2021

BHARAT HEAVY ELECTRICALS LIMITED SOLAR BUSINESS DIVISION, BENGALURU TENDER DOCUMENT

Name: Navit Mahajan

Designation: Dy. Manager

BHEL SBD Bangalore



TENDER DOCUMENT (PART – A) Vol. I

NOTICE INVITING TENDER

- 1. BHEL/ SBD (A Govt. of India Enterprise) invites Tender for engaging a Contractor for "Type Test of Solar PV Modules.".
- 2. Sealed Bids are invited under single stage two part bid system from the competent agencies with sound technical and financial capabilities, fulfilling the qualifying requirements stated in the tender documents.
- 3. Interested and eligible parties may study the tender documents carefully visit the works to understand the scope and nature of work, discuss and clarify doubts if any and offer their bids.
- 4. The salient features of tender documents are as follows:

 The complete Tender documents consists of the following: Tender document- Part 'A' (Consists of Volume-I, Volume-II) and Part 'B'.
- 5. The tender documents are also available in the website of BHEL <u>www.bhel.com</u>. Those who wish to download the same may do so. Corrigendum if any will be published in BHEL web site only.
- 6. In case, tender documents are requested by post, BHEL-SBD shall not be responsible for any delay due to any reasons (including postal delay) either in receiving the agencies request or receipt of tender documents by the agency.
- 7. Reverse Auction is applicable for this work.

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

(i) Commercial:

Mr. Navit Mahajan, Dy. Manager / Works Engineering Contract, BHEL-SBD,

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

E-MAIL: <u>navit@bhel.in</u> Ph. No. +91-080-22182216

or

Mr. BM Hiremani, AGM / WEX & Works Contract Cell, BHEL-SBD, Prof CNR Rao Circle, IISc Post, Malleswaram, Bangalore- 560 012

E-MAIL: hiremani@bhel.in
Ph. No. +91-080-22182204

(ii) Technical:

Mr. G V Raghavendra Babu, Sr.Manager / SPV Engg BHEL-SBD, Prof CNR Rao Circle, IISc Post, Malleswaram, Bangalore- 560 012

E-MAIL: raghavendrababu.gv@bhel.in Ph. No. +91-080-22182347



TENDER DOCUMENT (PART – A) Vol. I

TENDER DOCUMENT

PART – A VOLUME - I

1.	GENERAL INFORMATION
2.	SCOPE OF WORK
3.	ELIGIBILITY CRITERIA
4.	PAYMENT TERMS
5.	ANNEXURES



General Information	
Tender Reference Number :	45277
Tender Name:	"Type Test of Solar PV Modules".
Tender System	Single Stage, Two Part Bid Part – A: Techno-Commercial & PQR Part – B: Price Bid
Tender Type	Frame Work Agreement/ Service contract
Estimated Value of Contract	Not Applicable
Duration of Contract	18 months
Qualifying Requirement	As per NIT Terms & Conditions
Earnest Money Deposit to accompany Tender	Not Applicable.
Security Deposit	Not Applicable.
Cost of Tender documents	NIL
Issue of tender documents	As per Enquiry / RFQ / Notification on www.bhel.com
Pre- BID Meeting	As per Enquiry / RFQ / Notification on www.bhel.com
Last date for Issue of tender documents	As per Enquiry / RFQ / Notification on www.bhel.com
Last date for submission of tender doc	As per Enquiry / RFQ / Notification on www.bhel.com
Date and time of opening of Tender (Part-A)	As per Enquiry / RFQ / Notification on www.bhel.com
Tender Submission Place	BHEL-SBD WEX TENDER BOX kept outside tender room(Bidder to ensure to put tender bids in specified place & box, BHEL-SBD will not be responsible if bids submitted in other than specified place and tender box
17. Tender Opening Place BHEL-SBD, Tender room, opposite to IISC, Prof. CNR Rao circ Malleswaram, Bengaluru-560012	
Dealing Officer (For any Clarifications)	Navit Mahajan, Dy. Manager – Works Contract Cell Contact No.: 080-2218-2216 Email: navit@bhel.in Hiremani B.M. Addl. General Manager – Works Contract Cell Contact No.: 080-2218-2204
SOODE OF WORK	Email: <u>hiremani@bhel.in</u>
·	
	t contractor (Proprietor) should be registered and having at least 1 years
existence in business of similar nature executed contracts like: Type testing Bidder to submit following documents. P.O copy. 2. Work completion Certificate. BHEL reserves the right for independent bidder should not have been banned.	are. The term "Similar works "means vendor should have successfully be of solar modules for various IEC / IS Standards. Into as proof of completion/execution of work: Indent verification of Documents. Industry the best of the best o
	Tender System Tender Type Estimated Value of Contract Duration of Contract Qualifying Requirement Earnest Money Deposit to accompany Tender Security Deposit Cost of Tender documents Issue of tender documents Pre- BID Meeting Last date for Issue of tender documents Last date for submission of tender doc Date and time of opening of Tender (Part-A) Tender Submission Place Tender Opening Place Dealing Officer (For any Clarifications) SCOPE OF WORK Details as per Annexure I ELIGIBILITY CRITERIA The Firm of contractor/independen existence in business of similar natu executed contracts like: Type testir Bidder to submit following document 1. P.O copy. 2. Work completion Certificate. BHEL reserves the right for indeper



		Sl.No	Pre-Qualification requirement	Laboratories Confirmation						
		1.	Testing laboratories shall be NABL accredited	Laboratory shall provide copy of						
			for IEC 61215-1, 61215-1-1, 61215-2: 2016 &	NABL accreditation letter for all the						
	3.2.		IEC 61730 part 1 & 2: 2016. (Test report for IS	tests & Lab shall be BIS Recognized						
			14286 (latest std.) , IS/IEC 61730-1 & 2							
		2.								
			(latest std.)							
		Avera	ge Annual Financial turnover during the last 3 years ending 31st Ma	rch 2020, should be at least Rs. 33.91						
		Lakh		,						
	2.2	l	ups registered with DIPP are exempt to fulfill the criteria of minim	num turnover and minimum years of						
	3.3.		ience.	,						
			ed Balance sheet and profit& Loss account OR Turn over Certificate	from Chartered Accounted to be						
			sed for the FY 2017-18, 2018-19 & 2019-20.							
			idder shall also mention the PAN Number issued by Income Tax Dep	partment, copy of the PAN card or PAN						
	3.4.		er allotment letter shall be submitted along with the tender docum							
			should be no litigation or charge under investigation / enquiry / tri							
	3.5.	1	ourt of law or suspension or blacklisting by any organization on any							
		any sı	uch information comes to light, the contract may be terminated.							
	2.6		pinion / decision of BHEL regarding the bid shall be final and conclu	sive. BHEL reserves the right to reject						
	3.6.	any o	r all the bids at any time without assigning any reason.							
		In cas	e the bidder has a relative employed in BHEL, the authority inviting	tender shall be informed of this fact in						
	3.7.	writing at the time of submission of tender, failing which the tender may be disqualified, or if such fact comes								
		to ligh	it subsequently, the contract may be terminated.							
	3.8.	If the bidder gives wrong information in his tender or creates conditions favorable for the acceptance of his								
	J.0.		r, BHEL reserves the right to reject such tender at any stage.							
			e works which are continuous in nature, and which require regular	=						
	3.9.		nave an Office/Establishment in Bengaluru. Absence of such an arra	ngement may lead to disqualification						
			Tenderer.							
4.		PAYMENT								
	4.1.		ent will be done within 60 days of receipt of test report and invoice							
	4.2.		e reimbursed to the testing laboratory after the contractor pays GS	T, files return and submits a proof of						
		the same								
			ervice contract, Income tax deduction at source (TDS) at the application of the source (TDS) at the sou							
	4.3.	at the time of clearance of bills) shall be recovered and remitted to Govt. of India. Income tax deduction certificate								
		shall be issued for the amount of Income Tax deducted. Income Tax TDS as applicable and GST TDS @ 2% will be								
_		done.	_							
5.	Г 1	Annexure								
	5.1.		cope of Work – Annexure I							
	5.2.		ommercial Bid Application – Annexure II							
	5.3.		ormation—Annexure III							
	5.4.		ion requirement– Annexure IV							
	5.5.		claration-I— Annexure V							
	5.6.	Bidder Declaration-II – Annexure VI								
	5.7.	PPP-MII Format- Annexure VII								
_	5.8.		r Unpriced Bid– Annexure VIII							
-	5.9.		deviations – Annexure IX							
_	5.10.		nical deviations– Annexure X							
1	5.11.	Border sh	aring							



TENDER DOCUMENT (PART – A) Vol. I

ANNEXURE – I SCOPE OF WORK

Test are to be conducted as per IEC & IS mentioned in Table-1 & 2 for which detailed BOM's are given in Table-3.

	Table-1	
IEC Std. no.	IEC Test Description	Qty.
IEC 61215-1, 61215-1-1, 61215-2: 2016 & IEC 61730 part 1 & 2: 2016. (Test report for IS 14286 (latest std.), IS/IEC 61730-1 & 2 (latest std.) & Fire test shall also be provided along with IEC test reports for all the 5 Sets.) CB Certificate shall also be provided	Terrestrial photovoltaic (PV) modules – Design qualification and type approval & Photovoltaic (PV) module safety qualification along with Fire test	5 Cumulative value for BOM as per Table-2
IS 14286 (latest std.) , IS/IEC 61730-1 & 2 (latest std.)	Terrestrial photovoltaic (PV) modules – Design qualification and type approval & Photovoltaic (PV) module safety qualification along with Fire test	1

Remarks:

- 1. Vendor to provide testing charges for all the above tests and Sets in Table-2
- 2. Lab to provide year & edition of the each IEC & IS standards mentioned above for all the individual test, for our information.
- 3. Lab to provide total time duration for performing tests including final test reports from the date of samples received at their lab.
- 4. Lab shall provide accredited certificate issued from NABL / ILAC / IECEE / CNAS or international reputed equivalent member signatory for all the above tests.
- 5. Lab shall be BIS Recognized Laboratory for test mentioned above.
- 6. The quantity of BOM and number of test individually may vary up to 30% of total contract value.
- 7. The contract will be valid for one and half year on the firm price.
- 8. PV modules for type testing will be handed over to vendor's laboratory.



TENDER DOCUMENT (PART – A) Vol. I

			Tal	ole-2				
SI. No.	IEC Std. no.	IEC Test Description	Sec. BOM (Set-1)	Sec. BOM (Set-2)	Sec. BOM (Set-3)	Sec. BOM (Set-4)	Sec. BOM (Set-5)	Sec. BOM (Set-6)
1	IEC 61215-1, 61215-1-1, 61215-2: 2016 & IEC 61730 part 1 & 2: 2016. (Test report for IS 14286 (latest std.), IS/IEC 61730-1 & 2 (latest std.) & Fire test shall also be provided along with IEC test reports for all the 5 Sets.) CB Certificate shall also be provided	Terrestrial photovoltaic (PV) modules – Design qualification and type approval & Photovoltaic (PV) module safety qualification along with Fire test	Not required					
2	IS 14286 (latest std.), IS/IEC 61730- 1 & 2 (latest std.)	Terrestrial photovoltaic (PV) modules – Design qualification and type approval & Photovoltaic (PV) module safety qualification along with Fire test		Not required	Not required	Not required	Not required	Not required

Remarks:

- 1. Vendor to provide testing charges for all the above tests and Sets except the place where "not required" mentioned.
- 2. BOM details are provided in Table-3



Table-3

SL No.	ВОМ	Cell	Cell Intercon- nects	Bus bars	Junction Box	EVA	Back sheet	Al Frame	Glass	Adhesive	Potting material for JB	Remark
	Tested BOM-1	Make-1 Multi	Make-1	Make- 1	Make-1	Make- 1	Make- 1	Make- 1	Make- 1	Make-1	Make-1	CB & IEC certification for 2016 version & IS 14286, IS/IEC 61730-1& 2, with 1000V system, CB & IEC's report will be provided by BHEL at later stage, This test & BOM is not part of this tender.
1	Secondary BOM (Set- 1)	Make-1 Multi	Make-2	Make- 2	Make-2	Make- 2	Make- 2	Make- 2	Make- 2	Make-1	Make-1	Change in Cell interconnect, Bus bars, Junction Box, EVA, Backsheet, AL. Frame & Glass compared to Tested BOM-1, 1000V System
	Tested BOM-2	Make-1 Multi	Make-1	Make- 1	Make-1	Make- 1	Make- 1	Make- 1	Make- 1	Make-1	Make-1	CB & IEC certification for 2016 version & IS 14286, IS/IEC 61730- 1& 2, with 1500V system, CB & IEC's report will be provided by BHEL at later stage, This test & BOM is not part of this tender.
2	Secondary BOM (Set- 2)	Make-2 MonoPERC	Make-1	Make- 1	Make-1	Make- 1	Make- 1	Make- 1	Make- 1	Make-1	Make-1	Change in Cell compared to Tested BOM-2, 1500V System
3	Secondary BOM (Set- 3)	Make-3 Multi	Make-1	Make- 1	Make-3	Make- 3	Make- 3	Make- 3	Make- 1	Make-1	Make-3	Change in Cell, Junction Box, EVA, Backsheet, AL. Frame & Potting material for JB, Cell size increases & PV Module size increase not more than 20 % compared to Tested BOM-2, 1500V System



4	Secondary BOM (Set- 4)	Make-4 MonoPERC	Make-1	Make- 1	Make-3	Make- 3	Make- 3	Make- 3	Make- 1	Make-1	Make-3	Change in Cell compared to Secondary (Set-3), Cell size & PV Module size same as Secondary (Set-3), 1500V System
5	Secondary BOM (Set- 5)	Make-5 Multi	Make-3	Make- 3	Make-1	Make- 4	Make- 4	Make- 4	Make- 1	Make-1	Make-4	Change in Cell, Cell Interconnect, Bus bar, Junction Box, EVA, Backsheet, AL. Frame & Potting material for JB, Cell size may increases & PV Module size may increase not more than than 20 % compared to Tested BOM-2, 1500V System.
6	Secondary BOM (Set- 6)	Make-6 Multi	Make-4	Make- 4	Make-6	Make- 5	Make- 5	Make- 5	Make- 3	Make-1	Make-5	Change in Cell, Cell Interconnect, Bus bar, Junction Box, EVA, Backsheet, AL. Frame, Glass & Potting material for JB, Cell size may increases & PV Module size may increase not more than than 20 % compared to Tested BOM-2, 1500V System.



TENDER DOCUMENT (PART – A) Vol. I

ANNEXURE - II TECHNO-COMMERCIAL BID APPLICATION

To,

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

Dear Sir,

I / We hereby offer to carry out the work "Type Test of Solar PV Modules" at BHEL-SBD, Bangalore.

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. Notice Inviting Tender Part A Volume 2
- 3. 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:



TENDER DOCUMENT (PART – A) Vol. I

ANNEXURE – III: BIDDER INFORMATION

S. No.	DETAILS REQUIRED	Requirement fulfilled (Yes / No / NA/ Value)
	Name of the Company	(10)
1		
1	Name of Authorized Signatory	
_		
2		
	Name of Contact person for this tender	
3		
	Email-id of contact person	
4		
	Contact number	
5		
3	Bank Account Details (Name of Bank, Branch	
	and Account Number).	
	Cancelled Cheque to be enclosed	
6		
	Details of Relatives employed in BHEL, Name Designation and Unit - Clause 3.8	
	Designation and Offit - Clause 3.8	
7		
	Polarius 4	
	Relative 1	
	Relative 2	
	Relative 3	
I	NCIGUIVE J	



TENDER DOCUMENT (PART – A) Vol. I

ANNEXURE – IV: QUALIFICATION REQUIREMENTS

DETAILS REQUIRED	Requirement fulfilled (Yes / No / NA/ Value)	Whether proof / document enclosed (YES / NO)
Bidder's firm should be registered and should have at least three years' existence in business consecutively for the past three financial years. (CI 3.1)		
PF Registration No. Clause 3.2	NA	NA
Average turnover of last 3 years - Clause 3.3		
Relevant Work Experience as per Clause 3.4 – 1		
Relevant Work Experience – 2		
Relevant Work Experience – 3		
PAN No Clause 3.5		
GST Registration Number		
MSME / NSIC Certificate to be enclosed (if applicable)		
EMD Details (DD No., Amount, Date & Bank)	NA	NA
	Bidder's firm should be registered and should have at least three years' existence in business consecutively for the past three financial years. (Cl 3.1) PF Registration No. Clause 3.2 Average turnover of last 3 years - Clause 3.3 Relevant Work Experience as per Clause 3.4 - 1 Relevant Work Experience - 2 Relevant Work Experience - 3 PAN No Clause 3.5 GST Registration Number MSME / NSIC Certificate to be enclosed (if applicable)	Bidder's firm should be registered and should have at least three years' existence in business consecutively for the past three financial years. (CI 3.1) PF Registration No. Clause 3.2 Average turnover of last 3 years - Clause 3.3 Relevant Work Experience as per Clause 3.4 - 1 Relevant Work Experience - 2 Relevant Work Experience - 3 PAN No Clause 3.5 GST Registration Number MSME / NSIC Certificate to be enclosed (if applicable)



TENDER DOCUMENT (PART – A) Vol. I

ANNEXURE - V: BIDDER DECLARATION - I

S. No.	Parameter	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	
4	I agree to participate in the Auction as per Tender Terms and Conditions	
5	I have understood and accepted the payment terms of BHEL as per Cl.4	
6	I am responsible for the safety of workmen deployed and agree to fulfil the requirements as per tender terms	
7	I have understood the LD clause mentioned in this tender and submit my agreement for the same	
8	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.	
9	I have carefully read the Tender Terms and Conditions and I submit my agreement for the same.	
10	Signed and submitted the technical deviations sheet	
11	Signed and submitted the non-technical deviations sheet	



TENDER DOCUMENT (PART – A) Vol. I

ANNEXURE - VI BIDDER DECLARATION - II

I,	, agedYrs., S/o,	
Residin	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 agreement.	an
(iii)	I shall employ only such personnel who have not been found unfit for employment in Organizations such Central / state / Public undertaking by the Police Authorities.	ı as
(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 E contracts.	3HEL
(vi)	That there are no Criminal cases/Civil/Labor pending or under investigation against me or my firm or cor	
(vii)	I have not been found guilty of offences involving moral turpitude nor any of the company directors / pa of my firm have been found guilty of offences involving moral turpitude.	ırtners
(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 a mental health.	and
(xi)	I shall keep Photograph / identity proof / residential proof of the laborers to be employed against this te and arrange for police verification.	nder
(xii)	I shall employ and deploy suitable qualified personnel for supervision of the work in each shift and addit as required for monitoring compliance to process requirements and compliance to contract terms & con	-
	[Signature with Name & seal of the Tenderer]	
	[5,8, active manname a sear of the remarker]	
Date		
Place		



TENDER DOCUMENT (PART – A) Vol. I

ANNEXURE VII, 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
etter head of the issuer.]
tem Name Type Test of Solar PV Modules
Enquiry No. : 45277
Project : Type Test of Solar PV Modules
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 ndia.
n line with the provisions of the PPP-MII Order, We, M/s
regarding Local Content in Goods/Services/Works to be supplied by the Local Supplier Type Test of Solar PV Modules
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.



TENDER DOCUMENT (PART – A) Vol. I

Annexure VIII – Unpriced Bid, SAC / HSN Codes

			Un-F	Priced Bid						
SI.	IEC Std. no.	IEC Test			SAC/HS	SN Code				Remark
No.		Description	Sec. BOM (Set-1)	Sec. BOM (Set-2)	Sec. BOM (Set-3)	Sec. BOM (Set-4)	Sec. BOM (Set-5)	Sec. BOM (Set-6)	Sub Total	
1.00	IEC 61215-1, 61215-1-1, 61215-2: 2016 & IEC 61730 part 1 & 2: 2016. (Test report for IS 14286 (latest std.), IS/IEC 61730- 1 & 2 (latest std.) & Fire test shall also be provided along with IEC test reports for all the 12 Sets.) CB Certificate shall also be provided	Terrestrial photovoltaic (PV) modules – Design qualification and type approval & Photovoltaic (PV) module safety qualification along with Fire test	Not required							For 5 Set
2.00	IS 14286 (latest std.) , IS/IEC 61730- 1 & 2 (latest std.)	Terrestrial photovoltaic (PV) modules – Design qualification and type approval & Photovoltaic (PV) module safety qualification along with Fire test		Not required	Not required	Not required	Not required	Not required		For 1 Set

Note: Bidder to indicate SAC / HSN Code (SEAL & SIGN OF BIDDER)



SL	вом	Cell	Cell	Bus	Junction	EVA	Back	Al	Glass	Adhesive	Potting	Remark
No.			Intercon- nects	bars	Вох		sheet	Frame			material for JB	
	Tested BOM-1	Make-1 Multi	Make-1	Make- 1	Make-1	Make- 1	Make- 1	Make- 1	Make- 1	Make-1	Make-1	CB & IEC certification for 2016 version & IS 14286, IS/IEC 61730-1& 2, with 1000V system, CB & IEC's report will be provided by BHEL at later stage, This test & BOM is not part of this tender.
1	Secondary BOM (Set- 1)	Make-1 Multi	Make-2	Make- 2	Make-2	Make- 2	Make- 2	Make- 2	Make- 2	Make-1	Make-1	Change in Cell interconnect, Bus bars, Junction Box, EVA, Backsheet, AL. Frame & Glass compared to Tested BOM-1, 1000V System
	Tested BOM-2	Make-1 Multi	Make-1	Make- 1	Make-1	Make- 1	Make- 1	Make- 1	Make- 1	Make-1	Make-1	CB & IEC certification for 2016 version & IS 14286, IS/IEC 61730-1& 2, with 1500V system, CB & IEC's report will be provided by BHEL at later stage, This test & BOM is not part of this tender.
2	Secondary BOM (Set- 2)	Make-2 MonoPERC	Make-1	Make- 1	Make-1	Make- 1	Make- 1	Make- 1	Make- 1	Make-1	Make-1	Change in Cell compared to Tested BOM-2, 1500V System
3	Secondary BOM (Set- 3)	Make-3 Multi	Make-1	Make- 1	Make-3	Make- 3	Make- 3	Make- 3	Make- 1	Make-1	Make-3	Change in Cell, Junction Box, EVA, Backsheet, AL. Frame & Potting material for JB, Cell size increases & PV Module size increase not more than 20 % compared to Tested BOM-2, 1500V System



4	Secondary BOM (Set- 4)	Make-4 MonoPERC	Make-1	Make- 1	Make-3	Make- 3	Make- 3	Make- 3	Make- 1	Make-1	Make-3	Change in Cell compared to Secondary (Set-3), Cell size & PV Module size same as Secondary (Set-3), 1500V System
5	Secondary BOM (Set- 5)	Make-5 Multi	Make-3	Make- 3	Make-1	Make- 4	Make- 4	Make- 4	Make- 1	Make-1	Make-4	Change in Cell, Cell Interconnect, Bus bar, Junction Box, EVA, Backsheet, AL. Frame & Potting material for JB, Cell size may increases & PV Module size may increase not more than than 20 % compared to Tested BOM-2, 1500V System.
6	Secondary BOM (Set- 6)	Make-6 Multi	Make-4	Make- 4	Make-6	Make- 5	Make- 5	Make- 5	Make- 3	Make-1	Make-5	Change in Cell, Cell Interconnect, Bus bar, Junction Box, EVA, Backsheet, AL. Frame, Glass & Potting material for JB, Cell size may increases & PV Module size may increase not more than than 20 % compared to Tested BOM-2, 1500V System.



TENDER DOCUMENT (PART – A) Vol. I

ANNEXURE IX, NON-TECHNICAL DEVIATION

SI No.	Volume	Part/Clause SI 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 formats 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.



TENDER DOCUMENT (PART – A) Vol. I

ANNEXURE X, TECHNICAL DEVIATION

SI No.	Volume	CLAUSE NO.	NIT requirement	Bidder's Deviation
	Total No. o	of deviations _l	proposed by the Bidder	NOS.
	Place:		Date:	
				Signature & Seal of the bidder:

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 formats 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.

(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 :	
Enquiry No.:	
Project :	
	(name of the bidder company) have read the clauses pertaining to Department of Public Procurement Division Order (Public procurement no 1,2 & 3 vide ref. F.No.6/18/2019-PPD dated 020) regarding restrictions on procurement from a bidder of a country which shares a land border with India.
We hereby certify th	at we are not from such a country and eligible to be considered for this tender.
(Note: Non-compliar rejection of their bids	nce of above said Gol Order and its subsequent amendment, (if any), by any bidder(s) shall lead for commercial s by BHEL)
For and behalf of	(Name of the bidder)
(Signature, date & s	eal of authorized representative of the bidder)
	Annexure-D (ii) (Compliance to be submitted in the bidder's letter head) (as applicable) Government of India order OM No.6/18/2019-PPD dated 23.07.2020 & 24.7.2020 regarding restrictions of the General Financial Rules (GFRs), 2017
Item Name :	
Enquiry No. :	
Project :	
Expenditure's (DoE 23.07.2020 & 24.7.2 We are from such a in above said order.	Public Procurement Division Order (Public procurement no 1,2 & 3 vide ref. F.No.6/18/2019-PPD dated 020) regarding restrictions on procurement from a bidder of a country which shares a land border with India.
Expenditure's (DoE 23.07.2020 & 24.7.2 We are from such a in above said order. Evidence of valid r	Public Procurement Division Order (Public procurement no 1,2 & 3 vide ref. F.No.6/18/2019-PPD dated 020) regarding restrictions on procurement from a bidder of a country which shares a land border with India. country which shares a land border with India & have been registered with the Competent Authority as specified We hereby certify that we fulfil all requirements in this regard and are eligible to be considered. egistration by the Competent Authority is attached. ace of above said Gol Order and its subsequent amendment, (if any), by any bidder(s) shall lead for commercial
Expenditure's (DoE 23.07.2020 & 24.7.2 We are from such a in above said order. Evidence of valid r (Note: Non-compliar rejection of their bids	country which shares a land border with India & have been registered with the Competent Authority as specified We hereby certify that we fulfil all requirements in this regard and are eligible to be considered. egistration by the Competent Authority is attached. ace of above said Gol Order and its subsequent amendment, (if any), by any bidder(s) shall lead for commercial