

**BHEL-SBD** 

## BHARAT HEAVY ELECTRICALS LIMITED SOLAR BUSINESS DIVISION BANGALORE -560012 QUALITY (SPV)

QP NO.: EPD/QP/SPV/2020-21/0020 REV. NO.: 00 DATE: 22.03.2021

## STANDARD QUALITY ASSURANCE PLAN

For the items listed below, the Supplier shall raise the inspection call along with Internal Test Report, Manufacture Test Certificates/Type Test Reports (wherever applicable) for BHEL/BHEL TPIA /Customer Inspection.

SI no	Item/BHEL SPEC.
01	ITEM : MONO CRYSTALLINE PERC SILICON SOLAR CELL 5 BUS BAR
	BHEL SPECIFICATION: PS-901-05-0022 REV.00

Note:

- 1. The SQAP shall be read in conjunction with BHEL Specification mentioned in Purchase Order and shall deem to include any additional tests as per the specification/Standard.
- 2. Material supplied shall be in line with BHEL Purchase Order, Technical Specification, Data Sheet, BOM, Approved Drawings, applicable Standard References, or any other document/references.
- 3. In case of any contradiction between this SQAP, BHEL Specifications the following precedence shall be followed:
  - 1<sup>st</sup>: BHEL Purchase Order Specification;
  - 2<sup>nd</sup>: This STANDARD QUALITY ASSURANCE PLAN & Applicable standard;
  - 3<sup>rd</sup>: Manufacturers plant standards
- 4. Packing shall be as per BHEL purchase order packing specification/ or as per Manufacturer standard or approved Drgs from BHEL Engineering.
- 5. All **packing** cases should be **marked** with BHEL Purchase Order no, Item description and **CQIR NO** (by which material has been cleared for dispatch).
- 6. BHEL reserves the right for pre-dispatch inspection at vendor works by BHEL or BHEL nominated agency.
- 7. BHEL at its discretion may waive the pre-dispatch inspection at vendors work based on review of submitted vendor inspection reports. However, the vendor responsibility is not absolved till the material is finally inspected and accepted at BHEL. In case of any rejection at BHEL, vendor is liable to replace with good quality materials at vendor cost confirming with this purchase specification.
- 8. Vendor to submit Manufacturing Quality Plan MQP in BHEL prescribed format in BHEL prescribed format for review & approval on receipt of purchase order.

## **Documentation Part:**

- 1. Supplier shall raise the inspection call in the CQIR with inspection agency as BHEL SBD. URL: <u>www.cqir.bhel.in.</u> and shall upload documents <u>mention under Note 2 in CQIR Portal.</u>
- 2. Supplier to furnish Test Certificates, Internal Tests Report and Type Test Reports (wherever applicable) as per this SQAP along with inspection call.
- 3. The items will be inspected at BHEL approved manufacturer work.

	प्य ई एल PROF.C	T HEAVY ELECTRICAI BUSINESS DIVISION .N.R RAO CIRCLE, IIS LURU-560012			BUS BAR     BAR       BHEL SPECIFICATION: PS-901-05-0022 REV.00     PAGE 1 OF 5						PV/20	20-21/0020	
SL. NO	COMPONENT & OPERATIONS	CHARACTERISTIC S	CLASS	TYPE OF CHECK		UANTUM DF CHECK	REFERENCE DOCUMENT	ACCEPTANCE NORMS	FORMAT O	F	AG	ENCY	REMARKS
					м	В					м	В	
1.	2.	3.	4.	5.		6.	7.	8.	9.	D *	**	10.	11.
1.0	IN-PROCESS INSPEC	TION											
A	DIMENSIONS	Length	Critical	Dimensional	Hourly	-	BHEL Spec.	156.75± 0.5 mm	Inspection Report	٧	Р	v	
В		Width	Critical	Dimensional	Hourly	-	BHEL Spec.	156.75± 0.5 mm	Inspection Report	٧	Р	v	
С		Thickness (Microns)	Critical	Dimensional	Hourly	-	BHEL Spec.	220 ± 20	Inspection Report	٧	Р	v	
D		Diagonal Difference	Critical	Dimensional	Hourly	-	BHEL Spec.	≤ 0.5 mm	Inspection Report	٧	Р	v	
E		Cell bow (mm)	Major	Dimensional	Hourly	-	BHEL Spec.	< 0.2	Inspection Report	٧	Р	v	
F	VISUAL CHECK	No. of Bus bars	Major	Visual	100% Online	-	BHEL Spec.	Five	Inspection Report	٧	Р	v	
G		Shape	Major	Visual	100% Online	-	BHEL Spec.	Square	Inspection Report	٧	Р	v	
н		Anti-Reflection coating	Major	Visual	100% Online	-	BHEL Spec.	PECVD - Silicon Nitride (Blue Color)	Inspection Report	٧	Р	v	
I		Visual defects	Major	Visual	100% Online	-	BHEL Spec.	As per BHEL Spec.	Inspection Report	٧	Р	v	
J		Metallization	Major	Visual	100% Online	-	BHEL Spec.	Front-Silver oxide Back-Passivated emitter	Inspection Report	V	Ρ	v	
2.0	FINISHED PRODUC	INSPECTION		•		1	1					1	1
A	ROUTINE TESTS	Cell Power Wattage (Wp)	Critical	Electrical	100%	AQL*	BHEL Spec.	As per Section 2.0 of BHEL Spec.	Inspection Report	٧	Р	w	

LEGEND: *D: RECORDS, INDENTIFIED WITH "TICK" ( $ m J$ ) Shall be essentially included by vendor in QA	FOR BHEL USE		
DOCUMENTATION.	DOC. NO.:	REV	САТ
** M: MANUFACTURER/SUB-VENDOR, B: BHEL/BHEL NOMINATED INSPECTION AGENCY	Se. 01100011000	20	
P: PERFORM W: WITNESS AND V: VERIFICATION. AS APPROPRIATE	- and you	5g	
CHP: CUSTOMER HOLD POINT BY BHEL/BHEL NOMINATED INSPECTION AGENCY SHALL IDENTIFED IN COLUMN			
"B" AS 'W'	REVIEWED BY: MM	APPROVED BY: MK	QUALITY
AQL*: SINGLE SAMPLING PLAN AS PER ISO: 2859-1 / IS: 10673-1983, GENERAL INSPECTION LEVEL - 2, AQL 0.65			ASSURANCE

H	BHARAT HEAVY ELECTRICALS LIMITED SOLAR BUSINESS DIVISION PROF.C.N.R RAO CIRCLE, IISC POST MALLESHWARAM, BENGALURU-560012					STANDARD QUALITY ASSURANCE PLAN ITEM : MONO CRYSTALLINE PERC SILICON SOLAR CELL 5 BUS BAR BHEL SPECIFICATION: PS-901-05-0022 REV.00									
SL. NO	COMPONENT & OPERATIONS	CHARACTERISTIC S	CLASS	TYPE OF CHECK		UANTUM DF CHECK	REFERENCE DOCUMENT	ACCEPTANCE NORMS	FORMAT O RECORD	F	AG	ENCY	REMARKS		
					М	В					м	В			
1.	2.	3.	4.	5.		6.	7.	8.	9.	D *	**	10.	11.		
В		Typical I-V Characteristics	Critical	Electrical	100%	AQL*	BHEL Spec.	As per Section 2.0 of BHEL Spec.	Inspection Report	٧	Р	w			
C		Soldering Peel strength	Critical	Mechanical	Hourly	Single Sampling Plan as per ISO: 2859-1 / IS: 10673-1983, Special Inspection Level - I, AQL 1.5	BHEL Spec.	≥1.0 N/mm Front (Across each bus bar) ≥1.5 N/mm Back (Across each bus bar)	Inspection Report	V	Р	w			
D	DIMENSIONS	Length	Critical	Dimensional	Hourly	AQL*	BHEL Spec.	156.75± 0.5 mm	Inspection Report	v	Р	w			
E		Width	Critical	Dimensional	Hourly	AQL*	BHEL Spec.	156.75± 0.5 mm	Inspection Report	v	Р	w			
F		Thickness (Microns)	Critical	Dimensional	Hourly	AQL*	BHEL Spec.	220 ± 20	Inspection Report	٧	Р	w			
G		Diagonal Difference	Critical	Dimensional	Hourly	AQL*	BHEL Spec.	≤ 0.5 mm	Inspection Report	٧	Р	w			
н		Cell bow (mm)	Major	Dimensional	Hourly	AQL*	BHEL Spec.	< 0.2	Inspection Report	v	Р	w			
I	VISUAL CHECK	No. of Bus bars	Major	Visual	100% Online	AQL*	BHEL Spec.	Five	Inspection Report	٧	Р	w	Certificate Of Compliance		
1	]	Cell Material & Cell Type	Major	Functional	100% Online	AQL*	BHEL Spec.	Mono Crystalline Silicon & Mono PERC	Inspection Report	٧	Р	v	(COC) for each point to		
к		Shape	Major	Visual	100% Online	AQL*	BHEL Spec.	Square	Inspection Report	٧	Р	w	be given		

LEGEND: *D: RECORDS, INDENTIFIED WITH "TICK" ( $$ ) SHALL BE ESSENTIALLY INCLUDED BY VENDOR IN QA	FOR BHEL USE			
DOCUMENTATION.	DOC. NO.:	REV	САТ	
** M: MANUFACTURER/SUB-VENDOR, B: BHEL/BHEL NOMINATED INSPECTION AGENCY	Se. ascool (200	20		
P: PERFORM W: WITNESS AND V: VERIFICATION. AS APPROPRIATE	- antegan	ag		
CHP: CUSTOMER HOLD POINT BY BHEL/BHEL NOMINATED INSPECTION AGENCY SHALL IDENTIFED IN COLUMN	-			
"B" AS 'W'	REVIEWED BY: MM	APPROVED BY: MK	C	QUALITY
AQL*: SINGLE SAMPLING PLAN AS PER ISO: 2859-1 / IS: 10673-1983, GENERAL INSPECTION LEVEL - 2, AQL 0.65			A	ASSURANCE

AQL\*: SINGLE SAMPLING PLAN AS PER ISO: 2859-1 / IS: 10673-1983, GENERAL INSPECTION LEVEL - 2, AQL 0.65

B	EL-SBD COMPO OPERA	SOLAR BU PROF.C.N BENGALU NENT &	HEAVY ELECTRICAL JSINESS DIVISION I.R RAO CIRCLE, IISo JRU-560012 CHARACTERISTIC S	-		ITEM : N BUS BAI BHEL SP QU O	STANDARD QUALITY ASSURANCE PLAN         ITEM : MONO CRYSTALLINE PERC SILICON SOLAR CELL 5         BUS BAR       BHEL SPECIFICATION: PS-901-05-0022 REV.00         QUANTUM       REFERENCE       ACCEPTANCE         OF CHECK       NORMS       NORMS			QP NO.: EP REV. NO.: C DATE: 22.0 PAGE 3 OF FORMAT OF RECORD	)0 3.2( 5	021 AG	ENCY	20-21/0020 REMARKS
1.	2		3.	4.	5.	м	В 6.	7.	8.	9.	D	M **	B 10.	11.
L			Anti-Reflection coating	Critical	Functional	100% Online	AQL*	BHEL Spec.	PECVD - Silicon Nitride (Blue Color)	Inspection Report	* V	Р	v	
M			Visual defects	Critical	Visual	100% Online	AQL*	BHEL Spec.	The cells shall be of 'A' category without any Visual defects. No edge chips or any visible crack or deep scratches. No printing defects, No misalignment (of bus-bars) on the either surface. Cells must have precise printing & superior silver contacts for ease of automatic soldering. No print shift, finger knots other printing defects of more than 0.5 mm on width and 3.0 mm on length. No bus bar or grid line interruptions, finger breaks, stains or paste smudges on either surface etc.	Inspection Report	V		W	
Ν			Metallization	Major	Visual	100% Online	-	BHEL Spec.	Front-Silver oxide Back-Passivated emitter	Inspection Report	۷	Ρ	v	
						-			-					

<b>LEGEND: *D:</b> RECORDS, INDENTIFIED WITH "TICK" ( $$ ) SHALL BE ESSENTIALLY INCLUDED BY VENDOR IN QA	FOR BHEL USE			
DOCUMENTATION.	DOC. NO.:	REV	САТ	
** M: MANUFACTURER/SUB-VENDOR, B: BHEL/BHEL NOMINATED INSPECTION AGENCY	Se. 011000000000	20		
P: PERFORM W: WITNESS AND V: VERIFICATION. AS APPROPRIATE	- allyan	they		

CHP: CUSTOMER HOLD POINT BY BHEL/BHEL NOMINATED INSPECTION AGENCY SHALL IDENTIFED IN COLUMN

AQL\*: SINGLE SAMPLING PLAN AS PER ISO: 2859-1 / IS: 10673-1983, GENERAL INSPECTION LEVEL - 2, AQL 0.65

"B" AS 'W'

-**REVIEWED BY: MM** APPROVED BY: MK QUALITY ASSURANCE

B	SOLAR B PROF.C.I	BHARAT HEAVY ELECTRICALS LIMITED         SOLAR BUSINESS DIVISION         PROF.C.N.R RAO CIRCLE, IISC POST MALLESHWARAM,         BENGALURU-560012    STANDARD QUALITY ASSURANCE PLAI ITEM : MONO CRYSTALLINE PERC SILICON SOLAR CELL 5 BUS BAR BHEL SPECIFICATION: PS-901-05-0022 REV.00					MONO CRYSTALLINE PERC SILICON SOLAR CELL 5 AR			00	QP/S 021	PV/20	20-21/0020
SL. NO	COMPONENT & OPERATIONS	CHARACTERISTIC S	CLASS	TYPE OF CHECK		QUANTUM DF CHECK	REFERENCE DOCUMENT	ACCEPTANCE NORMS	FORMAT O RECORD	F	AG	ENCY	REMARKS
					м	В					м	В	
1.	2.	3.	4.	5.		6.	7.	8.	9.	D *	**	10.	11.
0	SPECIAL TESTS	PID Resistance	Critical	Functional	AQL*	AQL*	BHEL Spec.	Cell shall be 100% PID Resistant.	Inspection Report	v	Р	v	Certificate Of Compliance (COC)
Р		Electroluminesce nce Test	Critical	Functional	AQL*	AQL*	BHEL Spec.	Cell shall not have Micro Crack, Dark Area, Dark Spot & Dead cell	Inspection Report	٧	Р	w	
3.0	PACKING					1			•				
A	PACKING	Packing	Major	Visual	100%	AQL*	BHEL Spec.	Cell shall be vacuum / air tight packed with heat shrinkable sleeve or polythene / polypropylene sachets of not more than 125 cells per sachet.	COC	V	Ρ	w	Certificate Of Compliance (COC) for each point to be given
В		Packing	Major	Visual	100%	AQL*	BHEL Spec.	Sachets shall be packed in foam / thermocol boxes with soft pads on both ends or in polyethylene foam packing to absorb transit handling shocks.	сос	V	Ρ	w	
С		Packing	Major	Visual	100%	AQL*	BHEL Spec.	Packing of sachets shall be in carton boxes with soft spacers & bubble wrap. Final packing shall be with suitable pallet for mechanized handling.	сос	V	Ρ	w	

<b>LEGEND:</b> *D: RECORDS, INDENTIFIED WITH "TICK" ( $$ ) SHALL BE ESSENTIALLY INCLUDED BY VENDOR IN QA	FOR BHEL USE		
DOCUMENTATION.	DOC. NO.:	REV	САТ
** M: MANUFACTURER/SUB-VENDOR, B: BHEL/BHEL NOMINATED INSPECTION AGENCY	Se. ascool0000	20	
P: PERFORM W: WITNESS AND V: VERIFICATION. AS APPROPRIATE	- concerpton	they	
CHP: CUSTOMER HOLD POINT BY BHEL/BHEL NOMINATED INSPECTION AGENCY SHALL IDENTIFED IN COLUMN			
"B" AS 'W'	REVIEWED BY: MM	APPROVED BY: MK	QUALITY
AQL*: SINGLE SAMPLING PLAN AS PER ISO: 2859-1 / IS: 10673-1983, GENERAL INSPECTION LEVEL - 2, AQL 0.65			ASSURANCE

B		SOLAR BU PROF.C.N BENGALU NENT &	HEAVY ELECTRICAL JSINESS DIVISION I.R RAO CIRCLE, IISo JRU-560012 CHARACTERISTIC	-		ITEM : I BUS BA BHEL SF	MONO CRYSTA	LLINE PERC S	SURANCE PLAN SILICON SOLAR CELL 5 022 REV.00 ACCEPTANCE NORMS	QP NO.: EP REV. NO.: ( DATE: 22.0 PAGE 5 OF FORMAT OF RECORD	00 3.20 5	021	PV/20	20-21/0020 REMARKS
NO	OPERA	TIONS	S		СНЕСК	м	В					м	В	
1.	2		3.	4.	5.		6.	7.	8.	9.	D *	**	10.	11.
D			Packing	Major	Visual	100%	AQL*	BHEL Spec.	The final packing shall be with suitable pallet for mechanized handling. Manufacturer name, Cell type, Lot number, Wattage/ efficiency, Quantity, date of manufacture to be identified on each sachet. Total quantity of cells in each carton to be displayed. Each pallets shall have marking of BHEL PO No. and item description etc. for traceability.	COC	V	Ρ	W	

<b>LEGEND:</b> *D: RECORDS, INDENTIFIED WITH "TICK" ( $$ ) SHALL BE ESSENTIALLY INCLUDED BY VENDOR IN QA	FOR BHEL USE		
DOCUMENTATION.	DOC. NO.:	REV	САТ
** M: MANUFACTURER/SUB-VENDOR, B: BHEL/BHEL NOMINATED INSPECTION AGENCY	Se. 0100010000	20	
P: PERFORM W: WITNESS AND V: VERIFICATION. AS APPROPRIATE	- only an	ag	
CHP: CUSTOMER HOLD POINT BY BHEL/BHEL NOMINATED INSPECTION AGENCY SHALL IDENTIFED IN COLUMN			
"B" AS 'W'	REVIEWED BY: MM	APPROVED BY: MK	QUALITY
AQL*: SINGLE SAMPLING PLAN AS PER ISO: 2859-1 / IS: 10673-1983, GENERAL INSPECTION LEVEL - 2, AQL 0.65			ASSURANCE



These Conditions shall be read in conjunction with General Condition of Contract (GCC Rev R0) enclosed along with the tender enquiry. In case of any conflict or inconsistency, the requirement of SCC shall prevail over the GCC.

The name of our Plant/ Unit may please be read as SOLAR BUSINESS DIVISION (SBD) as it was changed from ELECTRIC & PHOTOVOLTAIC DIVISION (EPD)

1.	Type of Contract	Supply
2.	Item Details	Mono Perc Cell 157mm 5.38Wp & Multi Cell 157mm 4.67Wp
3.	Consignee address	STORES INCHARGE BHARAT HEAVY ELECTRICALS LIMITED SOLAR BUSINESS DIVISION (SBD) FORMERLY KNOWN AS ELECTRIC & PHOTOVOLTAIC DIVISION (EPD) PROF. CNR RAO CIRCLE, SCIENCE INSTITUTE POST, MALLESWARAM, BANGALORE-560012. Consignee address in LR should be strictly as per above.
4.	Buyer and Paying Authority	BHARAT HEAVY ELECTRICALS LIMITED - SOLAR BUSINESS DIVISION (SBD) , BANGALORE. (Formerly known as ELECTRIC & PHOTOVOLTAIC DIVISION)
5.	Buyer IEC CODE/ GST No.	IEC CODE: 0588138690 / GST No: 29AAACB4146P1ZB
6.	Mode of Dispatch	<ul> <li>By Road/Air/Ship.</li> <li>Note: It is Vendor's responsibility to ensure availability of Trucks/ships schedule etc. well in advance for dispatch of material to meet contractual delivery requirement.</li> <li>Part shipment is allowed.</li> <li>Transshipment is not allowed.</li> <li>It is also the vendor's responsibility to ensure material is dispatched through shortest possible route. By ROAD/AIR/SHIP</li> </ul>
7.	Price basis	<ul> <li>Indigenous purchase –</li> <li>Price to be quoted on Ex-WORKS, inclusive of packing &amp; forwarding charges.</li> <li>Taxes and duties to be paid in line with GCC. Material to be dispatched on freight pre-paid basis to BHEL SBD. Price to be quoted as per attached format (Unpriced Price Bid) . Insurance is in the scope of BHEL.</li> <li>Foreign purchase:</li> <li>Price to be quoted as per attached format (Unpriced Price Bid) for below:         <ol> <li>On CPT-BIAL, Bangalore basis for 31,17,000Nos of (Mono Perc Cell 157mm 5.38Wp and 1,65,55,000Nos of Multi Cell 157mm 4.67Wp</li> <li>On CFR-ICD, Bangalore basis for 31,17,000Nos of (Mono Perc Cell 157mm 5.38Wp and 1,65,55,000Nos of Multi Cell 157mm 4.67Wp</li> <li>Insurance is in the scope of BHEL.</li> </ol> </li> <li>All the other applicable taxes including Income taxes (TDS) as per prevailing Indian law shall be deducted from the payables &amp; paid to Govt. by BHEL.</li> </ul>



		Tax Deduction at Source (TDS) shall be applicable on the Third Party Inspection Charges. Foreign Vendor shall provide Form 10F & Tax Residence Certificate for the same.
8.	Evaluation of Offer	On Item-wise basis as per Cl. No. 19.0 of GCC (Instructions to bidders). Any new taxes/ duties structure as and when implemented by the Government shall become applicable & evaluation shall be done based on the new taxes/ duties structure.
9.	Price Variation	Not Applicable. Prices shall be firm till the completion of contract.
10.	Change of Scope	In case of <b>changes in scope of the tender</b> and/ or technical specifications and commercial terms & conditions by BHEL during techno commercial evaluation and before Price bid Opening, the same will be communicated only to the bidders who have participated in the tender. The techno-commercially qualified bidders shall be asked to submit Impact Price bid, as applicable.
11.	Quantity Splitting	Not Applicable
12.	Quantity Variation	Based on BHEL's requirement, the quantity shall vary $\pm 30\%$ of the tender quantity.
13.	Reverse Auction	<ul> <li>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.</li> <li>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."</li> <li>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.</li> </ul>
14.	Delivery Period	Completion of supply shall be within delivery schedule as below: A. For Mono Perc Cell 157mm 5.38Wp 1. 10,000 Nos within 30 Days from the date of PO 2. 10,00,000 Nos within 60 Days from the date of PO 3. 11,17,000 Nos within 90 Days from the date of PO B. For Multi Cell 157mm 4.67Wp 1. 45,55,000 Nos within 30 Days from the date of PO 2. 30,00,000 Nos within 60 Days from the date of PO 3. 30,00,000 Nos within 90 Days from the date of PO 4. 30,00,000 Nos within 120 Days from the date of PO 5. 30,00,000 Nos within 150 Days from the date of PO
15.	Document Approval	QAP shall be submitted by the bidders within 7 days from the date of PO for approval.
16.	Transit Insurance	In BHEL Scope.



18.	Payment terms	Clause no: 9.1 of GCC R0 to be read as follows:- 9.1 FOR INDIGENOUS PURCHASE:- FOR SUPPLY OF ITEMS ( SI No. 1 of Price format) 9.1.1 88% of basic price of material supplied, as per PO, along with 100% taxes & duties (as applicable) & freight charges, shall be paid on pro-rata basis within 45 days from the date of receipt of goods & receipt of complete documents as per order/contract subject to acceptance of materials. 2% of basic value shall be deducted from payment as TDS & TDS Certificate shall be issued by BHEL, as per amendment in GST Law. GOI has amended GST Law - Section 51 of the CGST Act 2017 wherein Government Agencies (PSU) has to deduct 2% GST TDS w.e.f. 01.10.2018. Kindly go thru the latest amendment in GST Law.
17.	Unloading at SBD/ Transportation from BIAL / ICD Bangalore to SBD in case of imports	In the scope of BHEL.
		Insurance details shall be informed along with the NIT / Purchase Order. Prior Dispatch intimation shall be issued to Insurance agency about the value of consignment, dispatch details, along with one set of documents consisting of LR /BL copy, Packing List, Challan indicating the items dispatched (with their weights). A copy of above should be sent by email to the <u>rita.bawa@newindia.co.in</u> & <u>ashutosh.gupta@newindia.co.in</u> & copy to the following : Email ID: manjunath.rao@bhel.in; himanshun@bhel.in; <u>Insurance Details:</u> <u>For export/import:</u> The New India Assurance Co. Ltd. Add: 301, 3rd floor, RG City Centre, LSC Block-B, Lawrence Road, New Delhi, 110035. Policy number: 9300002120030000004 Period: 01/06/2020 - 31/05/2021 Email ID: rita.bawa@newindia.co.in; ashutosh.gupta@newindia.co.in Tel: 011-27196505; Fax: 011-27196516 <u>For Indigenous</u> The New India Assurance Co. Ltd. Add: 301, 3rd floor, RG City Centre, LSC Block-B, Lawrence Road, New Delhi, 110035. Policy number: 9300002120030000004 Period: 01/06/2020 - 31/05/2021 Email ID: rita.bawa@newindia.co.in; ashutosh.gupta@newindia.co.in Tel: 011-27196505; Fax: 011-27196516 <u>For Indigenous</u> The New India Assurance Co. Ltd. Add: 301, 3rd floor, RG City Centre, LSC Block-B, Lawrence Road, New Delhi, 110035. Policy no: 93000021200200000016 Period: 01/06/2020 - 31/05/2021 Email ID: rita.bawa@newindia.co.in; ashutosh.gupta@newindia.co.in Tel: 01/06/2020 - 31/05/2021



		<ul> <li>9.1.2 Ten Percent (10%) of basic price of material supplied will be released along with the payment of the last lot on completion of supplies as per PO. Supplier to inform a BHEL that supplies are completed.</li> <li>For THIRD PARTY INSPECTION CHARGES (SI No. 2 of Price format)</li> <li>9.1.3 100% of TPI Charges shall be paid on pro-rata within 45 days from the date of BHEL CERTIFICATION against successful completion of inspection on receipt of original invoice and Certification document at BHEL.</li> </ul>
		<ul> <li>a. FOR FOREIGN PURCHASE – IMPORTS</li> <li>FOR SUPPLY OF ITEMS (SI No. 1 of Price format) <ol> <li>90% of price of material supplied, as per PO, on CAD basis pro-rata within 70 days from the date of Bill of Lading on receipt of complete documents specified in PO at BHEL BANK. Respective bank charges to respective account.</li> <li>Ten Percent (10%) of basic price of material supplied will be released along with the payment of the last lot on completion of supplies as per PO. Supplier to inform a BHEL that supplies are completed.</li> </ol> </li> </ul>
		<b>For THIRD PARTY INSPECTION CHARGES ( SI No. 2 of Price format)</b> 9.2.3 100% of TPI Charges shall be paid on CAD basis pro-rata within 45 days from the date of BHEL CERTIFICATION against successful completion of inspection on receipt of original invoice and Certification document at BHEL BANK. In case of Foreign bidders opting for payment through irrevocable and unconfirmed letter of credit, the same shall be opened by BHEL within 07 days from the request to do so by the vendor along with required details. For 90% of price of material supplied, the usance period for LC will be 100 days from the date of Bill of Lading (B/L) & Ten percent (10%) of price of materials supplied will be released along with payment of last lot on completion of supplies as per PO. LC opening/ negotiation/ confirmation charges will be to vendor's account.
19.	Document to be submitted for claiming payments	<ul> <li>CI (a) of Clause no. 9.2.2 of GCC R0 to be read</li> <li>a. The invoice submitted by the Indigenous vendor shall be GST compliant</li> <li>Following to be appended to the list of documents specified at clause no.</li> <li>9.2.2 of GCC R0 :</li> <li>Inspection call to BHEL for Inspection of goods.</li> <li>AWB/ Delivery challan (If applicable)</li> </ul>
20.	Guarantee Certificate	Not Applicable
21.	Submission of Contract	Not Applicable



	Performance Bank		
	Guarantee		
		APPLICABLE (AS PER ATTACHED FORMA	.T)
		IP is a tool to ensure that activities and transactions between the Company	
		and its Bidders/ Contractors are handled	in a fair, transparent and corruption
		free manner. A panel of Independent External Monitors (IEMs) have been	
		appointed to oversee implementation o	f IP in BHEL.
		The IP as enclosed with the tender i	s to be submitted (duly signed by
		authorized signatory who signs in the o	offer) along with techno-commercial
		bid. Only those bidders who have enter	red into such an IP with BHEL would
		be competent to participate in the biddi	
		Pact would be a preliminary qualificatio	
		Details of Independent External Monito	
22.	Integrity Pact	Sh. Arun Chandra Verma, IPS (Retd.)	Sh. Arun Chandra Verma, IPS (Retd.)
		Email: acverma1@gmail.com	Email: acverma1@gmail.com
		Note:	
		No routine correspondence shall be a	
		email) regarding the clarifications,	-
		administrative queries, etc. on the tender issued. All such clarification/ issues	
		shall be addressed directly to the tender issuing (procurement) department.	
		For all clarifications/ issues related to the tender, Please contact: Name : Manjunath Rao Katkar. Engineer/ MM. Himanshu Kumar Naik- Dy	
			· · · · · · · · · · · · · · · · · · ·
		Manager-MM. Address: SBD, Bangalore Phone: manjunath.rao@bhel.in; himanshun@bhel.in>;	
		Ph. No. +91-080-22182286/2161, 94491 The bidder shall submit the overall or	
23.	Organization Chart	details/mobile no. of officials dealin	
25.	Organization Chart	engineering, supply, Quality, etc. immed	
		Purchaser reserves the right to reco	
		agreed, liquidated damages and not by way of penalty, a sum equivalent to	
	Late Delivery	half (½) percent of undelivered portion per week or part thereof, subject to	
24.	Charges	a maximum of ten (10) percent of the to	
	Ŭ	of taxes, duties and freight, if the Seller	
		of the ordered stores within the period	



25.	Preference to Make in India	This Tender is governed by Circular No. P-45021/2/2017-B.EII dated <u>15.06.2017</u> , <u>28.05.2018</u> , <u>29.05.2019</u> & 04.06.2020 issued by Govt. of India (copy enclosed). "For this procurement, Public Procurement (Preference to Make in India), Order 2017 dated <u>15.06.2017</u> , <u>28.05.2018</u> , <u>29.05.2019</u> , 04.06.2020, 16.09.2020 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/ POI WO against this NIT. 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." Preference to Make in India including counter offering will be as per the Public Procurement (Preference to Make in India), Order 2017 available in the following links: https://dipp.gov.in/sites/default/files/publicProcurement MakeinIndia <u>15J</u> <u>une2017.pdf</u> https://dipp.gov.in/sites/default/files/PPP- MII%20Order%20dt%2029th%20May%2019_0.pdf https://dipp.gov.in/sites/default/files/PPP%20MII%20Order%20dated%204 th%20June%202020.pdf https://dipp.gov.in/sites/default/files/PPP%20MII%20Order%20dated%204
26.	Purchase from SEZ in India	<ul> <li>with PPP-MII order, to be submitted as per attached Annexure-1(A) for procurement value from Rs. 5.00 Lac to Rs. 10.00 Crore or Annexure-1(B) for procurement value more than Rs. 10.00 Crore.</li> <li>Purchase from SEZ in India shall be considered as Indigenous purchase for the purpose of Purchase Preference to Make in India Policy, Price Basis, Payment term &amp; delivery terms. However, additional taxes, duties including Cafe Cuard Duty if any shall be considered while avaluation the hid.</li> </ul>
27.	Inspection Agency	<ol> <li>Safe Guard Duty if any shall be considered while evaluating the bid.</li> <li>A detailed QAP for manufacturing &amp; inspection shall be submitted by the vendor along with the offer for BHEL Approval.</li> <li>Vendor has to offer finished product to Third Party Inspection (TPI) &amp; carry out acceptance test as per Approved QAP &amp; submit the reports to BHEL for verification &amp; obtaining Material Dispatch clearance certificate (MDCC).</li> <li>Bidder shall quote the THIRD PARTY INSPECTION (TPI) charges in the price bid for the inspection by one of the third party agencies as follows: Fraunhofer, Intertek, UL, Lloyds, TUV, SGS, BVI, DNV, GEOCHEM, BASTUR.</li> </ol>



		4. Evaluation shall be done including third party inspection charges. BHEL
		reserves the right to conduct inspection using bidder TPI. In case of non-
		usage of bidder TPI, TPI charges shall not be paid to supplier.
		5. In case of BHEL inspection at vendor's works, Inspection call should be
		furnished in online portal <u>http://cqir.bhel.in/Cqir/jsp/Masters/login.jsp</u>
		(mandatory). It is responsibility of the vendor to inform BHEL at least 15
		days prior for carrying out inspection, along with all the relevant test
		certificates and internal test reports. Such inspection, examination and
		testing by itself shall not relieve the Seller/Contractor from any obligation
		under the Order/Contract. Penalty for items not ready after inspection call
		/ failure during inspection: The expenses incurred by BHEL/Representative
		for travel, stay etc. shall be in vendor's account.
		6. No item / equipment shall be dispatched without obtaining prior Material
		Dispatch clearance certificate (MDCC) from BHEL-SBD Material
		Management Department irrespective of inspection categories.
		7. In case of inspection by BHEL or BHEL Representative or Third Party
		Inspection arranged by the bidder, the item shall be packed in the
		presence & under seal of the inspector. BHEL reserves the right not to
		accept any package received without/tempered seal. 8. In case of Indian Bidder opting to not quote for Third Party Inspection
		Charges, loading @ 0.26% of their total basic prices shall be loaded for
		evaluation purpose.
		Clause No. 4.1, 4.2 & 4.3 of GCC to be read as:
		4.1 CGST/SGST/UTGST/IGST
	TAXES AND DUTIES (Clause No. 4.1, 4.2 & 4.3) (Applicable only for Indian Bidders)	4.1.1 Seller/ Contractor is required to ensure that CGST/SGST/UTGST/IGST
		(whichever is applicable) is quoted as per the existing tariff on the
		date of the offer and all benefits as per existing laws have been
		considered.
		4.1.2 It is the responsibility of the seller/contractor to issue the Tax Invoice
28.		strictly as per the format prescribed under the relevant applicable
20.		GST law (CGST Act/SGST Act/UTGST Act/IGST Act). Vendor to
		indicate the proper GSTN Registration/ HSN code in their tax invoice.
		4.1.3 The purchaser is registered in the State of Karnataka vide following
		GST registration number: 29AAACB4146P1ZB.
		4.1.4 Seller/contractor is required to mention the above registration
		number in their tax invoice unless stated otherwise in NIT/SCC.
		4.1.5 CGST/SGST/UTGST/IGST shall be paid at actuals against Tax Invoice
		but restricted to the amount and percentage in the order/contract.
29	OTHER TAXES &	Clause No. 4.4 of GCC to be read as: 4.2 OTHER TAXES & LEVIES
	LEVIES (Clause No. 4.4)	4.2 OTHER TAXES & LEVIES 4.2.1 All taxes/duties/Cess other than CGST/SGST/UTGST/IGST shall be
	(Applicable only for	deemed to be included in the Ex-Works prices unless specified
L	wipplicable only for	accined to be included in the Ex-works prices unless specified



	Indian Bidders)	otherwise by the bidder in the price bid. No variation in other taxes		
		and duties shall be payable by Purchaser.		
		Clause No. 4.5 of GCC to be read as:		
		4.3 CUSTOMS DUTY		
	CUSTOMS DUTY (Clause No. 4.5 of GCC)	<ul> <li>4.3.1 Customs Duty/IGST/Goods and Services compensation cess under Goods and Services Tax (Compensation to States) Act, 2017 element for imported items as per Special Conditions of Contract shall be included in the Ex-Works prices.</li> <li>4.3.2 Seller/ Contractor shall arrange for his own import license, if required, since Purchaser will not provide any import license.</li> </ul>		
30.	GCC)	Therefore, Seller/ Contractor alone shall be responsible for any		
	(Applicable only for Indian Bidders)	<ul> <li>delay in getting import license or non-availability of the same or completion of other related formalities. Purchaser shall not be responsible for any financial liability, whatsoever, on this account.</li> <li>4.3.3 Essentiality Certificate or Project Authority Certificate (PAC) as per Import Policy, if required to avail concessional customs duty, shall be clearly specified in the offer. Import content (CIF value in rupees) with list of items, quantity, foreign currency, Country of origin etc., shall be submitted by the bidder as part of Price bid.</li> </ul>		
		Clause No. 4.6 of GCC to be read as:		
		4.4 DIRECT TAXES		
31.	DIRECT TAXES (Clause No. 4.6 of GCC) (Applicable only for	<ul> <li>4.4.1 Purchaser shall not be liable towards income tax of whatever nature including variations thereof, arising out of this Order/ Contract, as well as tax liability of the Seller/ Contractor and his personnel.</li> <li>4.4.2 Deductions of Tax at source at the prevailing rates shall be effected</li> </ul>		
	Indian Bidders)	by the Purchaser before release of payment, as a statutory obligation, if applicable. TDS certificate will be issued by the Purchaser as per statutory provisions.		
		Clause No. 5.0 of GCC to be read as:		
		5.0 STATUTORY VARIATION		
		5.1 Statutory variation for CGST/SGST/UGST/IGST is available provided the actual completion of supply does not occur beyond the period stipulated in the order/contract or any extension (without laws of negative)		
	VARIATION (Clause No. 5.0 of GCC)	levy of penalty).		
32.	NO. 5.0 01 GCC)	5.2 For variation after the agreed completion periods, the seller/contractor alone shall bear the impact for the upwards		
	(Applicable only for	revisions and adjust the price in their basic price in such a manner		
	Indian Bidders)	that total price with tax matches with the ex- works with taxes of Purchase Order/Contract. For downward revisions, purchaser shall be given the benefit of reduction in CGST/SGST/UGST/IGST. This will be without prejudice to the levy of penalty for delay in		
		delivery/completion schedule.		



		5.3 No other variations such as on Custom Duty, exchange rate, minimum wages, prices of controlled commodities, any other input etc. shall be payable by the purchaser.3		
		9.7 Other clauses		
33.	New Clause of GCC (Applicable only for Indian Bidders)	<ol> <li>Vendor/Supplier will intimate &amp; upload the Tax invoice along with LR/RR (as applicable) on web portal &amp; intimate BHEL immediately on removal of goods from vendor/supplier works. In case of Services, Vendor is required to upload the Tax invoice on Web Portal immediately after raising the invoice. BHEL will issue the delivery order/instruction to dispatch the material to the customer as indicated in SCC.</li> <li>All payments against Tax Invoice to vendors/contractors shall be released only after:         <ul> <li>a) Vendor/contractor declaring such invoice in GSTR-1 within the prescribed timeline as per the relevant Act.</li> <li>b) The tax component charged by the vendor in the invoice should be matched with the details uploaded by vendor in GSTR-1.</li> <li>c) Confirmation of payment of GST thereon by vendor on GSTN portal</li> <li>3. In case, any GST credit is delayed/denied to BHEL due to non/delayed receipt of goods and/or tax invoice or expiry to timeline prescribed in the relevant Act for availing such ITC, or any other reasons not attributable to BHEL, tax amount shall be recoverable from the vendor/contractor along with interest levied/leviable on BHEL.</li> </ul> </li> <li>Wherein GST liability arises on BHEL under reverse charge, any interest levied/leviable due to any reasons not attributable to BHEL shall be recovered from the vendor/contractor.</li> </ol>		
34.	DOCUMENTS TO BE SUBMITTED BY VENDOR (Clause No. 9.2 of GCC)	Clause No. 9.2 of GCC to be read as: 9.2 DOCUMENTS TO BE SUBMITTED BY VENDOR (All Same) (a) To be replaced with GST compliant Invoice (b) Duty drawback documents as per applicable law (original+1 copy)		
35.	Clause No. 16.2 of GCC	Clause No. 16.2 of GCC to be read as: Purchaser reserves the right to recover from the Seller/ Contractor, as agreed liquidated damages and not by way of penalty, a sum equivalent to half (½) percent plus applicable GST of the total contract price per week or part thereof, subject to a maximum of ten (10) percent of the total contract price excluding elements of taxes, duties and freight, if the Seller/ Contractor fails to deliver any part of the ordered stores within the period stipulated in the Order/ Contract. For Turnkey packages (Supply and E&C in vendor's scope), Liquidated Damages shall be levied on the total contract value of both Supply and E&C		



		orders (excluding taxes, duties and freight) if E&C completion of the package
		is delayed beyond the contractual completion date or extension thereof.
		Liquidated Damages will not be withheld from supply payment.
		LR/ GR/ RR/ eway bill date for indigenous supplies and AWB/ BL date for
		C&F contracts shall be treated as the date of dispatch for levying LD as per
		Clause 16.
		However, for indigenous supply if receipted LR/eway bill date is beyond
		three months from the date of LR/e- way bill, such excess period shall also
		be considered for LD purpose.
		In case of any amendment/ revision, LD shall be linked to the amended/
		revised contract value and delivery date(s)
		a) In case of discrepancy in CGST/SGST/UTGST/IGST rate corresponding to
		HSN ;code and quotes rates, the evaluation shall be done on quoted price
		and correctCGST/SGST/UTGST/IGST rate shall be considered for ordering
		( limited to quoted FOR Site Price)
		b) The bidder should have been registered with the appropriate authority
		under relevant GSTlaws.
		c) The bidder to specify in their offer (part 1 bid) the category of registration
	Now Clauses of	under GST i.e. registered dealer and composite dealer
36.	New Clauses of GCC	d) No CGST/SGST/UTGST/IGST will be reimbursed to composite dealer. In
		the event of any GST quoted by composite dealer, the same shall be
		considered for evaluation purpose. However, the ordering will be done
		without considering the tax.
		e) In the event of any change in the status of vendor from composite to
		regular dealer after the submission of the bid but before the supply, no
		reimbursement of CGST/SGST/UTGST/IGST will be made. However, the
		vendor has to raise the invoice strictly, as per the law, by adjusting their
		ex-works price.
		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
	RISK & COST CLAUSE	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
37.		of execution.
57.		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.