



BHARAT HEAVY ELECTRICALS LIMITED  
TRANSMISSION BUSINESS GROUP  
ENGINEERING MANAGEMENT

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Title <b>Circuit Breaker – Healthiness Checking</b>		Date	<b>15.5.20</b>	<b>15.5.20</b>	<b>15.5.20</b>							
		Group	<b>TBEM</b>									
Customer	<b>MAHARASHTRA STATE ELECTRICITY TRANSMISSION CORPORATION LTD.</b>											
Projects	400/220 kV Switchyard at Chandrapur-II											
<div>CONTENTS</div> <table><thead><tr><th>SECTION</th><th>TITLE</th><th>PAGES</th></tr></thead><tbody><tr><td>1</td><td>Scope and Bill of Quantities</td><td>1</td></tr></tbody></table>							SECTION	TITLE	PAGES	1	Scope and Bill of Quantities	1
SECTION	TITLE	PAGES										
1	Scope and Bill of Quantities	1										
Rev No.	Date	Altered	Checked									
Distribution												

## SECTION 1

### SCOPE AND BILL OF QUANTITY

#### 1.1 SCOPE

This technical specification covers the broad scope for the work pertaining to healthiness checking of Circuit Breakers supplied by Siemens in 2010-11 at 400/220kV Switchyard, Chandrapur-II S/s (MSETCL) site. The healthiness checking (i.e. rectification/overhauling inclusive of HV test, IR test, DCRM etc) of Circuit Breakers is required to be conducted at OEM works on the support columns and Interrupter units. It is expected that OEM will submit the detailed plan for conducting the quality checks and testing before dispatch.

A) The complete scope shall broadly include following activities:

- 1) Dismantling at works
- 2) Inspection by experts (Siemens, BHEL/ MSETCL)
- 3) Overhauling of internal components including stage wise checks and replacement, if any.
- 4) Re-assembly at works
- 5) Validation Checks before Routine Testing
- 6) Installing the complete Pole for routine testing on test pad (with dummy drives & marshalling box)
- 7) Routine testing in line with IEC 62271-100
- 8) Report preparation.
- 9) Supervision support for Erection, Testing and Commissioning at site and giving Charging Clearance
- 10) To and Fro transportation of items
- 11) Packing Material required at site and works
- 12) Supervision of Packing at site.

B) Unit Price of Grading Capacitor and Switching Rod to be quoted optional and will be considered only if the material is required during overhauling. Their quantity may vary during healthiness checking.

#### 1.2 BILL OF QUANTITY

SN	Item Description	Unit	Qty
1.	Healthiness check of support column	Nos.	6
2	Healthiness check of interrupter unit	Nos.	6
3.	Grading Capacitors	Nos.	1
4.	Switching Rod	Nos.	1
5.	SF6 Gas Cylinder (50KG)	Nos.	2
6.	Supervision support at site	Lot	1

1.3 BHEL/ MSETCL reserve the right to witness the tests at OEM works. Bidder to submit the detailed report after conduction of checks.