



NATIONAL PHYSICAL LABORATORY
 NEW DELHI - 110012
 Phone: 91-11-5781850, 5787161, 5739506
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TEST REPORT ON

EFFICIENCY OF 250KVA
 SERVO VOLTAGE
 STABILISER

Date	Test Report No.	Page	No. of Pages
27-02-2001	458/45/03/2000	1	2

- | | | |
|---|-----------------------------------------|---------------------------------------------------------------------------------------------------------------------------------|
| 1 | TESTED FOR | M/s JINDAL RECTIFIERS
Plot No 195, Sector - 24,
Faridabad-121 005 |
| 2 | THEIR REFERENCE No | REF. NO IR FRD 2000 01
DATED 19/01/2001 |
| 3 | OUR REFERENCE No | 01/EE/2K1 |
| 4 | DESCRIPTION &
IDENTIFICATION OF ITEM | SERVO VOLTAGE STABILISER,
250KVA, RANGE INPUT 340V-460V
(OUTPUT 400 ± 1%),
TR SL. No 00-01/54,
REG SL. No. 00-01/30 |
| 5 | (a) NUMBER OF SAMPLES
RECEIVED | ONE (ON SITE) |
| | (b) NUMBER OF SAMPLES
TESTED | ONE (ON SITE) |
| 6 | NATURE OF TEST | EFFICIENCY |
| 7 | TEST SPECIFICATION | AS PER CUSTOMER'S
REQUIREMENT |
| 8 | MAJOR EQUIPMENT USED | FLUKE - 41 POWER ANALYSER |

P.S.
 P. S. TRIPATHI
 DNO. 3169
 tested by

Checked by
P. S. Tripathi

Scientist incharge
P. S. Tripathi
 102571



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RESULTS:

FRQUENCY 49.4Hz

OPEN CIRCUIT TEST

VOLTAGE (V)	CURRENT (A)	WATTAGE (W)
229	0.58	36
229	0.5	48
229	0.6	64
LOSSES AT OPEN CIRCUIT TEST		148 W

SHORT CIRCUIT TEST

VOLTAGE (V)	CURRENT (A)	WATTAGE (W)
2.0	368.0	190
0.7	390.0	192
2.0	375.0	590
LOSSES AT SHORT CIRCUIT TEST		972 W
TOTAL LOSSES		148 + 972 = 1102 W = 1.12 KW
EFFICIENCY OF 250 KVA		
STABILISER AT 0.80 P.F.		$(200 - 1.12) \times 100 / 200$
		99.44 %

[Signature]
 D. S. TRIPATHI
 ID NO 3165
 Tested by

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 P. S. N. A. S.
 Checked by

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 J. C. SHARMA
 Scientist Incharge
 ID 2571