commencement of tests and then at regular intervals, as per the manufacturer's recommendation and as directed by the BHEL. The calibration certificates shall specify the fitness of the equipment's and instruments within the limit of tolerance for use. Contractor shall arrange for calibration of equipment's and instruments by an NABL / NPL accredited agency and the calibration report shall be submitted to BHEL.

The tests which cannot be carried out in the field laboratory shall be done at a laboratory of repute. This includes selected IITs, NCB, CSMRS, reputed government / autonomous laboratories / organizations, NITs and other reputed testing laboratories. The test samples for such test shall be jointly selected and sealed by the engineer and thereafter these shall be sent to the concerned Laboratory through the covering letter signed by BHEL engineer. The test report along with the recommendations shall be obtained from the laboratories without delay and submitted to GIPCL. Based on the schedule of work agreed with the engineer-in-charge and the approved FQP, the contractor shall prepare a schedule of tests and submit them to the engineer-in-charge and organize to carry out the tests as scheduled /agreed.

4. FIELD QUALITY PLAN

The work at site shall be approved as per the approved FQP

5. GENERAL QA REQUIREMENTS

The contractor shall ensure that the works, BOIs and services under the scope of contract whether manufactured or performed within contractor's works or at his sub-contractor's premises or at the GIPCL's site or at any other place of work are in accordance with the GIPCL/BHEL technical specification, applicable standards /codes, approved drawings / data sheets / quality plans and BOQ. All the works, BOIs and services shall be carried out as per the best prevalent engineering Practices and to the directions of the Engineer.

1. The laboratory equipment's required to be mobilised as per site requirement. If any, required for successful completion of work shall be provided /arranged by the contractor.

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PROTECTION OF WORK

The Contractor shall have total responsibility for protecting his works till it is finally taken over by the Employer. No claim will be entertained by the Employer or the representative of the Employer for any damage or loss to the Contractor's works and the Contractor shall be responsible for complete restoration of the damaged works to original conditions to comply with the specification and drawings. Should any such damage to the Contractor's Works occur because of other party not being under his supervision or control, the Contractor shall make his claim directly with the party Concerned.

If disagreement or conflict or dispute develops between the Contractor and the other party or parties concerned regarding the responsibility for damage to the Contractor's Works the same shall be rectified. The Contractor shall not cause any delay in the repair of such damaged Works because of any delay in the resolution of such disputes. The Contractor shall proceed to repair the Work immediately and no cause thereof will be assigned Pending resolution of such disputes.

EMPLOYMENT OF LABOUR

In addition to all local laws and regulations pertaining to the employment of labour to be complied with by the Contractor pursuant to GCC, the Contractor will be expected to employ on the work only his regular skilled employees with experience of the particular work. No female labour shall be employed after darkness. No person below the age of eighteen years shall be employed. All travelling expenses including provisions of all necessary transport to and from Site, lodging allowances and other payments to the Contractor's employees shall be the sole responsibility of the Contractor. The hours of work on the Site shall be decided by the Employer and the Contractor shall adhere to it. Working hours will normally be eight (8) hours per day - Monday through Saturday. Contractor's employees shall wear identification badges while on work at Site.

In case the Employer becomes liable to pay any wages or dues to the labour or any Government agency under any of the provisions of the Minimum Wages Act, Workmen Compensation Act, Contract Labour Regulation Abolition Act or any other law due to act of omission of the Contractor, the Employer may make such payments and shall recover the same from the Contractors Bills. Electricity and water shall be the responsibility of the contractor.

FACILITIES TO BE PROVIDED BY THE CONTRACTOR

Contractor's site office Establishment

The Contractor shall establish a site office at the site and keep posted unauthorized representative for the purpose of the contract, pursuant to GCC.

Tools, tackles and scaffoldings

The Contractor shall provide all the construction equipment's, tools, tackles and scaffoldings required for pre-assembly, installation, testing, commissioning and conducting Guarantee tests of the equipment's covered under the Contract. He shall submit a list of all such materials to the Employer before the commencement of pre-assembly at Site. These tools and tackles shall not be removed from the Site without the written permission of the Employer. The Contractor shall



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arrange Dozer, Hydra, Cranes, Trailer, etc. for the purpose of fabrication, erection and commissioning.

Testing Equipment and Facilities:

The contractor shall provide the necessary testing, equipment and facilities.

Site laboratory for civil works:

Contractor shall provide and maintain a site laboratory for the testing of construction material under the direction and general supervision of employer.

First-aid

The Contractor shall provide necessary first-aid facilities for all his employees, representatives and workmen working at the Site. Enough number of Contractor's personnel shall be trained in administering first-aid. The Employer will provide the Contractor, in case of any emergency, the services of an ambulance for transportation to the nearest hospital.

Cleanliness

a) The Contractor shall be responsible for keeping the entire area allotted to him clean and free from rubbish, debris etc. during the period of Contract. The Contractor shall employ enough number of special personnel to thoroughly clean his work-area at least once in a day. All such rubbish and scrap material shall be stacked or disposed in a place to be identified by the Employer. Materials and stores shall be so arranged to permit easy cleaning of the area. In areas where equipment might drip oil and cause damage to the floor surface, a suitable protective cover of a flame resistant, oil proof sheet shall be provided to protect the floor from such damage.

b) Similarly the labour colony, the offices and the residential areas of the Contractor's employees and workmen shall be kept clean and neat to the entire satisfaction of the Employer. Proper sanitary arrangements shall be provided by the Contractor, in the work-areas, office and residential areas of the Contractor.

LINES AND GRADES

All the Works shall be performed to the lines, grades and elevations indicated on the drawings. The Contractor shall be responsible to locate and layout the Works. Basic horizontal and vertical control points will be established and marked by the Employer at Site at suitable points. These points shall be used as datum for the works under the Contract. The Contractor shall inform the Employer well in advance of the times and places at which he wishes to do work in the area allotted to him so that suitable datum points may be established and checked by the Employer to enable the Contractor to proceed with his works. Any work done without being properly located may be removed and/or dismantled by the Employer at Contractor's expense.

FIRE PROTECTION

Required Fire Protection Measures are described under Clause titled

"WORK & SAFETY REGULATIONS" of this Sub-section.



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SECURITY

The Contractor shall have total responsibility for all equipment and materials in his custody stores, loose, semi-assembled and/or erected by him at Site. The Contractor shall make suitable security arrangements including employment of security personnel to ensure the protection of all materials, equipment and works from theft, fire, pilferage and any other damages and loss. All materials of the Contractor shall enter and leave the Employer Site only with the written permission of the Employer in the prescribed manner.

CONTRACTOR'S AREA LIMITS

The Employer will mark-out the boundary limits of access roads, parking spaces, storage and construction areas for the Contractor and the Contractor shall not trespass the areas not so marked out for him. The Contractor shall be responsible to ensure that none of his personnel move out of the areas marked out for his operations. In case of such a need for the Contractor's personnel to work out of the areas marked out for him the same shall be done only with the written permission of the Employer.

CONTRACTOR'S CO-OPERATION WITH THE EMPLOYER

In case where the performance of the erection work by the Contractor affects the operation of the system facilities of the Employer, such erection work of the Contractor shall be scheduled to be performed only in the manner stipulated by the Employer and the same shall be acceptable at all times to the Contractor. The Employer may impose such restrictions on the facilities provided to the Contractor such as electricity, etc. as he may think fit in the interest of the Employer and the Contractor shall strictly adhere to such restrictions and co-operate with the Employer.

It will be the responsibility of the Contractor to provide all necessary temporary instrumentation and other measuring devices required during start-up and operation of the equipment systems which are erected by him. The Contractor shall also be responsible for flushing and initial filling of all the oil and lubricants required for the equipment furnished and installed by him, so as to make such equipment ready for operation. The Contractor shall be responsible for supplying such flushing oil and other lubricants unless otherwise specified elsewhere in documents and specifications

MATERIALS HANDLING AND STORAGE

All the equipment's furnished under the Contract and arriving at Site shall be promptly received, unloaded and transported and stored in the storage spaces by the Contractor. Contractor shall be responsible for examining all the shipment and notify the Employer immediately of any damage, shortage, discrepancy etc. for the purpose of Employer's information only. The Contractor shall submit to the Employer every week a report detailing all the receipts during the week.

However, the Contractor shall be solely responsible for any shortages or damage in transit, handling and /or in storage and erection of the equipment at Site. Any demurrage, wharf age and other such charges claimed by the transporters, railways etc. shall be to the account of the Contractor. The Contractor shall maintain an accurate and exhaustive record detailing out the list of all equipment received by him for the purpose of erection and keep such record open for the inspection of the Employer. All equipment shall be handled very carefully to prevent any damage or loss. No bare

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wire ropes, slings, etc. shall be used for unloading and/or handling of the equipment without the specific written permission of the Employer. The equipment stored shall be properly protected to prevent damage either to the equipment or to the floor where they are stored. The equipment from the store shall be moved to the actual location at the appropriate time so as to avoid damage of such equipment at Site.

The actual location at the appropriate time so as to avoid damage of such equipment at Site. The Contractor shall ensure that all the packing materials and protection devices used for the various equipment's during transit and storage are removed before the equipment are installed. The consumables and other supplies likely to deteriorate due to storage must be thoroughly protected and stored in a suitable manner to prevent damage or deterioration in quality by storage. All the materials stored in the open or dusty location must be covered with suitable Weather proof and flameproof covering material wherever applicable.

If the materials belonging to the Contractor are stored in areas other than those earmarked for him, the Employer will have the right to get it moved to the place earmarked for the Contractor at the Contractor's cost. The Contractor shall be responsible for making suitable indoor storage facilities to store all equipment which require indoor storage. Normally, all the electrical equipment's such as motors, control gear, generators, exciters and consumables like electrodes, lubricants etc. shall be stored in the closed storage space. The Employer, in addition, may direct the Contractor to move certain other materials, which in his opinion will require indoor storage, to indoor storage areas which the Contractor shall strictly comply with.

CONSTRUCTION MANAGEMENT

The field activities of the Contractors working at Site, will be coordinated by the Employer and the Employer decision shall be final in resolving any disputes or conflicts between the Contractor and other Contractors and tradesmen of the Employer regarding scheduling and co- ordination of work. Such decision by the Employer shall not be a cause for extra compensation or extension of time for the Contractor.

The Employer shall hold weekly meetings of all the Contractors working at Site, at time and place to be designated by the Employer. The Contractor shall attend such meetings and take notes of discussions during the meeting and the decisions of the Employer and shall strictly adhere to those decisions in performing his Works. In addition to the above weekly meeting, the Employer may call for other meeting either with individual Contractors or with selected number of Contractors and in such a case the Contractor if called, will also attend such meetings. Time is the essence of the Contract and the Contractor shall be responsible for performance of his works in accordance with the specified construction schedule.

If at any time, the Contractor is falling behind the schedule, he shall take necessary action to make good for such delays by increasing his work force or by working overtime or otherwise accelerate the progress of the work to comply with the schedule and shall communicate such actions in writing to the Employer, satisfying that his action will compensate for the delay. The Contractor shall not be allowed any extra compensation for such action. The Employer shall however not be responsible for provision of additional labour



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and or materials or supply or any other services to the Contractor except for the co-ordination work between various Contractors as set out earlier.

FIELD OFFICE RECORDS

The Contractor shall maintain at his Site Office up-to- date copies of all drawings, specifications and other Contract Documents and any other supplementary data complete with all the latest revisions thereto. The Contractor shall also maintain in addition the continuous record of all changes to the above Contract Documents, drawings, specifications, supplementary data, etc. effected at the field and on completion of his total assignment under the Contract shall incorporate all such changes on the drawings and other Engineering data to indicate as installed conditions of the equipment furnished and erected under the Contract. Such drawings and Engineering data shall be submitted to the Employer in required number of copies.

CONTRACTOR'S MATERIALS BROUGHT ON TO SITE

The Contractor shall bring to Site all equipment, components, parts, materials, including construction equipment, tools and tackles for the purpose of the Works under intimation to the Employer. All such goods shall, from the time of their being brought vest in the Employer, but may be used for the purpose of the Works only and shall not on any account be removed or taken away by the Contractor without the written permission of the Employer. The Contractor shall nevertheless be solely liable and responsible for any loss or destruction thereof and damage thereto.

The Employer shall have a lien on such goods for any sum or sums which may at any time be due or owing to him by the Contractor, under, in respect of or by reasons of the Contract. After giving a fifteen (15) days' notice in writing of his intention to do so, the Employer shall be at liberty to sell and dispose off any such goods, in such manner as he shall think fit including public auction or private treaty and to apply the proceeds in or towards the satisfaction of such sum or sums due as aforesaid. After the completion of the Works, the Contractor shall remove from the Site under the direction of the Employer the materials such as construction equipment, erection tools and tackles, scaffolding etc. with the written permission of the Employer. If the Contractor fails to remove such materials, within fifteen (15) days of issue of a notice by the Employer to do so then the Employer shall have the liberty to dispose of such materials.

PROTECTION OF PROPERTY AND CONTRACTOR'S LIABILITY

The Contractor shall be responsible for any damage resulting from his operations. He shall also be responsible for protection of all persons including members of public and employees of the Employer and the employees of other Contractors and Sub- Contractors and all public and private property including structures, building, other plants and equipment's and utilities either above or below the ground.

The Contractor will ensure provision of necessary safety equipment such as barriers, sign - boards, warning lights and alarms, etc. to provide adequate protection to persons and property. The Contractor shall be responsible to give reasonable notice to the Employer and the Employers of



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public or private property and utilities when such property and utilities are likely to get damaged or injured during the performance of his Works and shall make all necessary arrangements with such Employers, related to removal and/or replacement or protection of such property and utilities.

PAINTING

Unless otherwise mentioned in other sub-sections. all exposed metal parts of the equipment including piping, structure railings, etc. wherever applicable, after installation unless otherwise surface protected, shall be first painted with at least two coats of suitable primer which matches the shop primer paint used, after thoroughly cleaning all such parts of all dirt, rust, scales, greases, oils and other foreign materials by wire brushing, scraping or sand blasting and the same being inspected and approved by the Employer for painting. Afterwards, the above parts shall be finished painted with three coats of allowed resin machinery enamel paints. The minimum thickness of paint film shall not be less than 100 microns. The quality of the finish paint shall be as per the standards of Bureau of Indian Standards (BIS) or equivalent and to be of the colour as approved by the Employer.

INSURANCE

In addition to the conditions covered under the Clause entitled "Insurance" in Section General Conditions of Contract (GCC), the following provisions will also apply to the portion of works to be done beyond the Contractor's own or his Sub-Contractor's manufacturing Works.

Workmen's Compensation Insurance

This insurance shall protect the Contractor against all claims applicable under the Workmen's Compensation Act, 1948 (Government of India). This policy shall also cover the Contractor against claims for injury, disability disease or death of his or his Sub-Contractor's employees, which for any reason are not covered under the Workmen's Compensation Act, 1948. The liabilities shall not be less than the following: Workmen's Compensation - As per Statutory Provisions Employee's Liability - As per Statutory Provisions

UNFAVOURABLE WORKING CONDITIONS

The Contractor shall confine all his field operations to those works which can be performed without subjecting the equipment and materials to adverse effects during inclement weather conditions, like monsoon, storms, etc. and during other unfavourable construction conditions. No field activities shall be performed by the Contractor under conditions which might adversely affect the quality and efficiency thereof, unless special precautions or measures are taken by the Contractor in a proper and satisfactory manner in the performance of such Works and with the Concurrence of the Employer. Such unfavourable construction conditions will in no way relieve the Contractor of his responsibility to perform the Works as per the schedule.

PROTECTION OF MONUMENTS AND REFERENCE POINTS

The Contractor shall ensure that any finds such as relic, antiquity, coins, fossils, etc. which he may come across during the course of performance of his Works either during excavation or elsewhere, are properly protected and handed over to the Employer. Similarly the Contractor shall ensure that



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the bench marks, reference points, etc., which are marked either with the help of Employer or by the Employer shall not be disturbed in any way during the performance of his Works. If, any work is to be performed which disturb such reference, the same shall be done only after these are transferred to other suitable locations under the direction of the Employer. The Contractor shall provide all necessary materials and assistance for such relocation of reference points etc.

Emergency Action Plan.

The contractor shall prepare an emergency action plan approved by his competent authority to handle any emergency occurred during construction work. Regular mock drills shall be organized to practice this emergency plan. The Emergency Action Plan should be widely circulated to all the employees and suitable infrastructure shall be provided to handle the emergencies.

Scaffolding.

The contractor shall take all precautions to prevent any accidental collapse of scaffolding or fall of persons from scaffolding. The contractor should ensure that scaffolding are designed by a competent person and its erection and repairs should be done under the expert supervision. The scaffolding shall meet the required strength and other requirements for the purpose for which the scaffold is erected. The material used for scaffold should conform to the BIS / International standards.

Opening.

The contractor shall ensure that there is no opening in any working platform/any floor of the building, which may cause fall of workers or material. Whenever an opening on a platform/any floor of the building is unavoidable, the opening should be suitably fenced and necessary measures for protection against falling objects or building workers from such platform are taken by providing suitable safety nets, safety belts or other similar means.

Explosives.

The contractor shall take all precautions while handling, using, storing or transporting of all explosives. Before usage of any explosive necessary warning /danger signals be erected at conspicuous places to warn the workers and general public. The contractor should strictly ensure that all measures and precautions required to be complied for use, handling, storing or transportation of explosives under the rules framed under the Explosives Act, 1884.

Coffer Dam and Caissons (if required)

The Contractor shall ensure that the cofferdam and caissons are of good construction and adequate strength. The cofferdam and caissons should be provided with adequate means for workers to reach safely at the top of such dams in the event of an in-rush of water. The workers should be allowed to work in a cofferdam or caisson only after inspection and found safe by Engineer-in –charge. Such inspection is to be maintained in a Register. Where the workers are employed to work in a compressed air environment at the work site of coffer dam or caissons a Construction Medical Officer assisted by a Nurse or trained first aid attendant should be available at all the times during such work.

Fencing of Machinery.



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The contractor shall provide suitable fencing or guard to all dangerous and moving parts of machinery. The contractor shall not allow any of the employees to clean, lubricate, repair, adjust or examine during machinery in motion, which may cause injury to the person. Working Platforms should be fenced and shall have means of access

Carrying of Excessive Weight by a Worker.

The worker shall not be allowed to lift by hand or carry over his head, back or shoulder more than the maximum limit set by the prescribed rules for the construction Workers.

Dangerous and Harmful Gases/Equipment.

The contractor shall ensure that the workers are not exposed to any harmful gases during any construction activity including excavation, tunnelling, confined spaces etc. The contractor should not allow any worker to go into the confined space unless it is certified by Engineer in-charge to be safe and fit for the entry to such work place. Proper record and work permits should be followed to carry out such works.

Overhead Protection.

The contractor shall ensure that any area exposed to risk of falling materials, articles or objects is roped off or cordoned off or otherwise suitably guarded from inadvertent entry of any person. Wherever there is a possibility of falling of any material, equipment or construction workers while working at heights, a suitable and adequate safety net should be provided. The safety net should be in accordance with BIS Standards.

Working at Heights.

- a) All working platforms, ways and other places of construction work shall be free from accumulations of debris or any other material causing obstructions and tripping.
- b) Wherever workers are exposed to the hazard of falling into water, the contractor shall provide adequate equipment for saving the employees from drowning and rescuing from such hazards. The contractor shall provide boat or launch equipped with sufficient number of life buoys, life jackets etc. manned with trained personnel at the site of such work.
- c) Every opening at elevation from ground level through which a building worker, vehicle, material equipment etc. may fall at a construction work shall be covered and/or guarded suitably by the contractor to prevent such falls.
- d) Wherever the workers are exposed to the hazards of falling from height, the contractor shall provide full harness safety belts fitted with fall arresting systems to all the employees working at higher elevations and life line of 8mm diameter wire rope with turn buckles for anchoring the safety belts while working or moving at higher elevations. Safety nets shall also be provided for saving them from fall from heights and such equipment should be in accordance with BIS standards.

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e) Wherever there is a possibility of falling of any material, equipment or construction workers while working at heights, a suitable and adequate safety net should be provided. The safety net should be in accordance with BIS Standards.

f) The contractor shall provide standard prefabricated ladders on the columns where the workers are required to use them as an access for higher elevations till permanent staircase is provided. The workers shall be provided with safety belts fitted with suitable fall arresting system (fall arresters) for climbing/getting down through ladders to prevent fall from height.

g) Rungs shall not be welded on columns. All the Stairs shall be provided with handrails immediately after its erection.

Handling of Hazardous Chemicals.

a) The Contractor will notify well in advance to the Engineer-in-charge of his intention to bring to the Site any container filled with liquid or gaseous fuel or explosive or petroleum substance or such chemicals which may involve hazards. GIPCL /BHEL shall have the right to prescribe the conditions, under which such container is to be stored, handled and used during the performance of the works and the Contract shall strictly adhere to and comply with such instructions. The Engineer-in-charge shall have the right at his sole discretion to inspect any such container or such construction plant / equipment for which material in the container is required to be used

And if in his opinion, its use is not safe; he may forbid its use. No claim due to such prohibition shall be entertained by GIPCL and GIPCL shall not entertain any claim of the Contractor towards additional safety provisions /conditions to be provided for / constructed.

b) Further, any such decision of the Engineer-in-charge shall not, in any way, absolve the Contractor of his responsibilities and in case, use of such a container or entry thereof into the Site area is forbidden by GIPCL L/BHEL, the Contractor shall use alternative methods with the approval of the GIPCL /BHEL without any cost implication to the GIPCL /BHEL or extension of work schedule.

c) Where it is necessary to provide and / or store petroleum products or petroleum mixtures and explosives, the Contractor shall be responsible for carrying-out such provision and / or storage in accordance with the rules and regulations laid down in Petroleum Act 1934, Explosives Act 1948, and Petroleum and Carbide of Calcium Manual published by the Chief Inspector of Explosives of India. All such storage shall have prior approval of the Engineer In-charge In case any approvals are necessary from the Chief Inspector (Explosives) or any statutory authorities; the Contractor shall be responsible for obtaining the same.

d) The Contractor shall be fully responsible for the safe storage of his and his Sub-contractor's radioactive sources in accordance with BARC/DAE (Bhabha Atomic Research Centre/ Department of Atomic Energy, Govt. of India) Rules and other applicable provisions- AU precautionary measures stipulated by BARC/DAE in connection with use, the contractor would take
Storage and handling of such material.



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e) The contractor shall provide suitable personal protective equipment's to the workers who are handling the hazardous and corrosive substances including alkalis and acids.

f) As a precautionary measure the contractor should keep the bottles filled with distilled water in cupboard / Boxes near work place for emergency eyewash by worker exposed to such hazardous chemicals.

Eye Protection.

The contractor shall provide suitable personal protective equipment to his workmen depending upon the nature of hazards and ensure their usage by the workers engaged in operations like welding, cutting, chipping, grinding or similar operations which may cause injuries to his eyes.

Excavation.

The contractor shall take all necessary measures during excavation to prevent the hazards of falling or sliding material or article from any bank or side of such excavation which is more than one and a half meter above his footing by providing adequate piling, shoring, bracing etc. against such bank or sides. Adequate and suitable warning signs shall be put up at conspicuous places at the excavation work to prevent any persons or vehicles falling into the excavation trench. No worker should be allowed to work where he may be stuck or endangered by excavation machinery or collapse of excavations or trenches.

Electrical Hazards.

a) The contractor should ensure that all electrical installations at the construction work comply with the requirements of latest electricity acts /rules.

b) The contractor shall take all adequate measures to prevent any worker from coming into physical contact with any electrical equipment or apparatus, machines or live electrical circuits which may cause electrical hazards during the construction work. The contractor shall provide the sufficient ELCBs / RCCBs for all the portable equipment's, electrical switchboards, distribution panels etc. to prevent electrical shocks.

c) The contractor should ensure use of single / double insulated hand tools or low voltage i.e., 110 volts hand tools.

d) The contractor should also ensure that all temporary electrical installations at the construction works are provided with earth leakage circuit breakers.

e) No electric cable in use by the Contractor /Employer will be disturbed without prior permission. No weight of any description will be imposed on any cable and no ladder or similar equipment will rest against or attached to it.

f) The Contractor shall employ necessary number of qualified, full time Electricians/electrical supervisors to maintain his temporary electrical installations.

Vehicular Traffic.

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The contractor should employ vehicle drivers who hold a valid driving license under the Motor Vehicles Act, 1988.

Lifting Appliances, Tools & Tackles. Lifting Gear and Pressure Plant & Equipment etc.

The contractor shall ensure all the lifting appliances, tools & tackles including cranes etc., lifting gear including fixed or movable and any plant or gear, hoists, Pressure Plant and equipment etc. are in good condition and shall be examined by competent person and only certified shall be used at sites. Periodical Examination and the tests for all lifting / hoisting equipment & tackles shall be Carried out. A register of such examinations and tests shall be properly maintained by the Contractor and will be promptly produced as and when desired by the Engineer I/c or by the person authorized by him.

Excessive Noise, Vibration.

The contractor shall take adequate measures to protect the workers against the harmful effect of excessive noise or vibration. The noise should not exceed the limits prescribed under the concerned rules. Noise Pollution (Regulation and Control) Rules, 2000.

Electrical Installations.

a) The Contractor shall not interfere or disturb electric fuses, wiring and other electrical equipment ongoing to the Employer or other contractors under any circumstances, whatsoever, unless expressly permitted in writing by the Engineer I/c to handle such fuses, wiring or electrical equipment. Before the

b) Contractor connects any electrical appliances to any plug or socket GIPCL ongoing to the other contractor or the GIPCL /BHEL, he shall :-Satisfy the Engineer I/C that the appliance is in good working condition; Inform the Engineer I/C of the maximum current rating, voltage and phases of the appliances; Obtain permission of the Engineer-in-Charge detailing the sockets to which the appliances may be connected.

c) The Engineer in-charge will not grant permission to connect until he is satisfied that :-The appliance is in good condition and is fitted with suitable plug; having earth connection with the body. Wherever armoured / metallic sheathed multi core cable is used, the same armoured / sheathed should be connected to earth.

d) No repair work shall be carried out on any live equipment. The Engineer in-Charge must declare the equipment safe and a permit to work shall be issued by the GIPCL /BHEL / contractor as the case may be to carry out any repair/ maintenance work. While working on electric lines / equipment's whether live or dead, suitable type and sufficient quantity of tools will have to be provided by the contractor to electricians / workmen / Officers.

e) The contractor shall employ necessary number of qualified, full time Electricians / Electrical Supervisors to maintain his temporary electrical installation.

f) The installations are provided with suitable ELCBs and RCCBs wherever

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required.

Safety Organisation.

a) The contractor employing more than 250 workmen whether temporary, casual, probationary, regular or permanent shall employ at least one fulltime safety officer exclusively to supervise safety aspects of the equipments and workmen, who will coordinate with the GIPCL /BHEL Safety Officer. Further requirement of safety officers, if any, shall be guided by Rule 209 of The Building and Other Construction Worker (Regulation of Employment and Conditions of Service) Central Rule 1998. In case the work is being carried out through subcontractor, the employees / workmen of the sub-contractor shall also be considered as the contractor's employees/workmen for the above purpose.

b) In case of contractor deploying less than 250 workmen he should designate one of his Engineer / supervisor or the contractor himself (if he is directly supervising the work) as safety officer in addition to his existing responsibilities. The Engineer./ supervisor should get at least 2 days safety training from any reputed organization or from GIPCL/BHEL before resuming the work. If already trained in past the declaration along with training. Certificate to be furnished to GIPCL safety officer.

c) The name and address of such Safety Officer of the Contractor will be promptly informed in writing to the EIC with a copy to the Project Safety Officer before he starts work or immediately after any change of the incumbent is made during currency of the Contract.

Reporting of Accident and Investigation.

In case any accident occurs during the construction / erection or other associated activities undertaken by the Contractor thereby causing any near miss, minor or major or fatal injury to his employees due to any reason, whatsoever, it shall be the responsibility of the Contractor to promptly inform the same to the Engineer in charge, GIPCL /BHEL Safety Officer with a copy to GIPCL /BHEL Head of Project in the prescribed form and also to all the authorities envisaged under the applicable laws.

Right to stop Work.

a) The Engineer I/C shall have the right at his sole discretion to stop the work, if in his opinion the work is being carried out in such a -way that it may cause accidents and endanger the safety of the persons and / or property, and / or equipment's. In such cases, the contractor shall be informed in Writing about the nature of hazards and possible injury / accident and he shall comply to remove shortcomings promptly. The Contractor after stopping the specific work can, if felt necessary appeal against the order of stoppage of work to the Project Manager within 3 days of such stoppage of work and decision of the Project Manager in this respect shall be conclusive and binding on the Contractor.

b) The Contractor shall not be entitled for any damages / compensation for stoppage of work due to safety reasons and the period of such stoppage of work shall not be taken as an extension of time for Completion of the Facilities and will not be the ground for waiver of levy of liquidated Damages.

Fire Protection.



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a) The contractor shall provide sufficient fire extinguishers at place /s of work. The fire extinguishers shall be properly maintained as per relevant BIS Standards. The employees shall be trained to operate the fire extinguishers / equipment.

b) The Contractor shall provide enough fire protection equipment of the types and number for the warehouses, office, temporary structures, labour colony area etc. Access to such fire protection equipment, shall be easy and kept open at all time.

c) The work procedures that are to be used during the erection shall be those which minimise fire hazards to the extent practicable. Combustible materials, combustible waste and rubbish shall be collected and removed from the Site at least once each day. Fuels, oils and volatile or flammable Materials shall be stored away from the construction and equipment and materials storage areas in safe containers. Untreated canvas, paper, plastic or other flammable flexible materials shall not at all be used at Site for any other purpose unless otherwise specified. If any such materials are Received with the equipment at the Site, the same shall be removed and replaced with acceptable material before moving into the construction or storage area.

d) Similarly corrugated paper fabricated cartons etc. will not be permitted in the construction area either for storage or for handling of materials. All such materials used shall be of water proof and flame resistant type. All the other materials such as working drawings, plans etc. which are combustible but are essential for the works to be executed shall be protected against combustion resulting from welding sparks, cutting flames and other similar fire sources.

e) All the Contractor's supervisory personnel and sufficient number of workers shall be trained for fire-fighting and shall be assigned specific fire protection duties. Enough of such trained personnel must be available at the Site during the entire period of the Contract.

Penalties.

a) If the Contractor fails in providing safe working environment as per the Safety Rules of GIPCL /BHEL or continues the work even after being instructed to stop the work by the Engineer –in-Charge as provided above, the Contractor shall be penalized at the rate of Rs. 25,000/-- per day or part thereof till the instructions are complied with and so certified by the Engineer I/C- However, in case of accident, the provisions contained below shall also apply in addition to the penalties mentioned in this sub clause.

b) If the Contractor does not take all safety precautions and / or fails to comply with the Safety Rules as prescribed by the Employer or under the applicable law for the safety of the plant and equipment and for the safety of personnel and the contractor does not prevent hazardous conditions which cause injury to this own employees or employees of other contractors, or GIPCL 's employees or any other person who are at the Site or adjacent thereto, the Contractor shall be responsible for payment of penalty to GIPCL as per the following schedule; -

a) Fatal injury or accident causing death: Penalty @10% of contract value death or Rs. 5,00,000/- per person, whichever is less.

b) Major injuries or accident causing 25% or more permanent disablement to workmen or employees. Penalty @2.5 % of contract value or Rs.1,00,000/- per person, whichever is less.



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Permanent disablement shall have the same meaning as indicated in The Workmen's Compensation Act' 1923. The penalty mentioned above shall be in addition to the compensation payable to the workmen / employees under the relevant provisions of the Workmen's Compensation Act' 1923 and rules framed there under or any other applicable laws as applicable from time to time.

c) If any contractor worker found working without using the safety equipment like safety helmet, safety shoes, safety belts, etc. or without anchoring the safety belts while working at height the Engineer in-charge / Safety Officer of GIPCL shall have the right to penalize the contractor for Rs. 200/- per person per day and such worker shall be sent out of the workplace immediately and shall not be allowed to work on that day. Engineer in charge/ Safety Officer of GIPCL will also issue a notice in this regard to the contractor.

d) If two or more fatal accidents occur at same GIPCL site under the control of contractor during the period of contract and he has:-

- (1) Not complied with keeping adequate PPEs in stock,
- (2) Defaulted in providing PPR's to his workmen
- (3) Not followed statutory requirements / GIPCL safety rules
- (4) Been issued warning notice/s by GIPCL head of the project on non observance of safety norms

(5) Not provided safety training to all his workmen, the contractor can

Be debarred from getting tender documents in GIPCL for two years from the date of last accident.

e) The safety performance will also be one of the overriding criteria for evaluation of overall performance of the contractors by GIPCL. The contractor shall submit the accident data including fatal / non-fatal accidents for the last 3 years where he has undertaken the construction activities Projects-wise along with the tender documents. This will also be considered for evolution of tender documents. If the information given by the contractor found incorrect, his contract will be liable to be terminated.

Royalty certificates to be supplied by the contractor.



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| Sl. No | Activity and operation | Characteristics / instruments | Class of Check | Type of Check | Quantum Of check | Reference Document | Remarks |
|--------|--|---|---|---------------|---|--|--|
| 1 | 2 | 3 | | 4 | 5 | 6 | 7 |
| 1.0 | EXCAVATION AND FILLING IN FOUNDATION WORKS (For Buildings, Transformer foundation, Cable Trench, Drains, Switch Yard, Water Tank ,Fencing and Septic Tank) | | | | | | |
| | Excavations- | | | | | | |
| 1.1 | | Nature, type of soil/rock before and during excavations | As required | C | Visual | Random in each shift | Tech Specs or Const. Drawings |
| 1.2 | | Initial ground level before start of excavations | As required | C | Measurement | 100% | Tech Specs or Const. Drawings |
| 1.3 | | Final shape and Dimensions of excavations. | As required | C | Measurement | 100% | Tech Specs or Const. Drawings |
| 1.4 | | Final excavation lelvels | As required | B | Measuement | 100% | Tech Specs or Const. Drawings |
| | Filling | | | | | | |
| 1.5 | Standard proctor Test | Optimum moisture content and max. dry density before fill | As per IS: 2720, Proctor needle apparatus,etc. | B | Physical | Once for each source & for every change of source | IS 2720 (Pt.VII), Tech Specs and Const. Drawings |
| 1.6 | Degree Of Compaction Of Filling | | | | | | |
| i | | Dry density by core cutter method | As per IS: 2720/compaction test (core cutter), balance, rapid moisture meter etc. | A | Physical | One Sample in every 2000 SQm area for each compacted layer | IS 2720 (Pt. XXIX), Tech Specs and Const. Drawings |
| 2.0 | MATERIALS | | | | | | |
| 2.1 | CEMENT (43 grade only) | | | | | | |
| i | | cement | as per IS:4031 | A | Review of MTC | For each lot received at site | As per relevant IS Codes & Each consignment of cement shall be duly correlated with manufactureres TC. |
| ii | | Retesting of cement | as per IS:4031 | A | Testing in NABL accredited Lab/Govt. Engg institutes only | For each lot received at site | As per relevant IS Codes & Each consignment of cement shall be duly correlated with manufactureres TC. If cement bags are stored for more than 3 months |
| 2.2 | Coarse Aggregate | | | | | | |
| | | Moisture content | as per IS:2386 | A | Physical | Once for each source & for every change of source | IS : 456 IS : 383/Tech Spec Along with design mix |
| ii | | Specific gravity, water absorption | IS:2386 | A | Physical | Once for each source & for every change of source | IS: 2386 Part-III, IS:456, IS:383/Tech Spec Along with design mix |
| iii | | Sieve analysis, flakiness index, elongation index, | IS:2386 | A | Physical | Once for each source & for every change of source | IS: 2386 Part-I, IS:383/Tech Spec Along with design mix |
| iv | | Deleterious materials (coal & lignite, clay lumps, material finer than 75 micron sieve, soft fragment, shale) | IS:2386 | A | Physical | Once per source/ on every change of source | IS: 2386 Part-II, IS:383/Tech Spec Along with design mix |
| v | | Soundness | IS:2386 | A | Physical | -do- | IS: 2386 Part-V, IS:383 Along with design mix |
| vi | | Impact value test | IS:2386 | A | Physical | -do- | IS:383, IS-2386 Part IV/Tech Spec Along with design mix |
| 2.3 | Fine Aggregate | | | | | | |
| i | | Moisture content | balance , oven, rapid moisture meter etc | A | Physical | To be done every day before start of work | IS: 2386 Part-III, IS:383 Along with design mix |
| ii | | Deleterious materials (coal & lignite, clay lumps, material finer than 75 micron sieve, soft fragment, shale) | IS:2386 | A | Physical | Once per source& for on every change of source | IS: 2386 Part-II, IS:383 Along with design mix |

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| Sl. No | Activity and operation | Characteristics / instruments | | Class of Check | Type of Check | Quantum Of check | Reference Document | Remarks |
|--------|---|---|----------------|----------------|--|--|---|---|
| 1 | 2 | 3 | | | 4 | 5 | 6 | 7 |
| 2.4 | Water | | | | | | | |
| i | | Complete tests as per IS:456 | as per IS:456 | B | Testing | One for each source. | IS:3025 part 22 and 23 (for test procedure), IS:456(for acceptance criteria) | Along with design mix |
| 2.5 | CONCRETE (For Buildings, Transformer foundation, Cable Trench, Drains, Switch Yard, Water Tank,Fencing and Septic Tank) | | | | | | | |
| i | | Compressive strength (works Tests cubes) | IS:516 | A | Physical | One set of 6 cubes per 50 CuM or part thereof for M25 grade of concrete. | IS:516, IS:456. | Min. of 6 cubes for each sift shall be taken where the concrete quantity is low. |
| ii | | Workability - slump test | IS:1199 | A | Physical | At the time of concrete pouring at site | IS:456 | |
| 2.5.1 | RMC CONCRETE | Design mix and cube test | IS:516 | A | Physical | Review and approval of concrete mix design report from RMC supplier,Review and approval of concrete mix design reports for periodic cube tests from the supply | IS:456 | |
| 2.5.2 | Admixtures for Concrete | Type of admixture | As per IS:9103 | A | Review of MTC | For each lot received at site | Designed mix and IS:9103 | *MTC = Manufacturer's Test Certificate |
| 2.6 | REINFORCEMENT STEEL | | | | | | | |
| i | | Physical & Chemical Properties. | As required | A | Review of MTC | For each lot received at site | IS : 1786, IS:432, IS:1566, Tech Specs and Const. Drawings | 1.Each consignment of steel shall be duly correlated with manufactureres TC. 2.TMT bars of grade Fe500D to be used |
| 2.7 | PLACEMENT OF REINFORCEMENT STEEL | | | | | | | |
| i | | Bar bending schedule with necessary lap, Spacers & Chairs | As required | A | Visual & Measurement | Random in each shift | Approved Drawings, Tech Specs and Const. Drawings, IS:2502 | |
| ii | | Bending of bars, cutting tolerance | As required | B | Visual & Measurement | Random in each shift | Approved Drawings, Tech Specs and Const. Drawings, IS:2502 | |
| iii | | Acceptance - Cover, spacing of bars, spacers and chairs after the reinforcement cage is put inside the formwork | As required | A | Visual & Measurement | Random in each shift | Approved Drawings, Tech Specs and Const. Drawings | |
| 2.8 | STAGING AND FORMS | | | | | | | |
| i | | Materials and accessories | As required | A | Visual | Once before start of work | As per relevant IS, Tech Specs and Const. Drawings | |
| ii | | Soundness of staging, shuttering and scaffolding including application of mould oil / release agent | As required | A | Visual | Once before start of work | As per manufacturer's spec.and as per 3696,4014, 4990, Tech Specs and Const. Drawings | |
| iii | | Acceptance of formwork before start of concreting | | A | Physical / visual | Before start of each concreting | As per provisions and tolerances, Tech Specs and Const. Drawings | |
| 2.9 | BRICK MASONARY | | | | | | | |
| 2.9.1 | Test on Bricks | | | | | | | |
| | | Dimensions , shape, compressive strength, water absorption, warpage, efflorescence. | As required | A | Measurement/ Physical Test/Testing in NABL accredited Lab/Govt. Engg institutes only | Once for each source & for every change of source | IS: 1077, IS:13757, IS: 12894 ,IS:2212,IS:3495/ Tech Specs and const. Drawings | Efflorescence shall be checked at each source. |

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| Sl. No | Activity and operation | Characteristics / instruments | | Class of Check | Type of Check | Quantum Of check | Reference Document | Remarks |
|--------|---|---|---------------|----------------|--------------------------|---------------------------------|---|---------|
| 1 | 2 | 3 | | | 4 | 5 | 6 | 7 |
| 2.9.2 | Masonry construction | Workmanship, verticality and alignment | As required | A | Visual/ Physical | 100% | IS 2212, IS 1905 , Tech Specs and Const. Drawings | |
| 3.00 | FINISHING AND ALLIED WORKS | | | | | | | |
| 3.1 | PLASTERING - WORKMANSHIP | | | | | | | |
| i | | Curing | As required | C | Physical | 100% | Tech specifications, construction drawings and agreed methodology | |
| ii | | Thickness and finishing of plaster, grooves etc | As required | B | Visual/ Measurement | Random in each shift | Tech Specs and Const. Drawings | |
| iii | | Truness of plastering system | As required | B | Visual/ Physical | Random in each shift | Tech Specs and Const. Drawings | |
| 4.00 | FENCING, GATES AND OTHER FINISHING WORKS | | | | | | | |
| 4.1 | Fencing and Gates | | | | | | | |
| i | GI Chain link mesh fabric, GI Concertina wire. | Materials | As required | B | Physical | Each batch of delivery | Tech Specs and Const. Drawings | |
| ii | | Acceptance of the installation | As required | C | Physical / measurements | Each installation | Tech Specs and Const. Drawings | |
| 4.2 | FLOOR FINISHES AND ALIED WORKS | | | | | | | |
| 4.2.1 | Tiles | | | | | | | |
| i | Ceramic, vitrified, glass mosaic, acid alkali resistant, heavy duty cement concrete tiles | Materials | As required | A | Physical/Review of MTC | Each lot of delivery | Tech Specs and Const. Drawings | |
| ii | | Finishing and acceptance | As required | A | Physical/Review of MTC | 100% | Tech Specs and Const. Drawings | |
| 4.2.2 | Kota Stone, Granite and Marble | | | | | | | |
| i | | Quality, texture, thickness, colour for each lot of delivery from approved source | As required | C | Physical | Each batch of delivery | Tech Specs and Const. Drawings | |
| ii | | Finishing and acceptance | As required | B | Physical | 100% | Tech Specs and Const. Drawings | |
| 5.0 | WATER SUPPLY / SANITORY INSTALLATIONS | | | | | | | |
| ii | | Aceptance and leakage | As required | A | Acceptance/Review of MTC | Random | Tech Specs and Const. Drawings | |
| 5.1 | WATER PROOFING For Buildings | | | | | | | |
| | | Methodology for the application of water proofing system | As required | B | Review / Review of MTC | for each type of treatment | Tech Specs and Const. Drawings | |
| 5.1.1 | General Requirement- 5 Layered Water Proofing | | | | | | | |
| i | Bitumen Primer | Material-Primer coat, finishing coat | As required | A | Physical / Review of MTC | For each batch received at site | Tech Specs /Const. Drawings | |
| ii | Binding material shall consists of Blown type bitumen of grade 85/25 | Acceptance of water proofing work | As per IS:702 | A | Physical / Review of MTC | For each batch received at site | Tech Specs and Const. Drawings | |
| iii | APP modified polymeric membrane | | As required | A | Physical / Review of MTC | For each lot received at site | Tech Specs and Const. Drawings | |
| iv | Binding material shall consists of Blown type bitumen of grade 85/25 | | As per IS:702 | A | Physical / Review of MTC | For each batch received at site | Tech Specs and Const. Drawings | |

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| Sl. No | Activity and operation | Characteristics / instruments | | Class of Check | Type of Check | Quantum Of check | Reference Document | Remarks |
|--------|--|--|----------------------|----------------|---|--|---|---|
| 1 | 2 | 3 | | | 4 | 5 | 6 | 7 |
| v | Brick tiles of CM 1:3 | | As required | A | Physical / Review of MTC | For each lot received at site | Tech Specs and Const. Drawings | |
| 6.1 | PAINTING SYSTEM - CONCRETE WORKS AND PLASTERED MASONRY SURFACES | | | | | | | |
| i | Materials and accessories- Oil Bound, Acrylic Emulsion, Chemical Resistant, Oil Resistant Paint etc. | Shade, type from brand and manufacturer as approved by BHEL/GSECL Civil Engineer | As agreed / required | A | BHEL/GSECL Approved source/Review of MTC | Invoice/DC from approved dealer/stockist | Tech Specs and Const. Drawings ,SR | |
| ii | Surface preparation | As required | As agreed / required | B | Physical /visual | Random in each shift | Tech Specs and Const. Drawings ,SR | |
| iii | Acceptance of painted surfaces | As required | As agreed / required | B | Physical | Each surface at random | Tech Specs and Const. Drawings ,SR | |
| 6.1.1 | PAINTING SYSTEM - STEEL WORKS (OTHER THAN STRUCTURAL STEEL WORKS) | | | | | | | |
| i | | Painting Materials and accessories | - | A | BHEL/GSECL Approved source | Invoice/DC from approved dealer/stockist | Tech Specs and Const. Drawings,SR/DC/Invoice | |
| ii | | Surface preparation | As agreed / required | A | Physical /visual | Applied area at random | Tech Specs and Const. Drawings, Relevant code/ standards ,SR | |
| iii | | Acceptance of painted surfaces | As agreed / required | A | Visual and measurement | Applied area at random | Tech Specs and Const. Drawings,SR | |
| 7.00 | DOORS , WINDOWS VENTILATORS & GRILL | | | | | | | |
| 7.1 | Steel doors | | | | | | | |
| i | | Materials (MS sheet, fasteners, hinges, jambs, lock strike plate etc | As agreed / required | C | Visual/ Physical dimensions report | For each lot received at site | IS 2062, IS 7452, IS 1081/ Tech Specs and Const. Drawings,SR / LB | Review of Manufacturer/Fabricator shop inspection report/Invoice/DC |
| ii | | Flush Door shutters, teak beading | As agreed / required | C | BHEL/GSECL Approved source and review of DC/Invoice / Review of MTC | For each lot received at site | IS 2202, Tech Specs and Const. Drawings,SR | Review of Manufacturer/Fabricator shop inspection report/Invoice/DC |
| iii | | Hollow metal doors (material and dimensions) | As agreed / required | C | Visual/ Physical dimensions report | For each lot received at site | Tech Specs and Const. Drawings | Review of Manufacturer/Fabricator shop inspection report/Invoice/DC |
| iv | | Acceptance | As agreed / required | C | Visual/ Physical | Random | Tech Specs and Const. Drawings,SR/LB | |
| 7.2 | Aluminium works | | | | | | | |
| i | | Materials- Aluminium sections | As agreed / required | B | Visual/ Physical dimensions report and review of Invoice/DC for source of approved make / Review of MTC | For each lot received at site | IS: 1948, IS: 1949, IS:733, IS1285, IS:1868, IS:11857/ Tech Specs and Const. Drawings,SR / LB | Review of Manufacturer/Fabricator shop inspection report/Invoice/DC |
| ii | | Particle Door ,Toilet doors | As agreed / required | B | BHEL/GSECL Approved source and review of DC/Invoice / Review of MTC | For each lot received at site | IS:12823 (phenol formaldehyde sythetic resin, BWP type), FRP panels and frames, Tech Specs and Const. Drawings,SR | Review of Manufacturer/Fabricator shop inspection report/Invoice/DC |
| iii | | Acceptance | As agreed / required | B | Visual/ Physical | Random | Tech Specs and Const. Drawings,SR | |
| 7.3 | Steel windows / Grills/ Louver/ Rolling shutter | | | | | | | |

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| Sl. No | Activity and operation | Characteristics / instruments | | Class of Check | Type of Check | Quantum Of check | Reference Document | Remarks |
|---|---|---|----------------------|----------------|---|---|--|---|
| 1 | 2 | 3 | | | 4 | 5 | 6 | 7 |
| i | | Material fabrication and fixtures | As agreed / required | B | BHEL/GSECL Approved source and review of DC/Invoice /Review of MTC | Each lot of delivery | IS: 1038 / IS:1361, IS: 7452 and Tech Specs and Const. Drawings,SR | Review of Manufacturer/Fabricator shop inspection report/Invoice/DC |
| ii | | Finishing and acceptance | As agreed / required | B | Visual / physical | Random | IS: 1038 / IS:1361, IS: 7452 and Tech Specs and Const. Drawings,SR | Review of Manufacturer/Fabricator shop inspection report/Invoice/DC |
| 7.4 Glass and glazing | | | | | | | | |
| i | Clear float glass, tinted glass, curtain glass, hermetically sealed glass | Material | As agreed / required | A | BHEL/GSECL Approved source and review of Dealer/Suppliers Invoice /DC / Review of MTC | For each lot received at site | IS:1081, IS: 3548, Tech Specs and Const. Drawings,SR | |
| ii | | Installation finishing and acceptance | As agreed / required | A | Visual/ Physical | Random | Tech Specs and Const. Drawings,SR | Leak proof installation with neoprene gasket |
| 7.5 False Ceiling | | | | | | | | |
| i | | 600*600*12mm gypsum tile false ceiling with AL grid | As agreed / required | B | BHEL/GSECL Approved source and review of Dealer/Suppliers Invoice /DC / Review of MTC | Physical inspection | Tech Specs and Const. Drawings,SR | |
| ii | | Installation finishing and acceptance | As agreed / required | B | Visual / physical | Random | Tech Specs and Const. Drawings,SR | |
| 8 Water Storage Tanks | | | | | | | | |
| i | Material | Over head / loft type | As agreed / required | A | BHEL/GSECL Approved source /Review of MTC | Each lot of delivery as per Specifications | Tech Specs and Const. Drawings,SR | |
| ii | | Acceptance and leakage | As agreed / required | A | Acceptance | Random | Tech Specs and Const. Drawings,SR | |
| 9.0 ROAD WORKS | | | | | | | | |
| 9.1 Construction of Sub-Grade and earthen/hard soulders | | | | | | | | |
| i | | Coordinate and center line marking and checking | As agreed / required | A | Visual/ Physical dimensions report | Random | Tech Specs and Const. Drawings | |
| i | | Standard proctor Test | As per IS: 2720 | A | Physical | Once for each type and source of fill materials | As per Tech Specs and Const. Drawings,Section 900 of MORTH specification 5th Rev., IS 2720 (Pt.VII) | |
| ii | | Moisture content of fill before compaction | As per IS: 2720 | B | Physical | Once for each type and source of fill materials | As per Tech Specs and Const. Drawings, Section 900 of MORTH specification 5th Rev., IS 2720 (Pt.II) | |
| iii | | Dry density by core cutter method | As per IS: 2720 | A | Physical | Once in every 1000 SQM area of subgrade & 1000 SQM area of embankment for each compacted layer. | As per Tech Specs and Const. Drawings, Section 900 of MORTH specification 5th Rev., IS 2720 (Pt. XXIX) | |
| 9.2 Water Bound Macadam (Non-Bituminous) for base course and sub-base course | | | | | | | | |

FIELD QUALITY PLAN (FQP-CIVIL) FOR 100 MWp SOLAR PV PROJECT - GSECL RAGHANESDA PHASE-I

| Sl. No | Activity and operation | Characteristics / instruments | | Class of Check | Type of Check | Quantum Of check | Reference Document | Remarks |
|---|------------------------|---|--|----------------|--------------------------|--|--|---------|
| 1 | 2 | 3 | | | 4 | 5 | 6 | 7 |
| i | | Aggregate Impact value | Aggreagate Impact value Test Apparatus | A | Physical | One test of each source and whenever there is change in quality of aggregate | As perTech Specs and Const. Drawings, Section 900 of MORTH specification 5th Rev. | |
| ii | | Grading | Set of IS Sieves | B | Physical | One test of each source and whenever there is change in quality of aggregate | As perTech Specs and Const. Drawings, Section 900 of MORTH specification 5th Rev. | |
| iii | | Flakiness index and elongation index | Flakiness test gauge | B | Physical | One test of each source and whenever there is change in quality of aggregate | As perTech Specs and Const. Drawings, Section 900 of MORTH specification, | |
| iv | | Atterberg Limits of binding material | Atterberg limits determination | A | Physical | One test of each source and whenever there is change in quality of aggregate | As perTech Specs and Const. Drawings, Section 900 of MORTH specification 5th Rev. | |
| 9.3 Bituminous Surfacing - Open graded premix carpet and Seal coat | | | | | | | | |
| i | | Quality of binder | Penetrometre with St. needle | A | Physical / Review of MTC | No. of samples per Lot & tests as per IS:73, IS:217, IS:8887 as applicable | IS 73,Tech Specs and Const. Drawings, Section 900 of MORTH specification 5th Rev. | |
| ii | | Aggregate Impact Value / Los angeles abrasion value | Aggregate Impact ValueTest apparatus | B | Physical | One test of each source and whenever there is change in quality of aggregate | As per Tech Specs and Const. Drawings, Section 900 of MORTH specification 5th Rev. | |
| iii | | Flakiness Index and elongation index of aggregates | Flakiness test gauge | B | Physical | One test of each source and whenever there is change in quality of aggregate | As per Tech Specs and Const. Drawings, Section 900 of MORTH specification 5th Rev. | |
| iv | | Stripping value of aggregate (Immersion tray test) | As required | B | Physical | One test of each source and whenever there is change in quality of aggregate | As per Tech Specs and Const. Drawings, Section 900 of MORTH specification 5th Rev. | |
| v | | Water absorption test | As required | A | Physical | One test of each source and whenever there is change in quality of aggregate | As per Tech Specs and Const. Drawings, Section 900 of MORTH specification 5th Rev. | |
| vi | | Water sensitivity of mix | As required | A | Physical | One test of each source and whenever there is change in quality of aggregate | As per Tech Specs and Const. Drawings, Section 900 of MORTH specification 5th Rev. | |
| vii | | Grading of aggregates | Set of Sieves | B | Physical | One test of each source and whenever there is change in quality of aggregate | As per Tech Specs and Const. Drawings, Section 900 of MORTH specification 5th Rev. | |
| viii | | Soundness (Magnesium and Sodium Sulphate) | As required as per IS:2386 | A | Physical | One test of each source and whenever there is change in quality of aggregate | As per Tech Specs and Const. Drawings, Section 900 of MORTH specification 5th Rev. | |
| ix | | Polished stone value | As required as per BS:812(Part 114) | B | Physical | One test of each source and whenever there is change in quality of aggregate | As per Tech Specs and Const. Drawings, Section 900 of MORTH specification 5th Rev. | |

| FIELD QUALITY PLAN (FQP-CIVIL) FOR 100 MWp SOLAR PV PROJECT - GSECL RAGHANESDA PHASE-I | | | | | | | | |
|--|----------------------------------|---------------------------------------|-----------------------------------|----------------|--------------------------|--|--|-------------------------------------|
| Sl. No | Activity and operation | Characteristics / instruments | | Class of Check | Type of Check | Quantum Of check | Reference Document | Remarks |
| 1 | 2 | 3 | | | 4 | 5 | 6 | 7 |
| x | | Temperature of binder at application | Thermometer | A | Physical | At regular close intervals | As per Tech Specs and Const. Drawings, Section 900 of MORTH specification 5th Rev. | |
| xi | | Bitumen content | Bitumen extractor | A | Physical / Review of MTC | one tests per day per plant | As per Tech Specs and Const. Drawings, Section 900 of MORTH specification 5th Rev. | |
| xii | | Percentage of fractured faces | Bitumen extractor | A | Physical | When gravel is used one test per 100 cum of aggregates | As per Tech Specs and Const. Drawings, Section 900 of MORTH specification 5th Rev. | |
| 9.4 | Tack Coat/ Prime coat/ fog coat | | | | | | | |
| i | | Quality of binder | Penetrometre with Standard needle | A | Physical / Review of MTC | One test of each source | IS 73,Tech Specs and Const. Drawings, Section 900 of MORTH specification 5th Rev. | |
| ii | | Temperature of binder at application | Thermometer | B | Physical | At regular close intervals | As per Tech Specs and Const. Drawings, Section 900 of MORTH specification 5th Rev. | |
| iii | | Rate of spread of binder | As required | B | Physical | three tests per day | As per Tech Specs and Const. Drawings, Section 900 of MORTH specification 5th Rev. | |
| 9.50 | Hot mix plant | Quality | As required | B | Physical | Review and approval of hot mix design report from supplier,Review and approval of periodic tests from supplier | As per Tech Specs and Const. Drawings, | |
| 10.00 | MMS PILING WORKS | | | | | | | |
| i | | Coordinates of Pile | Marking with Total station | B | Physical | Each Pile | Tech Specs or Const. Drawings | RANDOM CHECK BY GSECL FQA ENGINEERS |
| ii | | Drilling of Piles | DTH/Auger | B | Physical | Each Pile | Tech Specs or Const. Drawings | |
| iii | Dimensions of Pile | Depth and Dia | Measuring Tape | B | Physical | Each Pile | Tech Specs or Const. Drawings | |
| iv | | Verticality | Spirit Level | B | Physical | Each Pile | Tech Specs or Const. Drawings | |
| v | Anchor Bolt | Length & Dia | Measuring Tape | B | Physical / Review of MTC | Each Pile | Tech Specs or Const. Drawings | |
| vi | | Projection above first stage concrete | As required | B | Physical | Each Pile | Tech Specs or Const. Drawings | |
| vii | Pile cap | Height & Dia | Measuring Tape | B | Physical | Each Pile | Tech Specs or Const. Drawings | |
| viii | | Verticality and alignment | Spirit Level | B | Physical | Each Pile | Tech Specs or Const. Drawings | |
| ix | | acceptance of pile and pile cap | Visually | B | Physical | Each Pile | Tech Specs or Const. Drawings | |
| 11.0 | FURNITURE ITEMS | | | | | | | |
| i | | Materials | As required | B | Physical / Review of MTC | Each batch of delivery | Tech Specs and Const. Drawings | |
| | | Acceptance of the installation | As required | B | Physical / measurements | Each installation | Tech Specs and Const. Drawings | |
| 12.0 | Water Tank(Concrete underground) | | | | | | | |

| FIELD QUALITY PLAN (FQP-CIVIL) FOR 100 MWp SOLAR PV PROJECT - GSECL RAGHANESDA PHASE-I | | | | | | | | | |
|--|------------------------|---|-------------|----------------|---|-------------------|--------------------------------|-------------|---------------|
| Sl. No | Activity and operation | Characteristics / instruments | | Class of Check | Type of Check | Quantum Of check | Reference Document | | Remarks |
| 1 | 2 | 3 | | | 4 | 5 | 6 | | 7 |
| i | | Acceptance of the installation | As required | A | Water tightness test /Physical / measurements | Each installation | Tech Specs and Const. Drawings | | |
| | | Legend to be used: Class # : A = Critical, B=Major, C=Minor; | | | | | | | |
| Manufac turer/ Sub-supplier | Main-supplier | Categorization Witnessing & Accepting Category ‘A’ GSECL FQA Engineer in association with BHEL and Sub-contractor Engineer, Category ‘B’ BHEL and Sub-contractor Engineer, Category ‘C’ Sub-contractor Engineer; MTC = Manufacturer’s Test Certificate: SR = Site Register; TC =Test certificate from lab,external agency. | | | | | | | |
| Signature | | This document shall be read in conjunction with BHEL/GSECL Tech. Specifications, BOQ, Drawings | | | | | REVIEWED BY | APPROVED BY | APPROVAL SEAL |

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REF. DRG. No.

SIGN. & DATE

INVENTORY No.

1

2

3

4

5

6

7

8

A

B

C

D

E

F

G

1530

1480

116

267

267

29

354

29

267

267

85CS50X2

Q OF SCB FUSE

Q OF DC DISCONNECTOR

267

10MMØ(TYP.) FOR M8

150

150

150

Q OF SCB

150

150

150

85CS50X2 RAFTER

120CS50X2.5 COLUMN

2815

750

FGL

200

300Ø- PILE M-25

1500

300

75

FRONT ELEVATION

PRECOATED GALVANISED IRON SHEETS 1MM(SHT 300X1500)

5.5MM SELF TAPPING SCREW WITH EPDM WASHER

210

25

40

SCB

Ø12

1046

52°

120CS50X2.5 COLUMN

842

200

200

1000

75

300

300

300

75

SECTION 1-1

SIDE VIEW

NOTES:-

1. ALL DIMENSIONS ARE IN MM & LEVELS ARE IN METRES.

2. FIGURED DIMENSIONS ONLY SHALL BE FOLLOWED.

3. ALL R.C.C. SHALL BE MIX M-25

PROJECT :100MW RAGHENSADHA,

CUSTOMER : GSECL, GUJRAT

BHARAT HEAVY ELECTRICALS LIMITED.

SOLAR BUSINESS DIVISION, BANGALORE

TITLE:

MOUNTING ARRANGEMENT OF SCB

No. OF SHEETS 01

SHEET No. 01

REV 00

BEL DRG. No.

BHEL DRG. No.

| REV. | DATE | ALTERED | REV. | DATE | ALTERED |
|------|------|----------|------|------|----------|
| | | CHECKED | | | CHECKED |
| | | APPROVED | | | APPROVED |

| NAME | SIGN | DATE |
|------|------|------|
| | | |
| | | |
| | | |

| DISTRIBUTION OF PRINTS | | | DEPT. | CODE |
|------------------------|--|--|-------|------|
| | | | | |
| | | | | |
| | | | | |

DRG. No.

DEPT.

CODE

BEL DRG. No.

BHEL DRG. No.



TENDER DOCUMENT

PART – A

VOLUME - II

| | |
|-----|-----------------------------------|
| 1. | INSTRUCTION TO BIDDER |
| 2. | EARNEST MONEY DEPOSIT (EMD): |
| 3. | SECURITY DEPOSIT (SD) : |
| 4. | NON DISCLOSURE AGREEMENT |
| 5. | CONFIDENTIALITY |
| 6. | STATUTORY REQUIREMENTS |
| 7. | PERIOD OF CONTRACT |
| 8. | FAILURE TO COMPLY WITH CONTRACT |
| 9. | SUB-CONTRACTING |
| 10. | LAWS GOVERNING THE CONTRACT |
| 11. | LEGAL JURISDICTION: |
| 12. | ARBITRATION & CONCILIATION: |
| 13. | COMPENSATION: |
| 14. | PENALTY/ LD FOR DELAYED DELIVERY |
| 15. | REVERSE AUCTION |
| 16. | CONCILIATION CLAUSE – Annexure IA |
| 17. | MAKE IN INDIA CLAUSE |
| 18. | FORMATS |



| | |
|-------|---|
| 1. | INSTRUCTION TO BIDDER |
| 1.1. | Tender is a two-part bid system. The tender documents consist of Part - A and Part - B as detailed below: a. Part 'A': Techno-commercial Bid duly sealed and signed to be uploaded at the web-portal (https://eprocurebhel.co.in) on or before the due date. b. Part 'B': Price Bid to be quoted in prescribed format available on web portal (https://eprocurebhel.co.in) on or before the due date. |
| 1.2. | Envelope 1: Techno-Commercial Offer a. Documents to be uploaded at NIC web portal (https://eprocurebhel.co.in): i. Earnest Money Deposit (EMD) either in the form of DD or UTR Number (if paid through EFT) at the space provided. ii. Duly completed tender documents volume I&II(Part-A) sign and Sealed. iii. Each and every page of tender documents should be sealed signed. iv. Documents satisfying PQR/Eligibility Criteria as per relevant clause of NIT. v. Any other documents as per Tender requirements. vi. Each and every page of tender documents should be sealed & signed by the tenderer vii. Any other documents as per Tender requirements. b. The tenderer shall not indicate the price or rate in this Envelope. Envelope 2: Part 'B': Online Price-Bid. i. To be submitted online at NIC web portal (https://eprocurebhel.co.in) |
| 1.3. | The tenderer shall expressly accept all the terms and conditions of the Tender. The tender which does not comply with the BHEL's Terms & Conditions may be rejected as Non-responsive/non-conforming and non-acceptable. |
| 1.4. | The techno-commercial offer will be opened on the due date. The tenders meeting our techno-commercial requirements will be considered for online initial sealed bid auction at a later date for which eligible vendors will be intimated in due course. |
| 1.5. | The tender forms duly filled in all respects shall be signed on each page by the tenderer. Any alteration, erasing will render the tender invalid. Corrections, over writing, cutting(s) etc. are not permitted. All entries in the tender document should be in one ink. All the columns in the tender form should be filled without leaving any column blank in any page of the tender. In case any of the relevant columns are left blank, the tender can be rejected. However, alteration neatly carried out and duly attested over with the full signature of the tenderer is permitted. |
| 1.6. | The tenderer should submit the tender documents intact without detaching any page or pages |
| 1.7. | Before making the offer, the bidders are advised to carefully go through the terms and conditions, which form part of the Agreement. |
| 1.8. | Tender documents consisting of Part 'A' Volume I & II duly sealed and signed and Part 'B' shall be uploaded duly on or before the said Date and Time. Part 'A' Volume I & II of tender form i.e. PQR and Techno-commercial Bid will be opened on specified Tender Due Date and Time. Bidders who qualify the PQR & Techno-commercial Bid will be intimated to participate in R.A. |
| 1.9. | BHEL reserves the right to assess the capacity and capability of the parties for pre-qualification. The company also reserves the right to accept or reject any or all the tenders or any part thereof at any stage of process without assigning any reason whatsoever. The company has no obligation to accept the lowest tender. Offer of the Tenderer if prima-facie found not comparable with the quantum of work envisaged and the bid is a desperate effort to be L1, then the offer is liable to be rejected. BHEL's decision in this regard shall be final and binding. |
| 1.10. | PRICE BID - The tenderers are required to submit their quotation for all the items listed in the Price Bid format given along with the tender documents. The price should be quoted for each activity after careful study of the actual job requirement so that, in case the contract is awarded, contractor should not express any difficulties in execution of the contract. |
| 1.11. | Contractor to ensure payment of Minimum Wages payable as per statutory provisions of the Appropriate Govt. |



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| 1.12. | VALIDITY OF RATES: The rates quoted should be valid for 90 days initially from the date of opening of the Techno-Commercial bid. (Part-A) |
| 1.13. | The rates shall include the payments on account of Employee contribution to PF, PF Admin. Charges, EDLI, Employer contribution to ESI, Gratuity, Bonus as per statutory requirement, applicable taxes, as per the directives issued by BHEL from time to time. |
| 1.14. | BHEL reserves the right to reject any bid, which is technically unacceptable and unworkable. Further BHEL also reserves the right to reject any or all tenders without assigning any reasons thereof. |
| 1.15. | BHEL reserves the right to cancel the contract at the initial stage or during the contract period without assigning any reason to the tenderer. |
| 1.16. | Wherever prescribed formats are specified for the tenderers use, he shall use the same for making his Claims. |
| 1.17. | Tender document should be complete in all respects. |
| 1.18. | Successful tenderers shall enter into an Agreement on a non-judicial stamp paper of Rs.100/- as a token of having accepted the rates, terms and conditions of the contract as per the Proforma given by BHEL. |
| 1.19. | The Offers should be in full conformity with the terms and conditions of this tender. No contradictions are acceptable. Incorrect and incomplete tenders are liable for rejection. |
| 1.20. | Tenders not submitted in the prescribed forms are liable for rejection. |
| 1.21. | BHEL reserves the right to accept or reject any tender in part or full at their discretion without assigning any reason. |
| 1.22. | If a tenderer deliberately gives wrong information in his tender or creates conditions favorable for the acceptance of his tender, then BHEL reserves the right to reject such tender at any stage. |
| 1.23. | If the tenderer indulges in any unethical practice for securing the contract, the offer of such tenderer shall be rejected. |
| 1.24. | Any written communication required to be sent to the contractor in writing shall be sent at the address mentioned on the tender form or to any other address subsequently intimated by contractor in writing to BHEL SBD for the contract purposes. |
| 1.25. | Benefit (including Turn Over and experience criteria) for MSME / NSIC bidders not available in this contract. |
| 1.26. | Start-up companies will be provided benefits and relaxation as per the latest government norms. For availing start-up benefits, relevant certificates issued by Department for Promotion of Industry and Internal Trade shall be submitted along with the tender. |
| 1.27. | Evaluation of Bids |
| 1.28. | Techno-Commercial Bid & PQR: The techno-commercial bid & PQR will be evaluated based on the eligibility criteria and on acceptance of NIT terms and conditions of BHEL. Only qualified bids will be eligible for price-bid opening. |
| 1.29. | Evaluation of Price-Bids: Evaluation of the L-1 offer shall be computed on overall lowest cost to BHEL basis (Grand Total Price for all the items indicated in Price Bid minus tax credit, if, any) |
| 1.30. | Compensation to Contractor No compensation to contractor shall be given for prior completion/ early closure or any negative/ positive variation in contract value. |
| 2. | EARNEST MONEY DEPOSIT (EMD): |
| 2.1. | Earnest Money Deposit (EMD) is to be paid by tenderers for securing fulfilment of any obligations in terms of the NIT. Earnest Money Deposit as indicated in the NIT (Ref. General Information) is to be submitted along with tender documents Part – A. |
| 2.2. | Modes of deposit |



| | |
|------|--|
| | <p>The EMD may be accepted only in the following forms:</p> <ul style="list-style-type: none">(i) Cash deposit as permissible under the extant Income Tax Act (before tender opening)(ii) Electronic Fund Transfer credited in BHEL account (before tender opening)(iii) Banker's cheque/ Pay order/ Demand draft, in favor of BHEL (along with offer)(iv) Fixed Deposit Receipt issued by Scheduled Banks/ Public Financial Institutions as defined in the Companies Act (FDR should be in the name of the Contractor, a/c BHEL and duly discharged on the back) <p>In case EMD amount is more than Rs. Two Lakhs, Tenderer has the option to submit Rs. Two lakhs in the forms described above in clause no. 1.8.1. (i) to (iv) and the remaining amount over and above Rs. Two Lakhs in the form of Bank Guarantee from Scheduled Bank (along with the Offer). The Bank Guarantee in such cases shall be valid for at least six months from the due date of tender submission. The Bank Guarantee format for EMD shall be in the prescribed formats.</p> |
| 2.3. | <p>Forfeiture of EMD</p> <p>EMD by the Tenderer will be forfeited as per NIT conditions, if:</p> <ul style="list-style-type: none">i) After opening the tender and within the offer validity period, the tenderer revokes his tender or makes any modification in his tender which is not acceptable to BHEL.ii) The Contractor fails to deposit the required Security deposit or commence the work within the period as per LOI/ Contract EMD by the tenderer shall be withheld in case any action on the tenderer is envisaged under the provisions of extant "Guidelines on Suspension of business dealings with suppliers/ contractors" and forfeited/ released based on the action as determined under these guidelines. |
| 2.4. | EMD given by all unsuccessful tenderers shall be refunded normally within fifteen days of award of work. |
| 2.5. | EMD shall not carry any interest. |
| 2.6. | EMD of successful tenderer will be retained as part of Security Deposit. |
| 3. | <p>SECURITY DEPOSIT (SD) :</p> |
| 3.1. | Security Deposit means the security provided by the Contractor towards fulfilment of any obligations in terms of the provisions of the contract. |
| 3.2. | <p>The total amount of Security Deposit will be 5 % of the contract value. EMD of the successful tenderer shall be converted and adjusted towards the required amount of Security Deposit.</p> |
| 3.3. | <p>Modes of deposit:</p> <p>The balance amount to make up the required Security Deposit may be accepted in the following forms:</p> <ul style="list-style-type: none">i. Cash (as permissible under the extant Income Tax Act)ii. Local cheque of Scheduled Banks (subject to realization)/ Pay Order/ Demand Draft/ Electronic Fund Transfer in favor of BHELiii. Bank Guarantee from Scheduled Banks/ Public Financial Institutions as defined in the Companies Act. The Bank Guarantee format should have the approval of BHELiv. Fixed Deposit Receipt issued by Scheduled Banks/ Public Financial Institutions as defined in the Companies Act (FDR should be in the name of the Contractor, a/c BHEL)v. Securities available from Indian Post offices such as National Savings Certificates, Kisan Vikas Patras etc. (held in the name of Contractor furnishing the security and duly endorsed/ hypothecated/ pledged, as applicable, in favour of BHEL)vi. Electronic Fund Transfer credited in BHEL account. <p>(Note: BHEL will not be liable or responsible in any manner for the collection of interest or renewal of the documents or in any other matter connected therewith)</p> |
| 3.4. | <p>Collection of Security:</p> <p>At least 50% of the required Security Deposit, including the EMD should be collected before start of the work. Balance of the Security Deposit can be collected by deducting 10% of the gross amount progressively from each of the running bills of the Contractor till the total amount of the required Security Deposit is collected.</p> <p>If the value of work done at any time exceeds the contract value, the amount of Security Deposit shall be correspondingly enhanced and the additional Security Deposit shall be immediately deposited by the Contractor or recovered from payment/s due to the Contractor.</p> <p>The recoveries made from running bills (cash deduction towards balance SD amount) can be released against</p> |



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| | submission of equivalent Bank Guarantee in acceptable form, but only once, before completion of work, with the approval of the authority competent to award the work. |
| 3.5. | Security Deposit shall be released to the Contractor upon fulfilment of contractual obligations as per terms of the contract. |
| 3.6. | The Security Deposit shall not carry any interest. |
| 3.7. | <i>“Bidder agrees to submit performance security required for execution of the contract within the time period mentioned. In case of delay in submission of performance security, enhanced performance security which would include interest (SBI rate + 6% for the delayed period, shall be submitted by the bidder. Further, if performance security is not submitted till such time the first bill becomes due, the amount of performance security due shall be recovered as per terms defined in NIT / contract, from the bills along with due interest ”</i> |
| 4. | NON DISCLOSURE AGREEMENT. The contractor shall sign a Non-Disclosure Agreement (NDA) as per BHEL format (Copy enclosed) in compliance to Information Security Management System. |
| 5. | CONFIDENTIALITY: The contractor and his representatives shall, at all times, undertake to maintain and ensure complete confidentiality and integrity of all data, information, software, drawings & documents, etc. belonging to BHEL and also of the systems, procedures, reports, input documents, results and any other company documents discussed and/or finalized during the course of execution of the order/contract. |
| 6. | STATUTORY REQUIREMENTS: |
| 6.1. | While quoting the rate, the tenderers are advised to take note of minimum wages payable to workmen. |
| 6.2. | The tenderer will be required to comply with all the statutory provisions such as Minimum Wages prevailing at the time of payment or arrears thereof Bonus, PF, EDLI, ESI, Applicable Tax, declared Holidays, leave, etc. The contractor shall submit the documentary evidence of payment on account of submission of statutory payments made to the concerned agencies before clearance of bill of next month. |
| 6.3. | The Contractor shall comply with the provisions of the Factories Act 1948, Contract Labour (Regulation and Abolition) Act 1970, ESI Act, Employees Provident Fund and Miscellaneous Act 1952, Minimum Wages Act 1948, Payment of Gratuity Act 1972, Industrial Disputes Act, 1947, Employers Liability Act 1938, Inter State Migrants Workmen (Regulation of employment and conditions of Service) Act 1979, Employees Compensation Act (...), Maternity Benefit Act 1961, and or any other Laws and Rules that may be applicable from time to time to the workers engaged by him. The contractor, when required by the Company shall produce the registers and records for verification and comply with other directions issued by the company for compliance of the statutory provisions. |
| 6.4. | The contractor shall fully indemnify the loss if any caused to BHEL due to any default or non-observance of any of the laws, or any omission or commission or inability on the part of the contractor or his representative. |
| 6.5. | The contractor shall, keep and produce for inspection at all times, forms, registers and other records required to be maintained under various statutes in order to enable scrutiny by the Company whenever required. |
| 6.6. | The contractor shall produce to the Company, the documentary proof of payment of the said statutory dues. Non-observance of the provisions will be construed as default by the Tenderer in making such payment, and payment of his bill will be deferred. |
| 6.7. | The Income tax as applicable will be deducted from the bill of the contractor. |
| 6.8. | Each contractor will be required to maintain the daily attendance of his labors in the prescribed Performa for accounting payment of minimum wages, deduction towards ESI & PF Contributions, payment of Bonus, leave etc. |
| 6.9. | The contractor will have to follow the provisions of Payment of Bonus Act 1965 and Rules 1975, and is liable to pay Bonus to his workers |
| 6.10. | The contractor will have to extend paid National Holidays and Festival Holidays to their workmen as per the |



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| | provisions of the relevant Act and the Rules thereof. However, if due to exigencies of work the contractor engages his workmen on National Holidays or Festival Holidays contractor shall pay additional wages as prescribed under the provisions of the Act. |
| 6.11. | COMPLAINT WITH BOCW ACT: The contractor shall get registered and comply with the provisions of BOCW Act along with the allied rules and pay cess as per Cess Act along with allied rules. As applicable. The contractor shall also indemnify BHEL from all consequences/liabilities / penalties in case of non-compliance of the provisions of BOCW Act along with the allied rules and cess act. |
| 7. | PERIOD OF CONTRACT |
| 7.1. | Duration of contract is as mentioned in the General Information of NIT |
| 8. | FAILURE TO COMPLY WITH CONTRACT |
| 8.1. | Notwithstanding anything contained in any other clause, BHEL reserves the right to terminate the contract due to any failure on the part of the Tenderer in discharging his obligations under the contract or in the event of his becoming insolvent or going into liquidation. The decision of the BHEL about the failure on the part of the Tenderer shall be final and binding on the tenderer. |
| 8.2. | In case of any damage to the existing building, structures, materials, tools, furniture and fixtures, machines etc., caused from contractor's end, the cost of its repairs or replacement will be recovered from the contractor. If there is any work stoppage in any area of the Plant due to the fault of the tenderer, the tenderer is liable to compensate the same. |
| 8.3. | Risk & Cost Clause , in line with Conditions of Contract may be invoked in any of the following cases: Contractor/ supplier's poor progress of the work vis-à-vis execution timeline as stipulated in the Contract, backlog attributable to contractor/ supplier including unexecuted portion of work/ supply does not appear to be executable within balance available period (#) considering its performance of execution. Withdrawal from or abandonment of the work by contractor before completion of the work as per contract. Non completion of work/ Non-supply by the Contractor/ supplier within scheduled completion/delivery period as per Contract or as extended from time to time, for the reasons attributable to the contractor/ supplier. Termination of Contract on account of any other reason (s) attributable to Contractor/ Supplier. Assignment, transfer, subletting of Contract without BHEL's written permission resulting in termination of Contract or part thereof by BHEL. Non-compliance to any contractual condition or any other default attributable to Contractor/ Supplier. RISK & COST CALCULATION: Risk and Cost against Balance Work: $\text{Risk \& Cost Amount} = [(A-B) + (A \times H/100)]$ Where, A= Value of Balance scope of Work/ Supply (*) as per rates of new contract B= Value of Balance scope of Work/ Supply (*) as per rates of old contract being paid to the contractor/ supplier at the time of termination of contract i.e. inclusive of PVC & ORC, if any. H = Overhead Factor to be taken as 5 In case (A-B) is less than 0 (zero), value of (A-B) shall be taken as 0 (zero). *(Balance scope of work/ supply) Difference of Contract Quantities and Executed Quantities as on the date of issue of Letter for 'Termination of Contract', shall be taken as balance scope of Work/ Supply for calculating risk & cost amount. Contract quantities are the quantities as per original contract. If, Contract has been amended, quantities as per amended Contract shall be considered as Contract Quantities. Items for which total quantities to be executed have exceeded the Contract Quantities based on drawings issued to contractor from time to time till issue of Termination letter, then for these items total Quantities as per issued drawings would be deemed to be contract quantities. Substitute/ extra items whose rates have already been approved would form part of contract quantities for this purpose. Substitute/ extra items which have been executed but rates have not been approved, would also form part of contract quantities for this purpose and rates of such items shall be determined in line with contractual provisions. However, increase in quantities on account of additional scope in new tender shall not be considered for this |



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| | purpose. NOTE: Incase portion of work is being withdrawn, contract quantities pertaining to portion of work withdrawn shall be considered as 'Balance scope of work/supply' for calculating Risk & Cost amount. |
| 9. | <u>SUB-CONTRACTING</u> |
| 9.1. | The contractor shall not sub-contract or transfer or assign the contract in full or any part thereof to any other person or firm or company without the previous express written approval of BHEL. |
| 10. | <u>LAWS GOVERNING THE CONTRACT</u> |
| 10.1. | The contract will be governed by the Laws of India for the time being in force and as amended or made from time to time. |
| 10.2. | All disputes shall be settled in accordance with the Laws of India for the time being in force and as amended from time to time. |
| 10.3. | All disputes arising out of or in relation to this contract or Agreement shall be settled by mutual discussions and in the event of failure such disputes shall be referred to the Arbitrator. |
| 11. | <u>LEGAL JURISDICTION:</u> |
| 11.1. | In respect of all matters arising out of or pertaining to the contract, the cause of action thereof shall be deemed to have arisen only at Bengaluru, where BHEL – SBD is situated. All legal proceedings pertaining to the above matters or dispute shall be instituted only in courts having territorial jurisdiction over the place where BHEL-SBD is situated and no other court shall have the jurisdiction. |
| 11.2. | <u>CARTEL FORMATION:</u> The Bidder declares that they will not enter into any illegal or undisclosed agreement or understanding, whether formal or informal with other Bidder(s). This applies in particular to prices, specifications, certifications, subsidiary contracts, submission or non-submission of bids or any other actions to restrict competitiveness or to introduce cartelization in the bidding process. In case, the Bidder is found having indulged in above activities, suitable action shall be taken by BHEL as per extant policies/ guidelines. |
| 12. | <u>ARBITRATION & CONCILIATION:</u> |
| 12.1. | Except as provided elsewhere in this Contract, in case amicable settlement is not reached between the Parties, in respect of any dispute or difference; arising out of the formation, breach, termination, validity or execution of the Contract; or, the respective rights and liabilities of the Parties; or, in relation to interpretation of any provision of the Contract; or, in any manner touching upon the Contract, then, either Party may, by a notice in writing to the other Party refer such dispute or difference to the sole arbitration of an arbitrator appointed by Head of the BHEL Solar Business Division. |
| 12.2. | The Arbitrator shall pass a reasoned award and the award of the Arbitrator shall be final and binding upon the Parties |
| 12.3. | Subject as aforesaid, the provisions of Arbitration and Conciliation Act 1996 (India) or statutory modifications or re-enactments thereof and the rules made thereunder and for the time being in force shall apply to the arbitration proceedings under this clause. The seat of arbitration shall be Bengaluru. |
| 12.4. | The cost of arbitration shall be borne as per the award of the Arbitrator. |
| 12.5. | Subject to the arbitration in terms of 11.3, the Courts at Bengaluru shall have exclusive jurisdiction over any matter arising out of or in connection with this Contract. |
| 12.6. | Notwithstanding the existence or any dispute or differences and/or reference for the arbitration, the Contractor shall proceed with and continue without hindrance the performance of its obligations under this Contract with due diligence and expedition in a professional manner except where the Contract has been terminated by either Party in terms of this Contract. |
| 13. | <u>COMPENSATION:</u> |
| 13.1. | "BHEL shall recover the amount of compensation paid to victim(s) by BHEL towards loss of life / permanent disability due to an accident which is attributable to the negligence of contractor, agency or firm or any of its employees as detailed below. a) Victim: Any person who suffers permanent disablement or dies in an accident as defined below. b) Accident: Any death or permanent disability resulting solely and directly from any unintended and |



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| | <p>unforeseen injurious occurrence caused during the manufacturing/ operation and works incidental thereto at BHEL factories/ offices and precincts thereof, project execution, erection and commissioning, services, repairs and maintenance, trouble shooting, serving, overhaul, renovation and retrofitting, trial operation, performance guarantee testing undertaken by the company or during any works / during working at BHEL Units/ Offices/ townships and premises/ Project Sites.</p> <p>c) Compensation in respect of each of the victims:</p> <p>(i) In the event of death or permanent disability resulting from Loss of both limbs: ₹10,00,000/- (Rupees Ten Lakhs)</p> <p>(ii) In the event of other permanent disability: ₹7,00,000/- (Rupees Seven Lakhs)</p> <p>d) Permanent Disablement: A disablement that is classified as a permanent total disablement under the provision to Section 2 (I) of the Employee's Compensation Act, 1923."</p> |
| 14 | <p>PENALTY/ LD FOR DELAYED DELIVERY: LD/Penalty is applicable for delay delivery as per GCC applicable clause.</p> |
| 15 | <p>REVERSE AUCTION- Terms and conditions "BHEL shall be resorting to Reverse Auction (RA) (Guidelines as available on www.bhel.com) for this tender. RA shall be conducted among all the techno-commercially qualified bidders.</p> <ul style="list-style-type: none"> • Start price for RA to be L1 of e-bid envelope price bids. • Minimum 2 Techno-commercially qualified bidders are required to conduct RA. • In case of two or three techno-commercially qualified bidders, there shall be no elimination of H1 bidder (whose quote is highest in sealed envelope price bid). • In case of four qualified bidders, H1 bidder to be eliminated whereas in case of five qualified bidders, H1 and H2 bidders are to be eliminated. • Wherever six or more techno-commercially qualified bidders are available, RA would be conducted amongst first 50% of the bidders arranged in the order of prices from lowest to highest. Number of bidders eligible for participating in RA would be rounded off to next higher integer value if number of techno-commercially qualified bidders is odd (e.g. if 7 bids are technically qualified, then RA will be conducted amongst lowest four bidders). However, there will be no elimination of bidders who are MSE or qualifying under PPP-MII Order, 2017. <p>Bidders have to submit 'Process compliance form' (to the designated service provider) in the Reverse Auction. Non submission of 'Process compliance form' by the agreed bidder(s) will be considered as tampering of the tender process and will invite action by BHEL as per extant guidelines for suspension of business dealings with suppliers/ contractors (as available on www.bhel.com).</p> <p>However, if the same bidder again defaults on this count in any subsequent tender in the unit, it will be considered as fraud and will invite action by BHEL as per extant guidelines for suspension of business dealings with suppliers/contractors (as available on www.bhel.com)."</p> <p>Start price in the REVERSE AUCTION shall be as per Clauses mentioned below. Business rule and event of auction will be furnished by our service provider. The terms and conditions specified herein are to be strictly adhered to for all the activities.</p> |
| 16 | CONCILIATION CLAUSE – Annexure IA |
| 17 | MAKE IN INDIA CLAUSE |
| | <p>I. For this procurement, Public Procurement (Preference to MAKE IN INDIA) Order 2017 Dated 15.06.2017, 28.05.2018, 29.05.2019, 04.06.2020 and subsequent orders issued by the respective Nodal Ministry shall be applicable. Even if issued after issue of this NIT but before finalization of contract WO against this NIT.</p> <p>ii. In the event of any Nodal Ministry prescribing higher or lower percentage of purchase preference and/ or local content in respect of this procurement same shall be applicable .</p> |
| 18 | FORMATS |
| 18.1 | Third Party Non-Disclosure Agreement (NDA) format |
| 18.2 | EFT Format |
| 18.3 | GCC (enclosed with NIT). In case of any conflict between the General Conditions of Contract and NIT Terms, provisions contained in the NIT terms shall prevail. |
| 18.4 | <p>Details related to Reverse Auction: BHEL shall be resorting to Reverse Auction (RA) (Guidelines for Reverse Auction – 2021 as available on</p> |



www.bhel.com) for this tender.

LOG IN NAME & PASSWORD: Each Bidder is assigned a Unique User Name & Password by Service Provider. Bidders are requested to change the Password and edit the information in the Registration Page after the receipt of initial Password from Service Provider. All bids made from the Login ID given to the bidder will be deemed to have been made by the bidder.

BIDS PLACED BY BIDDER: The bid of the bidder will be taken to be an offer to sell. Bids once made by the bidder cannot be cancelled. The bidder is bound to sell the material as mentioned above at the price that they bid. Should any bidder back out and not make the supplies as per the rates quoted, BHEL and / or Service Provider shall take action as appropriate.

Auction Start price & Decremental Value: Start price for RA to be L1 of e-bid/ sealed envelope price bids & Decremental value applicable in the online reverse auction will be decided by BHEL after evaluating the bids received from the vendors in the sealed envelope price bid/e-bid and will be available to the vendors on the bidding screen of the online reverse auction.

LOWEST BID OF A BIDDER: In case the bidder submits more than one bid, the lowest bid will be considered as the bidder's final offer to sell. The bidders to note that the first appreciable bid that comes in the system must be equal to or less than the auction start price which the bidder can view at the start of reverse auction and subsequent bids shall conform to minimum decremented value or multiples of the decremented value.

AUCTION TYPE: English No Ties Reverse (Refer Bidder Manual)

VISIBILITY TO BIDDER: The Bidder shall be able to view the following on his screen along with the necessary fields:

- Rank of the bidder
- Lowest bid in the reverse auction
- Bid Placed by him

AUCTION WINNER: At the end of the Reverse Auction, BHEL will evaluate all the bids submitted and will decide upon the winner.

GENERAL TERMS & CONDITIONS: Bidders are required to read the "Terms and Conditions" section of the auctions site ----- using the Login ID and passwords given to them.

The Supplier / Bidder shall not involve himself or any of his representatives in Price manipulation of any kind directly or indirectly by communicating with other suppliers / bidders.

The Bidder shall not divulge either his Bids or any other exclusive details of BHEL to any other party.

BHEL's decision on award of Contract shall be final and binding on all the Bidders.

BHEL along with Service Provider can decide to extend, reschedule or cancel any Auction. Any changes made by BHEL and / or Service Provider after the first posting will have to be accepted if the Bidder continues to access the site after that time.

BHEL/Service Provider shall not have any liability to Bidders for any interruption or delay in access to the site for the reasons which include Power supply interruption, System failure, non-availability of WEB/Screen etc.

BHEL/Service Provider is not responsible for any damages, including damages that result from, but are not limited to negligence. BHEL / Service Provider will not be held responsible for consequential damages, including but not limited to systems problems, inability to use the system, loss of electronic information etc.

All the Bidders are required to submit the Agreement Form duly signed to Service Provider. After the receipt of the Agreement Form, Log in ID & Password shall be allotted to the suppliers (bidders).

After the completion of the Auction event, all the Bidders have to submit the Price Breakup immediately to Service Provider for further proceedings.



Reverse Auction Form

Event Information

The “BHEL” has contracted to conduct this online bidding event. Service Provider shall answer all questions relating to the bidding process and conduct of the Reverse Auction Event.

1. Scheduled Date & Time of the event:

WILL BE INTIMATED BY

Any change in the scheduled time will be duly informed to you in advance.

2. Contact Information

“BHEL-SBD”

A. General Contract related Queries

Name:

Designation:

Tel Nos.

E-mail ID:

Mobile No:

“Service Provider”

Software Related Queries/ Process related Queries

Name:

Designation:

Tel Nos.

E-mail ID:

TO BE INTIMATED LATER



Process Compliance Form

To
Service Provider,

-----.

Sub: Agreement to the Process related Terms and Conditions

Dear Sir,

This has reference to the Terms & Conditions for the Reverse Auction mentioned in the bid document for ----- (Items)
against BHEL Tender No. dated

This letter is to confirm that:

- 1) The undersigned is authorized official of the company.
- 2) We have studied the Reverse Auction Terms & Conditions and the Business rules governing the Reverse Auction as mentioned in your letter and confirm our agreement to them.
- 3) We also confirm that we have taken the training on the auction tool and have understood the functionality of the same thoroughly.

We, hereby confirm that we will honor the Bids placed by us during the auction process.

With regards

Signature with company seal -

Name –

Company / Organization –

Designation within Company / Organization –

Address of Company / Organization –



THIRD PARTY NON-DISCLOSURE AGREEMENT

I, _____ on behalf of the _____ (Name of Company),

acknowledge that the information received or generated, directly or indirectly, while working with BHEL on contract is confidential and that the nature of the business of the BHEL is such that the following conditions are reasonable, and therefore:

I warrant and agree as follows:

I, or any other personnel employed or engaged by our company, agree not to disclose, directly or indirectly, any information related to the BHEL. Without restricting the generality of the foregoing, it is agreed that we will not disclose such information consisting but not necessarily limited to:

- Technical information: Methods, drawings, processes, formulae, compositions, systems, techniques, inventions, computer programs/data/configuration and research projects.

- Business information: Customer lists, project schedules, pricing data, estimates, financial or marketing data,

On conclusion of contract, I, or any other personnel employed or engaged by our company shall return to BHEL all documents and property of BHEL, including but not necessarily limited to: drawings, blueprints, reports, manuals, computer programs/data/configuration, and all other materials and all copies thereof relating in any way to BHEL's business, or in any way obtained by me during the course of contract. I further agree that I, or any others employed or engaged by our company shall not retain copies, notes or abstracts of the foregoing.

This obligation of confidence shall continue after the conclusion of the contract also.

I acknowledge that the aforesaid restrictions are necessary and fundamental to the business of the BHEL, and are reasonable given the nature of the business carried on by the BHEL. I agree that this agreement shall be governed by and construed in accordance with the laws of country.

I enter into this agreement totally voluntarily, with full knowledge of its meaning, and without duress.

Dated at....., this.....day of20 .

Name

Company

Signature



ANNEXURE IA:

**MODEL CONCILIATION CLAUSE FOR CONDUCT OF CONCILIATION UNDER THE BHEL CONCILIATION SCHEME,
2018.**

BRIEF PROCEDURE FOR CONDUCT OF CONCILIATION PROCEEDINGS

1. The proceedings of Conciliation shall broadly be governed by Part-III of the Arbitration and Conciliation Act 1996 or any statutory modification thereof and as provided herein:
The party desirous of resorting to Conciliation shall send an invitation/notice in writing to the other party to conciliate specifying all points of Disputes with details of the amount claimed. The party concerned shall not raise any new issue thereafter. Parties shall also not claim any interest on claims/counter-claims from the date of notice invoking Conciliation till the conclusion of the Conciliation proceedings. If BHEL is to initiate Conciliation, then, the invitation to Conciliate shall be extended to the concerned Stakeholder in Format 7 hereto. Where the stakeholder is to initiate the Conciliation, the notice for initiation of Conciliation shall be sent in Format-8 hereto.
2. The party receiving the invitation/notice for Conciliation shall within 30 days of receipt of the notice of Conciliation intimate its consent for Conciliation along with its counter-claims, if any.
3. The Conciliation in a matter involving claim or counter-claim (whichever is higher) up to Rs 5 crores shall be carried out by sole Conciliator nominated by BHEL while in a matter involving claim or counter-claim (whichever is higher) of more than Rs 5 crores Conciliation shall be carried out by 3 Conciliators nominated by BHEL. The appointment of Conciliator(s) shall be completed and communicated by the concerned Department/Group of BHEL Unit/Division/Region/Business Group to the other party and the Conciliator(s) within 30 days from the date of acceptance of the invitation to conciliate by the concerned party in the **Format-9**. The details of the Claim, and counter-claim, if any, shall be intimated to the Conciliator(s) simultaneously in **Format-5**.
4. The Parties shall be represented by only their duly authorized in-house executives/officers and neither Party shall be represented by a Lawyer.
5. The first meeting of the IEC shall be convened by the IEC by sending appropriate communication/notice to both the parties as soon as possible but not later than 30 days from the date of his/their appointment. The hearings in the Conciliation proceeding shall ordinarily be concluded within two (2) months and, in exceptional cases where parties have expressed willingness to settle the matter or there exists possibility of settlement in the matter, the proceedings may be extended by the IEC by a maximum of further 2 months with the consent of the Parties subject to cogent reasons being recorded in writing.
6. The IEC shall thereafter formulate recommendations for settlement of the Disputes supported by reasons at the earliest but in any case within 15 days from the date of conclusion of the last hearing. The recommendations so formulated along with the reasons shall be furnished by the IEC to both the Parties at the earliest but in any case within 1 month from the date of conclusion of the last hearing.
7. Response/modifications/suggestions of the Parties on the recommendations of the IEC are to be submitted to the IEC within time limit stipulated by the IEC but not more than 15 days from the date of receipt of the recommendations from the IEC.



8. In the event, upon consideration, further review of the recommendations is considered necessary, whether by BHEL or by the other Party, then, the matter can be remitted back to the IEC with request to reconsider the same in light of the issues projected by either/both the Parties and to submit its recommendations thereon within the following 15 days from the date of remitting of the case by either of the Parties.
9. Upon the recommendations by the Parties, with or without modifications, as considered necessary, the IEC shall be called upon to draw up the Draft Settlement Agreement in terms of the recommendations.
10. When a consensus can be arrived at between the parties only in regard to any one or some of the issues referred for Conciliation the draft Settlement Agreement shall be accordingly formulated in regard to the said Issue(s), and the said Settlement Agreement, if signed, by the parties, shall be valid only for the said issues. As regards the balance issues not settled, the parties may seek to resolve them further as per terms and conditions provided in the contract.
11. In case no settlement can be reached between the parties, the IEC shall by a written declaration, pronounce that the Conciliation between the parties has failed and is accordingly terminated.
12. Unless the Conciliation proceedings are terminated in terms of para 22 (b), (c) & (d) herein below, the IEC shall forward his/its recommendations as to possible terms of settlement within one (1) month from the date of last hearing. The date of first hearing of Conciliation shall be the starting date for calculating the period of 2 months.
13. In case of 3 members IEC, 2 members of IEC present will constitute a valid quorum for IEC and meeting can take place to proceed in the matter after seeking consent from the member who is not available. If necessary, videoconferencing may be arranged for facilitating participation of the members. However, the IEC recommendations will be signed by all members. Where there is more than one (1) Conciliator, as a general rule they shall act jointly. In the event of differences between the Members of IEC, the decision/recommendations of the majority of the Members of IEC shall prevail and be construed as the recommendation of the IEC.
14. The Draft Settlement Agreement prepared by the IEC in terms of the consensus arrived at during the Conciliation proceedings between the Parties shall be given by the IEC to both the parties for putting up for approval of their respective Competent Authority.
15. Before submitting the draft settlement agreement to BHEL's Competent Authority viz. the Board Level Committee on Alternative Dispute Resolution (BLCADR) for approval, concurrence of the other party's Competent Authority to the draft settlement agreement shall be obtained by the other party and informed to BHEL within 15 days of receipt of the final draft settlement agreement by it. Upon approval by the Competent Authority, the Settlement Agreement would thereafter be signed by the authorized representatives of both the Parties and authenticated by the members of the IEC.
16. In case the Draft Settlement Agreement is rejected by the Competent Authority of BHEL or the other Party, the Conciliation proceedings would stand terminated.
17. A Settlement Agreement shall contain a statement to the effect that each of the person(s) signing thereto (i) is fully authorized by the respective Party(ies) he/she represents, (ii) has fully understood the contents of the same and (iii) is signing on the same out of complete freewill and consent, without any pressure, undue influence.
18. The Settlement Agreement shall thereafter have the same legal status and effect as an arbitration award on agreed terms on the substance of the dispute rendered by an arbitral tribunal passed under section 30 of the Arbitration and Conciliation Act, 1996.



19. Acceptance of the Draft Settlement Agreement/recommendations of the Conciliator and/or signing of the Settlement Agreement by BHEL shall however, be subject to withdrawal/closure of any arbitral and/or judicial proceedings initiated by the concerned Party in regard to such settled issues.
20. Unless otherwise provided for in the agreement, contract or the Memorandum of Understanding, as the case may be, in the event of likelihood of prolonged absence of the Conciliator or any member of IEC, for any reason/incapacity, the Competent Authority/Head of Unit/Division/Region/Business Group of BHEL may substitute the Conciliator or such member at any stage of the proceedings. Upon appointment of the substitute Conciliator(s), such reconstituted IEC may, with the consent of the Parties, proceed with further Conciliation into the matter either de-novo or from the stage already reached by the previous IEC before the substitution.
21. The proceedings of Conciliation under this Scheme may be terminated as follows:
- a.** On the date of signing of the Settlement agreement by the Parties; or,
 - b.** By a written declaration of the IEC, after consultation with the parties, to the effect that further efforts at conciliation are no longer justified, on the date of the declaration; or,
 - c.** By a written declaration of the Parties addressed to the IEC to the effect that the Conciliation proceedings are terminated, on the date of the declaration; or,
 - d.** By a written declaration of a Party to the other Party and the IEC, if appointed, to the effect that the Conciliation proceedings are terminated, on the date of the declaration; or,
 - e.** On rejection of the Draft Settlement Agreement by the Competent Authority of BHEL or the other Party.
22. The Conciliator(s) shall be entitled to following fees and facilities:

| Sl No | Particulars | Amount |
|-------|--|--|
| 1 | Sitting fees | Each Member shall be paid a Lump Sum fee of Rs 75,000/- for the whole case payable in terms of paragraph No. 27 herein below. |
| 2 | Towards drafting of settlement agreement | In cases involving claim and/or counter-claim of up to Rs 5 crores. Rs 50,000/- (Sole Conciliator) In cases involving claim and/or counter-claim of exceeding Rs 5 crores but less than Rs 10 crores. Rs 75,000 (per Conciliator) In cases involving claim and/or counter-claim of more than Rs 10 crores. Rs 1,00,000/- (per Conciliator) Note: The aforesaid fees for the drafting of the Settlement Agreement shall be paid on the,Signing of the Settlement Agreement after approval of the Competent Authority or Rejection of the proposed Settlement Agreement by the Competent Authority of BHEL. |
| 3 | Secretarial expenses | Rs 10,000/- (one time) for the whole case for Conciliation by a Sole Member IEC. Where Conciliation is by multi member Conciliators –Rs 30,000/- (one time)- to be paid to the IEC |
| 4 | Travel and transportation | As per entitlement of equivalent officer (pay scale wise) in BHEL |



| | | |
|---|-------------------|--|
| | Others | As per the extant entitlement of whole time Functional Directors in BHEL. Ordinarily, the IEC Member(s) would be entitled to travel by air Economy Class |
| 5 | Venue for meeting | Unless otherwise agreed in the agreement, contract or the Memorandum of Understanding, as the case may be, the venue/seat of proceedings shall be the location of the concerned Unit / Division / Region / Business Group of BHEL. Without prejudice to the seat/venue of the Conciliation being at the location of concerned BHEL Unit / Division / Region / Business Group, the IEC after consulting the Parties may decide to hold the proceedings at any other place/venue to facilitate the proceedings. Unless, Parties agree to conduct Conciliation at BHEL premises, the venue is to be arranged by either Party alternately. |

23. The parties will bear their own costs including cost of presenting their cases/evidence/witness(es)/expert(s) on their behalf. The parties agree to rely upon documentary evidence in support of their claims and not to bring any oral evidence in IEC proceedings.
24. If any witness(es) or expert(s) is/are, with the consent of the parties, called upon to appear at the instance of the IEC in connection with the matter, then, the costs towards such witness(es)/expert(s) shall be determined by the IEC with the consent of the Parties and the cost so determined shall be borne equally by the Parties.
25. The other expenditures/costs in connection with the Conciliation proceedings as well as the IEC's fees and expenses shall be shared by the Parties equally.
26. Out of the lump sum fees of Rs 75,000/- for Sitting Fees, 50% shall be payable after the first meeting of the IEC and the remaining 50% of the Sitting Fees shall be payable only after termination of the conciliation proceedings in terms of para 22 hereinabove.
27. The travelling, transportation and stay at outstation shall be arranged by concerned Unit as per entitlements as per Serial No. 4 of the Table at para 23 above, and in case such arrangements are not made by the BHEL Unit, the same shall be reimbursed to the IEC on actuals limited to their entitlement as per Serial No. 4 of the Table at Para 23 above against supporting documents. The IEC Member(s) shall submit necessary invoice for claiming the fees/reimbursements.
28. The Parties shall keep confidential all matters relating to the conciliation proceedings. Confidentiality shall extend also to the settlement agreement, except where its disclosure is necessary for purposes of its implementation and enforcement or as required by or under a law or as per directions of a Court/Governmental authority/ regulatory body, as the case may be.
29. The Parties shall not rely upon or introduce as evidence in any further arbitral or judicial proceedings, whether or not such proceedings relate to the Disputes that is the subject of the Conciliation proceedings:
- Views expressed or suggestions made by the other party in respect of a possible settlement of the Disputes;
 - admissions made by the other party in the course of the Conciliator proceedings;
 - proposals made by the Conciliator;
 - The fact that the other Party had indicated his willingness to accept a proposal for settlement made by the Conciliator.



30. The Parties shall not present the Conciliator(s) as witness in any Alternative Dispute Resolution or Judicial proceedings in respect of a Disputes that is/was the subject of that particular Conciliation proceeding.
31. None of the Conciliators shall act as an arbitrator or as a representative or counsel of a Party in any arbitral or judicial proceeding in respect of a Disputes that is/was the subject of that particular Conciliation proceeding.
32. The Parties shall not initiate, during the Conciliation proceedings, any arbitral or judicial proceedings in respect of a Disputes that is the subject matter of the Conciliation proceedings except that a Party may initiate arbitral or judicial proceedings where, in his opinion, such proceedings are necessary for preserving his rights including for preventing expiry of period of limitation. Unless terminated as per the provisions of this Scheme, the Conciliation proceedings shall continue notwithstanding the commencement of the arbitral or judicial proceedings and the arbitral or judicial proceedings shall be primarily for the purpose of preserving rights including preventing expiry of period of limitation.
33. The official language of Conciliation proceedings under this Scheme shall be English unless the Parties agree to some other language.



Format 5 to BHEL Conciliation Scheme, 2018
STATEMENT OF CLAIMS/COUNTER CLAIMS TO BE SUBMITTED TO THE
IEC BY BOTH THE PARTIES

1. Chronology of the Disputes
2. Brief of the Contract/MoU/Agreement/LOI/LOA
3. Brief history of the Disputes:
4. Issues:
5. Details of Clam(s)/Counter Claim(s):

| Sl. No. | Description of claim(s)/Counter Claim | Amount (in INR)Or currency applicable in the contract | Relevant contract clause |
|---------|---------------------------------------|---|--------------------------|
| | | | |
| | | | |
| | | | |

6. Basis/Ground of claim(s)/counter claim(s) (along with relevant clause of contract)

Note– *The Statement of Claims/Counter Claims may ideally be restricted to maximum limit of 20 pages. Relevant documents may be compiled and submitted along with the statement of Claims/Counter Claims. The statement of Claims/Counter Claims is to be submitted to all IEC members and to the other party by post as well as by email.*



FORMAT-7

FORMAT FOR NOTICE INVOKING CONCILIATION CLAUSE BY BHEL FOR REFERRING THE DISPUTES TO CONCILIATION THROUGH IEC

To,

M/s. (Stakeholder's name)

Subject: NOTICE FOR INVOCATION OF THE CONCILIATION CLAUSE OF THE CONTRACT BY BHEL

Ref: ContractNo/MoU/Agreement/LOI/LOA& date_____.

Dear Sir/Madam,

As you are aware, with reference to above referred Contract/MoU/Agreement/LOI/LOA, certain disputes have arisen, which, in spite of several rounds of mutual discussions and various correspondences have remained unresolved. The brief particulars of our claims which arise out of the above-referred Contract/MoU/Agreement/LOI/LOA are reproduced hereunder:

| Sl. No. | Claim description | Amount involved |
|---------|-------------------|-----------------|
| | | |

As you are aware, there is a provision in the captioned Contract/MoU/Agreement/LOI/ LOA for referring disputes to conciliation.

In terms of Clause -----of Procedure i.e., Annexure ----- to the Contract/MoU /Agreement / LOI / LOA, we hereby seek your consent to refer the matter to Conciliation by Independent Experts Committee to be appointed by BHEL. You are invited to provide your consent in writing to proceed with conciliation into the above mentioned disputes within a period of 30 days from the date of this letter along with details of counter-claims, if any, which you might have with regard to the subject Contract/ MoU/ Agreement/ LOI/ LOA.

Please note that upon receipt of your consent in writing within 30 days of the date of receipt of this letter by you, BHEL shall appoint suitable person(s) from the BHEL Panel of Conciliators.

This letter is being issued without prejudice to our rights and contentions available under the contract and law.

Thanking you Yours
faithfully
Representative of BHEL

Note: The Format may be suitably modified, as required, based on facts and circumstances of the case.



FORMAT-8 FORMAT FOR NOTICE INVOKING CONCILIATION CLAUSE BY A STAKEHOLDER FOR REFERRING THE DISPUTES TO CONCILIATION THROUGH IEC

To,
BHEL (Head of the Unit/Division/Region/Business Group)

Subject: NOTICE FOR INVOCATION OF THE CONCILIATION CLAUSE OF THE CONTRACT BY A STAKEHOLDER

Ref: ContractNo/MoU/Agreement/LOI/LOA& date_____.

Dear Sir/Madam,

As you are aware, with reference to above referred Contract/MoU/Agreement/LOI/LOA, certain disputes have arisen, which, in spite of several rounds of mutual discussions and various correspondences have remained unresolved. The brief particulars of our claims which have arisen out of the above- referred Contract/MoU/Agreement/LOI/LOA are enumerated hereunder:

| Sl. No. | Claim description | Amount involved |
|---------|-------------------|-----------------|
| | | |

As you are aware, there is a provision in the captioned Contract/MoU/Agreement/LOI/ LOA for referring inter-se disputes of the Parties to conciliation.

We wish to refer the above-said disputes to Conciliation as per the said Clause of the captioned Contract/MoU/Agreement/LOI/ LOA. In terms of Clause -----of Procedure i.e., Annexure ----- to the Contract/MoU /Agreement / LOI / LOA, we hereby invite BHEL to provide its consent in writing to proceed with conciliation into the above mentioned disputes within a period of 30 days from the date of this letter along with details of counter-claims, if any, which it might have with regard to the subject Contract/ MoU/ Agreement/ LOI/ LOA and to appoint suitable person(s) as Conciliator(s) from the BHEL Panel of Conciliators.

This letter is being issued without prejudice to our rights and contentions available under the contract and law.

Thanking you
Yours faithfully
Representative of the Stakeholder

Note: The Format may be suitably modified, as required, based on facts and circumstances of the case.



FORMAT-9

FORMAT FOR INTIMATION TO THE STAKEHOLDER ABOUT APPOINTMENT OF CONCILIATOR/IEC

To,

M/s. (Stakeholder's name)

Subject: INTIMATION BY BHEL TO THE STAKEHOLDER AND CONCILIATOR(S) ABOUT APPOINTMENT OF CONCILIATOR/IEC

Ref: ContractNo/MoU/Agreement/LOI/LOA& date_____.

Sir,

This is with reference to letter dated ----- regarding reference of the disputes arising in connection with the subject Contract No /MoU/Agreement/LOI/LOA to conciliation and appointment of Conciliator(s).

In pursuance of the said letter, the said disputes are assigned to conciliation and the following persons are nominated as Conciliator(s) for conciliating and assisting the Parties to amicably resolve the disputes in terms of the Arbitration & Conciliation Act, 1996 and the Procedure ---- to the subject Contract/MoU/Agreement/LOI/LOA, if possible. Name and contact

details of Conciliator(s)

- a)
- b)
- c)

You are requested to submit the Statement of Claims or Counter-Claims (strike off whichever is inapplicable) before the Conciliator(s) in Format 5 (enclosed herewith) as per the time limit as prescribed by the Conciliator(s).

Yours faithfully,

Representative of BHEL

CC: To Conciliator(s)... for Kind Information please. Encl: As above

Note: The Format may be suitably modified, as required, based on facts and circumstances of the case.



Format for E-payment

To:

AGM (Finance)
BHEL-EPD/ Bengaluru
Opp. Indian Institute of Science
Prof. CNR Rao Circle
Bengaluru – 560093

Subject: E-payments vide RTGS/ NEFT.

I/ We request and authorize you to effect E-payment vide any two modes to my/ our bank account as per the details given below:

Vendor Name :

Title/ Name of Account in the bank :

Account Type (Saving/ Current) :

Bank Account Number

Name and address of bank :

Bank/ Branch contact person name :

Bank. Branch phone numbers with STD code :

Bank Branch MICR code :

Bank Branch RTGS IFSC code :

Bank Branch NEFT IFSC code :

Your E-mail address :

Name of the Authorized Signatory :

Contact person Name :

I/ We confirm that information provided above is correct & any consequences due to any mistake in above will be borne by us.

Thanking you,

For

(Authorized Signatory)

We confirm that we are enabled for receiving RTGS/ NEFT credits and we further confirm that the account number of (please mention here the name of account holder) _____, the signature of the Authorized Signatory and MICR and IFSC codes of our branch mentioned above are correct.

Bank's Verification
(Manager's/ Officer's signature under bank stamp)

Note: Please attach cancelled original cheque leaf.



Bank Detail (For EMD/SD submission as applicable):

Bharat Heavy Electricals Limited Solar Business Division Prof. CNR Rao Circle Malleswaram Bengaluru-560012

| | | |
|---|----------------------------|--|
| 1 | Name of the Beneficiary: | Bharat Heavy Electricals Limited |
| 2 | Name of the Bank & Branch: | IDBI Bank Limited, Trade Finance |
| 3 | Address of the Branch: | Trade Finance IDBI House,58, 1 st Floor, Mission road, Bengaluru-560027 |
| 4 | Bank Telephone No: | 080-2227 9576 |
| 5 | NEFT IFSC code | IBKL0000377 |
| 6 | Account Type: | Current |
| 7 | Account No. | 008103000003605 |
| 8 | RTGS IFSC code: | IBKL0000377 |

QR-CODE for EMD/SD Submission





GENERAL CONDITIONS OF CONTRACT

**SOLAR BUSINESS DIVISION
BHARAT HEAVY ELECTRICALS LIMITED**
(A Govt. of India Undertaking)
PROF. CNR RAO CIRCLE, IISc POST
MALLESHWARAM
BENGALURU - 560012



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CHAPTER -1

1. GENERAL INSTRUCTION TO TENDERERS

1.1. DESPATCH INSTRUCTION

i) The General Conditions of Contract form part of the Tender specifications. All pages of the tender documents shall be duly signed, stamped and submitted along with the offer in token of complete acceptance thereof. The information furnished shall be complete by itself. The tenderer is required to furnish all the details and other documents as required in the following pages

ii) Tenderers are advised to study all the tender documents carefully. Any submission of tender by the tenderer shall be deemed to have been done after careful study and examination of the tender documents and with the full understanding of the implications thereof. Should the tenderers have any doubt about the meaning of any portion of the Tender Specification or find discrepancies or omissions in the drawings or the tender documents issued are incomplete or shall require clarification on any aspects, the scope of work etc., he shall contact the authority inviting the tender well in time (so as not to affect last date of submission) for clarification before the submission of the tender. Tenderer's request for clarifications shall be with reference to Sections and Clause numbers given in the tender documents. The tender specifications and terms and conditions shall be deemed to have been accepted by the tenderer in the offer. Pre requirements and conditions shall be liable for rejection.

iii) Integrity pact (IP): If NIT calls for Integrity Pact, the same shall be duly signed & stamped by the authorised signatory & submitted along with tender document.

1.2. SUBMISSION OF TENDERS

1.2.1 The tenderers must submit their tenders as per instructions in the NIT

1.2.2 BHEL takes no responsibility for delay, loss or non-receipt of tenders sent by post/courier. The tenders received after the specified time of their submission are treated as 'Late Tenders' and shall not be considered under any circumstances. Offers received by Fax/Email/Internet shall be considered as per terms of NIT.

1.2.3 Tenders shall be opened by authorised Officer of BHEL at his office at the time and date as specified in the NIT, in the presence of such of those tenderers or their authorised representatives who may be present

1.2.4 Tenderers whose bids are found techno commercially qualified shall be informed the date and time of opening of the Price Bids and such Tenderers may depute their representatives to witness the opening of the price bids. BHEL's decision in this regard shall be final and binding.

1.2.5 Before submission of Offer, 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 material and labour, means of transport and access to Site, accommodation, etc. No claim will be entertained later on the grounds of lack of knowledge of any of these conditions.

1.3. **LANGUAGE**

1.3.1 The tenderer shall quote the rates in English language and international numerals. These rates shall be entered in figures as well as in words. For the purpose of the tenders, the metric system of units shall be used.

1.3.2 All entries in the tender shall either be typed or written legibly in ink. Erasing and overwriting is not permitted and may render such tenders liable for rejection. All cancellations and insertions shall be duly attested by the tenderer.

1.4 **PRICE DISCREPANCY:**

1.4.1 Conventional (Manual) Price Bid opening:

i) If, in the price structure quoted for the required goods/services/works, there is discrepancy between the unit price and the total price (which is obtained by multiplying the unit price by the quantity), the unit price shall prevail and the total price corrected accordingly, unless in the opinion of BHEL there is obvious misplacement of decimal point in the unit price, in which case the total price as quoted shall govern and the unit price corrected accordingly

ii) If there is an error in a total corresponding to the addition or subtraction of subtotals, the subtotals shall prevail and the total shall be corrected;

iii) If there is a discrepancy between words and figures, the amount in words shall prevail, unless the amount expressed in words is related to an arithmetic error, in which case the amount in figures shall prevail subject of (i) and (ii) above.

iv) If there is such discrepancy in an offer, the same shall be conveyed to the bidder with target date up to which the bidder has to send his acceptance on the above lines and if the bidder does not agree to the decision of BHEL, the bid is liable to be ignored.

v) In case of lump sum price, if there is any difference between the amount in figures and in words, the amount quoted by the bidder in words shall be taken as correct.

vi) *In case of omission in quoting any rate for one or more items, the evaluation shall be done considering the highest quoted rate obtained against the respective items by other tenderers for the subject tender. If the tenderer becomes L-1, the notional rates for the omission items shall be the lowest rates quoted for the respective items by the other tenderers against the respective omission items for the subject job and the 'Total quoted price (loaded for omissions)' shall be arrived at. However, the overall price remaining the same as quoted originally, the rates for all the items in the 'Total quoted price (loaded for omissions)' shall be reduced item wise in proportion to the ratio of 'Original' total price and the 'Total quoted price (loaded for omissions)'.*

1.4.2 Reverse Auction: In case of Reverse Auction, the successful bidder shall undertake to execute the work as per overall price offered by him during the Reverse Auction process. In case of omission of rates, the procedure shall be as per 'Guidelines for Reverse Auction' enclosed.

i) Offers from tenderers who are under suspension (banned) by any Unit/Region/Division of BHEL shall not be considered. ii) Offers from tenderers who do not comply with the latest guidelines of Ministry/ Commissions of Govt of India shall not be considered.

1.5. EVALUATION OF BIDS

i) Technical Bids submitted by the tenderer will be opened first and evaluated for fulfilling the Pre-Qualification criteria and other conditions in NIT/Tender documents, based on documentary evidences submitted along with the offer, BHEL reserves the right to ask for proofs/documents, clarification in relation to Technical/commercial data during tender evaluation

ii) Price Bids of shortlisted bidders shall only be opened either through the conventional price bid opening or through electronic Reverse Auction, at the discretion of BHEL

iii) Price Bids of unqualified bidders shall not be opened. Reasons for rejection shall be intimated to the vendor before the opening of Price bid.

1.6. DATA TO BE ENCLOSED

The following information in full shall be furnished by the tenderer. Non-submission of this information may lead to rejection of the offer.

i) INCOME TAX PERMANENT ACCOUNT NUMBER, GSTIN, SAC, HSN Certified copies of PAN, GSTIN shall be furnished along with tender. The names, addresses and contact information of the Directors/Partners shall be furnished along with the offer.

ii) An attested copy of the Power of Attorney, in case the tender is signed by an individual other than the sole proprietor.

iii) *IN CASE OF INDIVIDUAL TENDERER:*

His / her full name, address, PAN, GSTIN and place & nature of business to be furnished. iv)

IN CASE OF PARTNERSHIP FIRM

The names of all the partners and their addresses, a copy of the partnership deed/instrument of partnership shall be enclosed.

v) *IN CASE OF COMPANIES:*

Date and place of registration including date of commencement certificate in case of Public Companies (certified copies of Memorandum and articles of Association are also to be furnished). Nature of business carried on by the Company and the provisions of the Memorandum relating thereof.

1.7. AUTHORISATION AND ATTESTATION

Tenders shall be signed by a person duly authorised/empowered to do so. An attested copy of the Power of Attorney, in case the tender is signed by an individual other than the sole proprietor shall be submitted along with the tenders

1.8. EARNEST MONEY DEPOSIT

1.8.1 Every tender must be accompanied by the prescribed amount of Earnest Money Deposit (EMD) in the manner described herein.

The EMD may be accepted only in the following forms:

- (i) Electronic Fund Transfer credited in BHEL account (before tender opening)*
- (ii) Banker's cheque/ Pay order/ Demand draft, in favour of BHEL (along with offer) In case total EMD amount is more than Rs.20 Lakh, the amount in excess of Rs.20 lakh maybe accepted in the form of Bank Guarantee from scheduled bank. The Bank Guarantee in such cases shall be valid for at-least six months.*
- (iii) Through SBI collect/RTGS (before tender opening)*
- (iv) No other form of EMD remittance shall be acceptable to BHEL*

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

- i) After opening the tender and within the offer validity period, the tenderer revokes his/her tender or makes any modification in his tender which is not acceptable to BHEL.*
- ii) The Contractor fails to deposit the required Security deposit or commence the work within the period as per LOI/ Contract.*
- iii) EMD by the tenderer shall be withheld in case any action on the tenderer is envisaged in derailing the tender process by unlawful means.*

1.8.3 EMD shall not carry any interest.

1.8.4 In the case of unsuccessful bidders, the Earnest Money will be refunded to them within a reasonable time after acceptance of award by successful tenderer.

1.8.5 EMD of successful tenderer will be converted as part of Security Deposit

1.9. **SECURITY DEPOSIT**

"Bidder agrees to submit performance security required for execution of the contract within the time period mentioned. In case of delay in submission of performance security, enhanced performance security which would include interest (SB/ rate + 6%) for the delayed period, shall be submitted by the bidder. Further, if performance security is not submitted till such time the first bill becomes due, the amount of performance security due shall be recovered as per terms defined in NIT I contract, from the bills along with due interest "

The total amount of Security Deposit will be 5% of the contract value (including all applicable taxes) EMD of the successful tenderer shall be converted and adjusted towards the required amount of Security Deposit.

1.9.1 Modes of Security deposit:

The balance amount to make up the required Security Deposit of 5% of the contract value may be accepted in the following forms:

i) Cash (as permissible under the extant Income Tax Act) ii) Local cheques of Scheduled Banks (subject to realization)/ Pay Order/ Demand Draft/ Electronic Fund Transfer in favour of BHEL

iii) Bank Guarantee from Scheduled Banks/ Public Financial Institutions as defined in the Companies Act. The Bank Guarantee format should have the approval of BHEL iv) Fixed Deposit Receipt issued by Scheduled Banks/ Public Financial Institutions as defined in the Companies Act (FDR should be in the name of the Contractor, a/c BHEL)

v) Securities available from Indian Post offices such as National Savings Certificates, Kisan Vikas Patras etc. (held in the name of Contractor furnishing the security and duly endorsed/ hypothecated/ pledged, as applicable, in favour of BHEL) (Note: BHEL will not be liable or responsible in any manner for the collection of interest or renewal of the documents or in any other matter connected therewith) vi) 50% of the required Security Deposit, including the EMD, should be paid before start of the work. Balance of the Security Deposit can be collected by deducting 10% of the gross amount progressively from each of the running bills of the Contractor till the total amount of the required Security Deposit is collected. If the value of work done at any time exceeds the contract value, the amount of Security Deposit shall be correspondingly enhanced and the additional Security Deposit shall be immediately deposited by the Contractor or recovered from payment/s due to the Contractor. Security Deposit shall be released to the Contractor upon fulfilment of contractual obligations as per terms of the contract.

1.9.2 The Security Deposit shall not carry any interest.

1.9.3 The validity of Bank Guarantees towards Security Deposit shall be initially up to the completion period as stipulated in the Letter of Intent/Award (plus maintenance period if applicable), and 03 months claim period. The same shall be kept valid by proper renewal till the acceptance of Final Bills of the Contractor, by BHEL

1.9.4 BHEL reserves 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 or in the event of termination of contract as per terms and conditions of contract. BHEL reserves the right to set off the Security Deposit against any claims of other contracts with BHEL.

1.10. **REFUND OF SECURITY DEPOSIT**

50% of the security deposit may be refunded on completion of the work after payment of the final bill and the balance 50% of the security deposit is refunded only after the expiry of the maintenance period from date of completion of work as stipulated in the contract concerned.

1.10.1 DEFECTS LIABILITY PERIOD:

The contractor shall be responsible to make good and remedy at his own expenses within such period as may be stipulated by the Engineer-in-charge, any defect which may develop or may be noticed before the expiry of the maintenance period of six months or as stipulated in NIT hereto from the certified date of completion and intimation of which has been sent to the contractor within seven days of the expiry of the said period by a letter sent by hand delivery or by registered post or Email. If contractor fails to attend to the above, defect will be rectified at contractor's risk & cost and same will be deducted from the security deposit/payable amounts available with BHEL.

1.11. **BANK GUARANTEES**

Where ever Bank Guarantees are to be furnished/submitted by the contractor, the following shall be complied with

i) Bank Guarantees shall be from Scheduled Banks / Public Financial Institutions as defined in the Companies Act. ii) The Bank Guarantees shall be as per prescribed BHEL formats.

iii) It is the responsibility of the bidder to get the Bank Guarantees revalidated/extended for the required period (subject to a minimum period of six months), as per the advice of BHEL. BHEL shall not be liable for issue of any reminders regarding expiry of the Bank Guarantees.

iv) In case extension/further extensions of any Bank Guarantees are not required, the bidders shall ensure that the same is explicitly endorsed by BHEL

- v) *In case the Bank Guarantees are not extended before the expiry date, BHEL reserves the right to invoke the same by informing the concerned Bank in writing, without any advance notice/communication to the concerned bidder.*
- vi) *Bidders to note that any corrections to Bank Guarantees shall be done by the issuing Bank, only through an amendment in an appropriate non judicial stamp paper.*
- vii) *The Original Bank Guarantee shall be sent directly by the Bank to BHEL under Registered Post (Acknowledgement Due).*

1.12. VALIDITY OF OFFER

The rates in the Tender shall be kept open for acceptance for a minimum period of Ninety (90) DAYS from latest due date of offer submission (including extension, if any). In case BHEL calls for negotiations, such negotiations shall not amount to cancellation or withdrawal of the original offer which shall be binding on the tenderers.

1.13 EXECUTION OF CONTRACT AGREEMENT

The successful tenderer's responsibility under this contract commences from the date of issue of the Letter of Intent by BHEL. The Tenderer shall submit an unqualified acceptance to the Letter of Intent/Award within the period stipulated therein.

The successful tenderer shall be required to execute an agreement in the prescribed form, with BHEL, within fifteen days (15 days) after the acceptance of the Letter of Intent/Award, and in any case before releasing the first running bill. The contract agreement shall be signed by a person duly authorized/empowered by the tenderer. The expenses for preparation of agreement document shall be borne by Tenderer.

1.14. REJECTION OF TENDER AND OTHER CONDITIONS

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

- a. To reject any or all of the tenders.*
- b. To split up the work amongst two or more tenderers as per NIT*
- c. To award the work in part if specified in NIT*
- d. In case of either of the contingencies stated in (b) and (c) above, the time for completion as stipulated in the tender shall be applicable.*

1.14.2 Conditional tenders, unsolicited tenders, tenders which are incomplete or not in the form specified or defective or have been materially altered or not in accordance with the tender conditions, specifications etc., are liable to be rejected.

1.14.3 Tenders are liable to be rejected in case of unsatisfactory performance of the tenderer with BHEL, or tenderer under suspension (hold/banning /delisted) by any unit / region / division of BHEL or tenderers who do not comply with the latest guidelines of Ministry/Commissions of Govt of India. BHEL reserves the right to reject a bidder in case it is observed that they are overloaded and may not be in a position to execute this job. The decision of BHEL will be final in this regard.

1.14.4 If a tenderer who is a proprietor expires after the submission of his tender or after the acceptance of his tender, BHEL may at their discretion, cancel such tender. If a partner of a firm expires after the submission of tender or after the acceptance of the tender, BHEL may then cancel such tender at their discretion, unless the firm retains its character.

1.14.5 BHEL will not be bound by any Power of Attorney granted by changes in the composition of the firm made subsequent to the execution of the contract. They may, however, recognize such power of Attorney and changes after obtaining proper legal advice, the cost of which will be chargeable to the contractor concerned.

1.14.6 If the tenderer deliberately gives wrong information in his tender, BHEL reserves the right to reject such tender at any stage or to cancel the contract if awarded and forfeit the Earnest Money/Security Deposit/any other money due.

1.14.7 Canvassing in any form in connection with the tenders submitted by the Tenderer shall make his offer liable to rejection.

1.14.8 In case the Proprietor, Partner or Director of the Company/Firm submitting the Tender, has any relative or relation employed in BHEL, the authority inviting the Tender shall be informed, along with the Offer. Failing to do so, BHEL may, at its sole discretion, reject the tender or cancel the contract and forfeit the Earnest Money/Security Deposit.

1.14.9 The successful tenderer should not sub-contract part or complete work detailed in the tender specification undertaken by him without written permission of BHEL's Construction Manager/Site Incharge. The tenderer is solely responsible to BHEL for the work awarded to him.

1.14.10 The Tender submitted by a techno commercially qualified tenderer shall become the property of BHEL who shall be under no obligation to return the same to the bidder. However unopened price bids and late tenders shall be returned to the bidders after finalization of contract.

1.14.11 Unsolicited discount received after the due date and time of Bid Submission shall not be considered for evaluation. However, if the party who has submitted the unsolicited



discount/rebate becomes the L-1 party, then the awarded price i.e contract value shall be worked out after considering the discount so offered.

1.14.12 BHEL shall not be liable for any expenses incurred by the bidder in the preparation of the tender irrespective of whether the tender is accepted or not.

1.15 BHEL Fraud Prevention Policy:

The bidder along with its associate/ collaborators/sub-contractors/ Sub-Vendors/ Consultants/service providers shall strictly adhere to BHEL Fraud Prevention Policy displayed on BHEL website <http://www.bhel.com> and shall immediately bring to the notice of BHEL Management about any fraud or suspected fraud as soon as it comes to their notice. Fraud prevention policy and list of Nodal officers shall be hosted on BHEL website, vendor portals of Units/Regions Internet.

CHAPTER-2

2.1 DEFINITION: The following terms shall have the meaning hereby assigned to them except where the context otherwise requires

- i) BHEL shall mean Bharat Heavy Electricals Limited, a company registered under Companies Act 1956, with its Registered Office at BHEL HOUSE, SIRI FORT, NEW DELHI – 110 049, or its Authorised Officers or its Site Engineers or other employees authorised to deal with any matters with which these persons are concerned on its behalf.
- ii) “EXECUTIVE DIRECTOR” or ‘GROUP GENERAL MANAGER’ or “GENERAL MANAGER (Incharge)” or “GENERAL MANAGER” shall mean the Officer in SOLAR BUSINESS DIVISION, Prof. CNR Rao Circle, IISc Post, Malleshwaram, BENGALURU - 560012
- iii) “COMPETENT AUTHORITY” shall mean Executive Director or Group General Manager or General Manager (In-charge) or General Manager or BHEL Officers who are empowered to act on behalf of the Executive Director or General Manager (In-charge) or General Manager of BHEL.
- iv) “ENGINEER” or “ENGINEER IN CHARGE” shall mean an Officer of BHEL as may be duly appointed and authorized by BHEL to act as “Engineer” on his behalf for the purpose of the Contract, to perform the duty set forth in this General Conditions of Contract and other Contract documents. The term also includes ‘CONSTRUCTION MANAGER’ or ‘SITE INCHARGE’ as well as Officers

- v) *"SITE" shall mean the places or place at which the plants/equipment are to be erected and services are to be performed as per the specification of this Tender.*
- vi) *"CLIENT OF BHEL" or "CUSTOMER" shall mean the project authorities with whom BHEL has entered into a contract for supply of equipment or provision of services.*
- vii) *"CONTRACTOR" shall mean the successful Bidder/Tenderer who is awarded the Contract and shall include the Contractor's successors, heirs, executors, administrators and permitted assigns.*
- viii) *"CONTRACT" or "CONTRACT DOCUMENT" shall mean and include the Work Order, Contract Agreement, the accepted appendices of Rates, Schedules, Quantities if any, General Conditions of Contract, Special Conditions of Contract, Instructions to the Tenderers, Drawings, Technical Specifications, the Special Specifications if any, the Tender documents, subsequent amendments mutually agreed upon and the Letter of Intent/Acceptance issued by BHEL. Any conditions or terms stipulated by the contractor in the tender documents or subsequent letters shall not form part of the contract unless, specifically accepted in writing by BHEL in the Letter of Intent/Award and incorporated in the agreement.*
- ix) *"GENERAL CONDITIONS OF CONTRACT" shall mean the 'Instructions to Tenderers' and 'General Conditions of Contract' pertaining to the work for which above tenders have been called for.*
- x) *"TENDER SPECIFICATION" or "TENDER" or "TENDER DOCUMENTS" shall mean General Conditions, Common Conditions, Special Conditions, Price Bid, Rate Schedule, Technical Specifications, Appendices, Annexures, Corrigendum's, Amendments, Forms, procedures, Site information, etc and drawings/documents pertaining to the work for which the tenderers are required to submit their offers. Individual specification number will be assigned to each Tender Specification.*
- xi) *"LETTER OF INTENT" shall mean the intimation by a Post/Fax/email to the tenderer that the tender has been accepted in accordance with provisions contained in the letter. The responsibility of the contractor commences from the date of issue of this letter and all terms and conditions of the contract are applicable from this date.*
- xii) *"COMPLETION TIME" shall mean the period by 'date/month' specified in the 'Letter of Intent/Award' or date mutually agreed upon for handing over of the intended scope of work, the erected equipment/plant which are found acceptable by the Engineer, being of required standard and conforming to the specifications of the Contract.*
- xiii) *"PLANT" shall mean and connote the entire assembly of the plant and equipment's covered by the contract.*



- xiv) *"EQUIPMENT" shall mean equipment, machineries, materials, structural, electrical and other components of the plant covered by the contract.*
- xv) *"TESTS" shall mean and include such test or tests to be carried out on the part of the contractor as are prescribed in the contract or considered necessary by BHEL, in order to ascertain the quality, workmanship, performance and efficiency of the contractor or part thereof.*
- xvi) *"APPROVED", "DIRECTED" or "INSTRUCTED" shall mean approved, directed or instructed by BHEL.*
- xvii) *"WORK or CONTRACT WORK" shall mean and include supply of all categories of labour, specified consumables, tools and tackles and Plants required for complete and satisfactory site transportation, handling, stacking, storing, erecting, testing and commissioning of the equipment's to the entire satisfaction of BHEL.*
- xviii) *"SINGULAR AND PLURALS ETC" words carrying singular number shall also include plural and vice versa, where the context so requires. Words imparting the masculine Gender shall be taken to include the feminine Gender and words imparting persons shall include any Company or Associations or Body of Individuals, whether incorporated or not.*
- xix) *"HEADING" – The heading in these General Conditions are solely for the purpose of facilitating reference and shall not be deemed to be part thereof or be taken as instructions thereof or of the contract.*
- xx) *"MONTH" shall mean calendar month unless otherwise specified in the Tender.*
- xxi) *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.*
- xxii) *"COMMISSIONING" shall mean the synchronization testing and achieving functional operation of the Equipment with associated system after all initial adjustments, trials, cleaning, re-assembly required at site if any, have been completed and Equipment with associated system is ready for taking into service.*
- xxiii) *"WRITING" shall include any manuscript type written or hand written or printed statement or electronically transmitted messages, under the signature or seal or transmittal of BHEL.*
- xxiv) *"TEMPORARY WORK" shall mean all temporary works for every kind required in or for the execution, completion, maintenance of the work.*
- xxv) *'CONTRACT PRICE' or 'CONTRACT VALUE' shall mean the sum including applicable taxes mentioned in the LOI/LOA/Contract Agreement subject to such additions thereto or deductions there from as may be made under provisions hereinafter contained*



xxvi) "COMMENCEMENT DATE" or "START DATE" shall mean the commencement/start of work at Site as per terms defined in the Tender

xxvii) "SHORT CLOSING" or "FORE CLOSING" of Contract shall mean the premature closing of Contract, for reasons not attributable to the contractor and mutually agreed between BHEL and the contractor

xxviii) "TERMINATION" of Contract shall mean the premature closing of contract due to reasons as mentioned in the contract

2.2 LAW GOVERNING THE CONTRACT AND COURT JURISDICTION

The contract shall be governed by the Law for the time being in force in the Republic of India. The Civil Court having original Civil Jurisdiction at Bengaluru, shall alone have exclusive jurisdiction in regard to all claims in respect of the Contract. No other Civil Court shall have jurisdiction in case of any dispute, under this contract

2.3 ISSUE OF NOTICE

2.3.1 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 Registered Post / Speed Post/ FAX / Email 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 a 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.

2.3.2 Service of notice on BHEL Any notice to be given to BHEL in-charge under the terms of the Contract shall be served by sending the same by post or Email or leaving the same at BHEL address or changed address as notified in writing by BHEL to the Contractor.

2.4 USE OF LAND

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

2.4.1 STORES AND MATERIALS:

The contractor shall, at his own expense, supply all stores and materials required for the contract, other than those which may be provided by BHEL at the rates detailed therein subject to their availability at the place of issue indicated therein. All stores and materials to be supplied by the Contractor shall be of the best kind as described in the Specifications and the Contractor shall, if required by the Engineer –in- charge furnish him with proof to his satisfaction that the store and materials so comply with the specifications.

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

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

Contractor is responsible for safe & secure storage of above material.

2.4.2 PATENT RIGHTS:

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

In the event of any claims being made or action brought against BHEL, or any agent, or servant or employee of BHEL., in respect of any of the matters aforesaid, the contractor shall not apply when such increment has taken place in complying with the specific directions issued by the BHEL but the contractor shall pay any royalties payable in respect of any such use.

2.4.3 WATER:

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

In the event of a provision existing in the Tender documents for supply of water on payment by BHEL, water will be supplied from the BHEL supply System, or other sources at any points fixed by the Site Engineer/ Engineer-in-charge on the site of work. The contractor shall make necessary arrangement for lifting, pumping, carrying or conveying the water as required at his own cost. The levy of water charges to be borne by the Contractor in such case shall be specifically mentioned in the Tender documents.

2.4.4 TEMPORARY WORKSHOPS, STORES ETC.:

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

On completion of the work all such temporary buildings shall be cleared and the site restored to its original state in a clean and tidy condition to the entire satisfaction of the Engineer-incharge.

2.5 COMMENCEMENT OF WORK

2.5.1 Time is essence of contract and is specified in the tender document or in each individual work order.

2.5.2 The contractor shall commence the work within seven (07) days from LOI/work order or as intimated by BHEL and shall proceed with the same with due expedition without delay.

2.5.3 If the contractor fails to start the work within stipulated time as per LOI or as intimated by BHEL, then BHEL at its sole discretion will have the right to cancel the contract. The Earnest Money and/or Security Deposit with BHEL will stand forfeited without any further reference to him without prejudice to any and all of BHEL's other rights and remedies in this regard.

2.5.4 All the work shall be carried out under the direction and to the satisfaction of BHEL.

2.6 MEASUREMENT OF WORK AND MODE OF PAYMENT:

2.6.1 All payments due to the contractors shall be made by electronic mode only, unless otherwise found operationally difficult.

2.6.2 For progress running bill payments: - The Contractor shall present detailed measurement sheets in triplicate, duly indicating all relevant details based on technical documents and connected drawings for work done during the month/period under various categories in line with terms of payment as per contract. The basis of arriving at the quantities, weights shall be relevant documents and drawings released by BHEL. These measurement sheets shall be prepared jointly with BHEL Engineers and signed by both the parties.

2.6.3 These measurement sheets will be checked by BHEL Engineer and quantities and percentage eligible for payment under various groups shall be decided by BHEL Engineer.

The abstract of quantities and percentage so arrived at based on the terms of payment shall be entered in Measurement Book and signed by both the parties.

2.6.4 Based on the above quantities, contractor shall prepare the bills in prescribed format and work out the financial value. These will be entered in Measurement Book and signed by both the parties. Payment shall be made by BHEL after effecting the recoveries due from the contractor.

2.6.5 All recoveries due from the contractor for the month/period shall be effected in full from the corresponding running bills unless specific approval from the competent authorities is obtained to the contrary.

2.6.6 Measurement shall be restricted to that portion of work for which it is required to ascertain the financial liability of BHEL under this contract.

2.6.7 The measurement shall be taken jointly by persons duly authorized on the part of BHEL and by the Contractor.

2.6.8 The Contractor shall bear the expenditure involved if any, in making the measurements and testing of materials to be used/used in the work. The contractor shall, without extra charges, provide all the assistance with appliances and other things necessary for measurement.

2.6.9 If at any time due to any reason whatsoever, it becomes necessary to re-measure the work done in full or in part, the expenses towards such re measurements shall be borne by the contractor unless such re measurements are warranted solely for reasons not attributable to contractor.

2.6.10 Passing of bills covered by such measurements does not amount to acceptance of the completion of the work measured. Any left out work has to be completed, if pointed out at a later date by BHEL.

2.6.11 Final measurement bill shall be prepared in the final bill format prescribed for the purpose based on the certificate issued by BHEL Engineer that entire works as stipulated in tender specification has been completed in all respects to the entire satisfaction of BHEL. Contractor shall give unqualified "No Claim" Certificate. All the tools and tackles loaned to him should be returned in satisfactory condition to BHEL. The abstract of final quantities and financial values shall also be entered in the Measurement Books and signed by both parties to the contract. The Final Bill shall be prepared and paid within a reasonable time after completion of work.



2.7 RIGHTS OF BHEL

BHEL reserves the following rights in respect of this contract during the original contract period or its extensions if any, as per the provisions of the contract, without entitling the contractor for any compensation.

2.7.1 To withdraw any portion of work and/or to restrict/alter quantum of work as indicated in the contract during the progress of work and get it done through other agencies to suit BHEL's commitment to its customer or in case BHEL decides to advance the date of completion due to other emergent reasons/ BHEL's obligation to its customer.

2.7.2 To terminate the contract or get any part of the work done through other agency or deploy BHEL's own/hired/otherwise arranged resources, at the risk and cost of the contractor after due notice of a period of two weeks by BHEL, in the event of: -

i) Contractor's continued poor progress

ii) Withdrawal from or abandonment of the work before completion of the work iii)

Contractor's inability to progress the work for completion as stipulated in the contract

iv) Poor quality of work

v) Corrupt act of Contractor

vi) Insolvency of the Contractor

vii) Persistent disregard to the instructions of BHEL

viii) Assignment, transfer, sub-letting of contract without BHEL's written permission

ix) Non fulfilment of any contractual obligations / non-compliance of statutory requirements

x) In the opinion of BHEL, the contractor is overloaded and is not in a position to execute the job as per required schedule

2.7.3 To meet the expenses including BHEL overheads of 35% & Liquidated damage/penalties arising out of "Risk & Cost" as explained above under SI.No. 2.7.2. BHEL shall recover the amount from any money due from Contractor, from any money due to the Contractor including Security Deposit or by forfeiting any T&P or material of the contractor under this contract or any other contract of BHEL or by any other means or any combination thereof

2.7.4 To terminate the contract or to restrict the quantum of work and pay for the portion of work executed in case BHEL's contract with their customer are terminated for any reason, as per mutual agreement.

2.7.5 To effect recovery from any amounts due to the contractor under this or any other contract or in any other form, the moneys BHEL is statutorily forced to pay to anybody, due to contractor's failure to fulfil any of his obligations. BHEL shall levy overheads of 35% on all such payments.

2.7.6 While every endeavour will be made by BHEL to this end, they cannot guarantee uninterrupted work due to conditions beyond their control. The Contractor will not be normally entitled for any compensation/extra payment on this account unless otherwise specified elsewhere in the contract.

2.7.7 In case the execution of works comes to a complete halt or reaches a stage wherein worthwhile works cannot be executed and there is no possibility of commencement of work for a period of not less than two months, due to reasons not attributable to the contractor and other than Force Majeure conditions, BHEL may consider permitting the contractor to de mobilize forthwith and re mobilize at an agreed future date. Cost of such demobilization/remobilization shall be mutually agreed. ORC (Over run Charges) in such cases shall not be applicable for the period between the period of demobilization and re mobilisation. The duration of contract/time extension shall accordingly get modified suitably. In case of any conflict, BHEL decision in this regard shall be final and binding on the contractor.

2.7.8 In the unforeseen event of inordinate delay in receipt of materials, drawings, fronts, etc, due to which inordinate discontinuity of work is anticipated, BHEL at its discretion may consider contractor's request to short close the contract, provided that the balance works are minor vis a vis the scope of work envisaged as per the contract. At the point of requesting for short closure, contractor shall establish that he has completed all works possible of completion and he is not able to proceed with the balance works due to constraints beyond his control. In such a case, the estimated value of the unexecuted portion of work as mutually agreed, shall however be reduced from the final contract value.

2.7.9 LIQUIDATED DAMAGES/PENALTY

COMPENSATION FOR DELAY:

If the contractor fails to maintain the required progress in terms of condition 2.10 or to complete the work and clear the site on or before the contracted or extended the period of completion, he shall, without prejudice to any other right or remedy of the BHEL on account of such breach, pay as agreed compensation an amount calculated as stipulated below

For unfinished anticipated value of work where finished portion is fit for use

Rate of compensation as follows:

- Completion period (as originally stipulated) not exceeding 6 months.@ 1 percent per week
- Completion period (as originally stipulated) Exceeding 6 months and not exceeding 2 years...@ 0.5 percent per week
- Completion period (as originally stipulated) exceeding 2 years..... @ 0.25 percent per week

Provided always that the total amount of compensation for delay to be paid under condition shall not exceed the under noted percentage of the anticipated contract value

- Completion period (as originally stipulated) not exceeding 6 months.@ 10 percent of anticipated value of work
- Completion period (as originally stipulated) Exceeding 6 months and not exceeding 2 years...@ 7.5 percent of anticipated value of work
- Completion period (as originally stipulated) Exceeding 2 years.....@ 5 percent of anticipated value of work

The amount of compensation may be adjusted or set off against any sum payable to the Contractor under this or any other contract with the BHEL.

2.7.10 POST TECHNICAL AUDIT OF WORK AND BILLS: BHEL reserve the right to carry out a post-payment audit and technical examination of the work and final bill including all supporting vouchers, abstract etc., and to enforce recovery of any sums becoming due as a result thereof in the manner provided in the proceeding sub-paragraph's provided however that no such recovery shall be enforced after three years of passing the final bill

2.8 RESPONSIBILITIES OF THE CONTRACTOR IN RESPECT OF LOCAL LAWS, EMPLOYMENT OF WORKERS ETC.

The following are the responsibilities of the contractor in respect of observance of local laws, employment of personnel, payment of taxes etc. The subcontractor shall fully indemnify BHEL against any claims of whatsoever nature arising due to the failure of the contractor in discharging any of his responsibilities hereunder:

2.8.1 *The contractor at all times during the continuance of this contract shall, in all his dealings with local labour for the time being employed on or in connection with the work, have due regard to all local festivals and religious and other customs.*

2.8.2 *The contractor shall comply with all applicable State and Central Laws, Statutory Rules, Maternity act, Regulations etc. such as contract labour(R&A) Act 1970, Minimum wage Act 1974, Payment of wages Act 1936,ESI Act 1948, EPF Act 1952, Employees' compensation Act 1923, Provision of Companies Act 1948 & rules thereof, The interstate Migrant Workmen 1979, The Karnataka Factories Rules 1969, Payment of Bonus Act 1965, Payment of Gratuity Act 1972. Child labour Prohibition act 1986, Karnataka Minimum Wage Act , Prevention of sexual harassment at work place Act 2013, Guidelines/notification related to Safai Karamchari Act , Equal Remuneration Act 1976, The company's instructions as*

issued from time to time in regard to working hours, wages, leaves, holidays etc. for labour as may be enacted by the Government during the tenure of the Contract and having force or jurisdiction at Site. The Contractor shall also give to the local Governing Body, Police and other relevant Authorities all such notices as may be required by the Law.

The contractor shall produce the following registers and forms:

- Form XIII- Register of work men employed by contractor(Rule 75)
- Form XIV- Employment Card issued by contractor(Rule 76)
- Form XVI- Muster Roll (Rule 78(1) (a)(i))
- Form XVII- Register of Wages (Rule 78(1) (a)(i))
- Form XVIII- Register of wages cum Muster Roll(in case of weekly payment)
- Form XIX- Wage slip (Rule 78(b))
- Form XX- Register of deduction for damages Or Loss Rule 78(1) (a)(ii))
- Form XXI- Register of files Rule 78(1) (a)(ii))
- Form XXII- Register of Advance Rule 78(1) (a)(ii)) x Form XXIII- Register of Overtime Rule 78(1) (a)(iii))
- Form XXIV- Return to be sent by the contractor to the Licensing officer (Rule 82(1))

2.8.3 The contractor shall obtain independent License under the Contract Labour (Regulations and Abolition Act) as required from the concerned Authorities based on the certificate (Form-V) issued by the Principal Employer/Customer

2.8.4 The contractor shall pay all taxes, fees, license charges, deposits, duties, tolls, royalties, commission or other charges which may be levied on account of his operations in executing the contract.

2.8.5 While BHEL would pay the inspection fees and Registration fees of Boiler & explosive/Electrical Inspectorate, all other arrangements for site visits periodically by the Inspectorate to site, Inspection certificate etc. will have to be made by contractor. However, BHEL will not make any payment to the Inspectorate in connection with contractor's Welders/Electricians qualification tests etc.

2.8.6 Contractor shall be responsible for provision of Health and Sanitary arrangements (more particularly described in Contract Labour Regulation & Abolition Act), Safety precautions etc. as may be required for safe and satisfactory execution of contract.

2.8.7 The contractor shall be responsible for proper accommodation including adequate medical facilities for personnel employed by him.

2.8.8 The contractor shall be responsible for the proper behavior and observance of all regulations by the staff employed by him.

2.8.9 The contractor shall ensure that no damage is caused to any person/property of other parties working at site. If any such damage is caused, it is responsibility of the contractor to make good the losses or compensate for the same.

2.8.10 All the properties/equipment/components of BHEL/their Client loaned with or without deposit to the contractor in connection with the contract shall remain properties of BHEL/their Client.

2.8.11 The contractor shall use such properties for the purpose of execution 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 hours to the contrary. The contractor shall return them in good condition as and when required by BHEL/their Client. In case of non-return, loss, damage, repairs etc, the cost thereof as may be fixed by BHEL Engineer will be recovered from the contractor

2.8.12 Any delay in completion of works/or non-achievement of periodical targets due to the reasons attributable to the contractor, the same may have to be compensated by the contractor either by increasing manpower and resources or by working extra hours and/or by working more than one shift. All these are to be carried out by the contractor at no extra cost.

2.8.13 The contractor shall arrange, coordinate his work in such a manner as to cause no hindrance to other agencies working in the same premises.

2.8.14 All safety rules and codes applied by the Client/BHEL at site shall be observed by the contractor without exception. The contractor shall be responsible for the safety of the equipment/material and works to be performed by him and shall maintain all light, fencing guards, slings etc. or other protection necessary for the purpose. Contractor shall also take such additional precautions as may be indicated from time to time by the Engineer with a view to prevent pilferage, accidents, fire hazards. Due precautions shall be taken against fire hazards and atmospheric conditions. Suitable number of Clerical staff, watch and ward, store keepers to take care of equipment/materials and construction tools and tackles shall be posted at site by the contractor till the completion of work under this contract. The contractor shall arrange for such safety devices as are necessary for such type of work and carry out the requisite site tests of handling equipment, lifting tools, tackles etc. as per prescribed standards and practices. Contractor has to ensure the implementation of Health, Safety and Environment (HSE) requirements as per directions given by BHEL/Customer. The contractor has to assist in HSE audit by BHEL/Customer and submit compliance Report. The contractor has to generate and submit record/reports as per HSE plan/activities as per instruction of BHEL/Customer. All tools, plant and equipment brought to the site shall become the property of BHEL and shall not be removed from the site without the prior written approval from BHEL. When the work is finally completed or the Contractor is determined for reasons other than the defaults of the contract, he shall forthwith remove from the site all tools, plants, equipment etc., (other than those as may have been provided by BHEL) and upon such removal, the same shall revert in, and become the property of the contractor.

2.8.15 The contractor will be directly responsible for payment of wages to his workmen on specified date of respective month declared as per applicable Labour Act. A pay roll sheet giving all the payments given to the workers and duly signed by the contractor's representative should be furnished to BHEL site for record purpose.

2.8.16 In case of any class of work for which there is no such specification as laid down in the contract, such work shall be carried out in accordance with the instructions and requirements of the Engineer.

2.8.17 Also, no idle charges will be admissible in the event of any stoppage caused in the work resulting in contractor's labour and Tools & Plants being rendered idle due to any reason at any time.

2.8.18 The contractor shall take all reasonable care to protect the materials and work till such time the plant/equipment has been taken over by BHEL or their Client whichever is earlier.

2.8.19 The contractor shall not stop the work or abandon the site for whatsoever reason of dispute, excepting force majeure conditions. All such problems/disputes shall be separately discussed and settled without affecting the progress of work. Such stoppage or abandonment shall be treated as breach of contract and dealt with accordingly

2.8.20 The contractor shall keep the area of work clean and shall remove the debris etc. while executing day-to-day work. Upon completion of work, the contractor shall remove from the vicinity of work, all scrap, packing materials, rubbish, unused and other materials and deposit them in places specified by the Engineer. The contractor will also demolish all the hutments, sheds, offices, etc. constructed and used by him and shall clean the debris. In the event of his failure to do so, the same will be arranged to be done by the Engineer and the expenses recovered from the contractor. If the work is executed in Factory premises, no hutment will be allowed.

2.8.21 The contractor shall execute the work in the most substantial and workman like manner in the stipulated time. Accuracy of work and timely execution shall be the essence of this contract. The contractor shall be responsible to ensure that the quality, assembly and workmanship conform to the dimensions and clearance given in the drawings and/ or as per the instructions of the Engineer.

2.8.22 The Contractor to note that some of BHEL's T&Ps/MMDs may not be insured. The Contractor will take necessary precautions and due care to protect the same while in his custody from any damage/ loss till the same is handed over back to BHEL. In case the damage / loss is due to carelessness/ negligence on the part of the contractor, the Contractor is liable to get them repair/ replaced immediately and in case of his failure to do so within a reasonable time, BHEL will reserve the right to recover the loss from the contractor.

2.8.23 The contractor shall provide all watchmen necessary, for the protection of the site, the work, the materials, the tools, plant, equipment and anything else lying on the site during the progress of the work. He shall solely be responsible for and shall take all reasonable and proper steps for protecting, securing, lighting and watching all places on or about the work and the site which may be dangerous to any person whom so ever.

2.8.24 SITE DRAINAGE: All water that may accumulate on the site during the process of the work, or in trenches and excavations shall be removed to the entire satisfaction of the Engineering-charge and at Contractors expense.

2.8.25 INSPECTION OF THE WORK: BHEL Officers concerned with the Contract shall have power at any time to inspect and examine any part of the work and the contractor shall give such facilities as may be required to given for such inspection and examination.

2.8.26 In case the contractor is required to undertake any work outside the scope of this contract, the rates payable shall be those mutually agreed upon if the item rates are not mentioned in existing contract

- i. For any item of work required to be carried out after the contract has been awarded and which is not covered by Contractors Schedule but is covered by C.P.W.D. schedule of rates the rate payable for such a fresh item will be derived from updated C.P.W.D. schedule of rates by the method of proportion as follows:
- ii. Rate as per estimated updated C.P.W.D DSR and loading tender excess (plus or minus) on pro-rata basis for nearest analogous items. For other items rate as per estimated C.P.W.D DSR and loading tender excess (plus or minus)
- iii. If rates are not available in C.P.W.D. DSR, deviated item rates will be derived from market rate with 15% profit and overheads.

2.9 PROGRESS MONITORING, MONTHLY/ WEEKLY REVIEW AND PERFORMANCE EVALUATION

2.9.1 A detailed plan/programme for completion of the contractual scope of work as per the time schedule given in the contract shall be jointly agreed between BHEL and Contractor, before commencement of work. The above programme shall be supported by month/ week wise deployment of resources viz Manpower, T&P, Consumables, etc. Progress will be reviewed periodically (Daily/Weekly/Monthly) vis a vis this jointly agreed programme. The Contractor shall submit periodical progress reports (Daily/Weekly/Monthly) and other reports/information including manpower, consumables, T&P mobilization etc as desired by BHEL.

2.9.2 Monthly/ weekly progress review between BHEL and Contractor shall be based on the agreed programme as above, availability of inputs/fronts etc, and constraints if any, as per prescribed formats. Manpower, T&P and consumable reports as per prescribed formats shall

be submitted by contractor every month. Release of RA Bills shall be contingent upon certification by BHEL Site Engineer of the availability of the above prescribed formats duly filled in and signed.

2.9.3 The burden of proof that the causes leading to any shortfall is not due to any reasons attributable to the contractor is on the contractor himself. The monthly progress review shall record shortfalls attributable to (i) Contractor, (ii) Force Majeure Conditions, and (iii) BHEL

2.10 TIME OF COMPLETION

2.10.1 Time is essence of the contract. The time schedule shall be as prescribed in the Contract. The time for completion shall be reckoned from the date of commencement of work at Site as certified by BHEL Engineers

2.10.2 The entire work shall be completed by the contractor within the time schedule or within such extended periods of time as may be allowed by BHEL under clause 2.11

2.11 EXTENSION OF TIME FOR COMPLETION

2.11.1 If the completion of work as detailed in the scope of work gets delayed beyond the contract period, the contractor shall request for an extension of the contract and BHEL at its discretion may extend the Contract.

2.11.2 Based on the monthly reviews jointly signed, the works balance at the end of original contract period less the backlog attributable to the contractor shall be quantified, and the number of months of 'Time extension' required for completion of the same shall be jointly worked out. Within this period of 'Time extension', the contractor is bound to complete the portion of backlog attributable to the contractor. Any further 'Time extension' or 'Time extensions' at the end of the previous extension shall be worked out similarly.

2.11.3 However if any 'Time extension' is granted to the contractor to facilitate continuation of work and completion of contract, due to backlog attributable to the contractor alone, then it shall be without prejudice to the rights of BHEL to impose penalty/LD for the delays attributable to the contractor, in addition to any other actions BHEL may wish to take at the risk and cost of contractor.

2.11.4 A joint programme shall be drawn for the balance amount of work to be completed during the period of 'Time Extension', along with matching resources (with weightages) to be deployed by the contractor as per specified format. Review of the programme and record of shortfall shall be done every month of the 'Time extension' period in the same manner as is done for the regular contract period.

2.11.5 During the period of 'Time extension', contractor shall maintain their resources as per mutually agreed program

2.11.6 At the end of total work completion as certified by BHEL Engineer, and upon analysis of the total delay, the portion of time extensions attributable to (i) Contractor, (ii) Force majeure conditions, and (iii) BHEL, shall be worked out and shall be considered to be exhausted in the same order. The total period of time extensions shall be the sum of (i), (ii) and (iii) above and shall be equal to period between the scheduled date of completion and the actual date of completion of contract. LD shall be imposed/levied for the portion of time extensions attributable to contractor and recoverable from the dues payable to the contractor.

2.12 OVERRUN COMPENSATION (THIS CLAUSE IS NOT APPLICABLE IN BHEL FACTORY & TOWNSHIP PREMISES)

2.12.1 Over Run Compensation (ORC) is payable by way of rate revisions for periods beyond original, contract period subject to the following terms and conditions.

2.12.2 Rates shall be increased by 10% for the first twelve months of one or more extensions beyond original contract period. For the next twelve months of further extensions if any, rates shall be increased as above by 10% over the previous twelve months, and similarly for each subsequent twelve months extension.

2.12.3 Should there be any 'Time extension' for reasons attributable only to the contractor, then the work shall be executed by the contractor at the rates applicable for the period the work was planned

2.12.4 Payment of ORC shall be regulated as follows:

- i) Contractor is entitled to Over Run Compensation (ORC) only for the portion of backlog attributable to BHEL.
- ii) 50% of the compensation is allocated for deployment of resources agreed as per the joint programme drawn vide 2.11.4. Payment shall however be based on the actual deployment of resources for the month as certified by BHEL, as per weightages assigned therein
- iii) 50% of the compensation, is allocated for achieving of planned progress agreed as per the joint programme drawn vide 2.11.4. Payment shall be on pro rata basis for actual achieved quantities
- iv) Total Over Run Compensation shall be limited to 10% of the executed contract value as certified in Final Bill. For this purpose, executed contract value excludes PVC, ORC, Supplementary/Additional Items and Extra Works done on Man-day rate basis

2.12.5 Contractor shall not be entitled for any Over Run Compensation (ORC) for the portion of backlog attributable to the contractor. Such works shall be executed at the rates applicable for the period the work was planned

2.13 QUANTITY VARIATION

2.13.1 *The quoted rates shall remain firm irrespective of any variations in the individual quantities.*

2.14 EXTRA WORKS

2.14.1 All rectifications/modifications, revamping, and reworks required for any reasons not attributable to the contractor, or needed due to any change in deviation from drawings and design of equipment, operation/maintenance requirements, mismatching, or due to damages in transit, storage and erection/commissioning, and other allied works which are not very specifically indicated in the drawings, but are found essential for satisfactory completion of the work, will be considered as extra works.

2.14.2 Extra works arising on account of the contractor's fault, irrespective of time consumed in rectification of the damage/loss, will have to be carried out by the contractor free of cost. Under such circumstances, any material and consumable required for this purpose will also have to be arranged by the contractor at his cost.

2.14.3 All the extra work should be carried out by a separately identifiable gang, without affecting routine activities. Daily log sheets in the pro-forma prescribed by BHEL should be maintained and shall be signed by the contractor's representative and BHEL engineer. No claim for extra work will be considered/entertained in the absence of the said supporting documents i.e. daily log sheets. Signing of log sheets by BHEL engineer does not necessarily mean the acceptance of such works as extra works.

2.14.4 BHEL retains the right to award or not to award any of the major repair/rework/modification/rectification/fabrication works to the contractor, at their discretion without assigning any reason for the same

2.14.5 After eligibility of extra works is established and finally accepted by BHEL engineer/designer, payment will be released on competent authority's approval at the following rate.

MAN-HOUR RATE FOR ELIGIBLE EXTRA WORKS: Single composite average labour manhour rate, including overtime if any, supervision, use of tools and tackles and other site expenses and incidentals, consumables for carrying out any major rework/repairs/rectification/modification/fabrication as certified by site as may arise during the course of erection, testing, commissioning or extra works arising out of transit, storage and erection damages, payment, if found due will be as per applicable minimum wage act

2.14.6 The above composite labour man hour rate towards extra works shall remain firm and not subject to any variation during execution of the work. PVC will not be applicable for extra works. Rate revision, Over Run Charges/compensation etc will not be applicable due to extra works.

2.14.7 Extra Works for Civil Packages shall be regulated as follows

i) Rates for Extra Works arising due to (1) non availability of BOQ (Rate Schedule), OR (2) change in Specifications of materials/works (3) rectification/modification/dismantling & re-erecting etc due to no fault of Contractor, shall be in the order of the following:

a) Item rates are to be derived from similar nature of items in the BOQ (Rate Schedule) with applicable escalation derived from All India Consumer Price Index for Whole Sale Commodities.

b) As per applicable updated CPWD-DSR (or latest edition) with applicable escalation derived, Notification issued by the office of CPWD for 'Cost Index' in that Region where the project is being executed,

c) Item rates are to be worked out on the basis of prevailing market rates mutually agreed between BHEL and Contractor, plus 15% towards Contractor's overheads and profit.

ii) PVC and ORC will not applicable be for (i) above.

2.15 **SUPPLEMENTARY ITEMS**

2.15.1 For NON Civil Works

Supplementary items are items/works required for completion of entire work but not specified in the scope of work. Subject to certification of such items/works as supplementary items by BHEL Engineer, rates shall be derived on the basis of any one of the following on mutual agreement:

i) Based on percentage breakup/rates indicated for similar/nearby items

ii) In case (i) above does not exist, then BHEL/site may derive the percentage breakup/rates to suit the type of work

2.15.2 For Civil Works

i) Rates for Supplementary Works/Additional Works arising out due to additions/alterations in the original scope of works as per contract subject to certification of BHEL Engineer shall be worked out as under:

a) Item rates which are available in existing BOQ (Rate Schedule) shall be operated with applicable escalation derived from All India Consumer Price Index for Whole Sale Commodities

b) Items of works which are not available in existing BOQ shall be operated as an 'Extra Works' and rate shall be derived as per clause no 2.14

- ii) *Execution of Supplementary Works/Additional Works through the Contractor shall be at the sole discretion of BHEL, and shall be considered as part of executed contract value for the purpose of Quantity Variation as per clause 2.13*
- iii) *BHEL Engineer's decision regarding fixing the rate as above is final and binding on the contractor.* iv) *PVC and ORC will not be applicable for (i) above.*

2.16 STRIKES & LOCKOUT

2.16.1 The contractor will be fully responsible for all disputes and other issues connected with his labour/employee. In the event of the contractor's labour/employee resorting to strike or the Contractor resorting to lockout and if the strike or lockout declared is not settled within a period of 15 days, BHEL shall have the right to get the work executed through any other agencies and the cost so incurred by BHEL along with Overhead charges of 35% shall be deducted from the Contractor's bills along with overhead of 35%

2.16.2 For all purposes whatsoever, the employees of the contractor shall not be deemed to be in the employment of BHEL

2.17 FORCE MAJEURE

The following shall amount to Force Majeure: -

2.17.1 Acts of God, act of any Government, War, Sabotage, Riots, Strike, Civil commotion, Police action, Revolution, Flood, Fire, Cyclones, Earth quake and Epidemic and other similar causes over which the contractor has no control.

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

2.18 ARBITRATION & RECONCILIATION

2.18.1 In case amicable settlement is not reached in the event of any dispute or difference arising out of the execution of the Contract or the respective rights and liabilities of the parties or in relation to interpretation of any provision by the Contractor in any manner touching upon the Contract, such dispute or difference shall (except as to any matters, the decision of which is specifically provided for therein) be referred to the sole arbitration of the arbitrator appointed by BHEL/In charge.

The award of the Arbitrator shall be binding upon the parties to the dispute Subject as aforesaid, the provisions of Arbitration and Reconciliation Act 1996 (India) or statutory

modifications or reenactments thereof and the rules made there under and for the time being in force shall apply to the arbitration proceedings under this clause. The venue of the arbitration shall be the place from which the contract is issued or such other place as the Arbitrator at his discretion may determine

2.18.2 In case of Contract with Public Sector Enterprise (PSE) or a Government Department, the following shall be applicable:

In the event of any dispute or difference relating to the interpretation and application of the provisions of the Contract, such dispute or difference shall be referred to by either party to the arbitration of one of the arbitrators in the department of public enterprises. The award of the arbitrator shall be binding upon the parties to the dispute, provided, however, any party aggrieved by such award may make further reference for setting aside or revision of the award to the Law Secretary, Department of Legal Affairs, Ministry of Law and Justice, Government of India. Upon such reference the dispute shall be decided by the Law Secretary or the Special Secretary or Additional Secretary when so authorized by the Law Secretary, whose decision shall bind the parties hereto finally and conclusively.

2.18.3 The cost of arbitration shall be borne equally by the parties.

2.18.4 Work under the contract shall be continued during the arbitration proceedings

2.19 PAYMENTS

Payments to Contractors are made in any one of the following forms

2.19.1 Running Account Bills (RA Bills)

- i) These are for interim payments when the contracts are in progress. The bills for such interim payments are to be prepared by Contractor in prescribed formats (RA Bill forms).*
- ii) Payments shall be made according to the extent of work done as per measurements taken up to the end of the calendar month and in line with the terms of payments described in the Tender documents along with relevant statutory documents applicable for the work.*
- iii) Recoveries on account of electricity, water, statutory deductions, etc are made as per terms of contract*
- iv) Full rates for the work done shall be allowed only if the quantum of work has been done as per the specifications stipulated in the contract. If the work is not executed as per the stipulated specifications, BHEL may ask the contractor to re do the work according to the required specifications, without any extra cost. However, where this is not considered necessary 'OR' where the part work is done due to factors like non-availability of material to be supplied by BHEL 'OR' non availability of fronts 'OR' non availability of drawings, fraction payment against full rate, as is considered reasonable, may be allowed with due regard for*

the work remaining to be done. BHEL decision in this regard will be final and binding on the contractor.

v) In order to facilitate part payment, BHEL Site Engineer at his discretion may further split the contracted rates/percentages to suit site conditions, cash flow requirements according to the progress of work

2.19.2 Final Bill

Final Bill is used for final payment on closing of Running Account for works or for single payment after completion of works. *Final Bill* shall be submitted as per prescribed format after completion of works as per scope and upon material reconciliation, along with the following.

- i) *'No Claim Certificate'* by contractor
- ii) Clearance certificates where ever applicable viz Clearance Certificates from Customer, various Statutory Authorities like Labour department, PF Authorities, Commercial Tax Department, etc
- iii) Indemnity bond as per prescribed format BHEL shall settle the final bills after deducting all liabilities of Contractor to BHEL

2.20 PERFORMANCE GUARANTEE FOR WORKMANSHIP

2.20.1 Even though the work will be carried out under the supervision of BHEL Engineers the Contractor will be responsible for the quality of the workmanship and shall guarantee the work done for a period of as mentioned in the contract/NIT from the date of commencement of guarantee period as defined in Technical Conditions of Contract, for good workmanship and shall rectify free of cost all defects due to faulty erection detected during the guarantee period. In the event of the Contractor failing to repair the defective works within the time specified by the Engineer, BHEL may proceed to undertake the repairs of such defective works at the Contractor's risk and cost, without prejudice to any other rights and recover the same from the balance security deposit.

2.20.2 BHEL shall release the balance security deposit subject to the following

- i) Contractor has submitted *'Final Bill'*
- ii) Guarantee period as per contract has expired
- iii) Contractor has furnished *'No Claim Certificate'* in specified format
- iv) BHEL Site Engineer/Construction Manager has furnished the *'No Demand Certificate'* in specified format

v) Contractor has carried out the works required to be carried out by him during the period of Guarantee and all expenses incurred by BHEL on carrying out such works is included for adjustment from the Guarantee money refundable.

2.21 CLOSING OF CONTRACTS

The Contract shall be considered completed and closed upon completion of all contractual obligations and settlement of Final Bill or completion of Guarantee period whichever is later. Upon closing of Contract, BHEL shall issue a completion certificate as per standard format, based on specific request of Contractor.

2.22 REVERSE AUCTION/PRICE BID OPENING:

- BHEL reserves the right to go for reverse auction at any point of time before opening of Price Bid.
- Bids with non-acceptance of reverse auction will be liable for rejection.
- Opening of Price Bid at discretion of BHEL.
- BHEL shall be at liberty to cancel the tender at any time, before ordering, without assigning any reason.

2.23 SUSPENSION OF BUSINESS DEALINGS

BHEL reserves the right to take action against Contractors who either fail to perform or Tenderers/Contractor who indulge in malpractices, by suspending business dealings with them in line with BHEL guidelines issued from time to time.

2.24 OTHER ISSUES

2.24.1 Value of Non judicial Stamp Paper for Bank Guarantees and for Contract Agreement shall be not less than Rs 200/- unless otherwise required under relevant statutes.

2.24.2 In case of any conflict between the General Conditions of Contract and Special Conditions of Contract, provisions contained in the Special Conditions of Contract shall prevail.

2.24.3 Unless otherwise specified in NIT, offers from consortium/JVs shall not be considered.

2.24.4 BHEL may not insist for signing of Contract Agreements in respect of low value and short time period contracts

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Dated: 08.03.2021

1.0 Scope

This document describes the guidelines to be followed by BHEL for conducting Reverse Auction (RA) for procurement of material/ works/ services. The RA shall follow the philosophy of English Reverse (No ties).

English Reverse (No ties) is a type of auction where the starting price and bid decrement are announced before start of online reverse auction. The interested bidders can thereupon start bidding in an iterative process wherein the lowest bidder at any given moment can be displaced by an even lower bid of a competing bidder, within a given time frame. The bidding is with reference to the current lowest bid in the reverse auction. All bidders will see the current lowest quoted price and their rank. The term 'No ties' is used since more than one bidder cannot give an identical price, at a given instant, during the reverse auction. In other words, there shall never be a tie in the bids.

3.0 Upfront declaration in NIT

Decision to go for RA would be taken before floating of the tender. In case it is decided to go for RA, same shall be declared upfront in NIT by inserting the following **clause**:

"BHEL shall be resorting to Reverse Auction (RA) (Guidelines as available on www.bhel.com) for this tender. RA shall be conducted among the techno-commercially qualified bidders.

Price bids of all techno-commercially qualified bidders shall be opened and same shall be considered for RA. In case any bidder(s) do(es) not participate in online Reverse Auction, their sealed envelope price bid along with applicable loading, if any, shall be considered for ranking."

6.0 Business rules for RA

Model Annexure-I is attached.

7.0 Role of Service Provider

- Acknowledge the receipt of mandate from BHEL.
- Contact the bidders, provide business rules and train them, as required.
- Get the process compliance form signed by all the participating bidders before RA event.

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- Conduct the event as per the contract and business rules.
- Submit the Login Reports, Results, History sheet and authorized final bid from the bidders.
- To obtain price breakup from successful bidder and submit the same to BHEL.

10.0 Reverse Auction Process

10.1 Reverse Auction will be conducted if two or more bidders are techno-commercially qualified. In case of two or three qualified bidders, there shall be no elimination of H1 bidder (whose quote is highest in sealed envelope price bid). In case of four qualified bidders, the H1 bidder shall be eliminated whereas in case of five qualified bidders, H1 & H2 bidders shall be eliminated. However, in case of six or more qualified bidders are available, RA would be conducted amongst first 50% of the bidders arranged in the order of prices from lowest to highest. Number of bidders eligible for participating in RA would be rounded off to next higher integer value if number of qualified bidders is odd (e.g. if 7 bids are qualified, then RA will be conducted amongst lowest four bidders). However, there will be no elimination of qualified bidders who are MSE or qualifying under PPP-MII, Order 2017, irrespective of the number of bidders qualifying techno-commercially.

In case of multiple H1 bidders, all H1 bidders (excluding MSEs and bidders qualifying under PPP-MII, Order 2017) shall be removed provided minimum two bidders remain in fray, else no H1 removal.

10.2 During RA, all bidders will see their rank and current L1 price on the screen. Once the RA is done, the ranking status would be based on the last quoted price of the bidder(s) irrespective of the quote received in RA or sealed envelope price bid.

10.3 No bidder shall be allowed to lower its bid below the current L1 by more than 5 decrements at one go.

11.0 Processing of case after RA

11.2 In case of splitting requirement, bidders who were removed from participation in RA may also be considered for counter offer if the pre-stated (NIT) numbers of suppliers do not accept the counter offer.

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13.0 Others

- 13.2 In case of enquiry through e-Procurement, the sealed electronic price bid (e-bid) is to be treated as sealed envelope price bid.
- 13.3 BHEL will inform bidders the details of service provider who will provide business rules, all necessary training and assistance before commencement of online bidding.
- 13.4 Bidders will be advised to read the 'Business Rules' indicating details of RA event carefully, before reverse auction event.

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This has reference to tender no **{tender number....date...}**. BHEL shall finalise the Rates for the supply of **{item name}** through Reverse Auction mode. BHEL has made arrangement with M/s. **{Service provider}**, who shall be BHEL's authorized service provider for the same. Bidders should go through the instructions given below and submit acceptance of the same.

The technical & commercial terms are as per (a) BHEL Tender Enq. No. {...} dated {...}, (b) Bidders' technical & commercial bid (in case of two part bid) and (c) subsequent correspondences between BHEL and the bidders, if any.

1. Procedure of Reverse Auctioning

- i. Price bids of all techno-commercially qualified bidders shall be opened.
- ii. **Reverse Auction:** The 'bid decrement' will be decided by BHEL.
- iv. Bidders by offering a minimum bid decrement or the multiples thereof can displace a standing lowest bid and become "L1" and this continues as an iterative process. However, no bidder shall be allowed to lower its bid below the current L1 by more than 5 decrements at one go.
- v. After the completion of the reverse auction, the Closing Price shall be available for further processing.
- vi. Wherever the evaluation is done on total cost basis, after Reverse Auction, prices of individual line items shall be reduced on pro-rata basis.

2. **Schedule for reverse auction:** The Reverse Auction is tentatively scheduled on {date}: ;{start time}: ;{Close Time: }.

3. **Auction extension time:** If a bidder places a bid in the last {...} minutes of closing of the Reverse Auction and if that bid gets accepted, then the auction's duration shall get extended automatically for another {...} minutes, for the entire auction (i.e. for all the items in the auction), from the time that bid comes in. Please note that the auto-extension will take place only if a bid comes in those last {...} minutes and if that bid gets accepted as the lowest bid. If the bid does not get accepted as the lowest bid, the auto-extension will not take place even if that bid might have come in the last {...}

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minutes. In case, there is no bid in the last {...} minutes of closing of Reverse Auction, the auction shall get closed automatically without any extension. However, bidders are advised not to wait till the last minute or last few seconds to enter their bid during the auto-extension period to avoid complications related with internet connectivity, network problems, system crash down, power failure, etc.

The above process will continue till completion of Reverse Auction.

Complaints/ Grievances, if any, regarding denial of service or any related issue should be given in writing thru e-mail/ fax to M/s. {Service provider} with a copy to BHEL within 15 minutes prior to initial closing time of Reverse Auction.

4. **Bid price:** The Bidder has to quote the {...} Price inclusive of Packing & Forwarding charges, all the routine & type tests as per tender scope, taxes, duties, freight and insurance as specified in tender document. including loading (if indicated by BHEL due to deviations in technical/ commercial terms) for the Items specified. Details are as shown in Excel Sheet for calculation of total cost to BHEL (To be specified by Unit as per NIT conditions).
5. **Bidding currency and unit of measurement:** Bidding will be conducted in *Indian Rupees per Unit* of the material as per the specifications {...}

In case of foreign currency bids, exchange rate (TT selling rate of State Bank of India) as on scheduled date of tender opening (Part-I bid) shall be considered for conversion in Indian Rupees. If the relevant day happens to be a Bank holiday, then the forex rate as on the previous bank (SBI) working day shall be taken.
6. **Validity of bids:** Price shall be valid for {... days} from the date of reverse auction. These shall not be subjected to any change whatsoever.
7. **Lowest bid of a bidder:** In case the bidder submits more than one bid, the lowest bid at the end of Reverse Auction will be considered as the bidder's final offer to execute the work.
8. Unique user IDs shall be used by bidders during bidding process. All bids

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made from the Login ID given to the bidders will be deemed to have been made by the bidders/ bidders' company.

9. **Post auction procedure:** BHEL will proceed with the Lowest Bid in the Reverse Auction for further processing.
11. Reverse auction shall be conducted by BHEL (through M/s {Service Provider}), on pre-specified date, while the bidders shall be quoting from their own offices/ place of their choice. Internet connectivity shall have to be ensured by bidders themselves.

During the RA process if a bidder is not able to bid and requests for extension of time by FAX/ email/ phone then time extension of additional 15 minutes will be given by the service provider provided such requests come before 5 minutes of auction closing time. However, only one such request per bidder can be entertained.

In order to ward-off contingent situation of connectivity failure bidders are requested to make all the necessary arrangements/ alternatives whatever required so that they are able to circumvent such situation and still be able to participate in the reverse auction successfully. Failure of power or loss of connectivity at the premises of bidders during the Reverse auction cannot be the cause for not participating in the reverse auction. On account of this, the time for the auction cannot be extended and neither BHEL nor M/s. {Service provider} is responsible for such eventualities.

12. Proxy bids: Proxy bidding feature is a pro-bidder feature to safe guard the bidder's interest of any internet failure or to avoid last minute rush. The proxy feature allows bidders to place an automated bid in the system directly in an auction and bid without having to enter a new amount each time a competing bidder submits a new offer. The bid amount that a bidder enters is the minimum that the bidder is willing to offer. Here the software bids on behalf of the bidder. This obviates the need for the bidder participating in the bidding process until the proxy bid amount is decrementally reached by other bidders. When proxy bid amount is reached, the bidder (who has submitted the proxy bid) has an option to start participating in the bidding process.

The proxy amount is the minimum amount that the bidder is willing to offer.

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During the course of bidding, the bidder cannot delete or change the amount of a proxy bid.

Bids are submitted in decrements (decreasing bid amounts). The application automates proxy bidding by processing proxy bids automatically, according to the decrement that the auction originator originally established when creating the auction, submitting offers to the next bid decrement each time a competing bidder bids, regardless of the fact whether the competing bids are submitted as proxy or standard bids. However, it may please be noted that if a manual bid and proxy bid are submitted at the same instant manual bid will be recognized as the L1 at that instant.

In case of more than one proxy bid, the system shall bid till it crosses the threshold value of 'each lowest proxy bid' and thereafter allow the competition to decide the final L1 price.

Proxy bids are fed into the system directly by the respective bidders. As such this information is privy only to the respective bidder(s).

13. Bidders are advised to get fully trained and clear all their doubts such as refreshing of Screen, quantity being auctioned, tender value being auctioned etc from M/s {Service provider}.
14. M/s. {Service provider}, shall arrange to demonstrate/ train the bidder or bidder's nominated person(s), without any cost to bidders. M/s. {Service provider}, shall also explain the bidders, all the business rules related to the Reverse Auction. Bidders are required to submit their acceptance to the terms/ conditions/ modalities before participating in the Reverse Auction in the process compliance form as enclosed. Without this, the bidder will not be eligible to participate in the event.
15. Successful bidder shall be required to submit the final prices (L1) in prescribed format (Annexure – VI) for price breakup, quoted during the Reverse Auction, duly signed and stamped as token of acceptance without any new condition (other than those already agreed to before start of auction), after the completion of auction to M/s. {Service provider} besides BHEL within two working days of Auction without fail.
16. Any variation between the final bid value and that in the confirmatory

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signed price breakup document will be considered as tampering the tender process and will invite action by BHEL as per extant guidelines for suspension of business dealings (as available on www.bhel.com).

17. Bidders' bid will be taken as an offer to execute the work/ supplies the item as per enquiry no. {...} dt. {...}. Bids once made by the bidder, cannot be cancelled/ withdrawn and bidder shall be bound to execute the work as mentioned above at bidder's final bid price. Should bidder back out and not execute the contract as per the rates quoted, BHEL shall take action as per extant guidelines for suspension of business dealings (as available on www.bhel.com).
18. Bidders shall be able to view the following on their screen along with the necessary fields during Reverse Auction:
 - a. Leading (Running Lowest) Bid in the Auction (only total price of package)
 - b. Bid Placed by the bidder
 - c. Start Price
 - d. Decrement value
 - e. Rank of their own bid during bidding as well as at the close of auction.
19. BHEL's decision on award of contract shall be final and binding on all the Bidders.
20. BHEL reserves the right to extend, reschedule or cancel the Reverse Auction process at any time, before ordering, without assigning any reason, with intimation to bidders.
21. BHEL shall not have any liability to bidders for any interruption or delay in access to the site irrespective of the cause. In such cases, the decision of BHEL shall be binding on the bidders.
22. Other terms and conditions shall be as per bidder's techno-commercial offers and other correspondences, if any, till date.
23. If there is any clash between this business document and the FAQ available, if any, in the website of M/s. {Service provider}, the terms & conditions given in this business document will supersede the information contained in the FAQs. Any changes made by BHEL/ service provider (due to unforeseen

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contingencies) after the first posting shall be deemed to have been accepted if the bidder continues to access the portal after that time.

24. Bidder shall not divulge either his Bids or any other exclusive details of BHEL to any other party. If the Bidder or any of his representatives are found to be involved in Price manipulation/ cartel formation of any kind, directly or indirectly by communicating with other bidders, action as per extant BHEL guidelines for suspension of business dealings (as available on www.bhel.com), shall be initiated by BHEL.

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