


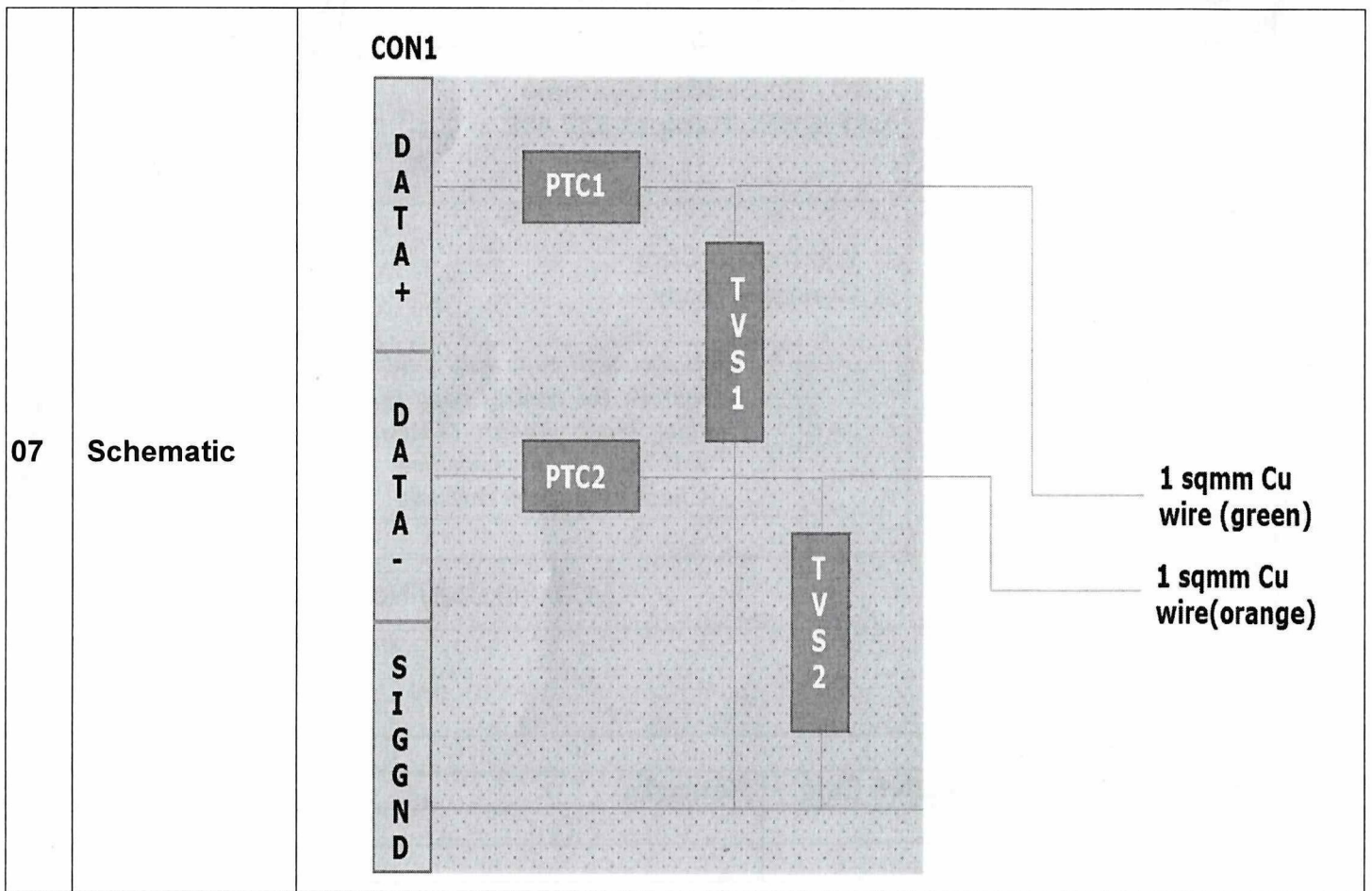




| Reference No. | Rev No. | Effective Date |
|--------------------------|---|---|
| TEP:EMBS:SPB-001 | 00 | 06-06-2022 |
| TITLE | TECHNICAL SPECIFICATION FOR SURGE PROTECTION BOARD | |
| Prepared by | S.Aravind Rajkumar / Engineer |  |
| Reviewed by | Remya Kukkilliya / Deputy Manager |  |
| Approved by | Divya S Pai / Senior Manager |  |
| Issued and Controlled by | EDC / Embedded Systems BAP/BHEL/Ranipet-632 406 | |
| Document Status | <input type="checkbox"/> Information Copy <input type="checkbox"/> Conrolled Copy <div style="border: 1px dashed black; padding: 5px; margin-top: 10px;"><p>* It is a control copy only if the mark against the control copy is other than black colour, otherwise it will be an uncontrolled copy. Check for current revision.</p></div> | |
| Issued to: | Control Copy No: | |

| Records of Revision | | |
|---------------------|----------------|---------|
| Rev. No. | Effective Date | Remarks |
| | | |
| | | |




| | | |
|----|----------------------------|---|
| 01 | Scope | Supply of Surge Protection Board as per the attached BOM and scheme |
| 02 | Ambient Temperature | 1 Deg.C to 70 Deg.C |
| 03 | Humidity | 95% RH |
| 04 | Surroundings | Dusty, humid & corrosive atmosphere of a coal / oil fired boiler |
| 05 | Design temperature | 70 Deg. C |
| 06 | Location | Indoor & Outdoor |



| | | | | | |
|----|---------------------------------------|---|---|---------------------|---|
| 08 | BOM | BILL OF MATERIAL | | | |
| | | SL NO: | ITEM | MAKE | PART NO: |
| | | 1 | TVS DIODE (TVS1 & TVS2) | Littlefuse | P6SMB12CA |
| | | 2 | PTC – Resettable fuse (PTC1 & PTC2) | Littlefuse | TRF600-160 |
| | | 3 | PCB (APPROX SIZE - 50MM X 17.5MM) | BHEL approved makes | |
| | | 4 | CONNECTOR (CON1) | Phoenix | MKDSN 2,5/3-5,08 BD:1-3 |
| | | 5 | 1 sqmm Cu wire | BHEL approved makes | 15cm (One end soldered on PCB and the other end crimped and lugged with polarity marking) |
| 6 | Heat shrinkable sleeve around the PCB | BHEL approved makes | The sleeve shall enclose the complete PCB along with the cable joint. | | |
| 09 | PCB design | The PCB shall be of glass epoxy FR4 grade and solder masked prints. The components shall be wave soldered wherever possible. The component labels shall be neatly screen printed on the PCB and the PCBs shall be of 1 layer. BHEL workmanship standard PR:QA:555 shall be followed. | | | |
| 10 | Special technical requirements | <ol style="list-style-type: none"> 1. Selection of components for the card shall strictly meet as per the bill of material. If the supplier makes any deviation from this BOM the same shall be informed to BHEL. Only when this deviation is accepted by BHEL, the same shall be used. Otherwise the deviation will not be permitted. 2. The supplier shall get approval for PCB layout, General arrangement of components in the PCBs, fascia (in case applicable), general arrangement of casing, cable etc, from BHEL Ranipet before start of manufacture. 3. All components shall be industrial grade. If, industrial grade components are not available, commercial grade components can be used after they are screened for industrial grade. This requires approval from BHEL before manufacturing. 4. Provision for PCB earthing shall be made at one corner with proper screw. Proper marking of earth symbol shall be made near the earth screw. | | | |

| | | |
|-----------|--------------------------------------|--|
| <p>11</p> | <p>Inspection and testing</p> | <p><u>ROUTINE TESTS:</u></p> <p>To be conducted on all boards. During or after the test, if any unit fails that particular unit will be rejected.</p> <p>1) Visual check All the cards shall be checked visually for the make of the components as per the approved Bill of materials. The PCBs shall be checked as per approved Quality Procedure and also shall be checked for any soldering track damage.</p> <p>2) Functional check The functional check shall be carried out as per BHEL approved test procedure in each and every stage of type test and routine test.</p> <p>3) Soak test The controller shall be kept as in normal operation with power on condition for 48 hrs on ambient temperature. The performance shall be satisfactory during and after the test.</p> <p>4) Burn in test The controller shall be subjected to temperature $+50^{\circ}\text{C} \pm 2^{\circ}\text{C}$ for 48Hrs. The rated voltage shall be supplied for 11 hrs followed by $\pm 10\%$ of rated voltage for half an hrs each. This procedure shall be repeated for four such cycles. The performance of the unit during and after the test shall be satisfactory. The controller and its accessories shall be inspected and tested based on the following documents.</p> <ol style="list-style-type: none"> BHEL Purchase Order. BHEL Technical Specification. BHEL Approved bill of materials. BHEL Quality Plan. |
| <p>12</p> | <p>Packing</p> | <p>Each board shall be packed separately with polythene cover/bubble sheet and thermo Cole/PUF material sheets and entire set of boards / maximum possible are to be packed in a single corrugated PVC box.</p> <ol style="list-style-type: none"> Packing slip shall contain the following information. <ol style="list-style-type: none"> PO no. & date Project No. Item description & quantity The packing slip shall be pasted on the top cover of each box. In addition to this, material code no. shall be written on both the sides of the PVC box (Font size shall be 35mm). One packet of 25 grams of Silica gel each are to be placed between the cards on both the sides, on the inner surface of each controller to avoid failure due to moisture ingress in the electronic components. Shipping marks like "KEEP DRY", "FRAGILE", "HANDLE WITH CARE" and "UPRIGHT" shall be provided on the packing. <p>In general the packing shall be done in such a way that, the Surge Protection Boards shall not be damaged during transit and storage.</p> |
| <p>13</p> | <p>Special instructions</p> | <ol style="list-style-type: none"> PCB art work/PCB design files (editable format), Gerber data, film NC drill data, manufacturing schematic drawing (in ORCAD format), components layout drawing and all relevant fabrication documents shall be handed over to BHEL as part of deliverable items. |

TECHNICAL SPECIFICATION FOR BOUGHT OUT ITEMS

| | | |
|--|--|---|
| Reference No. | Rev No. | Effective Date |
| TEP:ZIGBEE DONGLE | 05 | 10.06.2020 |
| TITLE | | |
| TECHNICAL SPECIFICATION FOR ZIGBEE DONGLE | | |
| PROJECT | | |
| GENERAL & NTPC | | |
| Prepared by | Vivek Philip John/Senior Engineer |  |
| Reviewed by | Remya Kukkilliya/ Deputy Manager |  |
| Approved by | Divya S Pai/Manager |  |
| Issued and Controlled by | Electronic Shop EDC / Embedded Systems BAP/BHEL/Ranipet-632 406 | |
| Document Status | <input type="checkbox"/> Information Copy <input type="checkbox"/> Controlled Copy. <div style="border: 1px dashed black; padding: 5px; margin-top: 5px;"> * It is a control copy only if the mark against the control copy is other than black colour, otherwise it will be an uncontrolled copy. Check for current revision. </div> | |
| Issued to: | | Control Copy No: |

| Records of Revision | | |
|----------------------------|-----------------------|---|
| Rev. No. | Effective Date | Remarks |
| 00 | 01.10.2015 | Initial Release |
| 01 | 12.02.2016 | General Revision |
| 02 | 21.03.2016 | Cable Spec./ PCB revised |
| 03 | 20.04.2016 | General rev |
| 04 | 0.08.2017 | General rev/ BOM revised |
| 05 | 10.06.2020 | BOM revised and Type test requirement removed |

| Reference No. | Rev No. | Effective Date |
|-------------------|---------|----------------|
| TEP:ZIGBEE DONGLE | 05 | 10.06.2020 |

| | | |
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| 01 | Scope | Supply of Industrial grade ZigBee dongle and its accessories including procurement of components, fabrication, testing, packing and delivery. |
| 02 | Ambient Temperature | 1 Deg.C to 70 Deg.C |
| 03 | Humidity | 100% RH |
| 04 | Surroundings | Dusty, humid & corrosive atmosphere of a coal / oil fired boiler |
| 05 | Design temperature | 70 Deg. C |
| 06 | Location | Outdoor |
| 07 | Components | i) ZigBee dongle card ii) ZigBee dongle casing iii) 2.4 GHz Antenna |
| 08 | Gerber scheme | After PO |
| 09 | BOM | As per doc no: 4-00-114-32151 Rev 05 & 4-00-114-32152 Rev 05 |
| 10 | PCB design | The PCB shall be of glass epoxy FR4 grade. Solder masked and the component labels shall be neatly screen printed on the PCB and the PCBs shall be of 2 layers (Main),1 layer(Piggy bag). BHEL workmanship standard PR:QA:555 shall be followed. |
| 11 | Casing design | <p>1) The enclosure shall be made of 5mm aluminum bezel with gasket and 1.0 mm MS back cover of either black/silver or light grey colour.</p> <p>2) The front fascia shall be of polyester film but not with polycarbonate and PVC film. It shall have enhanced chemical resistance and dramatically improved flex life.</p> <p>3) Two nos. of L-Shaped clamp shall be supplied along with each controller. The controller shall have two nos. tapped drilled hole at opposite corner on the back cover in such a way that the controller shall be able to fix in panel/cutout palate using the L- shaped clamp.</p> <p>4) NEOPRENE rubber gasket with shore hardness 26 shall be provided in the front part of the casing around the rear part. The class of protection shall be IP54 for front fascia.</p> <p>5) Provision for casing earthing shall be made at back side of controller with earth screw and two washers. Proper marking of earth symbol shall be made near the earth screw.</p> |

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|-------------------|---------|----------------|
| Reference No. | Rev No. | Effective Date |
| TEP:ZIGBEE DONGLE | 05 | 10.06.2020 |

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|------------------------------------|------------------------|---|------------------------------------|----------|----------------------------|----------------|-----------------------|----------|-----------------------------|------|---------------------------|----------|----------------------------|----------|
| 12 | Interfacing cable | <p>1100V multi-strand 0.5-1C PVC insulated copper wires with ISI approved makes. The cable shall meet requirements of VDE 0207 Part 5.</p> <table border="1"> <tr> <td>Mutual Capacitance at 0.8KHz (max)</td> <td>100nF/KM</td> </tr> <tr> <td>Conductor Resistance (max)</td> <td>73.4 ohms / KM</td> </tr> <tr> <td>Insulation Resistance</td> <td>100Mohms</td> </tr> <tr> <td>Cross talk figure at 0.8KHz</td> <td>60dB</td> </tr> <tr> <td>Characteristics Impedance</td> <td>320 ohms</td> </tr> <tr> <td>Attenuation figure at 1KHz</td> <td>1.2dB/KM</td> </tr> </table> | Mutual Capacitance at 0.8KHz (max) | 100nF/KM | Conductor Resistance (max) | 73.4 ohms / KM | Insulation Resistance | 100Mohms | Cross talk figure at 0.8KHz | 60dB | Characteristics Impedance | 320 ohms | Attenuation figure at 1KHz | 1.2dB/KM |
| Mutual Capacitance at 0.8KHz (max) | 100nF/KM | | | | | | | | | | | | | |
| Conductor Resistance (max) | 73.4 ohms / KM | | | | | | | | | | | | | |
| Insulation Resistance | 100Mohms | | | | | | | | | | | | | |
| Cross talk figure at 0.8KHz | 60dB | | | | | | | | | | | | | |
| Characteristics Impedance | 320 ohms | | | | | | | | | | | | | |
| Attenuation figure at 1KHz | 1.2dB/KM | | | | | | | | | | | | | |
| 13 | Inspection and testing | <p><u>ROUTINE TESTS:</u> To be conducted on all controllers. During or after the test, if any unit fails that particular unit will be rejected.</p> <p>1) Visual check All the cards shall be checked visually for the make of the components as per the approved Bill of materials. The PCBs shall be checked as per approved Quality Procedure and also shall be checked for any soldering track damage.</p> <p>2) Functional check The functional check shall be carried out as per BHEL approved test procedure in each and every stage of type test and routine test.</p> <p>3) Soak test The controller shall be kept as in normal operation with power on condition for 48 hrs on ambient temperature. The performance shall be satisfactory during and after the test.</p> <p>4) Burn In test The controller shall be subjected to temperature $+50^{\circ}\text{C} \pm 2^{\circ}\text{C}$ for 48Hrs. The rated voltage shall be supplied for 11 hrs followed by $\pm 10\%$ of rated voltage for half an hrs each. This procedure shall be repeated for four such cycles. The performance of the unit during and after the test shall be satisfactory.</p> <p>The controller and its accessories shall be inspected and tested based on the following documents. a) BHEL Purchase Order. b) BHEL Technical Specification. c) BHEL Approved bill of materials. d) BHEL Quality Plan.</p> | | | | | | | | | | | | |
| | | <p>Each ZigBee dongle and its accessories shall be packed separately with polythene cover/bubble sheet and thermocole/PUF material sheets and entire set of ZigBee dongle and its accessories are to be packed in a single corrugated PVC box.</p> | | | | | | | | | | | | |

| Reference No. | Rev No. | Effective Date |
|-------------------|---------|----------------|
| TEP:ZIGBEE DONGLE | 05 | 10.06.2020 |

| | | |
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| 14 | Packing | <p>1) Packing slip shall contain the following information.</p> <ol style="list-style-type: none"> PO no. & date Project No. Dongle SI. no. Item description & quantity <p>2) The packing slip shall be pasted on the top cover of each box.</p> <p>3) In addition to this, material code no. shall be written on both the sides of the PVC box (Font size shall be 35mm).</p> <p>4) In the case of controllers inspected by NTPC, "NTPC INSPECTED" sticker shall be pasted on the controller outer surface near sl. No. marking and on all four sides of PVC box to avoid the mixing up of NTPC & Non-NTPC controllers.</p> <p>5) One packet of 25 grams of Silica gel each are to be placed between the cards on both the sides, on the inner surface of each controller to avoid failure due to moisture ingress in the electronic components.</p> <p>6) Shipping marks like "KEEP DRY, FRAGILE, HANDLE WITH CARE and UPRIGHT" shall be provided on the packing.</p> <p>In general the packing shall be done in such a way that, the ZigBee dongle and its accessories shall not be damaged during transit and storage.</p> |
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NIT

Enq ref : Antenna and Surge board

Date: 26-07-2022

BHEL Ranipet Enq for.: Antenna for NTPC Tanda and Surge board for NTPC Solapur

Sub: Supply of Antenna for NTPC Tanda and Surge board for NTPC Solapur

Scope of supply: As subjected above in confirmation with Quality plan. The package consists of:

| SURGE PROTECTION BOARD AS PER TECH SPECIFICATION TEP:EMBS:SPB-01 REV:00 | | | | | |
|--|-----------|---|---------|------------|-------------|
| SI | Matl Code | DESCRIPTION | Qty Set | Dly Req | Quoted/ Not |
| 1 | REL20757 | SURGE PROTECTION BOARD AS PER TECH SPECIFICATION TEP:EMBS:SPB-01 REV:00 | 1000 | 31-10-2022 | |

| 2.4 GHZ ANTENNA WITH FLYING LEAD & UFL CONNECTOR ONLY AS PER THE TECHNICAL SPECIFICATION. TEP:ZIGBEE DONGLE REV 05 AND THE BOM DRG NO 4-00-114-32152 REV05. | | | | | |
|--|-----------|------------------|---------|------------|-------------|
| SI | Matl Code | DESCRIPTION | Qty Set | Dly Req | Quoted/ Not |
| 2 | REL20758 | Antenna as above | 100 | 31-10-2022 | |

Destination: Stores BHEL, BAP-Ranipet 632406

Delivery required date: As per above table or within 3 months from the date of manufacturing clearance, whichever is later. Bidder to quote the best possible delivery from the date of manufacturing clearance. Abnormal quoted delivery, liable for rejection of offer.

Technical Pre-Qualification Requirement (PQR):

Any manufacturer or Trader/Dealer with valid GSTIN may participate in the tender

Technical requirement

(g). **Manufacturing: Document Submission-**Drawing, Data sheet and quality plan shall be submitted upon ordering for approval by BHEL. **Manufacturing clearance (against each unit)** will be provided upon approval of drawing with data sheet and QAP. Manufacturing shall be as per attached technical specification in the bid, Approved drawing, Quality plan and Data sheet. **Inspection:** as per CI (b) below stated. **Dispatch Clearance:** Upon submission of inspection reports along with test certificates in original and Packing list dispatch clearance will be provided by BHEL.

(h). **Inspection:** Inspection (call to be raise by supplier at BHEL COIR portal) before despatch at supplier's works (as per Quality terms and Quality plan) by BHEL/authorised agency (TPI-Third Party Inspection) for indigenous supplies at BHEL cost. ~~Being category I item, There shall be joint inspection with customer.~~ Inspection includes for painting and packing also, as applicable. All the Test and inspection reports shall be sent to BHEL-Ranipet for review and dispatch clearance. Packing list and weightment details shall be sent for release of GMS by Engineering-BAP. Base on release of GMS, CoC No shall be issued by QC-BHEL. On receipt of CoC, and packing list, request letter from commercial-BAP to be submitted to QC-BHEL for issue of MDCC.

Note: Cost for Inspection by approved TPI, outside India shall be borne by bidder.

(i). **Packing requirement:** Packing shall be waterproof as per tech spec in such a way that transit damage and damage by weather may be avoided and the material code with description & Supplier name shall be marked on the packing.

Note: Seaworthy packing shall be ensured wherever transit thru sea.

(j). **Documents:** Accepted IR copy along with relevant test certificates (in original) before despatch to be given to BHEL. This is required for Dispatch clearance.

(k). **Reverse Auction** shall be conducted.

(l). **Delivery Location:** FOR destination (BHEL Stores, BAP Ranipet 632406), as per bid.

Commercial terms

7. Payment: 100% payment after supply and acceptance of material at site
8. AIA TPI applicable through cqir portal of BHEL
9. Warrantee/Guarantee certificate for 18 months.
10. Pls provide HSN code
11. Pls provide the contact details for techno commercial clarifications
12. Payment: 100% payment in 90 days (60 days for medium and 45 days for MSE) after receipt and acceptance of material at BHEL stores.

List of documents to be attached (signed stamped copy):

7. Gem bid, Tech spec and Data sheet copy
8. Filled in annexures of Technical Specification
9. Filled in QAP (Sample attached) along with CQR
10. Filled-in Make in India declaration on Letter head (format attached), For Indian bidder only
11. Udyam portal registration copy if MSE bidder, if applicable, otherwise treated as Non-MSE
12. Quality Plan (proposed) to be submitted by Vendor

For any query: Kindly provide the "Antenna and surge" in the subject of mail.

mail: ckbharti@bhel.in; tvgopal@bhel.in

Ph: +91 9488 58 9287 / +91 7010 75 1675

| | | | | | |
|---|--------------------|--|--|---|---|
| PROJECT: NTPC SOLAPUR (BHEL W.O no: R674) MAIN CONTRACTOR: BHEL - RANIPET SUB CONTRACTOR & ADDRESS: (To be filled by VENDOR) | | CONTRACT QUALITY REQUIREMENTS (CQR) for <u>2.4 G HZ ANTENNA WITH CONNECTOR</u> | | DOC.NO: BAP/CQR/R674/ANT/EMBS :01 Rev NO.: 00 PAGE : Page 1 of 1 DATE: 14.06.2022 | ##INDENT No: REL20758 ## Supplier Name & Address: ##Offer reference: ##Date: Contact Official Name: Mobile no: Email id: |
| Sl. NO. | DESCRIPTION | BHEL and Ultimate Customer - NTPC (National Thermal Power Corporation)., Quality Requirements | | | ##Specific confirmations by the vendor |

ITEM: 2.4 GHZ ANTENNA WITH CONNECTOR

| | | | |
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| 01 | Important Note | This item to be manufactured as per Indent and specification requirement. | |
| 02 | Inspection Methodology | No material shall be dispatched without BHEL or its authorized inspection agency | |
| 03 | For inspection call | To raise inspection call by BHEL/BHEL AIA inspection including for type test witnessing , vendor is requested to contact Mr R Kesavan., DGM (QC-Proc)., Mobile no: +91 9443006303., Email id: kesavan@bhel.in and Mr Zeeshan Ali., SE (QC-Proc)., Mobile no: +91 9443149691., Email id: zeeshan@bhel.in for inspection related activities for immediate response / resolutio | |
| 04 | Packing | Required Packing & preservation shall also to be ensured as per requirements stipulated in Engg spec / drg / data sheet to avoid any damage during transit, handling damages & storage at site. | |

Supplier signature with seal

Necessarily to be filled up by the vendor at the time of offer itself otherwise the offer may not be considered w.r.t Quality Requirements being customer specific requirements.

| | | | | | |
|---|--------------------|---|--|---|---|
| PROJECT: NTPC SOLAPUR (BHEL W.O no: R650) MAIN CONTRACTOR: BHEL - RANIPET SUB CONTRACTOR & ADDRESS: (To be filled by VENDOR) | | CONTRACT QUALITY REQUIREMENTS (CQR) for SURGE PROTECTION BOARD | | DOC.NO: BAP/CQR/R650/ SPB/EMBS :01 Rev NO.: 00 PAGE : Page 1 of 1 DATE: 14.06.2022 | ##INDENT No: REL20757 ## Supplier Name & Address: ##Offer reference: ##Date: Contact Official Name: Mobile no: Email id: |
| Sl. NO. | DESCRIPTION | BHEL and Ultimate Customer - NTPC (National Thermal Power Corporation), Quality Requirements | | | ##Specific confirmations by the vendor |

ITEM: SURGE PROTECTION BOARD

| | | | |
|----|-------------------------------|--|--|
| 01 | Important Note | Make and Model No. / Part no. of Serial device server and Ether net switch to be as per Indent and specification requirement. | |
| 02 | Inspection Methodology | No material shall be dispatched without BHEL or its authorized inspection agency | |
| 03 | For inspection call | To raise inspection call by BHEL/BHEL AIA inspection including for type test witnessing , vendor is requested to contact Mr R Kesavan., DGM (QC-Proc), Mobile no: +91 9443006303., Email id: kesavan@bhel.in and Mr Zeeshan Ali., SE (QC-Proc), Mobile no: +91 9443149691., Email id: zeeshan@bhel.in for inspection related activities for immediate response / resolutio | |
| 04 | Packing | Required Packing & preservation shall also to be ensured as per requirements stipulated in Engg spec / drg / data sheet to avoid any damage during transit, handling damages & storage at site. | |

Supplier signature with seal

Necessarily to be filled up by the vendor at the time of offer itself otherwise the offer may not be considered w.r.t Quality Requirements being customer specific requirements.

*(To be submitted In the company letter head by supplier)

Form - 1

Subject: Public Procurement (Preference to Make In india)

References:

- 1.P-45021/2/2017-B.E-II dated. 15th June-2017,
- 2.P-45021/2/2017-PP(BE-II) dated. 28th May-2018 ,
- 3.P-45021/2/2017-PP(BE-II) dated. 29th May-2019.
- 4.P-45021/2/2017-PP(BE-II) dated. 4th June-2020

We hereby declare with reference to above subject and references that M/s -----(Tick whichever is applicable as below)

"Class-I local supplier" meeting the requirement of minimum local content equal to 50%(fifty percent) or more defined in the above government notification for the goods and services (or)

"Class-II local Supplier" meeting the requirement of local content 20% to less than 50%(fifty percent) defined in the above government notification for the goods and services

Please mention the details against the following:

Enquiry no:----- dated. -----

Type of Supplier (Class-I/Class-II)

Product:-----

Project:.....

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

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

Authorized Signature M/s _____

(Signature and seal)

Place:.....

Date:.....

From.

M/s _____

Address: _____

Note: For offer value INR 10 crores or more, shall be vetted/endorsed by statutory auditor or cost auditor, for the declared local content.

***(To be submitted In the company letter head by supplier)**

Form – 2

I/we are bidder from _____ (Address with country). We do not belong to any of the below category mentioned.

1. Any of entity/office/workshop of your organisation/incorporation, established in a country sharing land border with India, If yes, provide the full address of all such locations.
2. Any of subsidiary of your organisation/incorporation, established in a country sharing land border with India, If yes, provide the full address of all such locations.
3. Any of entity/office/workshop of your organisation/incorporation, controlled in a country sharing land border with India, If yes, provide the full address of all such locations.
4. Any of entity whose beneficial owner is situated in a country sharing land border with India, If yes, provide the full name, address of all such locations.
5. Any Indian Agent available, If so, Provide details of address and contacts.
6. Any employee/directors who is/are citizen of country sharing land border with India, If yes, provide the full name, employee code and address of all such locations.
7. Any of consortium/joint venture of your organisation/incorporation, established in a country sharing land border with India, If yes, provide the full address of all such locations.

Meaning of beneficial owner

- 1) In case of a company or limited liability partnership, beneficial owner is the natural person, who, whether acting alone or together, or through one or more judicial person, has a controlling ownership interest or who exercises control through other means.

Explanation

- a) Controlling ownership interest means ownership of or entitlement to more than twenty-five percent of shares or capital or profits of the company.
- b) “control” shall include the right to appoint majority of the directors or to control the management rights or shareholder’s agreement or voting agreement.
- 2) In case or a partnership firm the beneficial owner is the natural person (s) who whether acting alone or together or through one or more judicial person, has ownership of the entitlement to more than fifteen percent of capital or profits of the partnership.
- 3) In case of an unincorporated association or body of individuals, the beneficial owner is the natural person(s), who, whether acting alone or together or through one or more judicial person, has ownership of the entitlement to more than fifteen percent of the property or capital or [profits of such association or body of individual.
- 4) Where no natural person is identified under (1) or (2) or (3) above, the beneficial owner is the relevant natural person who holds the position of senior managing official.
- 5) In case of a trust, the identification of beneficial owner (s) shall include identification of the author of the trust, the trustee, the beneficiaries with fifteen percent or more interest in the trust and any other natural person exercising ultimate effective control over the trust and any other

***(To be submitted In the company letter head by supplier)**

natural person exercising the ultimate effective control over the trust through a chain of control of ownership.

- 6) An agent is a person employed to do any act for another, or to represent another in dealing with third person.

We have read the clause regarding restriction on procurement from a bidder of a country which shares a land border with India, we hereby declare that we do not belongs to any such country and are eligible to be considered.

In case, any of information is found to be false, even after bid acceptance, immediate termination may happen and action will be taken as per law.

Format is being filled without altering any of the clause mentioned in the given format**

Dated: _____

Authorised Sign and stamp_____