



| Technical Data sheet of Conduit |                                                                              |                                                                           |                                                                              |                                                                           |                                                                           |
|---------------------------------|------------------------------------------------------------------------------|---------------------------------------------------------------------------|------------------------------------------------------------------------------|---------------------------------------------------------------------------|---------------------------------------------------------------------------|
| Make                            | ISI MARK                                                                     | ISI MARK                                                                  | ISI MARK                                                                     | ISI MARK                                                                  | ISI MARK                                                                  |
| Applicable Standard             | IS: 9537(Part II)/1981                                                       | IS: 9537(Part II)/1981                                                    | IS: 9537(Part II)/1981                                                       | IS: 9537(Part II)/1981                                                    | IS: 9537(Part II)/1981                                                    |
| Type                            | Heavy duty suitable<br>For heavy mechanical<br>Stresses, High<br>protection. | Heavy duty suitable<br>For heavy mechanical<br>Stresses, High protection. | Heavy duty suitable<br>For heavy mechanical<br>Stresses, High<br>protection. | Heavy duty suitable<br>For heavy mechanical<br>Stresses, High protection. | Heavy duty suitable<br>For heavy mechanical<br>Stresses, High protection. |
| Size (mm)                       | 20MM Nominal                                                                 | 25MM Nominal                                                              | 40MM Nominal                                                                 | 50MM Nominal                                                              | 20 mm Dia Epoxy Coated Conduit                                            |
| Material for Coating            |                                                                              |                                                                           |                                                                              |                                                                           | Epoxy Coating                                                             |
| Inside/Outside Surface          | Zinc Hot Dip Galvanized                                                      | Zinc Hot Dip Galvanized                                                   | Zinc Hot Dip Galvanized                                                      | Zinc Hot Dip Galvanized                                                   | Zinc Hot Dip Galvanized                                                   |
| Weight of Zinc Coating          | Min. 340 Gms/M2                                                              | Min. 340 Gms/M2                                                           | Min. 460 Gms/M2                                                              | Min. 460 Gms/M2                                                           | Min.360 Gms/Mtr2                                                          |
| Standard Length of Conduit      | 03 Mtr                                                                       | 03 Mtr                                                                    | 03 Mtr                                                                       | 03 Mtr                                                                    | 03 Mtr                                                                    |
| Wall Thickness                  | 1.6 mm ( Tolreance As<br>Per IS:9537 part-II)                                | 1.6 mm ( Tolreance As<br>Per IS:9537 part-II)                             | 1.8 mm ( Tolreance As<br>Per IS:9537 part-II)                                | 1.8 mm ( Tolreance As<br>Per IS:9537 part-II)                             | 1.6 mm ( Tolreance As Per IS:9537 part-II)                                |
| Outer Dia.                      | 20mm<br>(Tolerance = -0.3mm)                                                 | 25mm<br>(Tolerance = -0.4mm)                                              | 40mm<br>(Tolerance = -0.4mm)                                                 | 50mm<br>(Tolerance = -0.5mm)                                              | 20mm<br>(Tolerance = -0.3mm)                                              |
| Colour                          | -                                                                            | -                                                                         | -                                                                            | -                                                                         | OFF WHITE/ GREY                                                           |
| Thickness of Epoxy Coating      | -                                                                            | -                                                                         | -                                                                            | -                                                                         | 50 Microns                                                                |
| Epoxy Coating                   | -                                                                            | -                                                                         | -                                                                            | -                                                                         | Both Inside & Outside                                                     |
| Appearance                      | Smooth Film for any<br>Surface defect                                        | Smooth Film for any<br>Surface defect                                     | Smooth Film for any<br>Surface defect                                        | Smooth Film for any<br>Surface defect                                     | -                                                                         |
| Marking                         | Manufacturer<br>Name/Country of<br>Manufacturer /Nominal<br>Size.            | Manufacturer<br>Name/Country of<br>Manufacturer /Nominal<br>Size.         | Manufacturer<br>Name/Country of<br>Manufacturer /Nominal<br>Size.            | Manufacturer<br>Name/Country of<br>Manufacturer /Nominal<br>Size.         | Manufacturer Name/Country of<br>Manufacturer /Nominal Size.               |

|                                                                                                          |                        |                                  |                       |                        |                         |                                                            |                 |                  |                                    |   |     |         |
|----------------------------------------------------------------------------------------------------------|------------------------|----------------------------------|-----------------------|------------------------|-------------------------|------------------------------------------------------------|-----------------|------------------|------------------------------------|---|-----|---------|
|                                                                                                          |                        | QUALITY PLAN                     | CUSTOMER: BIFPCL      |                        |                         | PROJECT: 2X660 MW BIFPCL MAITREE KHULANA STPP (BANGLADESH) |                 |                  | SPECIFICATION : PE-TS-421-558-E001 |   |     |         |
|                                                                                                          |                        |                                  | BIDDER/ :             |                        |                         | QUALITY PLAN                                               |                 |                  | NUMBER:                            |   |     |         |
|                                                                                                          |                        |                                  | VENDOR                |                        |                         | NUMBER : PE-QP-999-558-E001                                |                 |                  | TITLE                              |   |     |         |
|                                                                                                          |                        |                                  | SHEET 1 OF 1          |                        |                         | SYSTEM                                                     |                 |                  | ITEM: CONDUIT                      |   |     | SECTION |
| SI. N O.                                                                                                 | COMPONENT/OPERATION    | CHARACTERISTIC CHECK             | CAT.                  | TYPE/METHOD OF CHECK   | EXTENT OF CHECK         | REFERENCE DOCUMENT                                         | ACCEPTANCE NORM | FORMAT OF RECORD | AGENCY                             |   |     | REMARKS |
|                                                                                                          |                        |                                  |                       |                        |                         |                                                            |                 |                  | P                                  | W | V   |         |
| 1                                                                                                        | 2                      | 3                                | 4                     | 5                      | 6                       | 7                                                          | 8               | 9                | 10                                 |   |     | 11      |
| 1                                                                                                        | CONDUIT/ Epoxy Conduit | 1. MATERIAL                      | MA                    | VISUAL                 | Plant Standard          | Approved TDS                                               | Approved TDS    | INSPT. REPORT    | M                                  |   | C,B |         |
|                                                                                                          |                        | 2. DIMENSIONS                    | MA                    | MEASUREMENT            | Random                  | IS 9537 (PT-II)                                            | IS 9537 (PT-II) | INSPT. REPORT    | M                                  | C |     |         |
|                                                                                                          |                        |                                  |                       |                        |                         |                                                            |                 |                  |                                    |   |     |         |
|                                                                                                          |                        | 3. MECH. PROPERTIES              |                       |                        |                         |                                                            |                 |                  |                                    |   |     |         |
|                                                                                                          |                        | a) BENDING TEST                  | CR                    | TEST                   | IS 9537 (PT-II)         | IS 9537 (PT-II)                                            | IS 9537 (PT-II) | INSPT. REPORT    | M                                  | C | B   |         |
|                                                                                                          |                        | b) COMPRESSION                   | CR                    | TEST                   | IS 9537 (PT-II)& Part-I | IS 9537 (PT-II)                                            | IS 9537 (PT-II) | INSPT. REPORT    | M                                  | C | B   |         |
|                                                                                                          |                        |                                  |                       |                        |                         |                                                            |                 |                  |                                    |   |     |         |
|                                                                                                          |                        | 4. GALVANISATION TEST            |                       |                        |                         |                                                            |                 |                  |                                    |   |     |         |
|                                                                                                          |                        | a) UNIFORMITY OF ZINC COATING    | CR                    | VISUAL                 | IS 9537 (PT-II)         | IS2633                                                     | IS2633          | INSPT. REPORT    | M                                  | C | B   |         |
|                                                                                                          |                        |                                  |                       |                        |                         |                                                            |                 |                  |                                    |   |     |         |
|                                                                                                          |                        | b) MASS OF ZINC COAT             | CR                    | TEST                   | IS 9537 (PT-II)         | IS6745                                                     | IS 4736/IS 6745 | INSPT. REPORT    | M                                  | C | B   |         |
|                                                                                                          |                        |                                  |                       |                        |                         |                                                            |                 |                  |                                    |   |     |         |
|                                                                                                          |                        | c) COATING THICKNESS             | CR                    | TEST/Measurment        | IS 9537 (PT-II)         | IS6745                                                     | IS 6745         | INSPT. REPORT    | M                                  | C | B   |         |
|                                                                                                          |                        |                                  |                       |                        |                         |                                                            |                 |                  |                                    |   |     |         |
|                                                                                                          |                        | d) EPOXY THICKNESS IF APPLICABLE | MA                    | VISUAL/PHYSICAL        | IS9537                  | 50 MICRONS                                                 | 50 MICRONS      | INSPT. REPORT    | M                                  | C | B   |         |
|                                                                                                          |                        |                                  |                       |                        |                         |                                                            |                 |                  |                                    |   |     |         |
| 5. PACKING & MARKING                                                                                     | CR                     | VISUAL                           | Manufacturer Standard | Manufacture r Standard | Manufacturer Standard   | -                                                          | M               | C                | B                                  |   |     |         |
|                                                                                                          |                        |                                  |                       |                        |                         |                                                            |                 |                  |                                    |   |     |         |
| LEGEND: B-BHEL/BHEL'S CUSTOMER, M - MANUFACTURE, C- CONTRACTOR, P - PERFORM, W-WITNESS, V - VERIFICATION |                        |                                  |                       |                        |                         |                                                            |                 |                  |                                    |   |     |         |
| BHEL                                                                                                     |                        |                                  | PARTICULARS           |                        |                         | BIDDER/VENDOR                                              |                 |                  | BIDDER'S/VENDORS COMPANY SEAL      |   |     |         |
|                                                                                                          |                        |                                  | NAME                  |                        |                         |                                                            |                 |                  |                                    |   |     |         |
|                                                                                                          |                        |                                  | SIGNATURE             |                        |                         |                                                            |                 |                  |                                    |   |     |         |
|                                                                                                          |                        |                                  | DATE                  |                        |                         |                                                            |                 |                  |                                    |   |     |         |