

PROJECT: TURBO BLOWER STATION (Package-010A)

CUSTOMER: M/s NMDC LIMITED, 3.0MTPY INTEGRATED STEEL PLANT, NAGARNAR, CHHATTISHGARH

CONSULTANT: M/s MECON, RANCHI

DOCUMENTS TO BE SUBMITTED AFTER AWARD OF CONTRACT

1. Documents to be submitted during detailed engineering:

Sl. No.	Description	Category	Initial Submission	Revised Drawings Submission	Final Submission
1	Data Sheets	Approval	10 sets	10 sets	10 sets
2	General Arrangement, Foundation Plan & Loading Details Drawing	Approval	10 sets	10 sets	10 sets
3	Single Line Diagrams	Approval	10 sets	10 sets	10 sets
4	Heat Load Details	Review	10 sets	3 sets	10 sets
5	Bus bar Sizing Calculations	Review	10 sets	3 sets	10 sets
6	Schematic & Wiring Diagrams	Approval	10 sets	10 sets	10 sets
7	Block Logic Diagrams	Approval	10 sets	10 sets	10 sets
8	Quality Plan	Approval	10 sets	10 sets	10 sets
9	Commissioning Spares List	Review	1 set	3 sets	Nil
10	Mandatory Spares List	Review	NA	NA	NA
11	List of Tools & Tackles	Review	1 set	3 sets	Nil
12	List of Cable Accessories (Glands & Lugs)	Review	1 set	3 sets	Nil
13	Packing List / Shipped Loose Component List (Switchboard-wise) – Refer Note-a	Review	Nil	Nil	3 sets
14	DC Starter Resistance Sizing Calculation	Review	1 set	Nil	10 sets
15	Catalogues / Drawings for Breakers, Contactor, SFU, FSU, O/L relay, Fuse, Instrument Transformers, Relays, Meters etc.	Info	1 set	Nil	10 sets
16	Type Test Certificates	Review	10 sets	Nil	10 sets
17	Inspection Test Reports	Review	Nil	Nil	10 sets
18	Switchboards Erection & Commissioning Manual	Info	Nil	Nil	10 sets
19	Intelligent Controller Erection & Commissioning Manual	Info	3 sets	Nil	10 sets
20	Switchboards Operation & Maintenance Manuals – Refer Note-b	Info	Nil	Nil	12 sets
21	Intelligent Controller Operation & Maintenance Manuals – Refer Note-b	Info	Nil	Nil	12 sets
22	As-Manufactured drawings	Review	Nil	Nil	10 sets
23	Architecture Drawing for IMCC	Approval	10 sets	10 sets	10 sets

Notes:

- a. For all equipment, seller shall provide spreadsheet Packing List showing in complete detail split shipment packaging content and their shipping dates. As a minimum, the spreadsheet shall indicate,
- | | |
|------------------|--|
| Supplier's name, | Actual ship date for each carton or container, |
| Part numbers, | Erection / IFC drawing number, |

Form No.



PRODUCT STANDARD
PROJECT ENGINEERING & SYSTEMS DIVISION
HYDERABAD

ANNEXURE-10
to PY55127

Rev No. 00

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Item name & tag number, Quantity,
Seller's reference drawing number, Unit of measure,
Carton or container number, Minimum following dimensions for each shipping sections –
Forecast ship date, Weight, Length, Width, Height.

NOTE: Vendor shall dispatch the panels generally with all components mounted. If, for reason of preventing transit damage or for any other means, the components/items have to be packed separately and dispatched then such loose items have to be listed in the packing list. The list shall have references duly tracing them to the respective packing box/crate. The packing list shall be furnished for BHEL's review and acceptance before seeking dispatch clearance. If such loose items are not declared then it shall be deemed that there are no such loose items.

b. O&M manuals must include the following as minimum:

Written Description of Equipment Operation,
Equipment List and Data Sheets,
Long- and Short-Term Storage Instructions.
Instruction Manuals for Breakers, Contactor,
SFU, FSU, O/L relay, Fuse, Instrument
Transformers, Relays, Meters etc,

Factory Test Results,
Operation Instruction Books,
Maintenance Instruction Book,
Installation Instructions,

2. Final Handing Over Documentation:

(i) In addition to above, final handing over documentation in neatly bound volumes shall be made in 12 sets of hard copies and 3 sets of CDs for the End User. It shall include the following:

- (a) "As-Built" Drawings (incorporating site modifications, if any)
- (b) Data Sheets
- (c) Test Certificates
- (d) Guarantee Certificates
- (e) Component Catalogues with Makes and Contact Details.
- (f) Architecture Drawing for IMCC.

3. Documentation along with the Consignment:

Two sets of As-Manufactured Drawings, Inspection Test Reports and O&M and E&C Manuals shall be dispatched along with the consignment. The same shall also be listed in the packing list.

Ref. Doc