

Bharat Heavy Electricals Ltd.,

(A Government of India undertaking)

Electronics Division

PB No.2606, Mysore Road, Bangalore-560026, India

Quotations are invited under two part bid system for Design, supply and erection of Pre-Engineered Building (PEB) rooms including civil works for 15 MW(AC) Solar PV plant as per BHEL technical specifications through e-procurement route.

RFQ NO and date	SPKSCPV003 dated 19.07.2017 (E-tender)
RFQ due date & time	02.08.2017 up to 13.00 hrs (IST)
Date, Time & Venue of Part-I Bid Opening	02.08.2017 after 13.30 hrs (IST) (E-tender) – Website - https://bheleps.buyjunction.in
Date, Time & Venue of Price Bid opening	Will be intimated later for technically accepted vendors
Address for Communication & Contact Person in BHEL	Mr. S.Pankaj Kumar (08126333426)/ Mr. Chendhil Kumar R (09449869644), SC&PV MM Department, BHEL Electronics Division, PB NO 2606, Mysore road, Bangalore-560 026. INDIA Email: spankaj@bheledn.co.in , chendhil@bheledn.co.in Telephone number: +91 80 26989667, +91 80 26998391
Name and address of the Independent External Monitor for this tender	Shri D.R.S Chaudhary, IAS (Retd.), Flat No. L-202 & L-203 (1st Floor) Ansal Lake View Enclave Shamlu Hills Bhopal- 462 013 (M.P.) Ph: +91 755 4050495 Email - dilip.chaudhary@icloud.com

REQUEST FOR QUOTATION

	BHARAT HEAVY ELECTRICALS LIMITED Electronics Division PB No. 2606, Mysore Road Bangalore - 560026 INDIA	RFQ NUMBER: SPKSCPV003	Due Date : 02.08.2017 Time : 13:00 HRS VENUE : NEW ENGG. BLDG
MMI:PU:RF:003		RFQ DATE : 18.07.2017	
(address for communication) :		(for all correspondence) Purchase Executive : S. Pankaj Kumar Phone : 080-26989667 Fax : E-mail: spankaj@bheledn.co.in	
Please submit your lowest quotation subject to our terms and conditions attached for the materials mentioned below.			

Sl No.	Description	Qty	Unit	Delivery qty	Delivery Date
1	PS0679072977 Supply of PEB Structural material for IR * HSN/SAC : 7301 Test Certificate As per spec BHEL Spec PS-439-1140. As per spec BHEL Spec PS-439-1140.	3	ST	3	30.09.2017
2	PS0679072985 Supply of PEB Structural mat for MCR * HSN/SAC : 7301 Test Certificate As per BHEL Spec PS-439-1140 As per BHEL Spec PS-439-1140	1	ST	1	30.09.2017
3	PS0679072993 Supply of PEB Str mat for Security room * HSN/SAC : 7301 Test Certificate As per spec BHEL Spec PS-439-1140. As per spec BHEL Spec PS-439-1140.	1	ST	1	30.09.2017
4	PS0679073000 Supply of PEB Architectural itmes for IR * HSN/SAC : 7301 Test Certificate As per spec BHEL Spec PS-439-1140. As per spec BHEL Spec PS-439-1140.	3	ST	3	30.09.2017
5	PS0679073019 Supply of PEB Archit itmes for MCR * HSN/SAC : 7301 Test Certificate	1	ST	1	30.09.2017

TWO PART BID - SUBMIT TECHNICAL AND PRICE BID IN SEPARATESEALED COVERS

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 - v). Quotation should remain valid for a minimum peiod of 90 days from due date.
 - vi). In case of non-receipt of Quotation or regret letter for 3 consecutive RFQs you are liable to be removed from our vendors list.
- * The HSN/SAC no mentioned against the line items in the RFQ are indicative only.

For and On behalf of BHEL.

S. Pankaj Kumar
Semiconductors & Pho

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REQUEST FOR QUOTATION

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SI No.	Description	Qty	Unit	Delivery qty	Delivery Date
	As per spec BHEL Spec PS-439-1140.				
	As per spec BHEL Spec PS-439-1140.				
6	PS0679073027 Supply of PEB Archt itmes for Security * HSN/SAC : 7301 Test Certificate Room As per spec BHEL Spec PS-439-1140. Room As per spec BHEL Spec PS-439-1140.	1	ST	1	30.09.2017
7	PS0679073035 Supply of electrical items for IR * HSN/SAC : 9405 Test Certificate As per spec BHEL Spec PS-439-1140. As per spec BHEL Spec PS-439-1140.	3	ST	3	30.09.2017
8	PS0679073043 Supply of electrical items for MCR * HSN/SAC : 9405 Test Certificate As per BHEL Spec PS-439-1140. As per BHEL Spec PS-439-1140.	1	ST	1	30.09.2017
					30.09.2017

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Sl No.	Description	Qty	Unit	Delivery qty	Delivery Date
9	PS0679073051 Supply of electrical items for Security * HSN/SAC : 9405 Test Certificate Room As per spec BHEL Spec PS-439-1140. Room As per spec BHEL Spec PS-439-1140.	1	ST	1	
10	PS0679073060 Erection of PEB IR Structural material * HSN/SAC : 9954 As per spec BHEL Spec PS-439-1140. As per spec BHEL Spec PS-439-1140.	3	AU	3	30.10.2017
11	PS0679073078 Erection of PEB MCR Structural material * HSN/SAC : 9954 As per spec BHEL Spec PS-439-1140. As per spec BHEL Spec PS-439-1140.	1	AU	1	30.10.2017
12	PS0679073086 Erection of PEB Security Room Structural * HSN/SAC : 9954 material As per spec BHEL Spec PS-439-1140. material As per spec BHEL Spec PS-439-1140.	1	AU	1	30.10.2017
13	PS0679073094 Erection of PEB IR Architectural items * HSN/SAC : 9954 As per spec BHEL Spec PS-439-1140. As per spec BHEL Spec PS-439-1140.	3	AU	3	30.10.2017
					30.10.2017

TWO PART BID - SUBMIT TECHNICAL AND PRICE BID IN SEPARATE SEALED COVERS

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Sl No.	Description	Qty	Unit	Delivery qty	Delivery Date
14	PS0679073108 Erection of PEB MCR Architectural items * HSN/SAC : 9954	1	AU	1	
15	PS0679073116 Erection of PEB Security Room Archit itm * HSN/SAC : 9954 As per spec BHEL Spec PS-439-1140. As per spec BHEL Spec PS-439-1140.	1	AU	1	30.10.2017
16	PS0679073124 Construction of Civil Foundation * HSN/SAC : 9954 including cable trench in IR As per spec BHEL Spec PS-439-1140. including cable trench in IR As per spec BHEL Spec PS-439-1140.	3	AU	3	30.10.2017
17	PS0679073132 Construction of Civil Foundation * HSN/SAC : 9954 including cable trench in MCR As per spec BHEL Spec PS-439-1140. including cable trench in MCR As per spec BHEL Spec PS-439-1140.	1	AU	1	30.10.2017
18	PS0679073140 Construction of Civil Foundation * HSN/SAC : 9954 for Security room and watch cabin As per spec BHEL Spec PS-439-1140. for Security room and watch cabin As per spec BHEL Spec PS-439-1140.	1	AU	1	30.10.2017
19	PS0679073159 I&C: Electrical items in IR * HSN/SAC : 9954 As per spec BHEL Spec PS-439-1140. As per spec BHEL Spec PS-439-1140.	3	AU	3	30.10.2017

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Please submit your lowest quotation subject to our terms and conditions attached for the materials mentioned below.

Sl No.	Description	Qty	Unit	Delivery qty	Delivery Date
20	PS0679073167 I&C: Electrical items in MCR * HSN/SAC : 9954	1	AU	1	30.10.2017
21	PS0679073175 I&C: Electrical items in Security Room * HSN/SAC : 9954 and watch cabin As per spec BHEL Spec PS-439-1140. and watch cabin As per spec BHEL Spec PS-439-1140.	1	AU	1	30.10.2017

Total Number of Items - 21

1.
2.

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	PURCHASE SPECIFICATION Design, supply and erection of Pre-Engineered Building (PEB) rooms including civil works for 15 MW SPV plant side at Charanka Solar Park, Gujarat	PS-439-1140
		REV NO: 00
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Technical specification For Design, supply and erection of Pre-Engineered Building (PEB) rooms including civil works for 15 MW SPV plant side at Charanka Solar Park, Gujarat
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Approved by : NHK			
Revision details :R00	Prepared  VJ	Checked  PRV	Date 17-July-2017

	PURCHASE SPECIFICATION Design, supply and erection of Pre-Engineered Building (PEB) rooms including civil works for 15 MW SPV plant side at Charanka Solar Park, Gujarat	PS-439-1140
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1.0 Introduction

Bharat Heavy Electricals Limited (BHEL), Electronics Division, Bangalore is setting up 15MWp Grid-connected Solar PV Power Plant for Gujarat Alkalies & Chemicals Limited (GACL), Vadodara at Charanka Solar Park, Gujarat. This technical specification describes the vendor scope of design, supply and erection of PEB-based rooms of the power plant (three inverter rooms, one control room, one security room and two watchman cabins).

2.0 Location / approach particulars of the power plant

15MW (AC) Solar Photovoltaic Power Plant
Charanka Solar Park
Patan district
Gujarat

3.0 Pre-qualification criteria (PQC)

Following are PQC criteria that the bidders shall essentially meet in order to qualify in the tendering process. Offers from bidders not meeting this PQC shall be rejected.

- a) Vendor shall essentially be an OEM (Original Equipment Manufacturer) of PEB structures. Vendor shall along with technical bid, furnish the postal address of their factory/works where the structures are manufactured and also the details (names/phone) of contact persons.
- b) Vendor should have supplied and installed PEB structures with PUF insulation (for wall cladding/roofing) for a minimum base area of 100 sqm per building and minimum cumulative base area of 700 sqm considering all PEB rooms supplied and installed. Vendor shall, along with technical bid, enclose copies of purchase orders/ completion certificate (during the past 3 years from the date of RFQ from their clients for same. Vendor shall also enclose supporting documents (PO copies, drawings etc) for supply of PUF insulation based PEB structures.
- c) Vendor shall, along with technical bid, submit a duly-signed undertaking (in their company letter head) that they shall be willing to submit all necessary structural design calculations proof checked and endorsed by IIT/NIT, as per applicable clauses in the tender specification.

4.0 Overview of solar PV power plant

Solar PV modules employed at the plant generates DC electricity that in turn shall be inverted to AC in the range 300-400V. Output of each solar block (5.7 MWp) with independent inverter room/ transformer yards shall be stepped up to 33kV. Combined AC output is stepped up to 66kV using a 16MVA power transformer. At this outgoer level, there is outdoor switchyard together with necessary gantries/ towers/ beams/Cables to facilitate 66kV transmission.

Power generated at the above SPV plant shall be transported to CTU/STU substation using 66kV underground cables. Distance between SPV plant and substation is 400m approximately. At substation, an outdoor switchyard bay exclusive for this plant shall be constructed with necessary gantries/ towers/ beams to facilitate 66kV transmission

	PURCHASE SPECIFICATION Design, supply and erection of Pre-Engineered Building (PEB) rooms including civil works for 15 MW SPV plant side at Charanka Solar Park, Gujarat	PS-439-1140
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The various electrical panels such as inverters, 33kV vacuum circuit breakers (VCB), AC/DC distribution boards, UPS panels, SCADA panels etc are housed in 4 rooms. Among these, three are inverter rooms and one no of control room of PEB type. Each inverter room is equivalent to 5MWp. Thus, all three rooms collectively generate 15MWp. The output of these three inverter rooms are combined at control room to generate and transmission of 15 MWp. In addition to the inverter rooms, control room the security room and watchman cabin is also of PEB type.

The inverter rooms and control room are located at distributed locations within the power plant. AC outputs from all these rooms are combined at CMCS room. Security room is located near the entrance gate.

5.0 Vendor scope

#	Item Description	Quantity
5.1	Supply of PEB structural materials such as columns, rafters, beams, purlins, steel sheets, insulation etc for inverter rooms as per clause 8.1. (Note: 1 set is for one inverter room).	3 set
5.2	Supply of PEB structural materials such as columns, rafters, beams, purlins, steel sheets, insulation etc for control rooms as per clause 8.1.	1 set
5.3	Supply of PEB structural materials such as columns, rafters, beams, purlins, steel sheets, insulation etc for security room and watchman cabin as per clause 8.1.	1 set
5.4	Supply of PEB architectural items such as doors, windows, rolling shutters, etc for inverter rooms as per clause 8.2. (Note: 1 set is for one inverter room).	3 set
5.5	Supply of PEB architectural items such as doors, windows, rolling shutters, partitions etc for control room as per clause 8.2. (Note: 1 set is for one inverter room).	1 set
5.6	Supply of PEB architectural items such as doors, windows, etc for security room and watchman cabin as per clause 8.2.	1 set
5.7	Supply of electrical items like LED lights, fans, switchboard, cables etc for inverter rooms as per clause 8.3. (Note: 1 set is for one inverter room).	3 set
5.8	Supply of electrical items like LED lights, fans, switchboard, cables etc for control room as per clause 8.3 (Note: 1 set is for one inverter room).	1 set
5.9	Supply of electrical items like LED lights, fans, switchboard, cables etc for security room and watchman cabin as per clause 8.3.	1 set
5.10	I&C: Erection of PEB inverter room structural materials as per clause 8.5 (Note: 1 AU represents one inverter room)	3 AU
5.11	I&C: Erection of PEB control room structural materials as per clause 8.5 (Note: 1 AU represents one control room)	1 AU
5.12	I&C: Erection of PEB security room and watchman cabin structural materials as per clause 8.5	1 AU
5.13	I&C: Erection of PEB inverter room architectural items as per clause 8.6 (Note: 1 AU represents one inverter room)	3 AU

	PURCHASE SPECIFICATION Design, supply and erection of Pre-Engineered Building (PEB) rooms including civil works for 15 MW SPV plant side at Charanka Solar Park, Gujarat	PS-439-1140
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5.14	I&C: Erection of PEB control room architectural items as per clause 8.6	1 AU
5.15	I&C: Erection of PEB security room and watchman cabin architectural items as per clause 8.6	1 AU
5.16	Construction of Civil Foundation including cable trench for inverter room as per clause 8.4	3 AU
5.17	Construction of Civil Foundation including cable trench for control room as per clause 8.4	1 AU
5.18	Construction of Civil foundation for Security room and watchman cabin as per clause 8.4	1 AU
5.19	I&C: Electrical items like LED lights, fans, switchboard, cables etc for inverter rooms as per clause 8.7. (Note: 1 set is for one inverter room).	3 AU
5.20	I&C: Electrical items like LED lights, fans, switchboard, cables etc for control room as per clause 8.7. (Note: 1 set is for one inverter room).	1 AU
5.21	I&C: Electrical items like LED lights, fans, switchboard, cables etc for security room and watchman cabin as per clause 8.7.	1 AU
5.22	Warranty Vendor shall provide warranty for 12 months for the supply and erection of PEB rooms from the date of start of erection or 18 months from the date of completion of erection whichever is earlier.	-

	PURCHASE SPECIFICATION Design, supply and erection of Pre-Engineered Building (PEB) rooms including civil works for 15 MW SPV plant side at Charanka Solar Park, Gujarat	PS-439-1140
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6.0 Enclosures to this tender specification

6.1	Vicinity map of project site
6.2	Typical site layout with solar array, CMCS room, PEB inverter rooms (tender purpose only)
6.3	Typical layout of PEB inverter room showing electrical panel placement (tender purpose only)
6.4	Typical layout of PEB control room showing electrical panel placement (tender purpose only)
6.5	Typical layout of Cable trenches for Inverter room and Control Room
6.6	Request for Quotation with instructions, terms and conditions, formats for filling-up etc.

Notes:

- 1) Overall base area of PEB inverter room shall be as per the typical layout mentioned above.
- 2) Overall base area for PEB security room shall be 9 sqm minimum.
- 3) Overall base area for PEB watchman cabin shall be 4 sqm minimum
- 4) Height of vertical column structure of PEB inverter room / control room / security room shall be 3.5m minimum above FFL.

7.0 Instructions to bidders on bid submission

7.1	Offer shall be submitted in two-parts (Two-part bid).
7.2	First-part shall be techno-commercial bid. Following details shall be furnished: 1. Supporting documents as per pre-qualification criteria 2. Techno-commercial offer covering letter 3. Filled-up enclosures as per BHEL formats (meant for first-part) provided in tender. 4. This specification duly signed by the bidder with seal indicating compliance in total. 5. In case of deviations in the offer from this specification, separate clause-wise list shall be enclosed. 6. Details of company of the bidder
7.3	Second-part shall be price bid with filled up enclosures as per BHEL formats provided in tender.
7.4	In addition to the above instructions, tender document provides detailed instructions for bid submission. Vendor shall submit the bid based on instructions in tender document.

	PURCHASE SPECIFICATION Design, supply and erection of Pre-Engineered Building (PEB) rooms including civil works for 15 MW SPV plant side at Charanka Solar Park, Gujarat	PS-439-1140
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8.0 Technical specification – Design, supply and erection of PEB rooms

8.1 Design and supply of PEB structural materials

- a) After receipt of BHEL PO, following documents shall be submitted to BHEL/GACL for approval:
 1. Structural design calculations including STADD.Pro
 2. GA drawings along with BOM.
- b) Design calculations, checked and certified by IIT/NIT, shall be submitted to BHEL/GACL for approval.
- c) Vendor shall supply the structural materials such as columns, rafters, beams, purlins, tie rods, sheets, wall cladding/roofing PUF insulation, hardware etc to the site as per the BHEL/GACL approved drawings. Raw materials for steel sections, sheets etc shall be of reputed make such as Jindal, RINL, SAIL, Tata steel etc. Vendor shall take prior approval from BHEL for the make prior to proceeding with procurement action.
- d) Vendor shall also supply the J bolts/nuts/washers, alignment plates and other related hardware that are used for positioning and anchoring of the PEB structures to the RCC foundation.
- e) All the items shall be supplied directly to the project site.
- f) Relevant clauses of “**Detailed specification of PEB rooms**” section shall be adopted.

8.2 Design and supply of PEB architectural items

- a) After receipt of BHEL PO, vendor shall submit GA drawings along with BOM (item-wise description, quantity, make, model etc) of the architectural items for BHEL/GACL approval.
- b) The architectural items submitted for approval shall meet the requirements of various aspects of the room such as electrical, illumination, ventilation, exhaust, thermal, safety, security etc.
- c) Accordingly, this shall include all items such as windows with shades, doors with shades/lock/key, rolling shutters with lock/key, ventilator provisions, exhaust provisions, rain water gutters/ downcomers/ pipes etc. Vendor shall take prior approval from BHEL for the make prior to proceeding with procurement action.
- d) Vendor shall supply the items directly to the project site.
- e) Relevant clauses of “**Detailed specification of PEB rooms**” section shall be adopted.

8.3 Design and supply of PEB room electrical items

- a) After receipt of BHEL PO, vendor shall submit Electrical layout drawings along with BOM (item-wise description, quantity, make, model etc) for BHEL/GACL approval.
- b) The electrical items submitted for approval shall meet the requirements of various aspects of the room such as electrical, illumination, ventilation, exhaust, thermal, safety, security etc.
- c) Accordingly, this shall include all items such as lighting fixtures, fans, exhaust fans, sockets, switchboards, LDBs, cables etc. Vendor shall take prior approval from BHEL for the make prior to proceeding with procurement action.
- d) Vendor shall supply the items directly to the project site.
- e) Relevant clauses of “**Detailed specification of PEB rooms**” section shall be adopted.

	PURCHASE SPECIFICATION	PS-439-1140
	Design, supply and erection of	REV NO: 00
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8.4 Design and construction of PEB room foundations including cable trench

- a) After receipt of BHEL PO, vendor shall submit the foundation drawing of PEB rooms including cable trench for BHEL/GACL approval.
- b) The foundation drawing submitted for approval shall be supported with design documents.
- c) Cable trench shall be constructed as per drawing enclosed in this tender specification.
- d) Necessary cable tray support structures and panel support structure shall be provided in the cable trench
- e) Vendor shall supply the items directly to the project site.
- f) Relevant clauses of “**Detailed specification of PEB rooms**” section shall be adopted.

8.5 Erection of structures of PEB rooms:

- a) Vendor shall erect the structural items such as columns, rafters, beams, purlins, tie rods, sheets, wall cladding/roofing insulation, hardware etc as per the BHEL/GACL approved drawings / BoM.
- b) Vendor shall also carry out necessary finishing activities such as painting etc.
- c) Vendor shall deploy qualified/competent team at site to carry out the above erection activity.
- d) Vendor shall also deploy their specialized team during plinth casting of J bolts / alignment (base) plates etc.
- e) All necessary labour, tools & tackles, shuttering materials, measuring instruments, machinery shall be in vendor scope of supply. This shall include spanner sets, drilling machines, welding machines, hydra, JCB, truck, trolley etc as required for the erection work.
- f) For the above, relevant clauses of “**Detailed specification of PEB rooms**” section shall be adopted.

8.6 Erection of architectural items of PEB room:

- a) Vendor shall carry out erection of the architectural items such as windows with shades, doors with shades/lock/key, rolling shutters with lock/key, structural provisions for ventilators / exhausts, rain water gutters/ downcomers/ pipes etc as per the BHEL/GACL approved drawings / BoM.
- b) Vendor shall also carry out necessary finishing activities such as painting etc.
- c) Vendor shall deploy qualified/competent team at site to carry out the above erection activities.
- d) All necessary labour, tools & tackles, shuttering materials, measuring instruments, machinery shall be in vendor scope of supply. This shall include spanner sets, drilling machines, welding machines, hydra, JCB, truck, trolley etc as required for the erection work.
- e) For the above, relevant clauses of “**Detailed specification of PEB inverter room/ PEB security room**” section of this specification shall be adopted.

8.7 Erection of electrical items of PEB rooms:

- a) Vendor shall carry out erection of the electrical items such as lighting fixtures, fans, exhaust fans, sockets, switchboards, LDBs, wiring etc as per the BHEL/GACL approved drawings / BoM.
- b) Vendor shall deploy qualified/competent team at site to carry out the above erection activities.
- c) All necessary labour, tools & tackles, measuring instruments, machinery shall be in vendor scope of supply. This shall include spanner sets, drilling machines, welding machines, hydra, JCB, truck, trolley etc as required for the erection work.
- d) For the above, relevant clauses of “**Detailed specification of PEB inverter room/ PEB security room**” section of this specification shall be adopted.

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9.0 Detailed specification of PEB rooms:

9.1 PEB inverter room / control room / security room / watchman cabin

The Inverter room / control room / Security room / watchman cabin shall be made of Pre-Engineered Buildings (PEB). The PEB shall be made of structural steel construction with double skinned metal roofing and wall cladding of approved profile. It shall be designed, manufactured, supplied and erected by the bidder/PEB agency. PEB shall be complete with painting, metal facia, metal gutter, rain water down comers, sun-shades, openings, etc., along with associated structural steel, cladding and roofing work insulation, Trims & Flashings. Each item of PEB like panels, masonry, plastering, flooring, foundation, fittings etc. shall be suitable or complete life of solar plant. The construction methodology for PEB shall also be submitted for GACL approval before start of works.

The layout of Inverter room / Security room shall be designed so as to divert the heat generated from each inverter outside the room. The inverter room / security room shall be designed for a life of 25 years. The successful bidder shall have to get the structural design done as per the prevailing Indian standard codes and International Standard. **The structural design of inverter room of each type shall have to be proof checked by any IIT / NIT and subsequently submitted to GACL for approval before actual starts of the work.**

The PEB shall have robust water tightness at all joints and connections. The building shall have a high class durability and performance during the adverse weather conditions.

9.2 Structure and material specification

The PEB inverter room / security room shall have a steel frame primary structural members. Primary members fabricated from plates shall conform to IS2062 min Grade E250 Quality BR/ ASTM A572-12 Grade 50 with minimum yield strength of 345 MPa. Steel shall be semi-killed/killed. Minimum thickness of steel plates shall be 4 mm. Hot rolled primary structural members and Rod/Angle bracing shall conform to IS2062 Grade E250 Quality A. Secondary members for Purlins and Girts shall conform to the specification of IS 811 or ASTM A1003-12 made from steel sheets conforming to ASTM A1011-12b Grade 50 having a minimum yield strength of 345 MPa. The minimum thickness of secondary members shall be 3.15 mm. All other miscellaneous secondary members shall have minimum yield strength of 250 MPa.

Insulated wall cladding or roofing shall consist of double skin metal cladding with Poly Urethane Foam (PUF). PUF must be made of continuous method PU foam and must be CFC free, self-extinguishing, fire retardant type with density 40 +/-2 kg/m³ and thermal conductivity 0.019-2.2 W/(m.K) at 10°C. The PUF panels shall be a factory made item ready for installation at site.

9.3 Fasteners & Connections:

Special coated self-drilling screws/fastener shall be used conforming to class 3 as per AS: 3566.1 and AS: 3566.2. Steel bolts, nuts and washers complying with AS 1112:2000. High Strength Bolts for Primary Connections IS: 1367 (Part III) Gr. 8.8 / ASTM A325. Bolts for Secondary Connection IS: 1367 (Part III) Gr. 4.6 / ASTM A307. Anchor/foundation Bolts shall conform to IS: 5624 and relevant IS code.

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9.4 Roof and Wall cladding:

PUF panels shall be made of troughed permanently colour coated metal sheets of steel for roofing and side cladding (internal and external) shall conform to the requirements of Table-1 and IS: 513 for Hot-dip Zinc coated or Al/Zn coated sheets. The insulation material thickness and details shall be as specified at relevant para in the specification.

PUF insulated panels Metal Sheet for Roofing and side cladding consist of external sheet as troughed permanently colour coated sheet & internal sheet as plain permanently colour coated sheet.

Chemical composition of Troughed permanently colour metal sheet for roofing and side cladding shall conform to the provisions of same reference code to which the mechanical properties conform to.

Plain permanently colour coated steel metal sheet for ridge and hips, flashing, trimming, closure for vertical and horizontal joints, capping etc. shall conform to the same requirements as those of troughed permanently colour coated metal sheet for roof and side cladding.

The maximum spacing of the fastener shall be 390 mm c/c along the length of purlins / runners. However exact spacing shall be as per the design done by the bidder of the fastener considering the wind load, self-load and other associated load. Minimum diameter of the fastener shall be 5.5 mm and at least 3 nos. of fastener shall be used per sheet.

Fillers blocks as a trough filler shall be used to seal cavities formed between the profiled sheet and the support or flashing. The fillers blocks shall be manufactured from black synthetic rubber or any other material approved by engineer.

9.5 Roof Insulation and type:

Both metal sheets shall have an under insulation of minimum 70 mm thick PUF with density 40 +/- kg/m³ and thermal conductivity 0.019-2.2 W/(m.K) at 10°C with gutters and down take pipes along with Flashing & Top cap of required size and colour complete with all necessary hardware complete. Roof shall be projected at-least 300 mm from the wall.

Stiffening ribs / subtle fluting for effective water shedding and special male/female ends with full return legs on side laps for purlin support and anti-capillary flute in side lap.

Both upper and lower sheets shall be separated through spacers and fastened through zinc /zinc-tin coated self-drilling screws. The fastener size shall be calculated as per the design or manufacturers recommendations.

Bidder may also alternatively make the PEB roofing with composite slab (RCC slab with permanent formwork). The composite slab scheme, design and drawings shall be subject to approval from GACL before start of work.

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9.6 Wall Insulation:

All voids of external and internal metal walls shall have an under insulation of minimum 60 mm thick PUF with density 40 +/- kg/m³ and thermal conductivity 0.019-2.2 W/(m.K) at 10°C with proper supports etc. as approved.

Both the walls should be separated by spacers system made up of cold formed steel bars and fastened through zinc /zinc-tin coated self-drilling screws.

The external wall of Inverter room / security room facing the transformer area shall be as per IS: 1646 - Code of practice for fire safety of buildings (general): electrical installations.

9.7 Doors Frames:

Door frames shall be of T-iron frame of mild steel Tee-sections as per DSR-2013 item no 10.13. All doors shall be provided necessary fittings like hinges, handles, mortice locks, tower bolts, stopper, hydraulic door closer, etc. of CP brass complete.

Black powder coated aluminium doors shall be with extruded built up standard tubular sections, appropriate Z sections and other sections of approved make conforming to IS: 733 and IS: 1285, fixed to Pre-Engineered structure including necessary filling up of gaps at junctions with required PVC/neoprene felt etc. including hinges / pivots and double action hydraulic floor spring of approved brand and manufacture IS: 6315 marked, lock, handle and all necessary fittings as detailed in tender drawing or submitted by bidder in shop drawing and approved by GACL

The door entrance shall include Mild Steel single leaf door. The structural steel shall conform to IS: 7452 and IS: 2062. The holdfasts shall be made from steel flats (50 mm and 5 mm thick). The fixtures, fastenings and door latch are to be made with same materials.

9.8 Windows Frame:

Aluminium black powder coated section, frame shall be of 92x31 mm, minimum 16G thick as per approved design. Tinted glass and aluminium grill shall be provided.

9.9 Ventilators:

Aluminium black powder coated frame of minimum size 62x25 mm and 16G thick as per approved design. Ventilators/duct shall be provided with bird guard. Size of opening at wall for ducts shall be as per PCU manufacture and min 18 gauge GI sheet. Ducts shall be supported with suitable means, as approved during detail engineering.

All accessible ventilators and windows of all buildings shall be provided with min. 4mm thick float glass, tinted for preventing solar radiations. Suitable sunshades made out of approved colour sheet will be provided to all external windows and door. The minimum projection for the sunshades will be 450 mm and 300mm wider than the width of the opening.

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9.10 Rolling shutter:

Rolling shutter (Hand operated) shall be fabricated from 18 gauge steel and machine rolled with 75 mm rolling centres with effective bridge depth of 12 mm lath sections, interlocked with each other and ends locked with malleable cast iron clips to IS:2108 and shall be designed to withstand a wind load without excessive deflection. Metal rolling shutters and rolling grills as IS: 6248.

9.11 Paint and Coating:

Steel shall be colour coated with total coating thickness of 25 microns (nominal) dry film thickness (DFT) comprising of silicon modified polyester (SMP with silicon content of 30% to 50 %) paint or Super Durable Polyester (XRW) paint of 20 microns (nominal) on one side (exposed face) on 5 micron (nominal) primer coat and 10 microns (nominal) SMP or Super Durable Polyester paint over 5 micron (nominal) primer coat on other side. SMP and polyester paints system shall conform to Product type 4 as per AS/ANZ 2728.

The structural steel shall be hot-dipped galvanized, conform to IS: 4759 or relevant Indian standard

9.12 Lighting:

The building shall be provided with electric light to achieve average illumination level of 400 Lux. However building should be designed to utilize maximum natural light during the day.

All Compact Florescent Lamp fixtures shall be indoor type & pre-wired comprising of Lamp(s) with lamp holder(s) and Electronic Ballast(s) with metal reflector(s). The lamp fitting shall be covered by Glass or Perspex material. The PF of the electronic ballast shall be more than 0.9. The fixtures should be of reputed make like Philips/Bajaj/Crompton/G.E. etc., however, vendor shall submit the sample of lighting fixtures to BHEL for approval before supply & installation. Alternatively, LEDS may be used after submitting detailed descriptions illumination computations and Test certificates from reputed test centers.

9.13 Plinth Protection:

1000mm wide plinth protection 50 mm thick of cement concrete 1:3:6 (1cement : 3 coarse sand : 6 graded stone aggregate 20 mm nominal size) over 75 mm bed of dry brick ballast 40 mm nominal size well rammed and consolidated and grouted with fine sand including finishing the top smooth, shall be provided around the Pre-Engineered Structure

9.14 Foundation and platform with cable trench

Required foundation shall be designed by the vendor to safely take the equipment load as per the details given below and drawings shall be furnished for BHEL approval and all the civil works is in vendor scope.

- each Inverter Room -15 Tons
- Control Room-10 Tons
- Each Security Room-1 Ton

Highest weight of individual equipment is 3 Ton. Design shall be done for highest weight

Cable trench details shall be furnished during detailed engineering.

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9.15 Floor Finish

Flooring, including preparation of surface, cleaning etc shall be of cement concrete flooring as per IS 2571-1970 with ironite hardener. The building floor shall be atleast 50cm above the ground level.

- Store area: Cement flooring in concrete mix (1:2:4) using 10 mm aggregates as per IS 2571: 1970.
- Control Room cum supervisor room: Heavy Duty Vitrified tiles 10 mm thickness.
- SCADA Room: Heavy Duty Vitrified tiles 10 mm thickness.
- Equipment room: Heavy Duty Vitrified tiles 10 mm thickness.
- Battery Room: Acid/ Alkali resistant tiles of suitable thickness.
- Toilets: Ceramic tiles 8 mm thickness.
- Lobby: Vitrified Tiles 10 mm thickness.

9.16 Provision for Ducting arrangement

Ducting, exhaust fans etc. are required for extracting hot air from inverters which is required for healthy air circulation. Drawings for ducting arrangement shall be provided by BHEL during detailed engineering. Necessary provisions for placing of ducting arrangement shall be provided by the vendor. Supply of ducting materials shall be the in the scope of BHEL.

9.17 Point wiring

This shall include all works necessary for wiring to the point of utilization of the load to be applied for the wiring of light, fan or plug point etc.,

Point wiring shall include all works necessary in complete wiring of a Piano Type switch Circuit of any length from the tapping point from the Junction Box to the following, via the switch.

Ceiling Rose in case of all lighting & fan points.

Socket Outlet in case of sockets.

The followings shall be deemed to be included in the point wiring:

Switch & ceiling rose as required, Bushed Conduit or Porcelain tubing or PVC pipe where cable through etc., Earth wire for three pin socket point to the common earth station, all metal blocks, board & boxes sunk type including those required for mounting fan regulator bus excluding those under the DB and control switch, All fixing accessories such as nails, screws, plugs etc., as required., Joint for junction Boxes & connecting the same as required.

Indoor point wiring will be casing capping type with 1.1 kV PVC insulated 2 x 1.5mm² (min. size) copper wire including Wooden switch Board covered with Bakelite Cover, Ceiling Rose supply of wire, casing-capping, appropriate size bare copper earth wire, screw & and other accessories etc., as such where required. The work includes supply of all requisite materials. Standard ISI marked Anchor or equivalent good make materials are to be used for point wiring.

PVC casing capping and all accessories shall be of Heavy gauge Polyphone with all accessories and white in colour. Conduit / buses through wall shall be flash after cutting wall and including mending well the damages. Casing capping on wall shall be fixed with suitable screws at an interval not less than 300mm.

All out door point wiring will be with hard PVC conduits of approved make. Suitable hard PVC bends, saddles, Tees etc., are to be used for outdoor wiring

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9.18 Plumbing and sanitary items

Vendor shall supply and install required plumbing and sanitary items of reputed make for toilets. Toilets shall be provided in Control room. Construction of soak pits and septic tanks as required shall be in vendor's scope. Inspection chambers for letting out sewage and sullage are to be constructed. Septic tank to be provided with RCC lid with ventilation pipe. PVC pipes of 160mm dia for transmission of sewage to be used.

The toilet room in Control room shall have separate partitions for gents and ladies, each shall contain a Western commode (W.C) and wash basin with mirror. The layout shall be as shown in the control room layout drawing enclosed.

For toilets and pantry, the water required shall be supplied from an overhead tank of min. 1000 litres capacity which shall be mounted on the roof of pre-fab building (wherever toilets are considered). Roof shall be designed take the load of overhead tank. Supply of overhead tanks (sintex or reputed make as approved by BHEL) shall be in the scope of vendor. Required piping and pump connection from and to tank shall be in vendor's scope.

9.19 Design Parameters and Design Loads:

The structure shall be designed for loads and load combination as per Indian Standards (latest revisions) such as IS: 875, IS: 1893, IS: 800, IS: 456 etc.

Dead Load: Self Weight of Structure including Purlins, Sheeting, Girts, Bracings, weight of turbo ventilators to be added as Dead load etc.

Imposed Load (Live Loads) Live loads shall be as per IS - 875. For sloped roofs up to 10 deg. it shall be 0.75 KN/M².

Wind Load: The basic wind speed of the site is taken as 150 km/hr. Design wind load co-efficient shall be as per IS: 875-III.

Earthquake Load: All PEB structures shall be designed for Seismic forces. Vertical Deflection and Horizontal Sway Limits:

- Limiting Deflection: The limiting permissible vertical deflection for structural steel members shall be as per IS 800 2007.
- The limiting permissible horizontal deflection for as per IS 800 2007 code where 'h' is height of building at eaves.

9.20 Descriptions of PEB Structures:

Primary Members: Primary structural framing shall include the transverse rigid frames, columns, corner columns, end wall wind columns, beams, truss member, base plate.

Secondary Members: Secondary structural framing shall include the purlins, girts, eave struts, bracing, flange bracing, base angles, clips, flashings and other miscellaneous structural parts. Suitable wind bracings sag rods to be reckoned while designing the structure.

Sealant: Sealant used for cladding shall be butyl based, two parts poly sulphide or equivalent approved, non-staining material and be flexible enough not to interface with fit of the sheets.

Closures: Solid or closed cell closures matching the profiles of the panel shall be installed along the eaves, rake and other locations.

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Flashing and Trim: Flashing and / or trim shall be furnished at the rake, corners, eaves, and framed openings and wherever necessary to provide weather tightness and finished appearance. Colour shall be matching with the colour of wall. Material shall be 26 gauge thick conforming to the physical specifications of sheeting.

Gutters and Downcomers: Gutters shall be fabricated out of same metal sheet. Material shall be same as that of sheeting. Down comers shall be of galvanized steel pipes or PVC designed to ensure proper roof drainage system.

Group	Grade/ Reference code	Yield strength (min) MPa	Tensile strength (min) MPa	Coating class designation	BMT (mm)	+ve tolerance (mm)	Upper limit of BMT	-ve tolerance (mm)	Lower limit of BMT (mm)
I	G250/ AS1397	250	320	Z275	0.6	0.04	0.64	-0.04	0.56
	SS255/ ASTM A653M	255	360						
	S250GD/ EN10326	250	330						
II	G350/ AS1397	350	420	AZ150	0.5	0.04	0.54	-0.04	0.46
	SS340 Class 4/ ASTM A792M	340	410						
	S350GD/ EN10326	350	420						

NOTE: Minimum elongation % shall be as per relevant Standard and Code.

All steel materials supplied by the Agency shall be in a sound condition, of recent manufacture, free from defects, loose mill scale, slag intrusions, laminations, pitting, flaky, rust, etc. and be of full weight and thickness specified.

10.0 General Specification of Civil works

1. Foundation bed concrete for leveling course to be laid in cement concrete 1:4:8 for a depth of 15 Cms.
2. Size stone masonry in cement mortar 1:6 for foundation as per IS specification
3. Size stone masonry in cement mortar 1:6 for basement and the size stones neatly dressed with quoins for a width of 50mm for all the corner stone's on both the edges.
4. Pointing of joints by racking to a depth of 20mm and filled with cement mortar 1:3.
5. Plinth concrete in 1:1.5:3 to be laid as per the approved design drawing.
6. RCC 1:1.5:3 for columns, beams, Lintels to be laid with steel frame work and compacted with needle vibrator.
7. Table molded bricks with minimum compressive strength of 50 ksc are to be used for burnt brick masonry in CM 1:6. For every 5000 bricks test reports are to be submitted for its suitability

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8. 115 mm thick brick wall for partition are to be constructed with CM 1:4 by providing 2 Nos of 6 mm tor steel tied with binders at 30 Cms C/C and extended in main walls.
9. Door frames with Honne / Nandi wood of size 105 X 65 mm with cills wherever necessary and as per the directions of the Engineer in charge.
10. 40mm thick water proof flush doors with one side teak wood veneering as approved by BHEL.
11. Glazed aluminum doors of standard gauge, covered with glass of 5.5mm thick with aluminum handles, lever, locks, chrome plated floor type door latches, heavy duty double action floor springs as per the approved drawing.
12. For bath and toilets standard make PVC door frames with PVC shutters to be provided.
13. Three way track glazed aluminum windows with ventilators as per standard with necessary guard bars as per the approved drawing.
14. The fixtures for doors, windows and ventilator are to be approved by the Engineer.
15. External Plastering for a thickness of 18mm with CM 1:6 with cement finish.
16. Parapet wall for a height of 85 Cm with 5 Cm thick coping concrete with intermediate brick pillars as per the approved drawings.
17. Granite slab flooring for accommodations wherever necessary as approved by BHEL Engineer.
18. Acid proof flooring tiles for the accommodations wherever necessary as approved by BHEL Engineer.
19. Anti skid ceramic tiles for flooring in bath and toilets and glazed tiles dadoing for a height up to linter level for bath rooms and 0.90 Mtrs. Height blazed tiles dadoing in toilets.
20. Flagging Concrete : To be laid for a width of 0.90 Mts from the basement in Cc 1:4:8 and plastered with CM 1:4.
21. Painting: Internal painting with 2 coats of oil bound distemper over a primer coat. External painting to be carried out with 2 coats APEX paint over a coat of under coat. Doors, Window, collapsible gate, rolling shutters, grill works and entrance gates are to be painted with enamel paint over a coat of primer
22. Anti termite treatment for foundation and all round the structure.

11.0 General construction requirements

11.1 Structural Steel

All structural steel design shall be carried out as per IS 800. Structural steel shall conform to IS 2062, Pipe shall be as per medium/high grade of IS 1161, checkered plates shall conform to 3502 and Hollow steel sections for structural use shall conform to IS: 4923.

11.2 Grouting

Cement mortar (1:2) grout with non-shrink additives shall be used for grouting below base plate of column. The grout shall be high strength grout having a minimum characteristic compressive strength of min 30 N/mm² at 28 days. The grout shall be chloride-free, cement based, free flowing, non-metallic grout.

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11.3 List of applicable Indian Standards

Indian codes, and/or standards shall govern, in all the cases wherever they are available. In case of a conflict between such codes and/or standards and the specifications, the stringent provisions shall govern. Such codes and/or standard referred to shall mean the latest revision, amendments/changes adopted and published by the relevant agencies. In case of any further conflict in this matter the same shall be referred to the Engineer-in-charge, whose decision shall be final and binding.

Other internationally acceptable standards shall be accepted, only if, no Indian Standards are existing. However, other standards also will be accepted if the Contractor establishes that the works are meeting the requirements of Indian Standards also. A brief list of Indian Standards applicable to these works is as below:

General

IS: 875-I	Code of Practice for Design Dead Loads for Building and Structures
IS: 875-II	Code of Practice for Design Imposed Loads for Building and Structures
IS: 875-III	Code of practice for design loads (other than earthquake) for buildings and structures.
IS: 1893	Criteria for earthquake resistant design of structures.
IS: 4326	Code of Practice for earthquake resistant design and construction of buildings

Steel structures

IS:800	Code of practice for use of structural steel in general building construction
IS:801	Code of practice for use of cold-formed light gauge steel structure members
IS:802	Code of practice for use of structural steel in overhead transmission line towers
IS:806	Code of practice for use of steel tubes in general building construction
IS:808	Dimensions for hot rolled steel beam, column channel and angle section
IS:811	Specification for cold formed light gauge structural steel sections
IS:813	Scheme of symbols for welding
IS:1079	Hot rolled carbon steel sheet and strip – specification
IS:2062	Hot rolled medium and high tensile structural steel – specification
IS:4923	Hollow steel sections for structural use.
IS:1161	Steel tubes for structural purpose
IS:2721	Galvanized steel chain link fence fabric – specification

Painting and coating

IS:4736	Hot dip zinc coatings on mild steel tubes
IS:4759	Hot dip zinc coatings on structural steel and other allied products – specification
IS:1868	Anodic coatings on aluminium and its alloys
IS:2395-I	Paintings of concrete, Masonry and plaster surfaces – code of operations and workmanship
IS:2395-II	Code of practice for painting concrete, masonry and plaster surfaces: schedule

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IS:1477-I	Code of practice for painting of ferrous metals in buildings: pre-treatment
IS:1477-II	Code of practice for painting of ferrous metals in buildings: painting

Miscellaneous

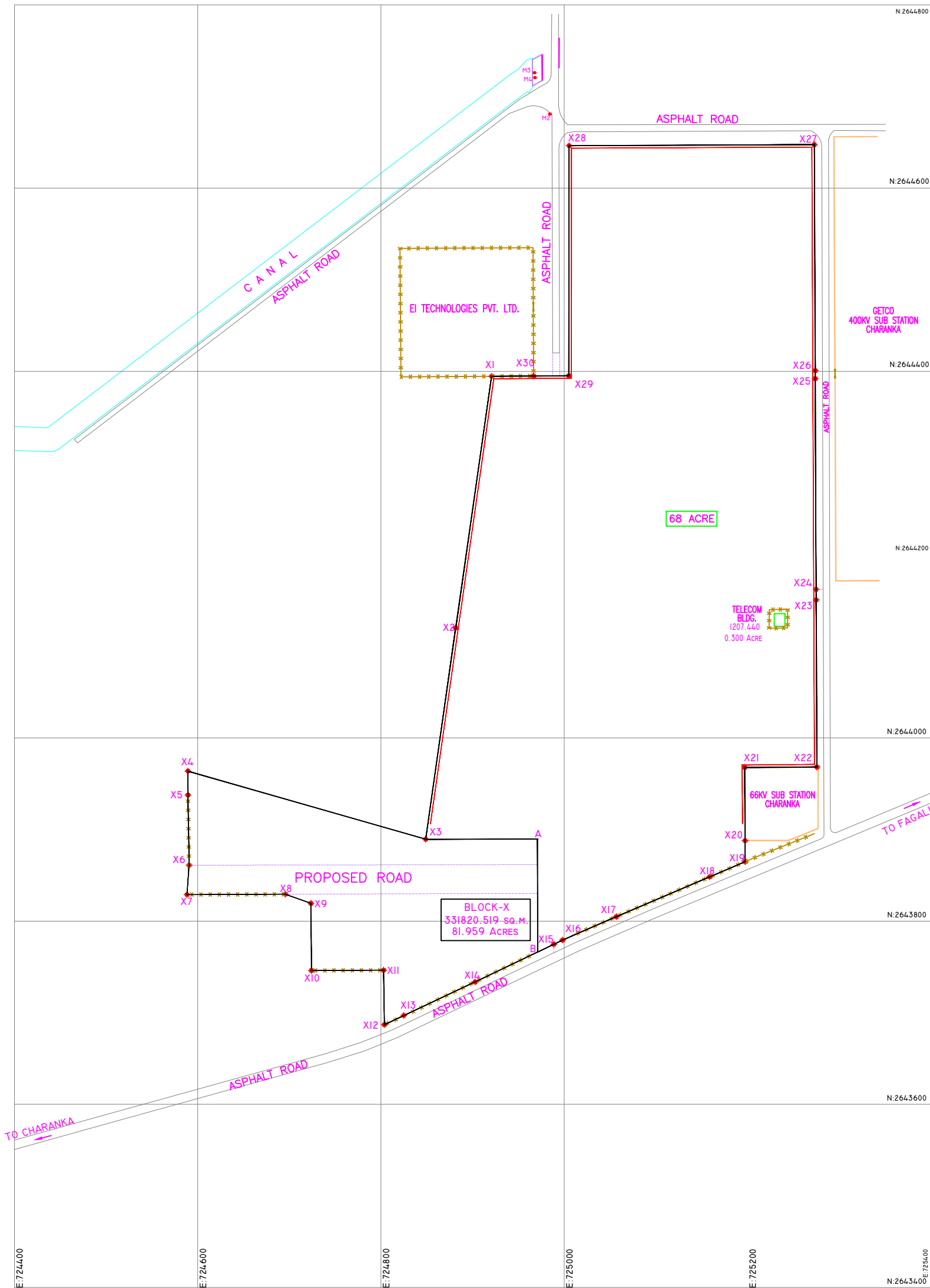
IS:19805	Code of practice for structural use of un-reinforced masonry
IS:3067	Code of practice for general design details and preparatory works for damp/water proofing
SP:6	Handbook for structural engineers (all parts)
SP:7	National Building Code of India
SP:16	Design Aids for reinforced concrete to IS:456
SP:20	Handbook on masonry design and construction
SP:22	Explanatory handbook on codes for earthquake engineering
SP:24	Explanatory handbook on Indian Standard Code of Practice for plain and reinforced concrete
SP:25	Handbook on causes and prevention of cracks in buildings
SP:32	Handbook on functional requirements of industrial buildings
SP:34	Handbook of concrete reinforcement & detailing

12.0 General conditions applicable during supply, installation and commissioning phase

12.1	Vendor shall organize construction power supply on their own. Accordingly, if required, DG sets of suitable capacity shall be deployed by the vendor for construction works.
12.2	Similarly, water required for construction works shall be organized by vendor.
12.3	All machinery such as cranes, hydra, JCBs, forklifts, transport trucks, trolleys, concrete mixers, Ajax machines etc necessary for movement and installation of materials shall be organized by the vendor.
12.4	All necessary tools and tackles such as screw driver set, power screw drivers, cutting pliers, nose pliers, spanner sets, adjustable spanners, hole saw cutter set, bending tools, torque wrenches, hack saw blades, pipe wrenches, flat / round files, drilling machines, welding machines, steel bar bending tools / templates for RCC works, spade, shovel, hammer etc shall be organized by the vendor.
12.5	All necessary measuring instruments such as measuring tapes, digital multimeters, electrical testers, meggers etc shall be organized by the vendor.
12.6	Vendor shall make their own arrangements for necessary food, drinking water and accommodation for their labour and employees posted at the site. Similarly, food and drinking water required at the site, during the construction operations, shall also be in scope of vendor.
12.7	Vendor shall organize all necessary steps to meet statutory requirements such as labour license, PF, ESI, insurance etc and also ensure compliance with relevant acts such as minimum wages act, income tax act, employee insurance act etc for their labour deployed at site.
12.8	Vendor shall organize activities such as receipt of all supply items of PEB rooms at site, unloading from the trucks, safe storage at site, movement from storage location to point of construction etc. Vendor shall

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	deploy their own security watch and ward to safeguard their supply items from pilferage. Insurance for the supplied items until the completion of erection of all the PEB rooms shall be the responsibility of vendor.
12.9	Vendor shall maintain updated labour register, with name, age, qualification, salary, attendance details etc at the site.
12.10	Vendor shall use danger boards, wherever required, to ensure safety of the persons during the work at site.
12.11	Vendor shall adhere to all necessary safety norms such as use of helmet, goggles, hand gloves, gumboots, aprons etc. It is the ultimate responsibility of the vendor in all respect to prevent accidents at the site and safeguard their labour from accidents.
12.12	Vendor shall, at the completion of every work, clear off the debris, which resulted out of the work.
12.13	Vendor shall carry out the work without causing inconvenience to other contract groups at the site. In case of conflicts with other groups, vendor shall ensure that the matter is resolved at once amicably so that the progress of work is not affected.
12.14	Any damages on the other buildings, structures etc of the site, if attributable to the acts of labour / employees of vendor, shall be rectified and made good by the vendor at their own cost.
12.15	No child labour shall be employed for execution of the present contract.
12.16	Any miscellaneous materials, which are found essential for technical completion of the contract but not mentioned explicitly in this specification, shall be deemed to be included in the specification. Accordingly, such materials shall be included by the vendor as part of the offer.
12.17	BHEL / GACL shall witness routine / acceptance tests performed at manufacturer works for the items supplied by vendor. Vendor shall accordingly provide inspection call to BHEL with submission of quality assurance plan in advance. For the items bought out from dealers, test certificates, as per relevant IS / IEC standards, as issued by manufacturer shall be submitted to BHEL. However, prior approval shall be obtained from BHEL/GACL for procurement of the item from dealers.
12.18	Field Quality Plan / Quality control system: Vendor shall make arrangements for testing of all construction materials in accordance with FQP (Field quality control plan) as approved by BHEL/GACL. If required for this purpose, an exclusive testing laboratory shall be established at site. Vendor shall deploy a well experienced quality control engineer to monitor all QC activities at site as per approved FQP.
12.19	Any deviations during construction shall be discussed with BHEL / GACL site engineers and implementation shall be taken up only after approval from BHEL / GACL.
12.20	Vendor shall submit periodic status report, on daily as well as weekly consolidated basis, to BHEL on the progress of the contract.



NORTH

SCALE

NOTE :

1). THE GRID IS CONSIDERED AS BASE POINTS M3 & M4 AS UTM (UNIVERSAL TRAVERSE MERCATOR) GRID WHICH ARE GIVEN BY THE CLIENT.

2). THE AREA BOUNDE BY BOUNDARY CORNERS X1,X2,X3.....X30, X1 FOR BLOCK-X.....81.959 Acres, 331820.519 sq.m. DEDUCT TELECOM BLDG. & ROAD..... 0.300 Acres, 1207.440 sq.m. NET AREA.....81.659 Acres, 330613.079 sq.m.

3). THE AREA BOUNDE BY BOUNDARY CORNERS X1, X2, X3, A, B, X15, X16.....X30 = 68 ACRE.

LEGEND :

GRID

STATION POINT

CO-ORDINATES

X-BLOCK BOUNDARY

68 ACRE BOUNDARY

LIST OF BOUNDARY CORNERS (BLOCK-X)

BOUNDARY CORNER	CO-ORDINATES		DISTANCE IN METRE.	INCLUDED ANGLE
	N :	E :		
X1	2644394.621	724920.818	277.518	98-29-05
X2	2644119.890	724881.586	232.860	179-58-23
X3	2643889.352	724848.775	269.941	277-53-12
X4	2643963.274	724589.274	26.122	73-53-15
X5	2643937.577	724589.331	26.122	179-11-05
X6	2643861.012	724590.590	76.576	185-07-11
X7	2643828.937	724588.247	32.160	85-37-14
X8	2643829.315	724695.719	107.473	199-55-32
X9	2643819.326	724723.578	29.596	249-49-29
X10	2643746.065	724724.155	73.263	90-12-36
X11	2643746.397	724802.950	78.795	269-34-38
X12	2643686.958	724803.638	59.443	65-25-54
X13	2643696.985	724824.873	23.475	180-00-00
X14	2643733.663	724902.747	86.086	179-43-02
X15	2643774.656	724988.635	95.170	180-03-44
X16	2643779.256	724998.297	10.700	181-55-44
X17	2643804.783	725056.939	63.957	180-24-35
X18	2643848.236	725158.746	110.731	179-59-57
X19	2643864.786	725197.518	42.156	112-50-58
X20	2643887.809	725197.412	23.023	180-00-00
X21	2643967.751	725197.041	79.943	269-58-34
X22	2643968.149	725275.847	78.806	90-03-10
X23	2644150.599	725275.094	182.451	179-23-32
X24	2644162.132	725274.960	11.535	180-25-22
X25	2644392.055	725273.992	229.925	180-37-05
X26	2644400.847	725274.049	8.793	179-23-32
X27	2644647.438	725273.055	246.593	89-59-14
X28	2644646.300	725005.364	267.694	90-18-20
X29	2644395.147	725005.092	251.153	269-34-49
X30	2644394.907	724966.602	38.491	180-00-00
X1	2644394.621	724920.818	45.784	58-29-05
X3	2643889.352	724848.775	122.152	81-53-29
A	2643889.371	724970.927	123.157	270-00-00
B	2643766.214	724970.945		

DEMARCATION SURVEY

CLIENT : GUJARAT ALKALIES & CHEMICALS LIMITED
RANOLI, VADODARA

WORK : DEMARCATION SURVEY
AT CHARANKA, TALUKA RADHANPUR, PATAN

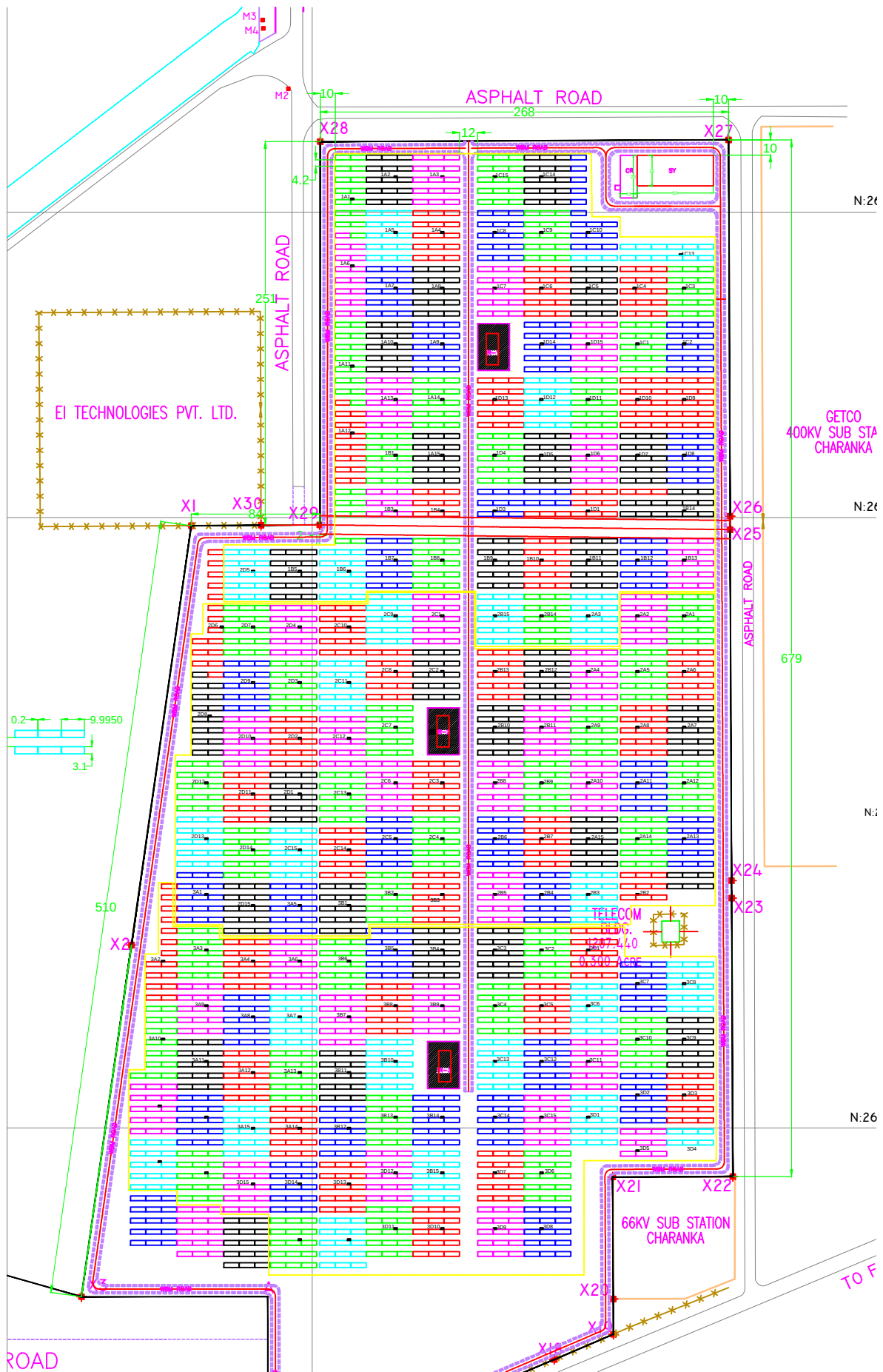
SCALE :- RF. 1 : 2000
1 CM. = 20 M.

DRG. NO.
GACL/CHARANKA/DEMARCATION/2017

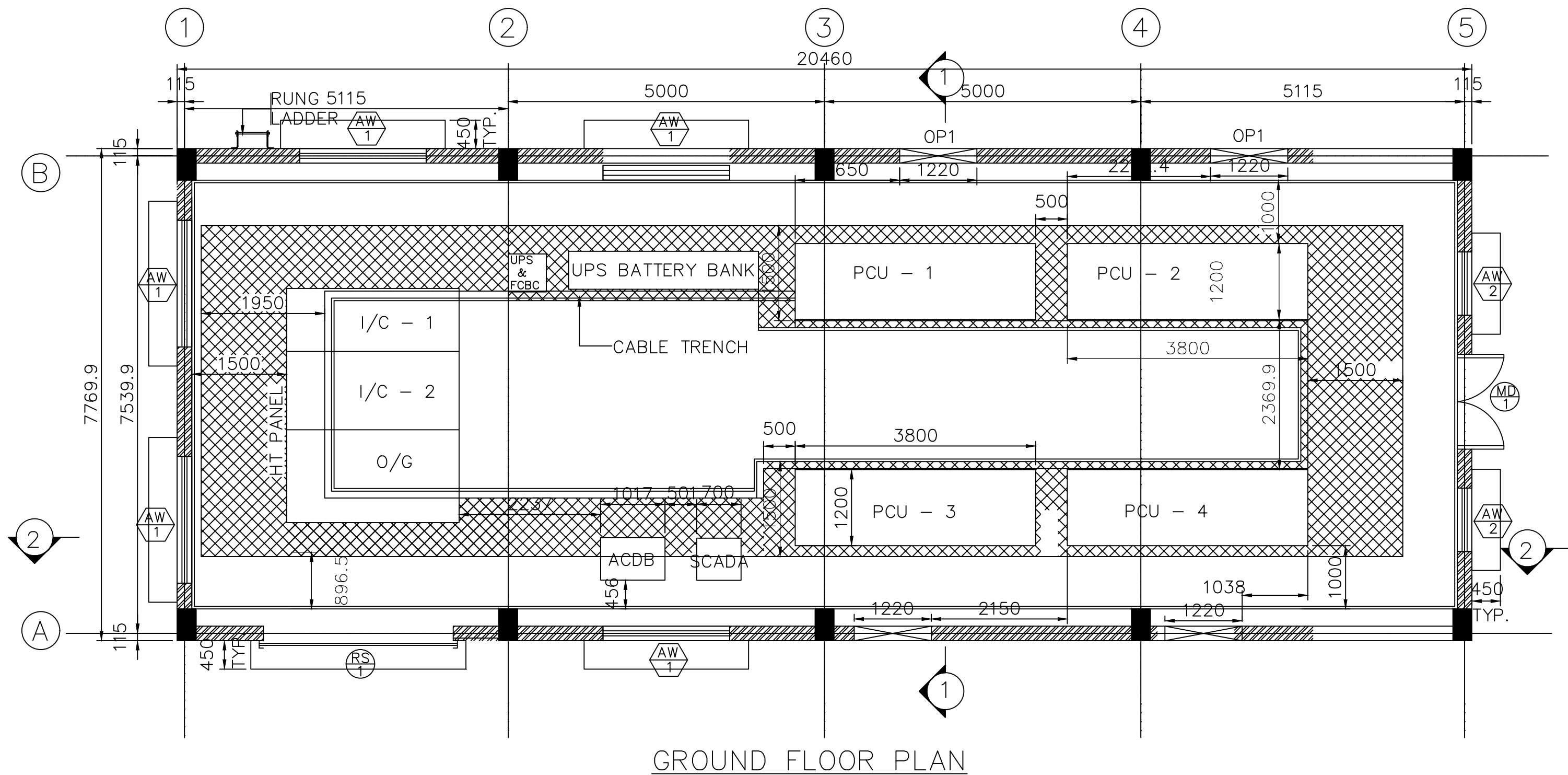
JUNE.2017

SURVEYED & PREPARED BY: CHETAN ENGINEERS
LAND & HYDROGRAPHIC SURVEYOR & MAPPER
10, Radhanagar, B/H. Harbhagar Water Tank,
Oshri Road, Vadodara - 390 007.
Ph. 2314171 Fax. 2338304
Email : chetan_ra@yahoo.com

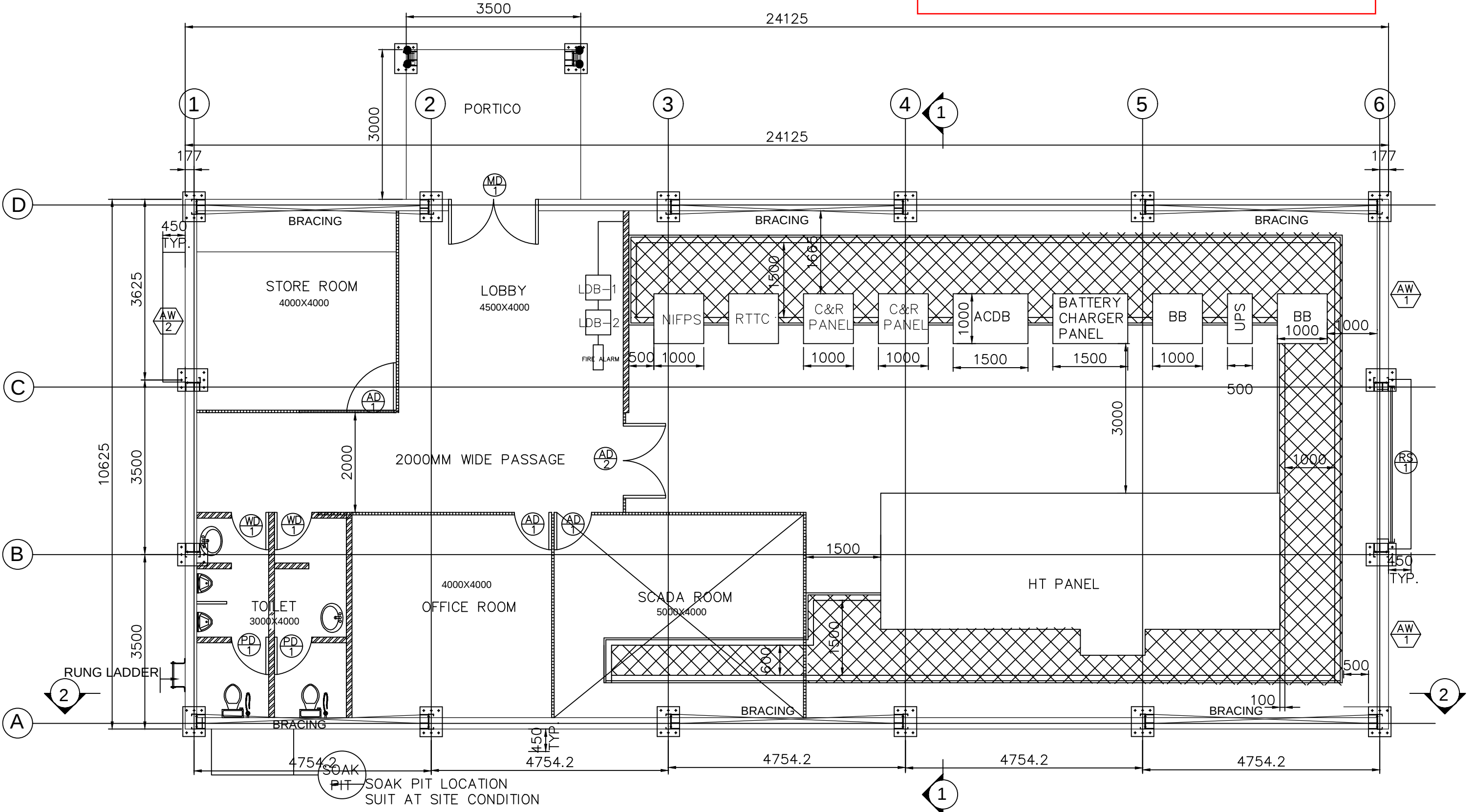
FOR CHETAN ENGINEERS,



Annexure - 3 : Inverter room layout

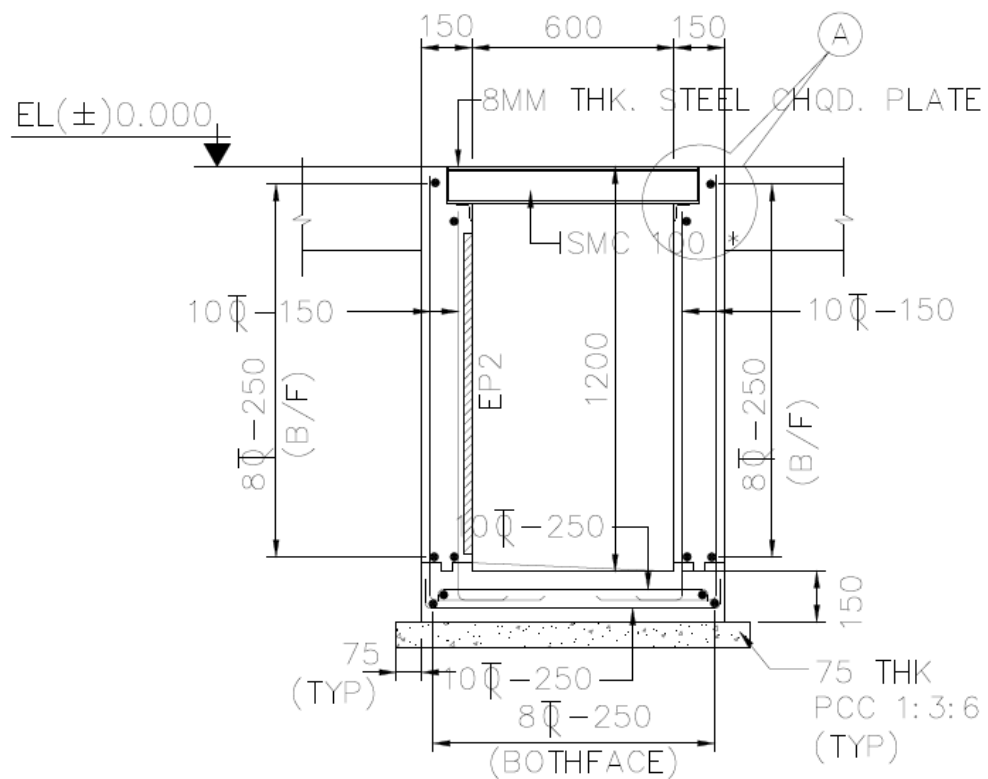
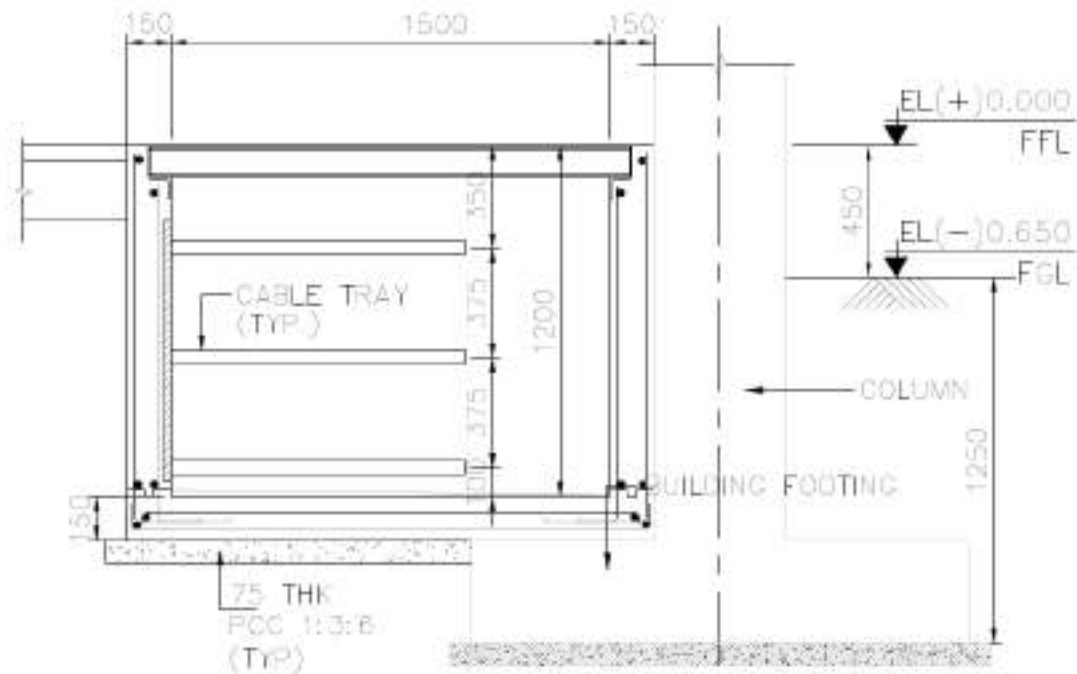


Annexure - 4 : Control room layout

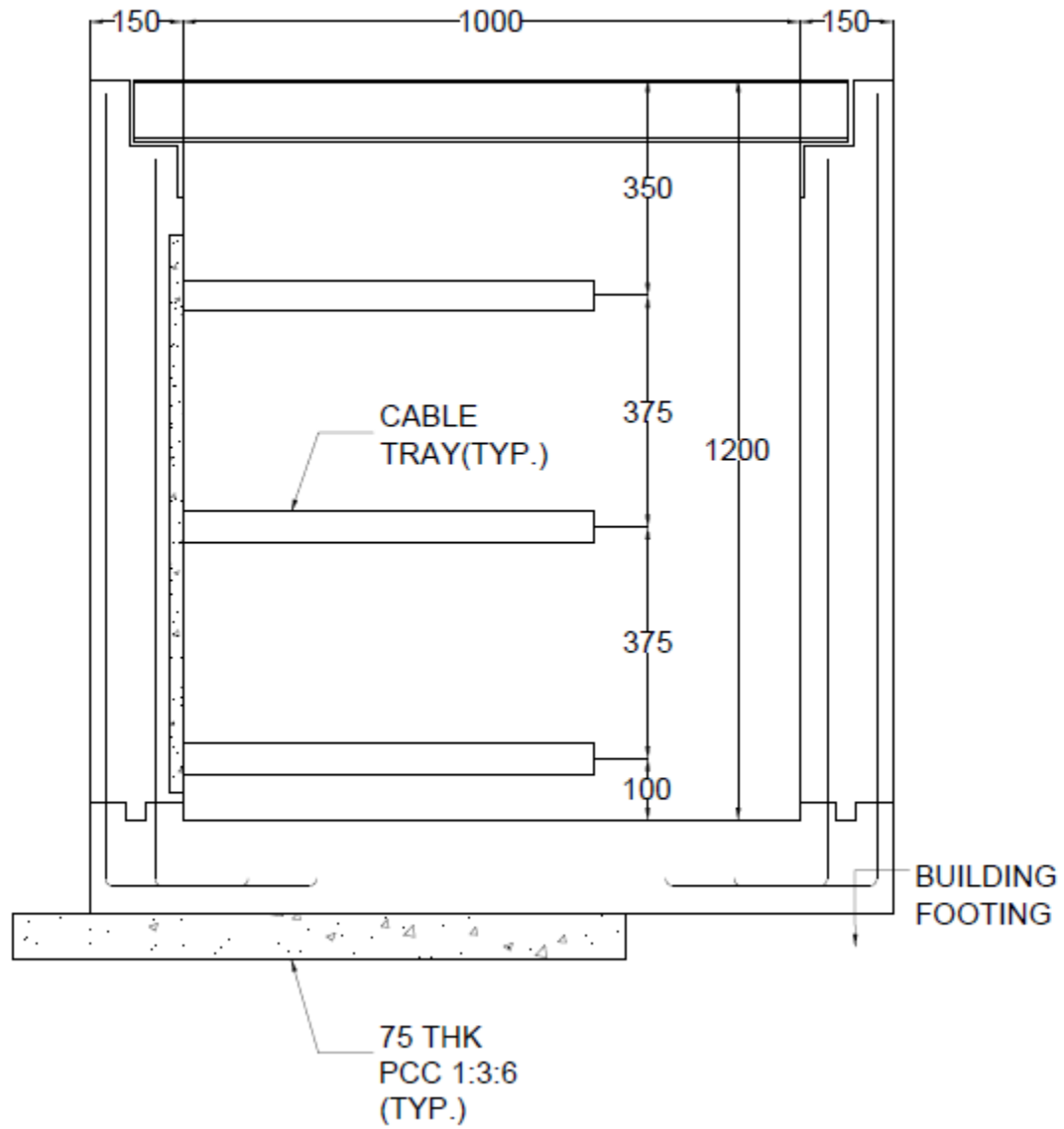


GROUND FLOOR PLAN

Typical cable trench views for Inverter room and Control room



(* TO BE PROVIDED BY ELECTRICAL VENDOR TO SUIT TO SITE CONDITION)



SPECIAL COMMERCIAL CONDITIONS OF CONTRACT (SCC) - for foreign vendors				
RFQ No. SPKSCP003 Dtd.19.07.2017 Due Date (Tech Bid): 02.08.2017				
Sl. No.	Terms	BHEL Term	Confirmation	Deviation/Remarks
1	Pre-Qualification Criteria (PQC)	(a) Vendor shall essentially be an OEM (Original Equipment Manufacturer) of PEB structures. Vendor shall along with technical bid, furnish the postal address of their factory/works where the structures are manufactured and also the details (names/phone) of contact persons. (b) Vendor should have supplied and installed PEB structures with PUF insulation (for wall cladding/roofing) for a minimum base area of 100 sqm per building and minimum cumulative base area of 700 sqm considering all PEB rooms supplied and installed. Vendor shall, along with technical bid, enclose copies of purchase orders/ completion certificate (during the past 3 years from the date of RFQ from their clients for same. Vendor shall also enclose supporting documents (PO copies, drawings etc) for supply of PUF insulation based PEB structures. (c) Vendor shall, along with technical bid, submit a duly-signed undertaking (in their company letter head) that they shall be willing to submit all necessary structural design calculations proof checked and endorsed by IIT/NIT, as per applicable clauses of the tender specification.	Complied	
2	Bidding	(a) Bid has to be submitted as Two Part – Techno Commercial Bid (Part-1) & Price Bid (Part-II). Bids shall be submitted through e-Procurement portal https://bheleps.buyjunction.in of M/s. Mjunction Services Limited.	Complied	
		(b) SCC & Annexure A1 to be submitted along with technical bid (Part-I) & Annexure A2 to be submitted along with Price bid (Part-II).	Complied	
		(c) Clause-wise compliance to BHEL Purchase specification along with all documents as called in Technical specification to be submitted along with technical bid (Part-1).	Complied	
3	Price basis:	Firm i.e., from the date of PO to completion of supply if I&C is not applicable. If I&C is in supplier's scope, then the prices shall remain firm till commissioning & handing-over of the complete system. (PVC clause not acceptable).	Complied	
4	Terms of Delivery:	CIF Seaport/ CIF Airport/ FCA Airport (Indicate name of Seaport/Airport)	Complied	
5	Delivery Period:	Supply : 8 (Eight) weeks from drawing approval. Drawing Submission : 1 (One) week from the date of Purchase Order. I&C : Within 4 (Four) weeks from supply	Acceptable / Not acceptable	
6	Payment Term:	(a) Supply: 1) 80% of the basic value (excluding I&C charges) will be paid with 45 days credit, against Sight draft, from the date of AWB/BOL on submission of complete set of documents as in PO. 2) 10% of basic supply value will be paid on completion of I&C against submission of supplementary invoice along with proof of completion of I&C along with I&C charges (if any). 3) Balance 10% (retention money) against submission of supplementary invoice along with PBG valid for Warranty Period+3 months Claim Period from BHEL Consortium Bank. (b) I&C: 100% on completion of I&C/Supervision and certification line item wise on pro-rata basis. Note : In exceptional cases, if vendor fails to submit PBG after supplies, vendors can also accept for the final 10% payment, payable after the warranty period + 3 months of claim period against supplementary invoice subject to the completion of commissioning (if applicable) as PBG is linked to Warranty period.	Acceptable / Not acceptable	
		(b) For any deviation in payment term, the offer will be liable for loading as per Clause G of ITB.	Acceptable / Not acceptable	
7	Evaluation of L1	Over all L1 of Supply + I&C on "FOR" basis to site will only be considered.	Complied	
8	Warranty :	Warranty for Supply : 18 months from supply, 12 months from I&C whichever is earlier. Warranty/Guarantee for Workmanship & I&C : 12 months from I&C.	Acceptable / Not acceptable	
9	Pre Shipment Inspection	(a) Pre Shipment Inspection will be carried out by BHEL/Customer for which test report shall be sent one week in advance.	Acceptable / Not acceptable	
		(b) Pre Shipment Inspection charges , if any, shall be considered while evaluating your offer to arrive at "Total Cost to BHEL". The charges for the same shall be informed to you before Price Bid Opening/Reverse Auction.	Acceptable / Not acceptable	

10	Penalty	(a) Supply: Penalty of 0.5% per week at the basic price of the good for undelivered quantity of supply portion, subject to a maximum of 10%. For Supply, Pre Shipment Inspection Call Letter Date (Receipt of test report) will be treated as delivery for purpose of penalty.	Acceptable / Not acceptable	
		(b) For any deviation in penalty term, the offer will be liable for loading as per Clause No. G, Point No.(b) of ITB.	Acceptable / Not acceptable	
11	PBG	PBG shall be furnished in the BHEL prescribed format.	Acceptable / Not acceptable	
12	Validity:	Quotation should remain valid for a period of 90 days from the due date.	Acceptable / Not acceptable	
13	Bank charges (If applicable):	(a) All Bank charges to seller's account	Acceptable / Not acceptable	
		(b) Deviation will be liable for loading as per Cl.G of ITB	Acceptable / Not acceptable	
14	Reverse Auction:	BHEL reserves the right to conduct Reverse auction.Procedure for the same will be informed by BHEL .	Acceptable / Not acceptable	
15	DUN No.	Please mention Dun & Bradstreet No.(DUN No.)		
16	Consignment Details	Weight and Dimension of consignment with packing.	Furnished / To be furnished	
17	Despatch Documents:	Despatch documents include Air Waybill/Bill of Lading, Invoice, Packing list, PSI letter copy and Warranty certificate.	Acceptable / Not acceptable	
		One copy of Invoice, Packing list and Air Way Bill /Bill of Lading shall be faxed/emailed immediately after despatch. Also one copy of packing list to be kept inside each box for easy identification of material at site.		
18	Other terms & conditions	For any other Terms and Conditions, kindly refer to the following: A: ITB (document ref :SCPV: BOS: ITB - Rev 02) B: GCC (document ref: SCPV: BOS: GCC - Rev 02)	Acceptable / Not acceptable	
19	Integrity Pact	(a) 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 of IP in BHEL. The IP as enclosed with the tender (total 7 sheets) is to be submitted (duly signed by authorized signatory who signs in the offer) along with technocommercial bid. Only those bidders who have entered into such an IP with BHEL would be competent to participate in the bidding. In other words, entering into this Pact would be a preliminary qualification. Details of IEM for this tender is furnished below: Shri D.R.S Chaudhary, IAS (Retd.), Flat No. L-202 & L-203 (1st Floor) Ansal Lake View Enclave Shamla Hills Bhopal- 462 013 (M.P.) Ph: +91 755 4050495 dilip.chaudhary@icloud.com (b) Please refer Section-8 of the IP for Role and Responsibilities of IEMs. In case of any complaint arising out of the tendering process, the matter may be referred to the IEM mentioned in the tender. No routine correspondence shall be addressed to the IEM (phone/post/email) regarding the clarifications, time extensions or any other administrative queries, etc. on the tender issued. All such clarification/issues shall be addressed directly to the tender issuing (procurement) department."	Acceptable/Not acceptable	
20	BOS %	The percentage of Supply, I&C and O&M for values shall be in the range indicated below(approximately,with overall tallying to 100%) : (a) Supply : 83-87% (b) I&C :13-17%	Complied	

AUTHORISED SIGNATORY WITH SEAL

Annexure-A1

TECHNICAL BID ENCLOSURE FOR COMPLIANCE OF QUOTE : UNPRICED BID (Foreign Vendors)							
RFQ No. SPKSCP003 Dtd.19.07.2017 Due Date (Tech Bid): 02.08.2017							
SI No.	Material Code	DESCRIPTION	Quantity	Unit	Quoted	HSN/SAC CODES	Currency
1	PS0679072977	Supply of PEB Structural material for IR	3	ST	Yes / No		
2	PS0679072985	Supply of PEB Structural mat for MCR	1	ST	Yes / No		
3	PS0679072993	Supply of PEB Str mat for Security room	1	ST	Yes / No		
4	PS0679073000	Supply of PEB Architectural itmes for IR	3	ST	Yes / No		
5	PS0679073019	Supply of PEB Archit itmes for MCR	1	ST	Yes / No		
6	PS0679073027	Supply of PEB Archit itmes for Security	1	ST	Yes / No		
7	PS0679073035	Supply of electrical items for IR	3	ST	Yes / No		
8	PS0679073043	Supply of electrical items for MCR	1	ST	Yes / No		
9	PS0679073051	Supply of electrical items for Security	1	ST	Yes / No		
10	PS0679073060	Erection of PEB IR Structural material	3	AU	Yes / No		
11	PS0679073078	Erection of PEB MCR Structural material	1	AU	Yes / No		
12	PS0679073086	Erection of PEB Security Room Structural	1	AU	Yes / No		
13	PS0679073094	Erection of PEB IR Architectural items	3	AU	Yes / No		
14	PS0679073108	Erection of PEB MCR Architectural items	1	AU	Yes / No		
15	PS0679073116	Erection of PEB Security Room Archit itm	1	AU	Yes / No		
16	PS0679073124	Construction of Civil Foundation	3	AU	Yes / No		
17	PS0679073132	Construction of Civil Foundation	1	AU	Yes / No		
18	PS0679073140	Construction of Civil Foundation	1	AU	Yes / No		
19	PS0679073159	I&C: Electrical items in IR	3	AU	Yes / No		
20	PS0679073167	I&C: Electrical items in MCR	1	AU	Yes / No		
21	PS0679073175	I&C: Electrical items in Security Room	1	AU	Yes / No		

Please refer RFQ/Tender for detailed description of items.

Note:

The above format is to be used for Unpriced bid.

AUTHORISED SIGNATORY WITH SEAL

ANNEXURE A2

PRICE BID (Foreign Vendors)							
RFQ No. SPKSCPV003 Dtd.19.07.2017 Due Date (Tech Bid): 02.08.2017							
Sl No.	Material Code	DESCRIPTION	Quantity	Unit	Quoted	HSN/SAC CODES	Currency
1	PS0679072977	Supply of PEB Structural material for IR	3	ST	Yes / No		
2	PS0679072985	Supply of PEB Structural mat for MCR	1	ST	Yes / No		
3	PS0679072993	Supply of PEB Str mat for Security room	1	ST	Yes / No		
4	PS0679073000	Supply of PEB Architectural itmes for IR	3	ST	Yes / No		
5	PS0679073019	Supply of PEB Archit itmes for MCR	1	ST	Yes / No		
6	PS0679073027	Supply of PEB Archit itmes for Security	1	ST	Yes / No		
7	PS0679073035	Supply of electrical items for IR	3	ST	Yes / No		
8	PS0679073043	Supply of electrical items for MCR	1	ST	Yes / No		
9	PS0679073051	Supply of electrical items for Security	1	ST	Yes / No		
10	PS0679073060	Erection of PEB IR Structural material	3	AU	Yes / No		
11	PS0679073078	Erection of PEB MCR Structural material	1	AU	Yes / No		
12	PS0679073086	Erection of PEB Security Room Structural	1	AU	Yes / No		
13	PS0679073094	Erection of PEB IR Architectural items	3	AU	Yes / No		
14	PS0679073108	Erection of PEB MCR Architectural items	1	AU	Yes / No		
15	PS0679073116	Erection of PEB Security Room Archit itm	1	AU	Yes / No		
16	PS0679073124	Construction of Civil Foundation	3	AU	Yes / No		
17	PS0679073132	Construction of Civil Foundation	1	AU	Yes / No		
18	PS0679073140	Construction of Civil Foundation	1	AU	Yes / No		
19	PS0679073159	I&C: Electrical items in IR	3	AU	Yes / No		
20	PS0679073167	I&C: Electrical items in MCR	1	AU	Yes / No		
21	PS0679073175	I&C: Electrical items in Security Room	1	AU	Yes / No		

Please refer RFQ/Tender for detailed description of items.

Note:

The above format is to be used for Priced bid.

AUTHORISED SIGNATORY WITH SEAL

SPECIAL COMMERCIAL CONDITIONS OF CONTRACT (SCC) - for indigenous vendors				
RFQ No. SPKSCP003 Dtd.19.07.2017 Due Date (Tech Bid): 02.08.2017				
Sl No.	Terms	BHEL Term	Confirmation	Deviation / Remarks
1	Pre-Qualification Criteria (PQC)	(a) Vendor shall essentially be an OEM (Original Equipment Manufacturer) of PEB structures. Vendor shall along with technical bid, furnish the postal address of their factory/works where the structures are manufactured and also the details (names/phone) of contact persons. (b) Vendor should have supplied and installed PEB structures with PUF insulation (for wall cladding/roofing) for a minimum base area of 100 sqm per building and minimum cumulative base area of 700 sqm considering all PEB rooms supplied and installed. Vendor shall, along with technical bid, enclose copies of purchase orders/ completion certificate (during the past 3 years from the date of RFQ from their clients for same. Vendor shall also enclose supporting documents (PO copies, drawings etc) for supply of PUF insulation based PEB structures. (c) Vendor shall, along with technical bid, submit a duly-signed undertaking (in their company letter head) that they shall be willing to submit all necessary structural design calculations proof checked and endorsed by IIT/NIT, as per applicable clauses of the tender specification.	Complied	
2	Bidding	(a) Bid has to be submitted as Two Part – Techno Commercial Bid (Part-1) & Price Bid (Part-II). Bids shall be submitted through e-Procurement portal https://bhelps.buyjunction.in of M/s. Mjunction Services Limited.	Complied	
		(b) SCC & Annexure B1 to be submitted along with Technical bid (Part-I) & Annexure B2 to be submitted along with Price bid (Part-II).	Complied	
		(c) Clause-wise compliance to BHEL Purchase specification along with all documents as called in Technical specification to be submitted along with technical bid(Part-1).	Complied	
3	Price Basis	Firm i.e., from the date of PO to completion of supply if I&C is not applicable. If I&C is in supplier's scope, then the prices shall remain firm till commissioning & handing-over of the complete system.(PVC clause not acceptable).	Complied	
4	Terms of Delivery	Free On Road Basis to Project site : 15MW SPV Plant GACL at Charanka Solar Park, Gujarat	Complied	
5	Delivery Period	Supply : 8 (Eight) weeks from drawing approval. Drawing Submission : 1 (One) week from the date of Purchase Order. I&C : Within 4 (Four) weeks from supply	Acceptable / Not acceptable	
6	Payment Term	(a) Supply: 1) 80% of basic Supply value + 100% of taxes, duties and freight charges will be paid with 45 days credit from the receipt of material at site or 15 days credit from the date of submission of complete set of documentation whichever is later. 2) 10% of basic supply value will be paid on completion of I&C against submission of supplementary invoice along with proof of completion of I&C along with I&C charges (if any). 3) Balance 10% (retention money) against submission of supplementary invoice along with PBG valid for Warranty Period+3 months Claim Period from BHEL Consortium Bank. (b) I&C/Supervision: 100% on completion of I&C/Supervision and certification line item wise on pro-rata basis. Note : In exceptional cases, if vendor fails to submit PBG after supplies, vendors can also accept for the final 10% payment, payable after the warranty period + 3 months of claim period against supplementary invoice subject to the completion of commissioning (if applicable) as PBG is linked to Warranty period.	Acceptable / Not acceptable	
		(b) For any deviation in payment term, the offer will be liable for loading as per Clause G of ITB.	Acceptable / Not acceptable	
7	GST	(a) Kindly provide the tax structure (CGST, SGST, IGST) with current rate applicable.	CGST:% SGST:% IGST:%	
		(b) Kindly furnish your GST No.	GST no.....	
8	Evaluation of L1 vendor	Over all L1 of Supply + I&C on "FOR" basis to site will only be considered.	Complied	

9	Warranty	Warranty for Supply : 18 months from supply, 12 months from I&C whichever is earlier. Warranty/Guarantee for Workmanship & I&C : 12 months from I&C.	Acceptable / Not acceptable	
10	Pre Shipment Inspection	(a) Pre Shipment Inspection will be carried out by BHEL/Customer for which test report shall be sent atleast one week in advance.	Acceptable / Not acceptable	
		(b) Pre Shipment Inspection charges , if any, shall be considered while evaluating your offer to arrive at "Total Cost to BHEL".The charges for the same shall be informed to you before Price Bid Opening/Reverse Auction.	Acceptable / Not acceptable	
11	Penalty	(a) Supply : Penalty of 0.5% per week at the basic price of the good for undelivered quantity of supply portion, subject to a maximum of 10%. For Supply, Pre Shipment Inspection Call Letter Date (Receipt of test report) will be treated as delivery for purpose of penalty.	Acceptable / Not acceptable	
		(b) For any deviation in penalty term, the offer will be liable for loading as per Clause No. G, Point No.(b) of ITB.	Acceptable / Not acceptable	
12	Road Permit	Road permit if applicable will be given by BHEL before Dispatch of ordered Items.However, vendor shall give request for road permit 24 hours in advance.	Complied	
13	PBG	PBG shall be furnished in the BHEL prescribed format.	Acceptable / Not acceptable	
14	Despatch Documents	Complete set of despatch documents in 3 sets shall be forwarded to BHEL directly. Despatch documents include Invoice, Lorry receipt (L/R), Packing list, PSI letter Copy, Proof of delivery such as MRC (Material Receipt Certificate)/ original acknowledged LR, Insurance intimation letter and Warranty certificate. One set of Invoice, Packing list and L/R shall be emailed immediately after despatch to BHEL-EDN, Bangalore.	Complied	
15	Reverse Auction	BHEL reserves the right to conduct Reverse auction.Procedure for the same will be informed by BHEL .	Acceptable / Not acceptable	
16	Other terms & conditions	For any other Terms and Conditions, kindly refer to the following: A: ITB (document ref :SCPV: BOS: ITB - Rev 02) B: GCC (document ref: SCPV: BOS: GCC - Rev 02)	Acceptable / Not acceptable	
17	Validity	Quotation should remain valid for a period of 90 days from the due date.	Acceptable / Not acceptable	
18	Shipment	Kindly indicate the state from where the shipment will take place.	State/Place	
19	Integrity Pact	(a) 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 of IP in BHEL. The IP as enclosed with the tender (total 7 sheets) is to be submitted (duly signed by authorized signatory who signs in the offer) along with technocommercial bid. Only those bidders who have entered into such an IP with BHEL would be competent to participate in the bidding. In other words, entering into this Pact would be a preliminary qualification. Details of IEM for this tender is furnished below: Shri D.R.S Chaudhary, IAS (Retd.), Flat No. L-202 & L-203 (1st Floor) Ansal Lake View Enclave Shamla Hills Bhopal- 462 013 (M.P.) Ph: +91 755 4050495 dilip.chaudhary@icloud.com (b) Please refer Section-8 of the IP for Role and Responsibilities of IEMs. In case of any complaint arising out of the tendering process, the matter may be referred to the IEM mentioned in the tender. No routine correspondence shall be addressed to the IEM (phone/post/email) regarding the clarifications, time extensions or any other administrative queries, etc. on the tender issued. All such clarification/issues shall be addressed directly to the tender issuing (procurement) department."	Acceptable/Not acceptable	
20	BOS %	The percentage of Supply, I&C and O&M for values shall be in the range indicated below(approximately,with overall tallying to 100%) : (a) Supply : 83-87% (b) I&C :13-17%	Complied	

AUTHORISED SIGNATORY WITH SEAL

TECHNICAL BID ENCLOSURE FOR COMPLIANCE OF QUOTE : UNPRICED BID (Indigenous Vendors)								
RFQ No. SPKSCPV003 Dtd.19.07.2017 Due Date (Tech Bid): 02.08.2017								
Sl No.	Material Code	DESCRIPTION	QUOTED	QTY	UNIT	HSN/SAC CODES	BREAK UP OF TAX STRUCTURE (CGST/SGST/IGST/Service Tax etc) WITH CURRENT RATES	Remarks
1	PS0679072977	Supply of PEB Structural material for IR	YES/NO	3	ST			Taxes Inclusive
2	PS0679072985	Supply of PEB Structural mat for MCR	YES/NO	1	ST			Taxes Inclusive
3	PS0679072993	Supply of PEB Str mat for Security room	YES/NO	1	ST			Taxes Inclusive
4	PS0679073000	Supply of PEB Architectural itmes for IR	YES/NO	3	ST			Taxes Inclusive
5	PS0679073019	Supply of PEB Archit itmes for MCR	YES/NO	1	ST			Taxes Inclusive
6	PS0679073027	Supply of PEB Archit itmes for Security	YES/NO	1	ST			Taxes Inclusive
7	PS0679073035	Supply of electrical items for IR	YES/NO	3	ST			Taxes Inclusive
8	PS0679073043	Supply of electrical items for MCR	YES/NO	1	ST			Taxes Inclusive
9	PS0679073051	Supply of electrical items for Security	YES/NO	1	ST			Taxes Inclusive
10	PS0679073060	Erection of PEB IR Structural material	YES/NO	3	AU			Taxes Inclusive
11	PS0679073078	Erection of PEB MCR Structural material	YES/NO	1	AU			Taxes Inclusive
12	PS0679073086	Erection of PEB Security Room Structural	YES/NO	1	AU			Taxes Inclusive
13	PS0679073094	Erection of PEB IR Architectural items	YES/NO	3	AU			Taxes Inclusive
14	PS0679073108	Erection of PEB MCR Architectural items	YES/NO	1	AU			Taxes Inclusive
15	PS0679073116	Erection of PEB Security Room Archit itm	YES/NO	1	AU			Taxes Inclusive
16	PS0679073124	Construction of Civil Foundation	YES/NO	3	AU			Taxes Inclusive
17	PS0679073132	Construction of Civil Foundation	YES/NO	1	AU			Taxes Inclusive
18	PS0679073140	Construction of Civil Foundation	YES/NO	1	AU			Taxes Inclusive
19	PS0679073159	I&C: Electrical items in IR	YES/NO	3	AU			Taxes Inclusive
20	PS0679073167	I&C: Electrical items in MCR	YES/NO	1	AU			Taxes Inclusive
21	PS0679073175	I&C: Electrical items in Security Room	YES/NO	1	AU			Taxes Inclusive
22	**Freight Charge including Service Tax on Freight		YES/NO	Lumpsum		NA		**Freight : Free of Cost/Extra

Please refer RFQ/Tender for detailed description of items.

Note:

1. The quoted prices shall be on "FOR" basis to project sites.
2. Please indicate taxes clearly applicable as on date.
3. The above format only shall be used for compliance.No changes are acceptable.
4. Taxes-inclusive rates for Supply, I&C and O&M to be quoted for Sl No.1-27.
5. Indicate whether freight charges and insurance charges are free of cost or will be charged extra.In absence of clarity, these charges shall be considered free of cost from vendor.(If the offer contains the freight value at actuals, it will be considered as free of cost).
6. SUCCESSFUL VENDOR SHALL SUBMIT THE BILLING BREAK UP FOR SUPPLY & I&C FOR APPROVAL AND IMPLEMENTATION.Successful vendor to furnish HSN/SAC codes against each item for billing break-up implementation.

ANNEXURE B2

PRICED BID (Indigenous Vendors)								
RFQ No. SPKSCP003 Dtd.19.07.2017 Due Date (Tech Bid): 02.08.2017								
SI No.	Material Code	DESCRIPTION	QTY	UNIT	Unit Rate (Rs.)	Total Value (Rs.) (Rate X Qty)	BREAK UP OF TAX STRUCTURE (CGST/SGST/IGST/Service Tax etc) WITH CURRENT RATES	Remarks
1	PS0679072977	Supply of PEB Structural material for IR	3	ST				Taxes Inclusive
	Unit rate in words :							
2	PS0679072985	Supply of PEB Structural mat for MCR	1	ST				Taxes Inclusive
	Unit rate in words :							
3	PS0679072993	Supply of PEB Str mat for Security room	1	ST				Taxes Inclusive
	Unit rate in words :							
4	PS0679073000	Supply of PEB Architectural itmes for IR	3	ST				Taxes Inclusive
	Unit rate in words :							
5	PS0679073019	Supply of PEB Archit itmes for MCR	1	ST				Taxes Inclusive
	Unit rate in words :							
6	PS0679073027	Supply of PEB Archit itmes for Security	1	ST				Taxes Inclusive
	Unit rate in words :							
7	PS0679073035	Supply of electrical items for IR	3	ST				Taxes Inclusive
	Unit rate in words :							
8	PS0679073043	Supply of electrical items for MCR	1	ST				Taxes Inclusive
	Unit rate in words :							
9	PS0679073051	Supply of electrical items for Security	1	ST				Taxes Inclusive
	Unit rate in words :							
10	PS0679073060	Erection of PEB IR Structural material	3	AU				Taxes Inclusive
	Unit rate in words :							
11	PS0679073078	Erection of PEB MCR Structural material	1	AU				Taxes Inclusive
	Unit rate in words :							
12	PS0679073086	Erection of PEB Security Room Structural	1	AU				Taxes Inclusive
	Unit rate in words :							

13	PS0679073094	Erection of PEB IR Architectural items	3	AU				Taxes Inclusive
	Unit rate in words :							
14	PS0679073108	Erection of PEB MCR Architectural items	1	AU				Taxes Inclusive
	Unit rate in words :							
15	PS0679073116	Erection of PEB Security Room Archit itm	1	AU				Taxes Inclusive
	Unit rate in words :							
16	PS0679073124	Construction of Civil Foundation	3	AU				Taxes Inclusive
	Unit rate in words :							
17	PS0679073132	Construction of Civil Foundation	1	AU				Taxes Inclusive
	Unit rate in words :							
18	PS0679073140	Construction of Civil Foundation	1	AU				Taxes Inclusive
	Unit rate in words :							
19	PS0679073159	I&C: Electrical items in IR	3	AU				Taxes Inclusive
	Unit rate in words :							
20	PS0679073167	I&C: Electrical items in MCR	1	AU				Taxes Inclusive
	Unit rate in words :							
21	PS0679073175	I&C: Electrical items in Security Room	1	AU				Taxes Inclusive
	Unit rate in words :							
22	**Freight Charge including Service Tax on Freight		Lumpsum				NA	**Freight : Free of Cost/Extra
	Freight charge in words :							

Please refer RFQ/Tender for detailed description of items.

Note:

1. The quoted prices shall be on "FOR" basis to project sites.
2. Please indicate taxes clearly applicable as on date.
3. The above format only shall be used for compliance.No changes are acceptable.
4. Taxes-inclusive rates for Supply, I&C and O&M to be quoted for SI No.1-27.
5. Indicate whether freight charges and insurance charges are free of cost or will be charged extra.In absence of clarity, these charges shall be considered free of cost from vendor.(If the offer contains the freight value at actuals, it will be considered as free of cost).
6. SUCCESSFUL VENDOR SHALL SUBMIT THE BILLING BREAK UP FOR SUPPLY & I&C FOR APPROVAL AND IMPLEMENTATION.Successful vendor to furnish HSN/SAC codes against each item for billing break-up implementation.

AUTHORISED SIGNATORY WITH SEAL



ಭಾರತ್ ಹೆವಿ ಎಲೆಕ್ಟ್ರಿಕಲ್ಸ್ ಲಿಮಿಟೆಡ್
भारत हेवी इलेक्ट्रिकल्स लिमिटेड

Bharat Heavy Electricals Ltd.,
(A Government of India undertaking)
Electronics Division

PB 2606 , Mysore Road Bangalore , 560026 INDIA

SCPV: BOS: ITB - Rev 02

INSTRUCTIONS TO BIDDERS (ITB)

Bidders are requested to read the instructions carefully and submit their quotations covering all the points:

A. GENERAL INSTRUCTIONS:

1. Any Purchase Order resulting from this enquiry shall be governed by the Instructions to Bidders (document reference: SCPV: BOS: ITB – Rev 01), General Conditions of Contract (document reference: SCPV: BOS: GCC - Rev 01) and Special Conditions of Contract (document reference: SCPV: BOS: SCC: I - Rev 01/ SCPV: BOS: SCC: F - Rev 01), if any, of the enquiry.
2. Any deviations from or additions to the “General Conditions of Contract” or “Special Conditions of Contract” require BHEL’s express written consent. The general terms of business or sale of the bidder shall not apply to this tender.
3. Bidders (also includes the term suppliers / contractors wherever used in this document) are instructed to quote their most competitive price and best delivery, etc. in the offer. Prices should be indicated in both figures & words. **(Please also refer clause 11 under section B)**
4. Regret letter (either through post or by mail) indicating reasons for not quoting must be submitted without fail, in case of non-participation in this tender. If a bidder fails to respond against 3 consecutive tenders for the same item, he will be liable for removal as a registered vendor of BHEL.
5. Procurement directly from the manufacturers shall be preferred. However, if the OEM / Principal insist on engaging the services of an agent, such agent shall not be allowed to represent more than one manufacturer / supplier in the same tender. Moreover, either the agent could bid on behalf of the manufacturer / supplier or the manufacturer / supplier could bid directly but not both. In case bids are received from the manufacturer / supplier and his agent, bid received from the agent shall be ignored.
6. Consultant / firm (and any of its affiliates) shall not be eligible to participate in the tender/s for the related goods for the same project if they were engaged for consultancy services for the same project.
7. If an Indian representative / associate / liaison office quotes on behalf of a foreign based bidder, such representative shall furnish compulsorily the following documents:
 - a. Authorization letter to quote and negotiate on behalf of such foreign-based bidder.
 - b. Undertaking from such foreign based bidder that such contract will be honored and executed according to agreed scope of supply and commercial terms and conditions.
 - c. Undertaking shall be furnished by the Indian representative stating that the co-ordination and smooth execution of the contract and settlement of shortages / damages / replacement / repair of imported scope till system is commissioned and handed over to customer will be the sole responsibility of the Indian representative / associates / agent / liaison office.
8. In case of imported scope of supply, customs clearance & customs duty payment will be to BHEL account after the consignment is received at Indian Airport / Seaport. Bidders must provide all original documents required for completing the customs clearance along with the shipment. Warehousing charges due to incomplete or missing documentation will be recovered from the supplier’s bill. All offers for imported scope of supply must be made from any of the gateway ports (within the country) indicated. **(Refer Annexure I)**
9. The offers of the bidders who are on the banned list and also the offers of the bidders, who engage the services of the banned firms, shall be rejected. The list of the banned firms is available on BHEL website: **www.bhel.com**.

10. Business dealings with bidders will be suspended if they are found to have indulged in any malpractices / misconduct which are contrary to business ethics like bribery, corruption, fraud, pilferage, cartel formation, submission of fake/false/forged documents, poor quality, certificates, information to BHEL or if they tamper with tendering procedure affecting the ordering process or fail to execute a contract, or rejection of 3 consecutive supplies or if their firms / works are under strike / lockout for a long period.

B. GUIDELINES FOR PREPARATION OF OFFER:

1. Quotation shall be submitted in Single Part Bid, Two Part Bid or Three Part Bid, as called for in the tender:
 - **SINGLE PART BID:** Technical and Commercial Bid with prices along with price summary & filled in BHEL Standard Commercial terms and conditions in a single sealed envelope.
 - **TWO PART BID:** Unpriced offer i.e. "Techno-commercial Bid" with filled in BHEL Standard Commercial terms and conditions in a sealed envelope **along with the copy of the "Price Bid" without the prices** should be enclosed in one cover and the cover must be super scribed "**Techno-commercial offer** and Priced offer i.e. "Price Bid" containing price summary in a separate sealed envelope and must be super scribed "**Price Bid**". Both these envelopes shall be enclosed in a single sealed envelope super scribed with enquiry number, due date of tender and any other details as called for in the tender document.
 - **THREE PART BID:** Pre-qualification Bid (Part-I), Techno Commercial Bid with filled in BHEL Standard Commercial terms and conditions (Part-II), and Price Bid (Part-III). All three envelopes shall be enclosed in a single sealed envelope super scribed with enquiry number due date of tender and any other details as called for in the tender document.

If any of the offers (Part I, Part II or Part III) are not submitted before the due date and time of submission at the venue/place specified or if any part of the offer is incomplete the entire offer of the bidder is liable for rejection.

2. Supplier shall ensure to super scribe each envelope with RFQ number, RFQ Date, RFQ Due date and time, Item Description and Project clearly & boldly. Also mention on the envelope whether it is "Techno Commercial Bid" or "Price Bid" or "Pre-Qualification Bid". Please ensure complete address, department name and purchase executive name is mentioned on the envelope (before dropping in the tender box or handing over) so that the tender is available in time for bid opening.
3. BHEL standard Commercial Terms and Conditions shall be duly filled, signed & stamped and must accompany Technical-Commercial offer without fail and should be submitted in original only. Photocopy will not be accepted. All documents submitted along with the offer shall be signed and stamped in each page by authorized representative of the bidder.
4. Any of the terms and conditions not acceptable to supplier, shall be explicitly mentioned in the Techno-Commercial Bid. If no deviations are brought out in the offer it will be treated as if all terms and conditions of this enquiry are accepted by the supplier without any deviation.
5. Deviation to this specification / item description, if any, shall be brought out clearly indicating "DEVIATION TO BHEL SPECIFICATION" without fail, as a part of Techno-Commercial Bid. If no deviations are brought out in the offer it will be treated as if the entire specification of this enquiry is accepted without deviation.
6. Suppliers shall submit one set of original catalogue, datasheets, bill of materials, dimensional drawings, mounting details and / or any other relevant documents called in purchase specification as part of Technical Bid.
7. "Price Bid" shall be complete in all respects containing price break-up of all components along with all applicable taxes and duties, packing & forwarding charges (if applicable), freight charges (if applicable) etc. Once submitted no modification / addition / deletion will be allowed in the "Price Bid." Bidders are advised to thoroughly check the unit price, total price to avoid any discrepancy.
8. In addition, bidder shall also quote for erection & commissioning charges (I&C charges), documentation charges, service charges, testing charges (type & routine), training charges, service tax, etc. wherever applicable. The price summary must indicate all the elements clearly.
9. Vendors should indicate "lump sum" charges (including To & Fro Fare, Boarding, Lodging, Local Conveyance etc.) for Supervision of Erection, Commissioning and handing over to customer. The quotation shall clearly indicate scope of work, likely duration of commissioning, pre-commissioning checklist and service tax (if any).
10. Wherever bidders require PAC (Project Authority Certificate) for import of raw materials, components required for Mega

Power Projects, Export Projects, MNRE Concession or other similar projects wherein supplies are eligible for customs duty /Excise duty benefits, lists and quantities of such items and their values (CIF) has to be mentioned in the offer. Prices must be quoted taking into account of such benefits.

11. All quotations shall be free from corrections /overwriting. Corrections if any should be authenticated with signature and seal. Any typographical error, totalling mistakes, currency mistake, multiplication mistake, summing mistakes etc. observed in the price bids will be evaluated as per **Annexure VI** "Guidelines for dealing with Discrepancy in Words & Figures – quoted in price bid". BHEL decision will be final.

C. GUIDELINES FOR OFFER SUBMISSION:

1. Offers / Quotations must be dropped in tender box before 13.00 Hrs. on or before due date mentioned in RFQ. The offers are to be dropped in the proper slot of the Tender Box kept in our reception area with caption "CE, SC&PV, DEFENCE." Tenders are opened on 3 days in a week (Monday/Wednesday/Friday). Tender must be deposited in the slot corresponding to the day (Monday - Box no.4/Wednesday - Box no. 6 /Friday - Box no.8) while depositing the offer. **(This clause will not be applicable for e-tenders).**
2. E-Mail / Internet / EDI offers received in time shall be considered only when such offers are complete in all respects. In case of offers received through E-mail, please send the offer to the email IDs within time of submission of tender.
3. In cases where tender documents are bulky, or due to some reasons tender documents are required to be submitted by hand or through posts/couriers, the offers are to be handed over to purchase officers.
4. Tenders will be opened on due date, time and venue as indicated in the RFQ in the presence of bidders at the venue indicated in the RFQ. In case of e-procurement, bidders can see tender results till seven days after due date and time.
5. Vendor will be solely responsible:
 - a. For submission of offers before due date and time. Offers submitted after due date and time will be treated as "Late offers" and will be rejected.
 - b. For submission of offers in the correct compartment of the tender box based on the day of due date (Monday/Wednesday/Friday). Please check before dropping your offer in the correct tender box.
 - c. For depositing offers in proper sealed condition in the tender box. If the bidder drops the tender in the wrong tender box or if the tender document is handed over to the wrong person BHEL will not be responsible for any such delays.
 - d. For offers received through email/courier etc., suppliers are fully responsible for lack of secrecy on information and ensuring timely receipt of such offers in the tender box before due date & time.
 - e. In case of e-tender, all required documents should be uploaded before due date and time. Availability of power, internet connections, etc. will be the sole responsibility of the vendor. Wherever assistance is needed for submission of e-tenders, help line numbers and executives of service provider of BHEL may be contacted.
Service provider: M-junction
Website address: <https://bheleps.buyjunction.in/>
Helpline no.: 033-66106426/6217/6013/6046/6176 (9:30 am to 5:30 pm)
9163348283/9163348284/9163348285/9163348286/8584008116 (5:30 pm to 8:30 pm)

Purchase Executive / BHEL will not be responsible for any of the activities relating to submission of offer.

D. PROCESSING OFFERS RECEIVED:

1. Any discount / revised offer submitted by the supplier on its own shall be accepted provided it is received on or before the due date and time of offer submission (i.e. Part-I bid). The discount shall be applied on pro-rata basis to all items unless specified otherwise by the bidder.
2. Changes in offers or Revised offers given after Part-I bid opening shall not be considered as a part of the original offer unless such changes / revisions are requested by BHEL.
3. In case there is no change in the technical scope and / or specifications and / or commercial terms & conditions by BHEL, the supplier will not be allowed to change any of their bids after Technical bids are opened (after the due date and time of tender opening of Part-1 Bid).

4. In case of changes in scope and/ or technical specifications and/ or commercial terms & conditions by BHEL and it accounts for price implications from vendors, all techno-commercially acceptable bidders shall be asked by BHEL (after freezing the scope, technical specifications and commercial terms & conditions) to submit the impact of such changes on their price bid. Impact price will be applicable only for changes in technical specification / commercial conditions by BHEL. The impact price must be submitted on or before the cut-off date specified by BHEL and the original price bid and the price impact bid will be opened together at the time of price bid opening. Impact price means only for those items which have been impacted by addition / deletion / changes in the technical specifications or commercial conditions. The impact may be +/- incremental value of the currency in which originally quoted. The impact price bid to be submitted on the cut-off date, time & venue as specified by BHEL. The impact price bid shall be opened along with original price bid.
5. Un-opened bids (including price bids) will be returned to the respective bidders after release of PO and receipt of order acknowledgement from the successful bidder.
6. After receipt of Purchase Order, supplier should submit required documents like drawings, bill of materials, datasheets, catalogues, quality plan, test procedure, type test report , O & M Manuals and / or any other relevant documents as per Specification / Purchase Order, as and when required by BHEL / Customer.
7. Any deviation to the terms and conditions not mentioned in the quotation by supplier in response to this enquiry will not be considered, if put forth subsequently or after issue of Purchase Order, unless clarification is sought for by BHEL EDN and agreed upon in the Purchase Order.
8. Evaluation shall be on the basis of delivered cost (i.e. "Total Cost to BHEL"). As per RFQ terms.
"Total Cost to BHEL" shall include total basic cost, packing & forwarding charges, taxes and duties, inspection charges, freight charges, test charges, insurance, service tax for services, any other cost indicated by vendor for execution of the contract and loading factors (for non-compliance to BHEL Standard Commercial Terms & Conditions). Benefits arising out of Nil Import Duty on Mega Projects, Physical Imports or such 100% exemptions & MNRE Exemptions (statutory benefits), customer reimbursements of statutory duties (like Excise Duty, CST, VAT) will also be taken into account at the time of tender evaluation. (Wherever applicable and as indicated in SCC document of tender)
9. For evaluation of offers in foreign currency, the exchange rate (TT selling rate of SBI) shall be taken as under:

Single part bids:	Date of tender opening
Two/three part bids:	Date of Part-I bid opening
Reverse Auction:	Date of Part-I bid opening

In case of Performance Bank Guarantee (PBG) also, exchange rate will be considered as mentioned above for converting foreign currency to Indian currency and vice versa.

If the relevant day happens to be a bank holiday, then the exchange rate as on the previous working day of the bank (SBI) shall be taken.
10. Ranking (L-1, L-2 etc.) shall be done only for the techno-commercially acceptable offers and on the basis or evaluation of Total Cost to BHEL.

E. INFORMATION ON PAYMENT TERMS:

1. All payments will be through Electronic Fund transfer (EFT). Vendor has to furnish necessary details as per BHEL standard format (**Refer Annexure IV**) for receiving all payments through NEFT. (Applicable for Indian vendors only)
2. Statutory deductions, if any, will be made and the deduction certificate shall be issued. In case vendor does not provide PAN details, the TDS deduction shall be at the maximum percentage stipulated as per the provisions of Income Tax Act. (Applicable for Indian vendors only). Foreign vendors shall submit relevant details of their bankers like Swift Code, Banker's Name & Address etc.
3. Vendors must submit bills & invoices along with required supporting documents in time. Incomplete documentation / delayed submission of invoice / documents will result in corresponding delay in payment.

F. STANDARD PAYMENT TERMS OF BHEL-EDN**Purchase Orders for indigenous procurement****(a) SUPPLY WITH I&C/SUPERVISION:****Supply:**

- 1) 80% of basic Supply value + 100% of taxes, duties and freight charges will be paid with 45 days credit from the receipt of material at site or 15 days credit from the date of submission of complete set of documentation whichever is later.
- 2) 10% of basic supply value will be paid on completion of I&C against submission of supplementary invoice along with proof of completion of I&C along with I&C charges (if any).
- 3) Balance 10% (retention money) against submission of supplementary invoice along with PBG valid for Warranty Period+3 months Claim Period from BHEL Consortium Bank.

I&C/Supervision: 100% on completion of I&C/Supervision and certification line item wise on pro-rata basis.

O&M: 100% O&M charges are payable as per RFQ terms against report certified by BHEL.

(b) SUPPLY ONLY:

- 1) 100% of Basic value with taxes, duties and freight will be paid with 45 days credit from the receipt of material at site or 15 days credit from the date of submission of complete set of documentation whichever is later)+ submission of PBG valid for Warranty Period+ 3 months Claim Period from BHEL Consortium Bank ,if applicable.

Purchase orders for import procurement:**(c) SUPPLY WITH I&C/SUPERVISION:****Supply:**

- 1) 80% of the basic value (excluding I&C charges) will be paid with 45 days credit, against Sight draft, from the date of AWB/BOL on submission of complete set of documents as in PO.
- 2) 10% of basic supply value will be paid on completion of I&C against submission of supplementary invoice along with proof of completion of I&C along with I&C charges (if any).
- 3) Balance 10% (retention money) against submission of supplementary invoice along with PBG valid for Warranty Period+3 months Claim Period from BHEL Consortium Bank.

I&C: 100% on completion of I&C/Supervision and certification line item wise on pro-rata basis.

(d) SUPPLY ONLY:

- 1) 100% of PO value will be paid against Sight draft with 45 days Credit from the date of dispatch or 15 days credit from the date of submission of complete set of documents whichever is later)+ submission of PBG valid for Warranty Period+3 months Claim Period from BHEL Consortium Bank ,if applicable.

Note for (a), (b), (c) and (d): In exceptional cases, if vendor fails to submit PBG after supplies, vendors can also accept for the final 10% payment, payable after the warranty period + 3 months of claim period against supplementary invoice subject to the completion of commissioning (if applicable) as PBG is linked to Warranty period.

G. LOADING FACTORS FOR PAYMENT TERMS & DELAYED DELIVERY:

Loading factors as detailed below will be added to the quoted price (basic) to evaluate the lowest quote for non-compliance of BHEL standard commercial term.

SI No	Deviation on	Nature of Deviation / Offered Terms	Loading %
1.	Payment Terms	For Purchase within India :-	
		1) Credit period less than 45 days	15
		* For Foreign Purchase :-	
		1) Payment through At Sight Letter of Credit	10
		2) Payment through Letter of Credit with usance credit of 45 days	5
		3) Sight Draft with credit period less than 45 days	5
2.	Penalty for Delayed Delivery	1) Non – Acceptance	10
		2) Partial Acceptance (X%)	(10 – X)

*** All bank charges shall be to seller's account. If bank charges of BHEL banker are to BHEL's account then additional loading of 2% on the quoted basic value is applicable.**

Offer/s with payment terms other than the standard payment terms indicated at Clause No. F or Deviated Payment Terms with loading indicated at Clause No. G above are liable for rejection.

NOTES:

- ADVANCE PAYMENT/LC: Quotations with "Advance payment/Inland LC" shall be rejected.
- Basic value of Purchase Order mentioned above will include all components of the purchase order and will exclude only taxes, duties, freight and I&C charges (wherever applicable).
- Wherever the Purchase Order is split into import portion and indigenous portion of supply the retention money will be 10% (as applicable) of both purchase order values put together.
- Non-Compliance of Warranty terms. Offers not complying with Warranty terms as per RFQ Terms is liable for rejection.
- SALE IN TRANSIT/ LOCAL VAT: Sale in transit under section 6(2) of CST is allowed if movement of goods is interstate. In case intra state movement of goods, benefit of sale in transit is not available.
- In case of intrastate movement i.e. supply within same state and VAT is applicable, the vendor shall furnish the respective BHEL's nodal agency TIN no. and address in their invoice. (Refer **Annexure IX**)

H. BANK GUARANTEE (BG) / PERFORMANCE BANK GUARANTEE (PBG):

- Bank guarantee (BG) / Performance bank guarantee (PBG) will be applicable as called in the tender documents. Such PBG shall be valid for a period of Warranty Period + claim period of 3 months for a value equal to 10 % of the basic value of the purchase order. No deviation for the duration of PBG / BG will be permitted.
 - PBG shall be from any of the BHEL consortium of bankers (**refer Annexure V**).
 - PBGs from nationalized banks are also acceptable.

- c. PBG should be sent directly by the bank to the dealing executive mentioned in the purchase order located at the address mentioned in the purchase order. PBG should be in the format indicated. **(Refer Annexure III)**. No deviation to these formats will be allowed.
- d. Confirmation from any of the BHEL consortium of banks or any of the Indian Public Sector Banks is essential for the acceptance of PBGs issued by foreign banks (located outside India).
- e. Expired BGs / PBGs will be returned only after expiry of the claim period or on completion of the contractual obligation.
- f. In case vendor does not accept for submission of PBG, the vendor is liable for rejection on commercial grounds.

I. DOCUMENTS (TRIPLICATE COPIES) REQUIRED AT THE TIME OF DISPATCH FOR PROCESSING OF BILL:

1. FOR INDIGENOUS SCOPE OF SUPPLY:

For Supply: Invoice in Triplicate, Lorry receipt (LR) copy, Packing List, PSI Call Letter Copy, Proof of delivery such as MRC (Material Receipt Certificate)/ original acknowledged LR, Insurance intimation Letter and Warranty Certificate. Note that document pertaining to Proof of delivery shall clearly mention number of boxes/panels etc which shall be in line with the Packing list.

For I&C: Supplementary Invoice in Triplicate with copy of I&C Certificate (Proof of Completion of I&C).

For PBG: Supplementary Invoice in Triplicate with copy of PBG. However, PBG should reach concerned Purchase Officer directly from the Bank.

2. FOR IMPORTED SCOPE OF SUPPLY:

For Supply: Invoice in Triplicate, Air Way Bill/Bill of Lading, Packing List, PSI Call Letter Copy, and Warranty Certificate.

For I&C: Supplementary Invoice in Triplicate with copy of I&C Certificate (Proof of Completion of I&C).

For PBG: Supplementary Invoice in Triplicate with copy of PBG. Both PBG & supplementary invoice should reach concerned Purchase Officer directly from the Bank.

J. PROVISIONS APPLICABLE FOR MSE VENDORS (MICRO AND SMALL ENTERPRISES)

Vendors who qualify as MSE vendors are requested to submit applicable certificates (as specified by the Ministry of Micro, Small and Medium Enterprises) at the time of vendor registration. Vendors have to submit any of the following documents along with the tender documents in the Part I / Technical bid cover to avail the applicable benefits.

- a. Valid NSIC certificate or
- b. Entrepreneur's Memorandum part II (EM II) certificate (deemed valid for 2 years).
- c. EM II certificate with CA certificate **(in the prescribed format given in Annexure VIII)** applicable for the year certifying that the investment in plant and machinery of the vendor is within permissible limits as per the MSME Act 2006 for relevant status where the deemed validity is over.
- d. Documents submitted for establishing the credentials of MSE vendors must be valid as on the date of part I / technical bid opening for the vendors to be eligible for the benefits applicable for MSE vendors. Documents submitted after the Part I / Technical bid opening date will not be considered for this tender.

PURCHASE PREFERENCE FOR MSE VENDORS:

- e. MSE vendors quoting within a price band of L1 + 15% shall be allowed to supply up to 20% of the requirement against this tender provided.
 - 1. The MSE vendor matches the L1 price.
 - 2. L1 price is from a non MSE vendor.
 - 3. L1 price will be offered to the nearest vendor nearest to L1 in terms of price ranking (L2 - nearest to L1). In case of non-acceptance by the MSE vendor (L2) next ranking MSE vendor will be offered who is within the L1 + 15% band (if L3 is also within 15% band).
 - 4. 20% of the 20% (i.e. 4% of the total enquired quantity) will be earmarked for SC/ST owned MSE firms provided conditions as mentioned in (1) and (2) are fulfilled.
 - 5. In case no vendor under SC / ST category firms are meeting the conditions mentioned in (1) and (2) or have not participated in the tender, in such cases the 4% quantity will be distributed among the other eligible MSE vendors who have participated in the tender.

6. Serial no. 1 to 5 will not be applicable wherever it is not possible to split the tendered quantity / items on account of customer contract requirement, or the items tendered are systems. Such information that tendered quantity will not be split will be indicated in the SCC.

K. INTEGRITY COMMITMENT IN THE TENDER PROCESS, AND EXECUTION OF CONTRACTS:

1. Commitment by BHEL:

BHEL commits to take all measures necessary to prevent corruption in connection with the Tender process and execution of the Contract. BHEL will, during the tender process, treat all bidder / suppliers in a transparent and fair manner, and with equity.

2. Commitment by Bidder(s)/ Contractor(s):

- a. The Bidder(s)/ Contractor(s) commit(s) to take all measures to prevent corruption and will not directly or indirectly try to influence any decision or benefit which he is not legally entitled to.
- b. The Bidder(s)/ Contractor(s) will not enter with other Bidder(s) into any undisclosed agreement or understanding or any actions to restrict competition.
- c. The Bidder(s)/ Contractor(s) will not commit any offence under the relevant Acts. The Bidder(s)/ Contractor(s) will not use improperly, for purposes of competition or personal gain or pass on to others, any information or document provided by BHEL as part of business relationship.
- d. The Bidder(s)/ Contractor(s) will, when presenting his bid, disclose any and all payments he has made, and is committed to or intends to make to agents, brokers or any other intermediaries in connection with the award of the contract and shall adhere to the relevant guidelines issued from time to time by Government of India/ BHEL.

If the Bidder(s) / Contractor(s), before award or during execution of the Contract commit(s) a transgression of the above or in any other manner such as to put his reliability or credibility in question, BHEL is entitled to disqualify the Bidder(s) / Contractor (s) from the tender process or terminate the contract and/ or take suitable action as deemed fit.

L. 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 intranet.

PURCHASE EXECUTIVE



ಭಾರತ್ ಹೆವಿ ಎಲೆಕ್ಟ್ರಿಕಲ್ಸ್ ಲಿಮಿಟೆಡ್
भारत हेवी इलेक्ट्रिकल्स लिमिटेड

Bharat Heavy Electricals Ltd.,
(A Government of India undertaking)
Electronics Division

PB 2606 , Mysore Road Bangalore , 560026 INDIA

SCPV: BOS: GCC - Rev 02

GENERAL COMMERCIAL CONDITIONS FOR CONTRACT (GCC)

These 'General Commercial Conditions for Contract for Purchase' hereinafter referred to as GCC apply to all enquiries, tenders, requests for quotations, orders, contracts and agreements concerning the supply of goods and the rendering of related services (hereinafter referred to as "deliveries") to Bharat Heavy Electricals Limited and any of its units, regions or divisions (hereinafter referred to as "BHEL" or the Purchaser) or its projects / customers.

Any deviations from or additions to these GCC require BHEL's express written consent. The general terms of business or sale of the vendor shall not apply to BHEL. Acceptance, receipt of shipments or services or effecting payment shall not mean that the general terms of business or sale of the vendor have been accepted.

Orders, agreements and amendments thereto shall be binding if made or confirmed by BHEL in writing. Only the Purchasing department of BHEL is authorized to issue the Purchase Order or any amendment thereof.

Definitions: Throughout these conditions and in the specifications, the following terms shall have the meanings assigned to them, unless the subject matter or the context requires otherwise.

- 'The Purchaser' means Bharat Heavy Electricals Limited, Electronics division, Mysore road, Bangalore 560 026, a Unit of Bharat Heavy Electricals Limited (A Govt. of India Undertaking) incorporated under the Companies Act having its registered office at BHEL House, Siri Fort, New Delhi-110049, India and shall be deemed to include its successors and assigns. It may also be referred to as BHEL.
- 'The vendor' means the person, firm, company or organization on whom the Purchase Order is placed and shall be deemed to include the vendor's successors, representative heirs, executors and administrator as the case may be. It may also be referred to as Seller, Contractor or Supplier.
- 'Contract' shall mean and include the Purchase Order incorporating various agreements, viz. tender/ RFQ, offer, letter of intent / acceptance / award, the General Conditions of Contract and Special Conditions of Contract for Purchase, Specifications, Inspection / Quality Plan, Schedule of Prices and Quantities, Drawings, if any enclosed or to be provided by BHEL or his authorized nominee and the samples or patterns if any to be provided under the provisions of the contract.
- 'Parties to the Contract' shall mean the 'The Vendor' and the Purchaser as named in the main body of the Purchase Order.
- "Bidder" shall mean duly established reputed organisation, manufacturer etc. having requisite financial and technical capability and experience of participating in the bid invited by the purchaser for the tender.
- Bid- The term "bid" or "bidding" can also relate to the documented Offer submitted in response to a request for quotation (RFQ) /Tender.

Interpretation:

In the contract, except where the context requires otherwise:

- words indicating one gender include all genders;
- words indicating the singular also include the plural and words indicating the plural also include the singular;
- provisions including the word "agree", "agreed" or "agreement" require the agreement to be recorded in writing, and
- "Written" or "in writing" means hand-written, type-written, printed or electronically made, and resulting in a permanent record.

Applicable Conditions:

1. **Price Basis:** All prices shall be firm until the purchase order is executed / completed in all respects. No price variations / escalation shall be permitted unless otherwise such variations / escalations are provided for and agreed by BHEL in writing in the purchase order.
2. **Validity:** The offer will be valid for a period of 90 days from the date of technical bid opening date. Validity beyond 90 days, if required, will be specified in the SCC (special conditions of contract).
3. **Taxes & Duties:** Taxes as mentioned in the Contract Price or Price Schedule shall be paid to the Contractor subject to the Contractor complying with all the statutory requirements and furnishing the relevant documents including error free invoices containing detailed break-up of the taxes. Any duties, levies or taxes not mentioned in Contract Price or Price Schedule but applicable as per any statute(s) shall be deemed to be included in the Contract price and shall be to the account of the Contractor.
The Contractor shall bear and pay all the costs, liabilities, levies, interest, penalties in respect of non-compliances of any legal requirements as per various statutory provisions. The contractor shall keep the owner indemnified at all times from any tax liability, interest, penalties or assessments that may be imposed by the statutory authorities for non-compliances or non-observation of any statutory requirements by the Contractor.
4. **Ordering and confirmation of Order:** Vendor shall send the order acceptance on their company letter head within two weeks from the date of Purchase Order or such other period as specified / agreed by BHEL. BHEL reserves the right to revoke the order placed if the order confirmation differs from the original order placed. The acceptance of goods/services/supplies by BHEL as well as payments made in this regard shall not imply acceptance of any deviations.
The purchase order will be deemed to have been accepted if no communication to the contrary is received within two weeks (or the time limit as specified / agreed by BHEL) from the date of the purchase order.
5. **Documentation:** After receipt of Purchase Order, vendor should submit required documents like drawings, bill of materials, datasheets, catalogues, quality plan, test procedure, type test report , O & M Manuals and/or any other relevant documents as per Specification/Purchase Order, as and when required by BHEL/Customer.
At any stage within the contract period, the vendor shall notify of any error, fault or other defect found in BHEL's documents /specifications or any other items for reference. If and to the extent that (taking account of cost and time) any vendor exercising due care would have discovered the error, fault or other defect when examining the documents/specifications before submitting the tender, the time for completion shall not be extended. However if errors, omissions, ambiguities, inconsistencies, inadequacies or other defects are found in the vendor's documents, they shall be corrected at his cost, notwithstanding any consent or approval.
6. **TERMS OF DELIVERY:**
FOR IMPORTED PURCHASE:
Price offered shall be for goods packed and delivered CIF Seaport/ International Airport (FCA) including packing, forwarding, Handling, Ancillary charges like processing of Sight Draft, negotiation charges of bank, Export declaration, Certificate of origin etc.
Packing shall be Air/Sea worthy, best suitable for trans-shipment and to take care of transit damages. If containerized, no. of containers & size of container shall be mentioned. Packing weight (gross & net) Packing dimensions shall be given prior to shipment to ascertain whether the consignment can be carried on standard cargo in contract or as ODC.
Wooden packing material for all the foreign consignments should be treated as per ISPM-15 & Fumigation / Phytosanitary certificate to be submitted to the freight forwarders/ BHEL along with the invoice, B/L, packing list etc.
Vendors shall indicate the name of International Airport/Seaport. The consignment shall be handed over to BHEL approved freight forwarder as mentioned in PO.

FOR INDIGENOUS PURCHASE:

Equipment shall be delivered on “FOR SITE” basis, inclusive of freight, packing, insurance & forwarding charges.

Packing shall be Road / Rail / Air / Sea worthy, best suitable for transshipment and to take care of transit damages. Smaller consignments can be dispatched through Courier services/ RPP with the prior approval of the purchasing Executive.

Deviation for the delivery term is liable for rejection.

7. Penalty:

For delay in delivery: In the event of delay in agreed contractual delivery as per Purchase Order, penalty @ 0.5 % (half percent) per week or part thereof but limited to a max of 10% (ten percent) value of undelivered portion (basic material cost) will be applicable. Delivery will commence from the date of document approval by customer / BHEL or date of issue of manufacturing clearance, whichever is later. The date for which Inspection call is issued by vendor along with test certificates / test reports / Certificate of Conformance / calibration reports, as proof of completion of manufacturing will be treated as date of deemed delivery for penalty calculation. In the absence of furnishing such document indicated above as proof of completion of manufacturing along with inspection call, actual date of inspection will be considered as date of deemed delivery and BHEL will not be responsible for delay in actual date of inspection.

Penalty for delayed delivery, if applicable, shall be deducted at the time of first payment. If penalty is applicable for duration of less than a week, penalty @ 0.5% (half percent) of the basic material value will be deducted.

8. **Contract variations (Increase or decrease in the scope of supply):** BHEL may vary the contracted scope as per requirements at site. If vendor is of the opinion that the variation has an effect on the agreed price or delivery period, BHEL shall be informed of this immediately in writing along with technical details. Where unit rates are available in the Contract, the same shall be applied to such additional work. Vendor shall not perform additional work before BHEL has issued written instructions / amendment to the Purchase Order to that effect. The work which the vendor should have or could have anticipated in terms of delivering the service(s) and functionality (i.e.) as described in this agreement, or which is considered to be the result of an attributable error on the vendor's part, shall not be considered additional work.
9. **Reverse Auction:** BHEL reserves the right to go for Reverse Auction (RA) (Guidelines as available on www.bhel.com) instead of opening the sealed envelope price bid, submitted by the bidder. This will be decided after techno-commercial evaluation. Bidders to give their acceptance with the offer for participation in RA. Non-acceptance to participate in RA may result in non- consideration of their bids, in case BHEL decides to go for RA.

Those bidders who have given their acceptance to participate in Reverse Auction will have to necessarily submit ‘Process compliance form’ (to the designated service provider) as well as ‘Online sealed bid’ in the Reverse Auction. Non-submission of ‘Process compliance form’ or ‘Online sealed bid’ 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).

The bidders have to necessarily submit online sealed bid less than or equal to their envelope sealed price bid already submitted to BHEL along with the offer. The envelope sealed price bid of successful L1 bidder in RA, if conducted, shall also be opened after RA and the order will be placed on lower of the two bids (RA closing price & envelope sealed price) thus obtained. The bidder having submitted this offer specifically agrees to this condition and undertakes to execute the contract on thus awarded rates.

If it is found that L1 bidder has quoted higher in online sealed bid in comparison to envelope sealed bid for any item(s), the bidder will be issued a warning letter to this effect. 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).

10. **Pre Shipment Inspection:** Prior written notice of at least one week shall be given along with internal test certificates / COC and applicable test certificates. Materials will be inspected by BHEL-EDN-QS/CQS or BHEL nominated Third Party Inspection Agency (TPIA) or BHEL authorized Inspection Agency or Customer / Consultant or jointly by BHEL & Customer / consultant. All tests have to be conducted as applicable in line with approved Quality plan or QA Checklist or Purchase specification and original reports shall be furnished to BHEL-EDN, Bangalore for verification / acceptance for issue of dispatch clearance. All costs related to inspections & re-inspections shall be borne by vendor. Whether the Contract provides for tests on the premises of the vendor or any of his Sub-contractor/s, vendor shall be responsible to provide such assistance, labour, materials, electricity, fuels, stores, apparatus, instruments as may be required and as may be reasonably demanded to carry out such tests efficiently. Cost of any type test or such other special tests shall be borne by BHEL only if specifically agreed to in the purchase order.
11. **Transit Insurance:** Transit insurance coverage between vendor's works and project site shall be to the account of BHEL, unless specifically agreed otherwise. However, vendor shall send intimation directly to insurance agency through fax/courier/e-mail, immediately on dispatch of goods for covering insurance. A copy of such intimation sent by vendor to insurance agency shall be given to BHEL along with dispatch documents. Dispatch documents will be treated as incomplete without such intimation copy. BHEL shall not be responsible for sending intimations to insurance agency on behalf of the vendor.
12. **Packaging and dispatch:** The Seller shall package the goods safely and carefully and pack them suitably in all respects considering the peculiarity of the material for normal safe transport by Sea / Air / Rail / Road to its destination suitably protected against loss, damage, corrosion in transit and the effect of tropical salt laden atmosphere. The packages shall be provided with fixtures / hooks and sling marks as may be required for easy and safe handling. If any consignment needs special handling instruction, the same shall be clearly marked with standard symbols / instructions. Hazardous material should be notified as such and their packing, transportation and other protection must conform to relevant regulations. The packing, shipping, storage and processing of the goods must comply with the prevailing legislation and regulations concerning safety, the environment and working conditions. Any Imported/Physical Exports items packed with raw / solid wood packing material should be treated as per ISPM – 15 (fumigation) and accompanied by Phytosanitary / Fumigation certificate. If safety information sheets (MSDS – Material Safety Data Sheet) exist for an item or the packaging, vendor must provide this information without fail along with the consignment. Each package must be marked with Consignee name, Purchase order number, Package number, Gross weight and net weight, dimensions (L x B x H) and Seller's name. Packing list of goods inside each package with PO item number and quantity must also be fixed securely outside the box to indicate the contents of each box. Total number of packages in the consignment must also be indicated. Separate packing & identification of items should be as follows.
 1. Main Scope - All items must be tagged with part no. & item description.
 2. Commissioning spares - All items must be tagged with part no. & item description.
 3. Mandatory spares - All items must be tagged with part no. & item description.
13. **Assignment of Rights & Obligations; Subcontracting:** Vendor is not permitted to subcontract the delivery or any part thereof to third party or to assign the rights and obligations resulting from this agreement in whole or in part to third parties without prior written permission from BHEL. Any permission or approval given by the BHEL shall, however, not absolve the vendor of the responsibility of his obligations under the Contract.
14. **Progress report:** Vendor shall render such report as to the progress of work and in such form as may be called for by the concerned purchase officer from time to time. The submission and acceptance of such reports shall not prejudice the rights of BHEL in any manner.

15. **Non-disclosure and Information Obligations: Vendor** shall provide with all necessary information pertaining to the goods as it could be of importance to BHEL. Vendor shall not reveal confidential information that may be divulged by BHEL to Vendor's employees not involved with the tender/ contract & its execution and delivery or to third parties, unless BHEL has agreed to this in writing beforehand. Vendor shall not be entitled to use the BHEL name in advertisements and other commercial publications without prior written permission from BHEL.

16. **Cancellation / Termination of contract:** BHEL shall have the right to completely or partially terminate the agreement by means of written notice to that effect. Termination of the Contract, for whatever reason, shall be without prejudice to the rights of the parties accrued under the Contract up to the time of termination.
BHEL shall have the right to cancel/foreclose the Order/ Contract, wholly or in part, in case it is constrained to do so, on account of any decline, diminution, curtailment or stoppage of the business.

17. **Risk Purchase Clause:** In case of failure of supplier, BHEL at its discretion may make purchase of the materials / services NOT supplied / rendered in time at the RISK & COST of the supplier. Under such situation, the supplier who fails to supply the goods in time shall be wholly liable to make good to BHEL any loss due to risk purchase.
In case of items demanding services at site like erection and commissioning, vendor should send his servicemen /representatives within 7 days from the service call. In case a vendor fails to attend to the service call, BHEL at its discretion may also make arrangements to attend such service by other parties at the **RISK & COST** of the supplier. Under such situation the supplier who fails to attend the service shall be wholly liable to make good to BHEL any loss due to risk purchase / service including additional handling charges due to the change.

18. **Shortages:** In the event of shortage on receipt of goods and/or on opening of packages at site, all such shortages shall be made good within a reasonable time that BHEL may allow from such intimation and free of cost.
Transit Damages: In the event of receipt of goods in damaged condition or having found them so upon opening of packages at site, Supplier shall make good of all such damages within a reasonable time from such intimation by BHEL.

19. **Remedial work:** Notwithstanding any previous test or certification, BHEL may instruct the vendor to remove and replace materials/goods or remove and re-execute works/services which are not in accordance with the purchase order. Similarly BHEL may ask the vendor to supply materials or to execute any services which are urgently required for any safety reasons, whether arising out of or because of an accident, unforeseeable event or otherwise. In such an event, Vendor shall provide such services within a reasonable time as specified by BHEL.

20. **Indemnity Clause:** Vendor shall comply with all applicable safety regulations and take care for the safety of all persons involved. Vendor is fully responsible for the safety of its personnel or that of his subcontractor's men / property, during execution of the Purchase Order and related services. All statutory payments including PF, ESI or other related charges have to be borne by the vendor. Vendor is fully responsible for ensuring that all legal compliances are followed in course of such employment.

21. **Product Information, Drawings and Documents:** Drawings, technical documents or other technical information received by Vendor from BHEL or vice versa shall not, without the consent of the other party, be used for any other purpose than that for which they were provided. They may not, without the consent of the Disclosing party, otherwise be used or copied, reproduced, transmitted or communicated to third parties. All information and data contained in general product documentation, whether in electronic or any other form, are binding only to the extent that they are by reference expressly included in the contract.
Vendor, as per agreed date/s but not later than the date of delivery, provide free of charge information and drawings which are necessary to permit and enable BHEL to erect, commission, operate and maintain the product. Such information and drawings shall be supplied in as many numbers of copies as may be agreed upon.
All intellectual properties, including designs, drawings and product information etc. exchanged during the

formation and execution of the Contract shall continue to be the property of the disclosing party.

22. **Intellectual Property Rights, Licenses:** If any Patent, design, Trade mark or any other intellectual property rights apply to the delivery (goods / related service) or accompanying documentation shall be the exclusive property of the Vendor and BHEL shall be entitled to the legal use thereof free of charge by means of a non-exclusive, worldwide, perpetual license. All intellectual property rights that arise during the execution of the Purchase Order/ contract for delivery by vendor and/or by its employees or third parties involved by the vendor for performance of the agreement shall belong to BHEL. Vendor shall perform everything necessary to obtain or establish the above mentioned rights. The Vendor guarantees that the delivery does not infringe on any of the intellectual property rights of third parties. The Vendor shall do everything necessary to obtain or establish the alternate acceptable arrangement pending resolution of any (alleged) claims by third parties. The Vendor shall indemnify BHEL against any (alleged) claims by third parties in this regard and shall reimburse BHEL for any damages suffered as a result thereof.

23. **Force Majeure:** Notwithstanding anything contained in the purchase order or any other document relevant thereto, neither party shall be liable for any failure or delay in performance to the extent said failures or delays are caused by the "Act of God" and occurring without its fault or negligence, provided that, force majeure will apply only if the failure to perform could not be avoided by the exercise of due care and vendor doing everything reasonably possible to resume its performance.
A party affected by an event of force majeure which may include fire, tempest, floods, earthquake, riot, war, damage by aircraft etc., shall give the other party written notice, with full details as soon as possible and in any event not later than seven (7) calendar days of the occurrence of the cause relied upon. If force majeure applies, dates by which performance obligations are scheduled to be met will be extended for a period of time equal to the time lost due to any delay so caused.

Notwithstanding above provisions, in an event of Force Majeure, BHEL reserves for itself the right to cancel the order/ contract, wholly or partly, in order to meet the overall project schedule and make alternative arrangements for completion of deliveries and other schedules.

24. **Guarantee / Warranty:** Wherever required, and so provided in the specifications / Purchaser Order, the Seller shall guarantee that the stores supplied shall comply with the specifications laid down, for materials, workmanship and performance. The guarantee / warranty period as described shall apply afresh to replaced, repaired or re-executed parts of a delivery. If the vendor fails to take proper corrective action to repair/replace defects satisfactorily within a reasonable period, Purchaser shall be free to take corrective action as may be deemed necessary at vendor's risk and cost after giving notice to the vendor, including arranging supply of goods from elsewhere at the sole risk and cost of the vendor. Unless otherwise specifically provided in the Purchase Order, Vendor's liability shall be co terminus with the expiration of the applicable guarantee / warranty period.

25. **Limitation of Liability:** Vendor's liability towards this contract is limited to a maximum of 100% of the contract value and consequential damages are excluded. However the limits of liability will have no effect in cases of criminal negligence or wilful misconduct.
The total liability of Vendor for all claims arising out of or relating to the performance or breach of the Contract or use of any Products or Services or any order shall not exceed the total Contract price.

26. **Liability during guarantee / warranty:** Vendor shall arrange replacement / repair of all the defective materials / services under its obligation under the guarantee / warranty period. The rejected goods shall be taken away by vendor and replaced / repaired. In the event of the vendor's failure to comply, BHEL may take appropriate action including disposal of rejections and replenishment by any other sources at the cost and risk of the vendor.
In case, defects attributable to vendor are detected during first time commissioning or use, vendor shall be responsible for replacement / repair of the goods as required by BHEL at vendor's cost. In all such cases expiry of guarantee / warranty will not be applicable.

27. **Liability after guarantee / warranty period:** At the end of the guarantee / warranty, the Vendor's liability ceases except for latent defects (latent defects are defects / performance issues noticed after the

guarantee / warranty has expired). The Contractor's liability for latent defects warranty for the plant and equipment including spares shall be limited to a period of six months from the end of the guarantee / as specified in RFQ.

28. **Compliance with Laws:** Vendor shall, in performing the contract, comply with all applicable laws. The vendor shall make all remittances, give all notices, pay all taxes, duties and fees, and obtain all permits, licences and approvals, as required by the laws in relation to the execution and completion of the contract and for remedying of any defects; and the Contractor shall indemnify and hold BHEL harmless against and from the consequences of any failure to do so.
29. **Settlement of Disputes:** Except as otherwise specifically provided in the Purchase Order, decision of BHEL shall be binding on the vendor with respect to all questions relating to the interpretation or meaning of the terms and conditions and instructions herein before mentioned and as to the completion of supplies/work/services, other questions, claim, right, matter or things whatsoever in any way arising out of or relating to the contract, instructions, orders or these conditions or otherwise concerning the supply or the execution or failure to execute the order, whether arising during the schedule of supply/work or after the completion or abandonment thereof. Any disputes or differences among the parties shall to the extent possible be settled amicably between the parties thereto, failing which the disputed issues shall be settled through arbitration. Vendor shall continue to perform the contract, pending settlement of dispute(s).
30. **Arbitration Clause:** 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 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 by either party to the sole arbitration of an Arbitrator appointed by the Executive Director/ General Manager of the purchasing unit/ region/ division of BHEL. Vendor shall have no objection even if the Arbitrator so appointed is an employee of BHEL or has ever dealt/ had to deal with any matter relating to this Contract.
 Subject as aforesaid the provisions of the Arbitration and Conciliation Act, 1996 of India or any statutory modification or re-enactment thereof and the rules made there under and for the time being in force shall apply to the arbitration proceedings under this clause. It is a term of contract that the party initiating arbitration shall specify the dispute or disputes to be referred to arbitration under this clause together with the amount or amounts claimed in respect of each such dispute. The venue for the arbitration shall be Bangalore, India. The award of the arbitrator shall be a speaking award and shall be final, conclusive and binding on all parties to this contract.
 The cost of arbitration shall be borne equally by the parties. Notwithstanding the existence of any dispute or difference or any reference for the arbitration, the vendor shall proceed with and continue without hindrance the performance of the work under the contract with due diligence and expedition in a professional manner.
31. **Applicable Laws and Jurisdiction of Courts:** Prevailing Indian laws both substantive and procedural, including modifications thereto, shall govern the Contract. Subject to the conditions as aforesaid, the competent courts in BANGALORE alone shall have jurisdiction to consider over any matters touching upon this contract.
32. **General Terms:** That any non-exercise, forbearance or omission of any of the powers conferred on BHEL and /or any of its authorities will not in any manner constitute waiver of the conditions hereto contained in these presents.
 That the headings used in this agreement are for convenience of reference only.
 That all notices etc., to be given under the Purchase order shall be in writing, type script or printed and if sent by registered post or by courier service to the address given in this document shall be deemed to have been served on the date when in the ordinary course, they would have been delivered to the addressee.
33. Vendors shall provide their state wise list of GSTIN number as per Govt of India Statute.

34. If the vendor is below the threshold limit, viz Rs.20. lacs as per existing provisions, then a declaration to be provided to that effect along with copy of accounts, failing which the supplier will be treated as an Unregistered dealer (URD) for which tax is payable on reverse charge (RCM) by BHEL.
35. If the vendor is above the threshold limit & is yet not registered, GST is payable by BHEL on reverse charge basis.
36. All supply items are linked to HSN code (Harmonised System Nomenclature). This goods list is mapped with HSN code which is released by Govt of India & available in public domain. All registered suppliers submitting the quote shall mandatorily mention HSN code relevant for the goods quoted.
37. Under GST, Govt of India has linked every service to a service accounting code called SAC. The list of services and the corresponding service accounting code (SAC) is released by Govt of India & available in public domain. All registered suppliers submitting the quote shall mandatorily mention SAC code relevant for the service quoted.
38. The rate of tax applicable for 35 services is also released by Government and rate for any service not falling in the list of 35 services is 18%.
39. Invoice should contain all particulars as per invoice Rules and should include the GST registration number (GSTIN), service accounting code (SAC) apart from all other details mentioned.
40. Invoice should contain all particulars as per invoice Rules and should include the GST registration number (GSTIN), HSN code apart from all other details mentioned.
41. In case GST is payable on reverse charge (RCM) invoice should mention that tax is payable on reverse charge
42. For a registered supplier, the supplier uploaded sales data for the month will be available to recipient on 11th of the subsequent month & details can be verified by BHEL. Credit availment can be confirmed based on this verified data
43. If the Supplier is not registered, then tax is payable on Reverse charge & will be to the account of the supplier
44. All services in the course of business or furtherance of business are eligible to credit subject to other compliances listed herein.
45. If service is eligible for credit, then the credit can be availed only if the invoice is as per the prescribed format, the supplier has uploaded the invoice in the GSTN portal, paid the taxes & uploaded the return, and matches with our inward data, failing which any availment of credit attracts interest.
46. Even in case of services where credit is not eligible,
 - (i) either the supplier should have registered (if above threshold limit) & comply with all above statutory provisions relating to invoice, tax remittance, return filing etc. This can be verified by BHEL from the GSTN portal OR
 - (ii) if not registered BHEL shall be liable to pay applicable taxes on reverse charge
47. For any deficiency in services, where a recovery is made / adjusted in supplier bills, the supplier has to raise a credit note on BHEL & upload in GSTN portal. All above rules applicable for invoice also apply for credit note.
48. All notifications and rules as per central board of excise and customs will be applicable.

ANNEXURE - I
LIST OF INTERNATIONAL GATEWAY AIRPORTS

SCHEDULE NO	COUNTRY	CURRENCY CODE	AIRPORT
D01	UK	GBP	LONDON (HEATHROW)
D02	UK	GBP	NEW CASTLE
D03	UK	GBP	OXFORD. CHETLAM
D04	UK	GBP	BRISTOL. WELLINGBOROUGH
D05	UK	GBP	BIRMINGHAM
D06	UK	GBP	EAST MIDLANDS
D07	UK	GBP	MANCHESTER
D08	UK	GBP	LEEDS
D09	UK	GBP	GLASGOW
D10	FRANCE	EURO	PARIS (ROISSY) & LYON
D11	SWEDEN	EURO	STOCKHOLM
D12	SWEDEN	EURO	GOTHENBERG & MALMO
D13	ITALY	EURO	ROMA, MILAN
D14	ITALY	EURO	TURIN, BOLOGNA, FLORENCE
D15	NETHERLANDS	EURO	AMSTERDAM, ROTTERDAM
D16	AUSTRIA	EURO	VIENNA, LINZ, GRAZ
D17	BELGIUM	EURO	ANTWERP, BRUSSELS
D18	DENMARK	DKK	COPENHAGEN
D19	JAPAN	JPY	TOKYO, OSAKA
D20	SINGAPORE	SGD	SINGAPORE
D21	CANADA	CAD	TORONTO
D22	CANADA	CAD	MONTREAL
D23	USA	USD	NEW YORK, BOSTON
D24	USA	USD	CHICAGO
D25	USA	USD	SAN FRANCISCO, LOS ANGELES
D26	USA	USD	ALANTA, HOUSTON
D27	GERMANY	EURO	MUNICH, KOLN, DUSSELDORF, HANNOVER, HAMBURG, STUTTGART, DAMSTADT, MANIHIEM, NURUMBERG
D28	GERMANY	EURO	FRANKFURT
D29	GERMANY	EURO	BERLIN
D30	SWITZERLAND	SFR	BASLE, ZURICH, GENEVA
D31	SPAIN	EURO	BARCELONA
D32	AUSTRALIA	AUD	SYDNEY
D33	AUSTRALIA	AUD	MELBOURNE
D34	AUSTRALIA	AUD	PERTH
D35	CZECH	EURO	PRAGUE
D36	HONG KONG	HKD	HONG KONG
D37	NEW ZELAND	NZD	AUCKLAND
D38	RUSSIA	USD	MOSCOW
D39	SOUTH KOREA	USD	KIMPO INTERNATIONAL, INCHEON
D40	FINLAND	EURO	HELSINKI
D41	ROMANIA	EURO	BUCHAREST
D42	NORWAY	EURO	OSLO
D43	IRELAND	EURO	DUBLIN
D44	ISRAEL	USD	TEL AVIV
D45	UAE	USD	DUBAI
D46	OMAN	USD	MUSCAT
D47	EGYPT	USD	CAIRO
D48	TAIWAN	USD	TAIPEI
D49	UKRAINE	USD	KIEV
D50	CHINA	USD	SHANGHAI, SHENZHEN
D51	PHILIPINES	USD	MANILA
D52	MALAYSIA	USD	KUALALUMPUR, PE NANG
D53	CYPRUS	USD	LARNACA
D54	SOUTH AFRICA	USD	JOHANNESBERG, DURBAN
D55	SLOVAKIA	EURO	BARTISLOVA
D56	SAUDI ARABIA	SAR	RIYADH
D57	TURKEY	EURO	ISTANBUL
D58	THAILAND	USD	BANGKOK
D59	BRAZIL	USD	SAO PAULO, RIO DE JANEIRO

ANNEXURE - II
REQUEST FOR C FORM

NAME OF VENDOR :

VENDOR CODE ALLOTTED BY BHEL :

E mail id for c form correspondence :

BHEL PO NO	INVOICE NO	INVOICE DATE	INVOICE AMOUNT	SUPPLY FROM - STATE	SUPPLY TO - STATE	CST TIN NUMBER (SUPPLIER)	INVOICE AMOUNT EXCLUDING FREIGHT	C FORM QTR	YEAR	SUPPLY TO BHEL EDN / SITE
---------------	---------------	-----------------	-------------------	---------------------------	-------------------------	-------------------------------------	---	---------------	------	---------------------------------

Please note that one 'C' form will be issued for a quarter.

Any modification and cancellation of c form is not possible from our end since it is generated online therefore include all invoices pertaining to quarter in your request
Also check the data are correct in all respect

General Instruction:

1. C form request should be given only in this file.
2. Amount should be 100% of Invoice value but should Not include freight, Insurance etc.
3. PO No. should be numeric, starting with 4 and has 10 digits
4. For every quarter separate file to be provided
5. All Invoices pertaining to the relevant quarter to be included.
6. No corrections will be entertained once c-form is issued.

ANNEXURE-III

BANK GUARANTEE FOR PERFORMANCE SECURITY

Bank Guarantee No:

Date:

To

NAME

& ADDRESSES OF THE BENEFICIARY

Dear Sirs,

In consideration of the Bharat Heavy Electricals Limited ¹ (hereinafter referred to as the 'Employer' which expression shall unless repugnant to the context or meaning thereof, include its successors and permitted assigns) incorporated under the Companies Act, 1956 and having its registered office at _____ through its Unit at.....(name of the Unit) having awarded to (Name of the Vendor / Contractor / Supplier) having its registered office at _____ ² hereinafter referred to as the 'Contractor/Supplier', which expression shall unless repugnant to the context or meaning thereof, include its successors and permitted assigns), a contract Ref No.....dated³ valued at Rs.....⁴ (Rupees -----)/FC.....(in words.....) for⁵ (hereinafter called the 'Contract') and the Contractor having agreed to provide a Contract Performance Guarantee, equivalent to% (.... Percent) of the said value of the Contract to the Employer for the faithful performance of the Contract,

we,, (hereinafter referred to as the Bank), having registered/Head office at and inter alia a branch at being the Guarantor under this Guarantee, hereby, irrevocably and unconditionally undertake to forthwith and immediately pay to the Employer a maximum amount Rs ----- (Rupees -----) without any demur, immediately on a demand from the Employer, .

Any such demand made on the Bank shall be conclusive as regards the amount due and payable by the Bank under this guarantee. However, our liability under this guarantee shall be restricted to an amount not exceeding Rs. _____.

We undertake to pay to the Employer any money so demanded notwithstanding any dispute or disputes raised by the Contractor/ Supplier in any suit or proceeding pending before any Court or Tribunal relating thereto our liability under this present being absolute and unequivocal.

The payment so made by us under this Guarantee shall be a valid discharge of our liability for payment thereunder and the contractors/supplier shall have no claim against us for making such payment.

We thebank further agree that the guarantee herein contained shall remain in full force and effect during the period that would be taken for the performance of the said Contract and that it shall continue to be enforceable till all the dues of the Employer under or by virtue of the said Contract have been fully paid and its claims satisfied or discharged.

We BANK further agree with the Employer that the Employer shall have the fullest liberty without our consent and without affecting in any manner our obligations hereunder to vary any of the terms and conditions of the said Contract or to extend time of performance by the said Contractor/Supplier from time to time or to postpone for any time or from time to time any of the powers exercisable by the Employer against the said Contractor/Supplier and to forbear or enforce any of the terms and conditions relating to the said Agreement and we shall not be relieved from our liability by reason of any such variation, or extension being granted to the said Contractor/Supplier or for any forbearance, act or omission on the part of the Employer or any indulgence by the Employer to the said Contractor/Supplier or by any such matter or thing whatsoever which under the law relating to sureties would but for this provision have effect of so relieving us.

The Bank also agrees that the Employer at its option shall be entitled to enforce this Guarantee against the Bank as a principal debtor, in the first instance without proceeding against the Contractor and notwithstanding any security or other guarantee that the Employer may have in relation to the Contractor's liabilities.

This Guarantee shall remain in force upto and including.....⁶ and shall be extended from time to time for such period as may be desired by Employer.

This Guarantee shall not be determined or affected by liquidation or winding up, dissolution or change of constitution or insolvency of the Contractor/Supplier but shall in all respects and for all purposes be binding and operative until payment of all money payable to the Employer in terms thereof.

Unless a demand or claim under this guarantee is made on us in writing on or before the⁷ we shall be discharged from all liabilities under this guarantee thereafter.

We, BANK lastly undertake not to revoke this guarantee during its currency except with the previous consent of the Employer in writing.

Notwithstanding anything to the contrary contained hereinabove:

- a) The liability of the Bank under this Guarantee shall not exceed.....⁸
- b) This Guarantee shall be valid up to⁹
- c) Unless the Bank is served a written claim or demand on or before¹⁰ all rights under this guarantee shall be forfeited and the Bank shall be relieved and discharged from all liabilities under this guarantee irrespective of whether or not the original bank guarantee is returned to the Bank.

We, _____ Bank, have power to issue this Guarantee under law and the undersigned as a duly authorized person has full powers to sign this Guarantee on behalf of the Bank.

For and on behalf of
(Name of the Bank)

Dated.....

Place of Issue.....

¹ NAME AND ADDRESS OF EMPLOYER I.e Bharat Heavy Electricals Limited

² NAME AND ADDRESS OF THE VENDOR /CONTRACTOR / SUPPLIER.

³ DETAILS ABOUT THE NOTICE OF AWARD/CONTRACT REFERENCE

⁴ PROJECT/SUPPLY DETAILS

⁵ BG AMOUNT IN FIGURES AND WORDS

⁶ VALIDITY DATE

⁷ DATE OF EXPIRY OF CLAIM PERIOD

⁸ BG AMOUNT IN FIGURES AND WORDS.

⁹ VALIDITY DATE

¹⁰ DATE OF EXPIRY OF CLAIM PERIOD

Note:

1. In Case of Bank Guarantees submitted by Foreign Vendors-

- a. From Nationalized/Public Sector / Private Sector/ Foreign Banks (BG issued by Branches in India)** can be accepted subject to the condition that the Bank Guarantee should be enforceable in the town/city or at nearest branch where the Unit is located i.e. Demand can be presented at the Branch located in the town/city or at nearest branch where the Unit is located.
- b. From Foreign Banks (wherein Foreign Vendors intend to provide BG from local branch of the Vendor country's Bank)**
 - b.1** In such cases, in the Tender Enquiry/ Contract itself, it may be clearly specified that Bank Guarantee issued by **any of the Consortium Banks only** will be accepted by BHEL. As such, Foreign Vendor needs to make necessary arrangements for issuance of Counter- Guarantee by Foreign Bank in favour of the Indian Bank (BHEL's Consortium Bank). It is advisable that all charges for issuance of Bank Guarantee/ counter- Guarantee should be borne by the Foreign Vendor. The tender stipulation should clearly specify these requirements.
 - b.2** In case, Foreign Vendors intend to provide BG from Overseas Branch of our Consortium Bank (e.g. if a BG is to be issued by SBI Frankfurt), the same is acceptable. However, the procedure at **sl.no. b.1** will required to be followed.
 - b.3** The BG issued may preferably be subject to Uniform Rules for Demand Guarantees (URDG) 758 (as amended from time to time). In case, of Foreign Vendors, the BG Format provided to them should clearly specify the same.
 - b.4** The BG should clearly specify that the demand or other document can be presented in electronic form.

ANNEXURE - IV

Electronic Funds Transfer (EFT) OR Paylink Direct Credit Form

Please Fill up the form in **CAPITAL LETTERS** only.

TYPE OF REQUEST(Tick one): _____ CREATE _____ CHANGE

BHEL Vendor / Supplier Code:	
Company Name :	
Permanent Account Number(PAN):	
Address	

City: _____	PINCODE _____	STATE _____
-------------	---------------	-------------

Contact Person(s)	
Telephone No:	
Fax No:	
e-mail id:	

1 Bank Name:	
2 Bank Address:	
3 Bank Telephone No:	
4 Bank Account No:	
5 Account Type: Savings/Cash Credit	
6 9 Digit Code Number of Bank and branch appearing on MICR cheque issued by Bank	
7 Bank swift Code(applicable for EFT only)	
8 Bank IFSC code(applicable for RTGS)	
9 Bank IFSC code(applicable for NEFT)	

- A I hereby certify that the particulars given above are true, correct and complete and that I, as a representative for the above named Company, hereby authorise BHEL, EDN, Bangalore to electronically deposit payments to the designated bank account.
- B If the transaction is delayed or not effected at all for reasons of incomplete or incorrect information, I would not hold BHEL / transferring Bank responsible.
- C This authority remains in full force until BHEL, EDN, Bangalore receives written notification requesting a change or cancellation.
- D I have read the contents of the covering letter and agree to discharge the responsibility expected of me as a participant under ECS / EFT.

Date:

Authorised Signatory:

Designation:

Telephone NO. with STD Code

Company Seal

Bank Certificate

We certify that _____ has an Account No _____ with us and we confirm that the bank details given above are correct as per our records.

Date: _____ (.....)

Place: _____ Signature _____

Please return completed form along with a blank cancelled cheque or photocopy thereof to:

Bharath Heavy Electricals Ltd,

Attn:

Electronics Division, Mysore Road,

BANGALORE - 560 026

In case of any Query, please call : 080-26998xxx / 2674xxxx or fax no. 080-2674xxxx

ANNEXURE-V
BHEL MEMBER BANKS (LIST OF CONSORTIUM BANKS)

BANK GUARANTEE (BG) SHALL BE ISSUED FROM THE FOLLOWING BANKS ONLY:

	Nationalised Banks		Nationalised Banks
1	Allahabad Bank	19	Vijaya Bank
2	Andhra Bank		Public Sector Banks
3	Bank of Baroda	20	IDBI
4	Canara Bank		Foreign Banks
5	Corporation Bank	21	CITI Bank N.A
6	Central Bank	22	Deutsche Bank AG
7	Indian Bank	23	The Hongkong and Shanghai Banking Corporation Ltd. (HSBC)
8	Indian Overseas Bank	24	Standard Chartered Bank
9	Oriental Bank of Commerce		
10	Punjab National Bank	26	J P Morgan
11	Punjab & Sindh Bank		Private Banks
12	State Bank of India	27	Axis Bank
13	State Bank of Hyderabad	28	The Federal Bank Limited
14	Syndicate Bank	29	HDFC Bank
15	State Bank of Travancore	30	Kotak Mahindra Bank Ltd
16	UCO Bank	31	ICICI Bank
17	Union Bank of India	32	IndusInd Bank
18	United Bank of India	33	Yes Bank

Note:

- All BGs must be issued from BHEL consortium banks listed above.
- BHEL may accept BG from other Nationalised Banks also which are not listed above.
- BG will not be accepted from Scheduled Banks and Co-operative Banks.
- In case BG is issued from a bank located outside Indian territory and is issued in foreign currency, the BG must be routed through and confirmed by any one of the above mentioned consortium banks or any of the Indian Public Sector Banks.
- This list is subject to changes. Hence vendors are requested to check this list every time before issuing BGs.

ANNEXURE - VI

DISCREPANCY IN WORDS & FIGURES – QUOTED IN PRICE BID

Following guidelines will be followed in case of discrepancy in words & figures-quoted in price bid:

- (a) 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 the purchaser there is an obvious misplacement of the decimal point in the unit price, in which case the total price as quoted shall govern and the unit price corrected accordingly.
- (b) 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; and
- (c) 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 to (a) and (b) above.
- (d) If there is such discrepancy in an offer, the same shall be conveyed to the bidder with target date upto which the bidder has to send his acceptance on the above lines and if the bidder does not agree to the decision of the purchaser, the bid is liable to be ignored.

ANNEXURE - VII

BENEFITS FOR MSE SUPPLIERS AS PER MSMED ACT 2006 AND PUBLIC PROCUREMENT POLICY 2012

MSE suppliers can avail the intended benefits only if they submit along with the offer, attested copies of either EM II certificate having deemed validity (five years from the date of issue of Acknowledgement in EM II).

Or

Valid NSIC certificate or EM II certificate along with attested copy of CA certificate (Format enclosed: ANNEXURE VIII) where deemed validity of EM II certificate of five years has expired) applicable for the relevant financial year (latest audited).

Date to be reckoned for determining the deemed validity will be the date of bid opening (Part 1 in case of two part bid).

Non-submission of such documents will lead to consideration of their bid at par with other bidders.

No benefit shall be applicable for this enquiry if any deficiency in the above required documents are not submitted before price bid opening. If the tender is to be submitted through e-procurement portal, then the above required documents are to be uploaded on the portal. Documents should be notarized or attested by a Gazette officer.

ANNEXURE - VIII
CERTIFICATE BY CHARTERED ACCOUNTANT ON LETTER HEAD

This is to certify that M/s
.....(Hereinafter referred to as 'Company') having
its registered office at is registered under MSMED Act 2006, (Entrepreneur
Memorandum No ((Part-II) dtd Category:
(Micro/Small). (Copy enclosed).

Further verified from the Books of Accounts that the investment of the company as per the
latest audited financial year **as per MSMED Act 2006 is as follows:**

1. For Manufacturing Enterprises: Investment in plant and machinery (i.e., original cost excluding land
and building and the items specified by the Ministry of Small Industries vide its notification No.S.O.1722
(E) dated October 5, 2006:

Rs.Lacs.

2. For Service Enterprises: Investment in equipment (original cost excluding land and building
and furniture, fittings and other items not directly related to the service rendered or as may be
notified under the MSMED Act, 2006:

Rs.Lacs.

The above investment of Rs. Lacs in within permissible limit of Rs..... Lacs
for.....Micro / Small (Strike off which is not applicable) Category under MSMED
Act 2006.

(or)

The company has been graduated from its original category (Micro/Small) (Strike off which is not
applicable) and the date of graduation of such enterprise from its original category is
.....(dd/mm/yy) which is within the period of 3 years from the date of graduation of such enterprise
from its original category as notified vide S.O.No.3322(E) dated 01.11.2013 published in the gazette
notification dated 04.11.2013 by Ministry of MSME.

Date:

(Signature)

Name -

Membership Number -

Seal of Chartered Accountant

ANNEXURE - IX

In case of intrastate movement i.e. supply within same state and VAT is applicable, the vendor shall furnish the respective BHEL™s nodal agency TIN no. and address in their invoice.

List of Statewise Nodal Officers with Contact Details

Region	State	Nodal Unit responsible for all other units except those in column 4	Contact Details- Landline No.	E-mail	TIN No.	CST No.
1	2	3		7	8	9
Norther States	Jammu & Kashmir	PSNR	0120-2510488/2416452	rahulb@bhelsnr.co.in / a.chadha@bhelsnr.co.in	01291101313	
	Himachal Pradesh	PSNR			02011000622	
	Punjab	PSNR			03451148722	
	Haryana	PSNR			06962606884	
	Rajasthan	PSNR			08232903345	
	Uttar Pradesh	PSNR	0120-2416536	rahulb@bhelsnr.co.in / smittal@bhelsnr.co.in	09365800914	
	Uttarakhand	Hardwar	01334-285449	alok@bhelhwr.co.in	05001757277 Dated 30th Sep 2005	5000030 Dated 13/03/1965
	Delhi	TBG	0120-6748429	skiindal@bhel.in	07472001760	07472001760
Western States	Madhya Pradesh	Bhopal	0755-2503231	meeta@bhelbpl.co.in	23573600001 (HEL/05/01/0001/S dated 15/11/1979 under MPCT)	HEL/05/01/0004/C dated 15/11/1979
	Chattisgarh	PSWR	0712-3048609	m Gupta@bhelswr.co.in	22173202974	
	Gujarat	PSWR	0265-2370321	bhavin@bhelswr.co.in	24190101571	
	Maharashtra	ROD Mumbai	022-22126061/22187850	mahajani@bhel.in	27060300130V	27060300130C
	Daman & Diu	EDN	080-26998724 / 26998830	theerthagiri@bheledn.co.in	25000009902	
Southern States	Orissa	PSSR	044-28286773	sparida@bhelssr.co.in / lakshmi@bhelssr.co.in	21031301916	
	Tamil Nadu	Trichy	0431-2577757/ 2577229	msrao@bheltry.co.in / bharaths@bheltry.co.in	33243560005	239383 dt.11.6.91
	Kerala	PSSR	044-28286773	lakshmi@bhelssr.co.in	32072043622	
	Karnataka	EDN	080-26998724 / 26998830	theerthagiri@bheledn.co.in	29180069268	00850081
	Telangana	HPEP RC, Puram	040-23185406/ 040-23182238	chand@bhelhyd.co.in / sbsv@bhelhyd.co.in	36360151179	
	Andhra Pradesh	HPVP, Vizag	0891-6681298	sarmaass@bhvpvl.com	37418632431	
	Puducherry	PSSR				
Eastern States	West Bengal	PSER	033-23216130-3238	amitavac@bhelsper.co.in	19200936019	19200936213
	Bihar	PSER	0612-2231275	rakesh@bhelsper.co.in	10010994046	10010994046
	Jharkhand	PSER	06549-266351(Sh. Parmanand Swaroop)/06534-292179 (Sh. K.K. Ajeet)	pswaroop@bhelsper.co.in (Bokaro) kk.ajit@bhelsper.co.in (Koderma/Abhijeet/North Karanpura) manishk.jain@bhelsper.co.in (Chandrapura)/ kpsubbu@bhelsper.co.in	20352205642 (Bokaro) 20082005255 (Maithon) 20512405410 (Koderma) 20122200394 (Chandrapura) 20620905730(Adhunik) 20650507026(Abhijeet) 20452110016 (North Karanpura)	TG-729(C)
	Mizoram	PSER	033-23216130-3249	anindya@bhelsper.co.in	15501465017	
	Arunachal Pradesh	PSER	033-23216130-3249	anindya@bhelsper.co.in	12020122182	Not Applied
	Assam	PSER	033-23216130-3249	anindya@bhelsper.co.in	18790101415	18179903204
	Tripura	PSER	03821-265209	mkmahato@bhelsper.co.in	16060947071	16060947273
	Sikkim	PSER				
	Meghalaya	PSER				
	Manipur	PSER				
	Nagaland	PSER				

INTEGRITY PACT

Between

Bharat Heavy Electricals Ltd. (BHEL), a company registered under the Companies Act 1956 and having its registered office at “BHEL House”, Siri Fort, New Delhi – 110049 (India) hereinafter referred to as “The Principal”, which expression unless repugnant to the context or meaning hereof shall include its successors or assigns of the ONE PART

and

_____, (description of the party along with address), hereinafter referred to as “The Bidder/ Contractor” which expression unless repugnant to the context or meaning hereof shall include its successors or assigns of the OTHER PART

Preamble

The Principal intends to award, under laid-down organizational procedures, contract/s for

_____. The Principal values full compliance with all relevant laws of the land, rules and regulations, and the principles of economic use of resources, and of fairness and transparency in its relations with its Bidder(s)/ Contractor(s).

In order to achieve these goals, the Principal will appoint Independent External Monitor(s), who will monitor the tender process and the execution of the contract for compliance with the principles mentioned above.

Section 1 – Commitments of the Principal

- 1.1 The Principal commits itself to take all measures necessary to prevent corruption and to observe the following principles:-
 - 1.1.1 No employee of the Principal, personally or through family members, will in connection with the tender for, or the execution of a contract, demand, take a promise for or accept, for self or third person, any material or immaterial benefit which the person is not legally entitled to.
 - 1.1.2 The Principal will, during the tender process treat all Bidder(s) with equity and reason. The Principal will in particular, before and during the tender process, provide to all Bidder(s) the same information and will not provide to any Bidder(s) confidential / additional information through which the Bidder(s) could obtain an advantage in relation to the tender process or the contract execution.
 - 1.1.3 The Principal will exclude from the process all known prejudiced persons.
- 1.2 If the Principal obtains information on the conduct of any of its employees which is a penal offence under the Indian Penal Code 1860 and Prevention of Corruption Act 1988 or any other statutory penal enactment, or if there be a substantive suspicion in this regard, the Principal will inform its Vigilance Office and in addition can initiate disciplinary actions.

Section 2 – Commitments of the Bidder(s)/ Contractor(s)

- 2.1 The Bidder(s)/ Contractor(s) commit himself to take all measures necessary to prevent corruption. He commits himself to observe the following principles during his participation in the tender process and during the contract execution.
 - 2.1.1 The Bidder(s)/ Contractor(s) will not, directly or through any other person or firm, offer, promise or give to the Principal or to any of the Principal's employees involved in the tender process or the execution of the contract or to any third person any material, immaterial or any other benefit which he / she is not legally entitled to, in

order to obtain in exchange any advantage of any kind whatsoever during the tender process or during the execution of the contract.

- 2.1.2 The Bidder(s)/ Contractor(s) will not enter with other Bidder(s) into any illegal or undisclosed agreement or understanding, whether formal or informal. 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.
- 2.1.3 The Bidder(s)/ Contractor(s) will not commit any penal offence under the relevant IPC/ PC Act; further the Bidder(s)/ Contractor(s) will not use improperly, for purposes of competition or personal gain, or pass on to others, any information or document provided by the Principal as part of the business relationship, regarding plans, technical proposals and business details, including information contained or transmitted electronically.
- 2.1.4 The Bidder(s)/ Contractor(s) will, when presenting his bid, disclose any and all payments he has made, and is committed to or intends to make to agents, brokers or any other intermediaries in connection with the award of the contract.
- 2.2 The Bidder(s)/ Contractor(s) will not instigate third persons to commit offences outlined above or be an accessory to such offences.

Section 3 – Disqualification from tender process and exclusion from future contracts

If the Bidder(s)/ Contractor(s), before award or during execution has committed a transgression through a violation of Section 2 above, or acts in any other manner such as to put his reliability or credibility in question, the Principal is entitled to disqualify the Bidders(s)/ Contractor(s) from the tender process or take action as per the separate “Guidelines for Suspension of Business Dealings with Suppliers/ Contractors” framed by the Principal.

Section 4 – Compensation for Damages

- 4.1 If the Principal has disqualified the Bidder(s) from the tender process prior to the award according to Section 3, the Principal is entitled to demand and recover the damages equivalent to Earnest Money Deposit/ Bid Security.
- 4.2 If the Principal has terminated the contract according to Section 3, or if the Principal is entitled to terminate the contract according to section 3, the Principal shall be entitled to demand and recover from the Contractor liquidated damages equivalent to 5% of the contract value or the amount equivalent to Security Deposit/Performance Bank Guarantee, whichever is higher.

Section 5 – Previous Transgression

- 5.1 The Bidder declares that no previous transgressions occurred in the last 3 years with any other company in any country conforming to the anti-corruption approach or with any other Public Sector Enterprise in India that could justify his exclusion from the tender process.
- 5.2 If the Bidder makes incorrect statement on this subject, he can be disqualified from the tender process or the contract, if already awarded, can be terminated for such reason.

Section 6 – Equal treatment of all Bidders/ Contractors/ Sub-contractors

- 6.1 The Bidder(s)/ Contractor(s) undertake(s) to demand from his sub-contractors a commitment consistent with this Integrity Pact. This commitment shall be taken only from those sub-contractors whose contract value is more than 20% of Bidder's/ Contractor's contract value with the Principal.
- 6.2 The Principal will enter into agreements with identical conditions as this one with all Bidders and Contractors.
- 6.3 The Principal will disqualify from the tender process all bidders who do not sign this pact or violate its provisions.

Section 7 – Criminal Charges against violating Bidders/ Contractors /Sub-contractors

If the Principal obtains knowledge of conduct of a Bidder, Contractor or Subcontractor, or of an employee or a representative or an associate of a Bidder, Contractor or Subcontractor which constitutes corruption, or if the Principal has substantive suspicion in this regard, the Principal will inform the Vigilance Office.

Section 8 –Independent External Monitor(s)

- 8.1 The Principal appoints competent and credible Independent External Monitor for this Pact. The task of the Monitor is to review independently and objectively, whether and to what extent the parties comply with the obligations under this agreement.
- 8.2 The Monitor is not subject to instructions by the representatives of the parties and performs his functions neutrally and independently. He reports to the CMD, BHEL.
- 8.3 The Bidder(s)/ Contractor(s) accepts that the Monitor has the right to access without restriction to all contract documentation of the Principal including that provided by the Bidder(s)/ Contractor(s). The Bidder(s)/ Contractor(s) will grant the monitor, upon his request and demonstration of a valid interest, unrestricted and unconditional access to his contract documentation. The same is applicable to Sub-contractor(s). The Monitor is under contractual obligation to treat the information and documents of the Bidder(s)/ Contractor(s) / Sub-contractor(s) with confidentiality.
- 8.4 The Principal will provide to the Monitor sufficient information about all meetings among the parties related to the contract provided such meetings could have an impact on the contractual relations between the Principal and the Contractor. The parties offer to the Monitor the option to participate in such meetings.
- 8.5 As soon as the Monitor notices, or believes to notice, a violation of this agreement, he will so inform the Management of the Principal and request the Management to discontinue or

take corrective action, or heal the situation, or to take other relevant action. The Monitor can in this regard submit non-binding recommendations. Beyond this, the Monitor has no right to demand from the parties that they act in a specific manner, refrain from action or tolerate action.

- 8.6 The Monitor will submit a written report to the CMD, BHEL within 8 to 10 weeks from the date of reference or intimation to him by the Principal and, should the occasion arise, submit proposals for correcting problematic situations.
- 8.7 The CMD, BHEL shall decide the compensation to be paid to the Monitor and its terms and conditions.
- 8.8 If the Monitor has reported to the CMD, BHEL, a substantiated suspicion of an offence under relevant IPC / PC Act, and the CMD, BHEL has not, within reasonable time, taken visible action to proceed against such offence or reported it to the Vigilance Office, the Monitor may also transmit this information directly to the Central Vigilance Commissioner, Government of India.
- 8.9 The number of Independent External Monitor(s) shall be decided by the CMD, BHEL.
- 8.10 The word 'Monitor' would include both singular and plural.

Section 9 – Pact Duration

- 9.1 This Pact begins when both parties have legally signed it. It expires for the Contractor 12 months after the last payment under the respective contract and for all other Bidders 6 months after the contract has been awarded.
- 9.2 If any claim is made / lodged during this time, the same shall be binding and continue to be valid despite the lapse of this pact as specified as above, unless it is discharged/ determined by the CMD, BHEL.

Section 10 – Other Provisions

- 10.1 This agreement is subject to Indian Laws and jurisdiction shall be registered office of the Principal, i.e. New Delhi.
- 10.2 Changes and supplements as well as termination notices need to be made in writing. Side agreements have not been made.
- 10.3 If the Contractor is a partnership or a consortium, this agreement must be signed by all partners or consortium members.
- 10.4 Should one or several provisions of this agreement turn out to be invalid, the remainder of this agreement remains valid. In this case, the parties will strive to come to an agreement to their original intentions.
- 10.5 Only those bidders/ contractors who have entered into this agreement with the Principal would be competent to participate in the bidding. In other words, entering into this agreement would be a preliminary qualification.

For & On behalf of the Principal
(Office Seal)

For & On behalf of the Bidder/ Contractor
(Office Seal)

Place-----

Date-----

Witness: _____

(Name & Address) _____

Witness: _____

(Name & Address)_____
