

**Plant Characteristics**

|   |  |  |  |   |  |         |  |                                   |  |        |  |                 |  |        |  |         |  |
|---|--|--|--|---|--|---------|--|-----------------------------------|--|--------|--|-----------------|--|--------|--|---------|--|
| <b>Name of the Company</b>                            |  |  |  |   |  |         |  | Damodar Valley Corporation        |  |        |  |                 |  |        |  |         |  |
| <b>Name of the Power Station</b>                      |  |  |  |   |  |         |  | Bokaro Thermal Power Station      |  |        |  |                 |  |        |  |         |  |
| <b>Capacity of Station</b>                            |  |  |  | 805   |  |         |  | MW                                |  |        |  |                 |  |        |  |         |  |
| <b>Basic characteristics of the plant<sup>1</sup></b> |  |  |  |   |  |         |  | Conventional Steam Generator      |  |        |  |                 |  |        |  |         |  |
| <b>Special Features of the Plant</b>                  |  |  |  |   |  |         |  |                                   |  |        |  |                 |  |        |  |         |  |
| <b>Site Specific Features<sup>2</sup></b>             |  |  |  |   |  |         |  | <u>Intake/Makeup water system</u> |  |        |  |                 |  |        |  |         |  |
| <b>Special Technological Features<sup>3</sup></b>     |  |  |  |   |  |         |  |                                   |  |        |  |                 |  |        |  |         |  |
| <b>Environmental features<sup>4</sup></b>             |  |  |  | <b>Regulation related</b>   |  |         |  | ESP                               |  |        |  |                 |  |        |  |         |  |
| <b>Any other special features</b>                     |  |  |  |   |  |         |  |                                   |  |        |  |                 |  |        |  |         |  |
| <b>Fuel Details<sup>5</sup></b>                       |  |  |  | Primary Fuel  |  |         |  | Secondary Fuel                    |  |        |  | Alternate Fuels |  |        |  |         |  |
|   |  |  |  | Coal  |  |         |  | Oil                               |  |        |  |                 |  |        |  |         |  |
| <b>Details</b>  |  |  |  | <b>Module number or Unit number</b>   |  |         |  |                                   |  |        |  |                 |  |        |  |         |  |
| (1)   |  |  |  | (2)   |  | (3)     |  | (4)                               |  | (5)    |  | (6)             |  | (7)    |  | & so on |  |
|   |  |  |  | U#1   |  | U#2     |  | U#3                               |  | U#4    |  | U#5             |  | U#6    |  |         |  |
| Installed Capacity (IC)*                              |  |  |  | 57.5/45   |  | 57.5/45 |  | 57.5/45                           |  | 75/40  |  | 210             |  | 210    |  | 210     |  |
| Date of Commercial Operation (COD)                    |  |  |  | Feb-53  |  | Aug-53  |  | Oct-53                            |  | Apr-60 |  | Mar-86          |  | Nov-90 |  | Aug-93  |  |
| Type of cooling system <sup>6</sup>                   |  |  |  | Once through for condenser cooling system, Stator Water Cooled & rotor hydrozen cooled. |  |         |  |                                   |  |        |  |                 |  |        |  |         |  |
| Type of Boiler Feed Pump <sup>7</sup>                 |  |  |  | Motor driven  |  |         |  |                                   |  |        |  |                 |  |        |  |         |  |
|   |  |  |  |   |  |         |  |                                   |  |        |  |                 |  |        |  |         |  |

<sup>1</sup> Describe the basic characteristics of the plant e.g. in the case of a coal based plant whehter it is a conventional steam generator or circulating fludized bed combustion generator or sub-critical once through steam generator etc.

<sup>2</sup> Any site specific feature such as Merry-Go-Round, Vicinity to sea, Intake /makeup water systems etc. scrubbers etc. Specify all such features.

<sup>3</sup> Any Special Technological feature like Advanced class FA technology in Gas Turbines, etc.

<sup>4</sup> Environmental regulation related features like FGD, ESP etc.

<sup>5</sup> Coal or natural gas or naptha or lignite etc.

<sup>6</sup> Closed circuit cooling, once through cooling, sea cooling etc.

<sup>7</sup> Motor driven, Steam turbine driven etc.

**PETITIONER**