

सी पी आर आई  
भारत

**CPRI  
INDIA**

परीक्षण रिपोर्ट  
TEST REPORT





केन्द्रीय विद्युत अनुसंधान संस्थान  
CENTRAL POWER RESEARCH INSTITUTE  
स्विचगिअर परिक्षण तथा विकास केन्द्र  
Switchgear Testing & Development Station,  
गोविन्दपुरा, Govindpura, भोपाल BHOPAL- 462 023

तिब्र डाक द्वारा/ BY SPEED POST

दूरभाष / Telephone : 0755 - 2586944

फैक्स नं./Fax No. : 0755 - 2587774

संदर्भ क्र. एस.टी.डी.एस./एसटीएल/  
Reference No. STDS/STL(16)/ 389

दिनांक : 23.05.2016

Date : \_\_\_\_\_

प्रति,  
में. प्रदिप पावरटेक प्राय. लिमिटेड,  
12, जनरल बैंक चेंबर, मुनिसिपल मार्केट के सामने,  
सी.जी. रोड, नवरंगपुरा, अहमदाबाद-380 009

To,  
M/s Pradip Powertech Pvt. Ltd.,  
12, General Bank Chamber, C.G.Road  
Opp. Municipal Market, Navrangpura,  
AHMEDABAD -380 009

विषय :- अंतिम परीक्षण रिपोर्ट का प्रेषण क्र. एसटीएल/  
Sub :- Despatch of Final Test Report No. STL/2015/1668

महोदय/Dear Sir,

कृपया इस पत्र के साथ हमारी प्रयोगशाला में HV Dry Power Frequency Voltage withstand test दिनांक 17/12/2015 को किये गये परीक्षण की उपर्युक्त दर्शायी गयी अंतिम परिक्षण रिपोर्ट संलग्न है ।

Please find enclosed herewith the above mentioned final test report for the test conducted on \_\_\_\_\_ at our Laboratory during the month.

अगर इस रिपोर्ट में कोई विसंगति है तो इसकी सूचना हमें रिपोर्ट जारी करने के 45 दिन के अन्दर लिखित में दी जाए ताकि हम आवश्यक सुधार कर सकें, जिसके लिए रिपोर्ट की सभी प्रतियाँ वापस की जाय । कृपया ध्यान दिया जाए कि इस दिनांक के बाद मिलने वाले निवेदन पर विचार नहीं किया जाएगा ।

Discrepancies in this rpeort must be brought to our notice in writing within 45 days of the date of issue of this report for effecting necessary corrections for which all the copies of report must be returned please note that request received beyond this date will not be entertained.

धन्यवाद / Thanking You,

भवदीय / Yours faithfully,

*Sonre*

अभियांत्रिकी अधिकारी ग्रेड-4 एसटीएल  
Engineerring Officer Gr-4, STL





# परीक्षण रिपोर्ट TEST REPORT

केन्द्रीय विद्युत अनुसंधान संस्थान

( विद्युत मंत्रालय, भारत सरकार के अधीन एक स्वायत्त सोसायटी )

**CENTRAL POWER RESEARCH INSTITUTE**

(An Autonomous Society under the Ministry of Power Govt. of India)

एस टी एल के सदस्य

Member of STL

स्विचगियर परीक्षण तथा विकास केन्द्र

SWITCHGEAR TESTING & DEVELOPMENT STATION

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GOVINDPURA, BHOPAL - 462 023

फोन • 91 (0) 755 2586682 फैक्स +91 (0) 755-2587774

Phone • 91 (0) 755 2586682 Fax +91 (0) 755-2587774





TEST REPORT

Test Report No. : 2015/STL/1668 Dated: 23 MAY 2016

Name and Address of the Customer : M/s Pradip Powertech Pvt. Ltd.,  
12, General Bank Chamber,  
Opp. Municipal Market, C.G. Road,  
Navrangpura, Ahmedabad - 380 009

Name and Address of the Manufacturer : M/s Pradip Powertech Pvt. Ltd.,  
Block Survey No. 178/186/187/A,  
Ajanta Estate, Vasna, Sanand, Ahmedabad

Particulars of Sample(s) Tested : 12kV, 1250A, H.T. Panel.

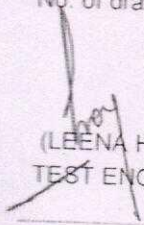
Condition of sample(s) on receipt : New  
Type : Indoor, HT Panel  
Designation : NIL  
Serial Number(s) : NIL  
Number of Sample(s) Tested : One  
CPRI sample code number(s) : STDSST215R1S1099  
Sealing of the sample if any : No

Particulars of test(s) conducted : HV Dry Power Frequency Voltage Withstand Test.  
Date(s) of Test(s) : 17/12/2015  
Test(s) in accordance with : CI. 6.2.6.1 of IEC:62271-200, 2011  
Standard/specification :  
Sampling Plan : NIL  
Customer's Requirement : NIL  
Deviations, if any : NIL

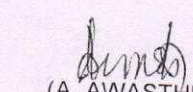
Name of the witnessing persons :  
Customer's Representatives : Mr. Dipak Varma  
Other than Customer's Representatives : NIL

Test subcontracted with name and address of the laboratory : NONE

Documents constituting this report (in words) :  
No. of Sheet(s) : FIVE  
No. of Oscillogram(s) : NIL  
No. of Graph(s) : NIL  
No. of Photograph(s) : NIL  
No. of Test Circuit Diagram(s) : NIL  
No. of drawing(s) : TWO

  
(LEENA H. ROY)  
TEST ENGINEER



  
(A. AWASTHI)  
JOINT DIRECTOR



CENTRAL POWER RESEARCH INSTITUTE  
(Member of STL)



TEST REPORT


CPRI

Test Report Number: 2015/STL/1668

Date: 23 MAY 2016

SUMMARY OF TEST

1. Test conducted : HV Dry Power Frequency Voltage Withstand Test.
2. Rating for which tested : 28 kVrms for one min.
3. DOCUMENTS CONSTITUTING THIS REPORT :
  - 3.1 Supplementary test report : NIL
  - 3.2 Oscillogram No(s) : NIL
  - 3.3 Drawing of the equipment tested : 1) (3) PPPL-1123-3 Sheet 1 of 2 Rev 01  
2) (3) PPPL-1126-3 Sheet 2 of 2 Rev 01
  - 3.4 Test circuit drawing No(s). : NIL
  - 3.5 Photograph No(s). : NIL

  
(LEENA H. ROY)  
TEST ENGINEER



CENTRAL POWER RESEARCH INSTITUTE  
(Member of STL)



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TEST REPORT

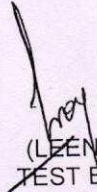
Test Report Number: 2015/STL/1668

Date: 23 MAY 2016

DESCRIPTION OF THE SAMPLE TESTED

(As assigned by the manufacturer)

Sample	:	H.T. Panel
Rated Voltage (Volts)	:	12000
Rated current (Amps)	:	1250
Frequency (Hz)	:	50
Insulation level (kVrms/KVp)	:	28/75
Number of Phases	:	Three
Number of Poles	:	-
Number of Breaks Per Pole	:	-
Control voltage	:	-
Contacts/terminals material	:	-
Interrupter details	:	-
Interrupter type	:	-
Interrupter make	:	-
Serial No.(s)	:	-
Rated SC breaking current (kA)	:	-
Rated SC making current (kAp)	:	-
Rated Short time Current (kA rms/kApk)	:	26.3 kArms for 3 seconds with initial peak of 65.75 KApk

  
(LEENA H. ROY)  
TEST ENGINEER



CENTRAL POWER RESEARCH INSTITUTE  
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TEST REPORT

CPRI

Test Report Number: 2015/STL/1668

Date: 23 MAY 2016

SCHEDULE OF TESTS

Type of Test : HV Dry power frequency voltage withstand test.

Condition of the equipment : New.  
Atmospheric conditions:

Ambient temp(degC)	Dry bulb Temp(degC)	Wet bulb temp(degC)	Atm Pressure(Hg-mm)
17	17	14	720

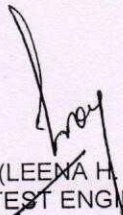
Atmospheric correction factor : 0.96

Description of tests : As per standard.

Application No.	Description of test	Test voltage (kVrms) for 1 minute
1 <sup>st</sup> application	Breaker closed. Test on R (YBF earthed).	28.0
2 <sup>nd</sup> application	Breaker closed. Test on Y (RBF earthed).	28.0
3 <sup>rd</sup> application	Breaker closed. Test on B(RYF earthed).	28.0

Observations : No flashover or puncture was noticed during the test.

**CONCLUSION** : The test results indicate that the sample tested complies with the requirement of the Cl. 6.2.6.1 of IEC:62271-200, 2011.

  
(LEENA H. ROY)  
TEST ENGINEER



CENTRAL POWER RESEARCH INSTITUTE  
(Member of STL)



TEST REPORT

Test Report Number: 2015/STL/1668

Date:

23 MAY 2016

NOTE

- The Test results relate only to the item(s) tested.
- Publication or reproduction of the test report /Certificate in any form other than by complete set of the whole test report /Certificate and in the language written is not permitted without the written consent of CPRI.
- Any Corrections/erasure invalidates the test Report/Certificate.
- NABL has Accredited this laboratory as per ISO 17025-2005 standard, vide certificate no. T-0011 for the tests carried out.
- Any anomaly/discrepancy in the test report /Certificate should be brought to the notice of CPRI within 45 days from the date of issue.
- The verification of the sample drawings by CPRI is limited to dimensional checks only wherever possible.
- CPRI Issues two kinds of documents:

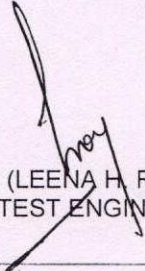
Test Report:

The test report is issued when the sample is tested for specific test required by the customer either in accordance with National/International standards or as per customer's requirements but no certification on the performance of the sample tested. The test report will contain the record of the values of test parameters as obtained during testing, the physical condition of the apparatus during testing, the physical condition of the apparatus during/after the test(s), copy(ies) of Oscillogram(s), record of supplementary test(s) if any conducted but no certification on the performance of the apparatus tested.

Test Certificate:

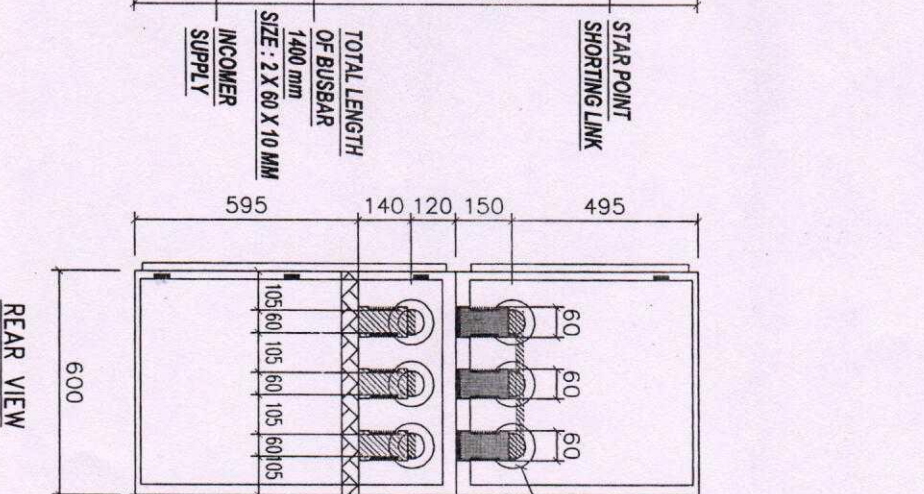
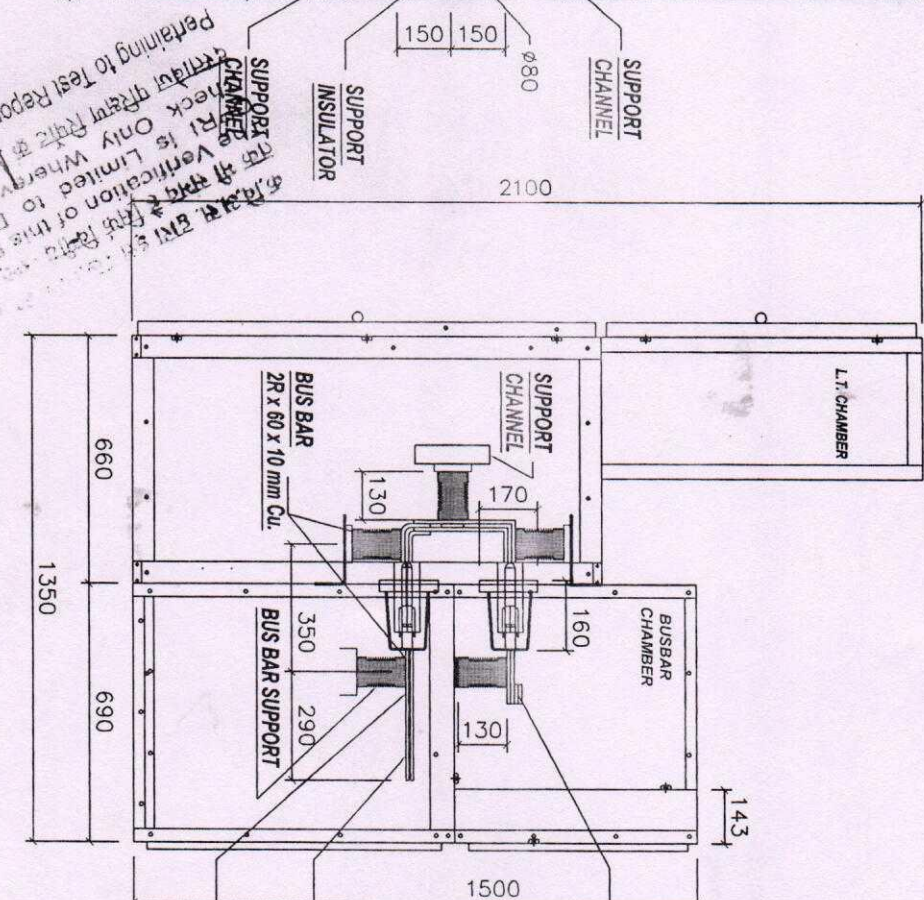
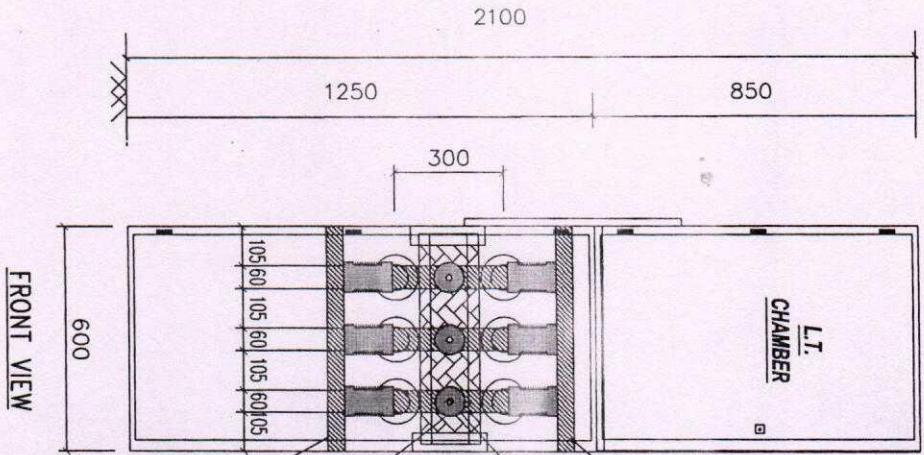
The test certificate is issued on request and payment of the prescribed charges only when the apparatus of particular type and rating has satisfactorily passed all the specified tests in compliance with condition stipulated in a published National/International Standards.

- All Documents constituting this test report/certificate are stitched together with a Continuous silk thread/silk ribbon, the two ends of which have been brought over the front sheet of this test report/certificate and sealed with a CPRI logo printed paper sticker/embossed.

  
(LEENA H. ROY)  
TEST ENGINEER



# 11KV, 1250A, SWITCHBOARD



Verification of this Drawing by  
 Check Only Wherever Dimensional  
 Pertaining to Test Report.

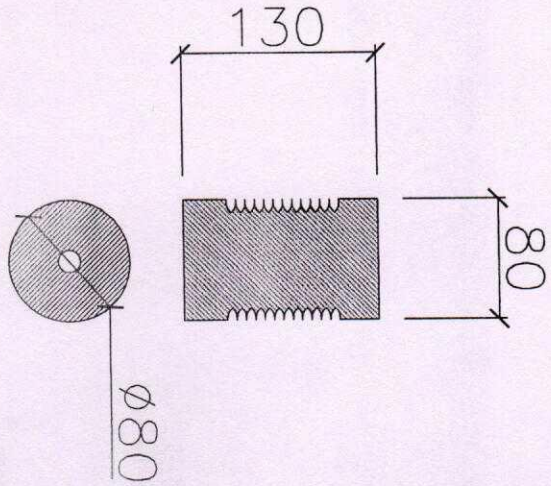
Engineering Office  
 G.A. Drawing

- GENERAL TOLERANCE ±2%  
 - ALL DIMENSIONS ARE IN MM.

1	Remarks	Year	2015	Reference	PPPL-MV-CPR1-11KV	Item No.:	100	Qty.:	1X	REV. NO.:	01
2	Name/Norm			Block/SR. NO.:	178/186/187	DWG. NO.:	(3)PPPL-1123-3				Sh. 1 OF 2
3	Original/Replacement for/Replaced by:-			Block/SR. NO.:	178/186/187	Work:	11KV-PPPL-8BK8				
4				Block/SR. NO.:	178/186/187	Work:	11KV-PPPL-8BK8				
5				Block/SR. NO.:	178/186/187	Work:	11KV-PPPL-8BK8				
6				Block/SR. NO.:	178/186/187	Work:	11KV-PPPL-8BK8				
7				Block/SR. NO.:	178/186/187	Work:	11KV-PPPL-8BK8				
8				Block/SR. NO.:	178/186/187	Work:	11KV-PPPL-8BK8				

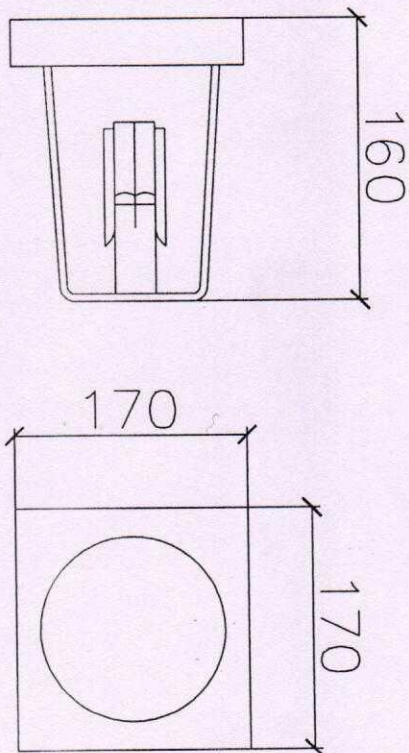


MAKE : BARODA BUSHING  
 MATERIAL : EPOXY  
 INSULATION CAPACITY : 15KV



BUSBAR SUPPORT  
INSULATOR

MAKE : BARODA BUSHING  
 MATERIAL : EPOXY  
 INSULATION CAPACITY : 15KV



BUSHING

કર્તાએ આ આ દસ્તાવેજને બંધ કરવામાં આવેલું છે.  
 The Verification of this Drawing by  
 CPRI is Limited to wherever  
 Check Only Wherever  
 containing to Test Report  
 Engineering Office  
 Ahmedabad

- GENERAL TOLERANCE ±2%  
 - ALL DIMENSIONS ARE IN mm

Year	2015	Reference G.A. Drawing	PRADIP POWERTECH PVT. LTD. BLOCK/SR. NO.: 178/186/187, ANANTA ESTATE, SANAND, AHMEDABAD.	Details : Panel G.A. Drawing	Reference : PEP_L100_CPRIL11KV	Qty: 1X	REV.
Issue	1	Remarks			Item No.: 100		
	2	Name/No.			DWG. NO.: (3) PIPPL - 11123 - 3		
	3	Original/Replacement for/Replaced by:-					
	4						
	5						
	6						
	7						
	8						



केन्द्रीय विद्युत अनुसंधान संस्थान  
प्रो. सर सी.वी. रामन रोड, पो. बा. सं. 8066  
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23602919, 23602829, 23600825, 23601258, 23602061  
फैक्स : 080-23601213, 23602277  
वेब साईट : <http://powersearch.cpri.res.in>  
<http://www.cpri.in>

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फैक्स : 0755-2587774  
ई-मेल : [stds@cpri.in](mailto:stds@cpri.in)  
[ad\\_cpri@dataone.in](mailto:ad_cpri@dataone.in)

अति उच्च वोल्टता अनुसंधान प्रयोगशाला  
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उपपल पो. ऑ. वारंगल राज मार्ग, हैदराबाद - 500 039. (ऑ.प्र.)  
ई पी ए बी एक्स : 040-27203112, 27208067, 27203622  
फैक्स : 040-27203378, 27201127  
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[uhvrl.cpri@nic.in](mailto:uhvrl.cpri@nic.in)

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फैक्स : 07109-262170  
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फोन : 0120-2402823, 2402058  
फैक्स : 0120- 2402824  
ई-मेल : [rtlnoida@cpri.in](mailto:rtlnoida@cpri.in)

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प्रथम तल सी टी डी कार्यशाला  
WBSEB, अभिक्षण बिल्डिंग (भवन)  
बी एन ब्लॉक, सेक्टर - V  
साल्ट लेक सिटी, कोलकाता - 700 091  
टेलीफैक्स : 033-64511887  
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मोबाइल : 9831124456

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ए.एस.ई.बी. कॉलोनी, नारंगी  
गोवाहाटी - 781 026 (असम)  
टेलीफैक्स : 0361-2650299  
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Website : <http://powersearch.cpri.res.in>  
<http://www.cpri.in>

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FAX : 040-27203378, 27201127  
E-mail : [uhvac@cprihyderabad.com](mailto:uhvac@cprihyderabad.com)  
[uhvrl.cpri@nic.in](mailto:uhvrl.cpri@nic.in)

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FAX : 07109-262170  
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WBSEB, ABHIKSHAN BUILDING,  
'BN' BLOCK, SECTOR-V,  
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TELEFAX : 033-64511887  
E-mail : [maiti@cpri.in](mailto:maiti@cpri.in)  
Mobile : 9831124456

REGIONAL TESTING LABORATORY  
NO.4, TYPE III (OLD A.T.)  
A.S.E.B. COLONY, NARANGI  
GUWAHATI - 781 026 (ASSAM)  
TELEFAX : 361-2650299  
TELEPHONE (M) : 98647 16561  
Email : [gk@cpri.in](mailto:gk@cpri.in), [rtlg@cpri.in](mailto:rtlg@cpri.in)





## केन्द्रीय विद्युत अनुसंधान संस्थान

(विद्युत मंत्रालय, भारत सरकार के अधीन एक स्वायत्त सोसायटी)

### Central Power Research Institute

(An Autonomous Society under the Ministry of Power, Govt. of India)

### स्विचगियर परीक्षण तथा विकास केन्द्र Switchgear Testing & Development Station

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Govindpura, Bhopal - 462 023

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Phone : 2586682 (UNIT HEAD) 2586997 (STN-I)  
2586343 (स्टेशन-II) 2586944 (सप्लीमेन्ट्री प्रयोगशाला)  
2586343 (STN-II) 2586944 (SUPP. LAB.)

फैक्स : 0755-2587774 ग्राम : POWERRESEARCH  
Fax : 0755-2587774 Grams : POWERRESEARCH

ई-मेल : stds@cpri.in, ad\_cpri@dataone.in  
E-mail.. : stds@cpri.in, ad\_cpri@dataone.in

वेबसाइट : <http://cpri.in>  
Website : <http://cpri.in>