

Sun & Jay Engineering Consultants Private Ltd

Power, Oil & Gas Technical Services



www.sunjay.in / info@sunjay.in

ABOUT US



SJEC is a part of SUN & JAY Group, having its operations in Energy Sector since 2005. SJEC provides specialized consultancy services in the field of Project Management and Execution of Energy Projects.

Since its inception, S J E C has continuously refined its services to suit customer requirements and its now one of the renowned solution and service provider in energy sector.

VISION & MISSION



Vision: A Corporate built to excel in various sectors of life a n d industry. An organization, where h u m a n qualities a r e valued, nourished a n d respected to meet t h e expectation of our par t n e r s a n d customers. The team is dedicated to meet the growing demands of a flourishing economy a n d committed to exceed all the expectations in its areas of operation

Mission: With a strong corporate policy, committed team & efficient workflow system, the team is sure to gain respect, recognition and derive its market share.

DOMESTIC CLIENTS



DOMESTIC CLIENTS



INTERNATIONAL CLIENTS

Rio Tinto

bhpbilliton

CITIC PACIFIC MINING

PowerWater



PHCN
Power Holding Company Of Nigeria Plc

هيئة كهرباء ومياه دبي
Dubai Electricity & Water Authority

BHEL
Bharat Heavy Electricals Ltd.

MBH
POWER
MBH POWER LIMITED

ADANI

UGL

KAHRA MAA
كهرماء

NCC

CLOUGH

Downer
Relationships creating success

Powerlink
QUEENSLAND

scee

LMS
ENERGY

CREDENTIALS

Dt: 1.3.2012

TO WHOMSOEVER IT MAY CONCERN:

This is to certify that M/S Sun & Jay Engineering Consultants (P) Ltd., in Chennai have successfully Tested and Commissioned the following equipments in 400 kV Switchyard and 3X250 MVA Generator Transformers of 2X600 MW EBoP Project of AREVA (T&D) at Salaya-Gujarat

WO No:5428-4500388393 Dt:22.5.2010

This Project consists of the following main equipments

1.Switch Yard – 400 KV Circuit Breaker, Current Transformer, Potential Transformer, Isolator.

2.250 MVA Generator Transformer,70 MVA Station & 45 MVA Station Transformer.

3.11 KV Switchgear Panels.

4.The Protection relay type – Circuit Breaker Protection , Line Protection, Generator Transformer Protection & Bus bar Protection using Areva make Micom Relays.

We are satisfied with their work and also the site support extended by them.



Site Office: - Near SP#3, Inside RSP, SAIL, Rourkela- 769001, Telephone- 9238158384

Date: April 7, 2012

TO WHOMSOEVER IT MAY CONCERN

This is to certify that M/s Sun & Jay Engineering Consultants (P) Ltd., Chennai have carried out testing & commissioning work for the following equipments at LBSS-VI (SP3) substation at RSP Rourkela Project site (Package no: 073)-

1. 33KV switchgear panels (ABB make) including control & relay panel.
2. 6.6 KV VCB panels of SIEMENS make.
3. 6.6 KV magnetic actuator type panels of M/S Megawin make.
4. 31.5/25 MVA transformer/33/6.6 KV transformer – M/s CGL Make.
5. Capacitor bank & related equipments

The qualities of service rendered by M/s Sun & Jay are satisfactory. We wish them all success in their futures endeavors.

This certificate is issued to M/s Sun & Jay on their request for credential purpose only.

Yours faithfully,

For Larsen & Toubro Limited,
ECC Division

(D.K. Singh)
Project Manager
RSP Rourkela Project

Head Office:-
Larsen & Toubro Limited, Power Transmission & Distribution
Mount Poonamallee Road, Manapakkam, P. B. No. 978, Chennai - 600 089, INDIA
Tel: +91-44-2270 4000,2270 5000 Fax: +91-44-2270 5482 www.Lntec.com

Registered Office:
L&T House, N. M. Marg
Balard Estate



Date: 28 Jan 2014

TO WHOMSOEVER IT MAY CONCERN

This is to certify that M/s Sun & Jay Engineering Consultants (P) Ltd., Chennai, have carried out Testing & commissioning work for the following Equipment's at ALOK 220 kV Switching Station and 220/66 kV Sub Substation at ALOK Industries, Silvassa, Vapi.

1. 220 kV Switch Yard Equipment's with Control & Relay Panel.
2. 220/66 kV Switch yard Equipment's with Control & Relay Panel.
3. 100 MVA Transformers (220/66 kV) - M/s Bharat Bijile Make.
4. 25 MVA Transformers (66/11 kV) - M/s Volt amp Make.

The qualities of service rendered by M/s Sun & Jay are satisfactory. We wish them all success in their future endeavors.

This certificate is issued to M/s Sun & Jay on their request for credential purpose only.

Yours faithfully,

Manager Testing and Commissioning
for ABB India Limited,

ABB India Limited

Address: Plot No. 44, S.S.S, 2nd Phase Pudupakkam Industrial Area T.3, No. 1006 Chennai Tamil Nadu - 600028	Telephone: +91 89 2254 9148/9151/9152 Fax: +91 89 2254 9159/9157 +91 89 2254 9158/9156 +91 89 2254 9153/9154 +91 89 2254 9155/9158	Registered Office and Corporate Office: 2nd Floor, Rajajithi Whitaker East Wing 19, Anna Salai Road Chennai - 600021	Telephone: +91 89 2241100 to 2249114 Fax: +91 89 2241148	Web Address: www.abb.in
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CREDENTIALS

THERMAX LIMITED "ENERGY HOUSE", D-II BLOCK, PLOT NO. 38 & 39, MIDC,
CHINCHWAD, PUNE 411 019, INDIA. ☐ TEL: +91-20-66126464
☐ FAX : +91-20-66126612 ☐ WEB : www.thermaxindia.com

Boiler & Heater Group

8th July 2014



TO WHOMSOEVER IT MAY CONCERN

This is to certify that M/s Sun & Jay Engineering Consultants (P) Ltd, Chennai have carried out MCC component testing for the Utility Boiler, HRSG 1, 2 & 3 at M/s GAIL, Vijaypur site, Madhya Pradesh.

Following were the testing activities that were carried out :

1. MCC Testing
 - Control transformer Megger & Ratio test
 - Module transformer Megger & Ratio test
 - Thermal OLR testing as per manufacturer curve
 - MPR 300 relay testing
 - CT Megger & Ratio test
 - Main bus A & B CRM
 - OLR , Module transformer , Starter
2. LV Motors IR test, Winding resistance & Megger
3. HV motors IR, Winding resistance, HI-Pot test & PI test
4. UPS & Non - UPS PDB Testing.
5. Earth Pit testing
6. Hoist PDB & Motor testing

The quality of service provided by M/s Sun & Jay was satisfactory.

This certificate is issued to M/s Sun & Jay on their request for credential purpose only.

Yours faithfully,

For M/s. Thermax Ltd.

P M Keni

Associate Manager – Field Engg. (Electrical & Instrumentation)
(OIL & GAS - SBU)

REGD. OFFICE : D-13, R.D. AGA ROAD, MIDC, CHINCHWAD, PUNE 411 019, INDIA.
Corporate Identity Number : L28299PN199DPLCO22767



Power and productivity
for a better world™



Date-14/08/2014

TO WHOM IT MAY CONCERN

This is to certify that M/s Sun & Jay Engineering Consultant(P) Ltd, Chennai, carried out Testing & Commissioning work for the below mentioned equipment at 33/11 KV GIS Sub station at WBSEDCL Barrackpur, Kolkata.

1. 33 kv GIS Switch Board (ABB make-CB, REF 542 Plus Relay, Panel wiring etc.)
2. 11 KV Switch Board (with all related equipment).

The quality of services rendered by M/s Sun & Jay is satisfactory and acceptable in all respects.

This certificate is issued on request from M/s Sun & Jay for record and credential purpose only.

14/08/2014
PARITOSH PRAMANIK

Project Manager
ABB India Limited, Kolkata

ABB India Limited (formerly known as ABB Limited)

Address : OMEGA Building, 17th floor, Bengal Intelligent Park, Block EP & GP Sector V, Salt Lake City, Kolkata-700 091 West Bengal, India
Telephone & Fax : Ph. : +91 33 6821 3000-11 Fax : +91 33 6821 3187 Website : www.abb.co.in
Corporate & Regd. Office : ABB India Limited 21st Floor, World Trade Centre, Dr. Rajkumar Road, Malleshwaram (West), Bangalore - 560 065 CIN : L32202KA1049PLC003929
Telefax & Fax : Ph. : +91 80 2294 9150-54 Fax : +91 80 2294 9148

RELIANCE

Rosa Power Supply Company Ltd

Administrative Block
Hardoi Road, P.O. Rausar Kothi, Tehsil Sadar, District Shahjahanpur, Uttar Pradesh 242 406
Tel: +91 05842 305800 Fax: +91 05842 300003

Date: 02.02.2015

TO WHOMSOEVER IT MAY CONCERN

This is to certify that M/s Sun & Jay Engineering Consultants (P) Ltd., Chennai, have carried out the technical services of Electromechanical & Numerical relays testing during Annual Overhauling of Unit-1 at Rosa Power Supply Co Ltd, Shahjahanpur, UP.

Following Relay testing was carried out by Sun & Jay Engineering Consultants (P) Ltd.

1. Generator Protection Relays (Siemens 7UM61, 7UM62).
2. Transformer Protection Relays (Alstom Micom P632, P633 & P634)
3. Motor Protection Relays (Alstom Micom P220)
4. Feeder Protection Relays (Alstom Micom P120, P127, P122, P922 & Siemens 7SJ Series, BASLER)
5. Alstom Make Electromechanical relays (VAA, VAJ Series & SYNC relay SKD)

The qualities of service rendered by M/s Sun & Jay were satisfactory. We wish them all success in their future endeavors. This certificate is issued to M/s Sun & Jay on their request for credential purpose only. This document cannot be used for legal purpose. This document cannot be used for any financial claims by M/S Sun & Jay Engineering Consultants (P) Ltd towards Rosa Power Supply Co Ltd.

02/02/15

Yours faithfully,
For ROSA Power Supply Co. Ltd.
(RELIANCE POWER)

Registered Office: 7th Floor, B Wing, Raheja Point - I, Jawaharlal Nehru Marg, Vakola Market, Santa Cruz (East), Mumbai - 400055.
Lucknow Office: 520F, Kasmanda Apartments, 2 Park Road, Hazratganj, Lucknow 226 001, Fax: 0522 3031062/22395508

www.sunjay.in / info@sunjay.in

CREDENTIALS

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IL&FS Engineering and Construction Company Limited
4th Floor
Paras Drive Town Centre
Golf Course Road
Sector 53, Gurgaon-122 002
T +91-124-4988700
F +91-124-4988750
W www.ifscng.com
CIN : LA5201AP1988PLC008624

Date: 21.07.2014

TO WHOMSOEVER IT MAY CONCERN

This is to certify that M/s Sun & Jay Engineering Consultants (P) Ltd, Chennai have carried out testing & commissioning of Control & Relay Panels of 132kV/33kV substation for the following locations in Haryana under package G11(B)

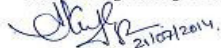
1. 132kV Gurnavati
2. 132kV Machrauli
3. 132kV Baḡli
4. 132kV Bhattu

The testing & commissioning work carried out by M/s Sun & Jay Engineering Consultants (P) Ltd are satisfactory. We wish them all success in their future endeavors.

This certificate is issued to M/s Sun & Jay Engineering Consultants (P) Ltd on their request for credential purpose only.

Your's Faithfully

For IL&FS Engineering Services


21/07/2014

Aditya Zhariya
DGM-Power



Date: 2/3/2015

TO WHOMSOEVER IT MAY CONCERN

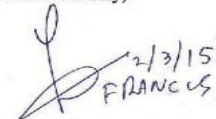
This is to certify that M/s Sun & Jay Engineering Consultants (P) Ltd., Chennai, have carried out the technical services of Annual Maintenance testing at Smelter electrical works, Hindalco Industries, Mahan.

Following Maintenance testing activities carried out by Sun & Jay Engineering Consultants (P) Ltd.

1. 33kV Bay Switchyard equipments & CRP testing.
2. 6.6kV Switchgear Panels testing.
3. 4MVA Transformer Testing
4. Testing of 6.6kV/415V PSS with 1MVA Transformer.

The qualities of service rendered by M/s Sun & Jay are satisfactory. We wish them all success in their future endeavors. This certificate is issued to M/s Sun & Jay on their request for credential purpose only.

Yours faithfully,


2/3/15.
FRANCIS

Site Office:
HINDALCO INDUSTRIES LIMITED
(Unit: Mahan Aluminium)
First Floor, SITE Complex
Circuit House Road Morwa
Singrauli - 486 889 (M.P.), India
Phone : +91 7805 281007

Works:
HINDALCO INDUSTRIES LIMITED
(Unit: Mahan Aluminium)
Off. NH-75-E, Project Site
Bargawan - 486 886
District Singrauli,
Madhya Pradesh, India

Website: www.hindalco.com

Registered Office: D. No. 8-2-120/113/3, 4th Floor, Sarani Info Park, Cyber Towers, Road No 2, Banjara Hills, Hyderabad-500 033, A.P.
T +91-40-4040 9333
F +91-40-4040 9444

www.sunjay.in / info@sunjay.in

INTERNATIONAL PROJECTS

➤ AUSTRALIA:

- ❖ Testing & Commissioning of 220/33/11 kV Protection Systems at **SINO IRON MINE in Project Western Australia.**
- ❖ Testing & Commissioning of 132/66/11.5/6.6/3.3/0.415 kV GIS Protection systems in various EDCs for **Worsley Alumina Refinery in Western Australia.**
- ❖ Factory Acceptance Testing/Quality Control of HT Panels & Protection System for **QGC project in Darra**
- ❖ Testing & Commissioning of 33/6.6/0.415kV switchgear and protection system for the project of **BHP- Jumblebar.**
- ❖ Testing & Commissioning of 132/22kV Switchyard, Switchgear and Protection system for the project of **TLA-Kwinana**
- ❖ Testing of 66kV protection system for the project of **RIO-Tinto ,Karratha**
- ❖ Testing of 132kV Protection system for the project of **Rugby Run Adani,Moranbah,Queensland.**
- ❖ Testing of 27.5kV Protection System for the project of **Stirling Station, Perth.**
- ❖ Testing of 26.4 kV Protection system for the project of **Edge water Station, Perth.**
- ❖ Testing of 66kV Protection system for the project of **LMS power plant.**
- ❖ Testing and commissioning of 132/22kv Protection system and Switch gears @**Kwinana**
- ❖ Testing of 22kv LMS Power Plant Protection Systems @**South Cardup**
- ❖ Testing of 3.3 kV Rio-Tinto Karratha Protection systems @**Karratha,WA**
- ❖ Testing and Commissioning of 132kV Rugby Run solar Project Protection Systems @**Moranbah,QLD**
- ❖ HMAS Stirling Testing & Commissioning of 11kV Switchgears @**Garden Island**
- ❖ BHP South Flank Project FAT, Kounis Switch rooms @**Forrestdale,WA**
- ❖ Eliwana FMG Project 33kV Switchgear FAT Testing @**Maddington,WA**
- ❖ BHP South Flank Project Commissioning @**South Flank**
- ❖ Lithium Plant 33kV Switchgear Commissioning @**Bunburry**

INTERNATIONAL PROJECTS

➤ GULF Region:

- ❖ Testing & Commissioning of Cable Differential Protection in Various projects (Phase 4,5,6,7,8,9 & West bay) for **K a h r a m m a i n Q a t a r – S i e m e n s L t d**
- ❖ Testing & Commissioning of DCS system (Horizontal Communication with Protection Devices) for **K a h r a m m a (PH4 Project) in Qatar – S i e m e n s L t d**.
- ❖ Testing & Commissioning of Protection system **at 132/11kV DEWA in UAE**
- ❖ Testing & Commissioning of 3x131 MW Gas Turbine Generator protection system for **PDO (Petroleum Development of OMAN) in Qarn Alam & Mukhaizna Power Stations.**
- ❖ Testing & Commissioning of Protection system at **132/11kV FEWA S/S in UAE**
- ❖ Testing & Commissioning of Protection system at **33/11 kV Khalifa Port S/S DEWA in UAE.**
- ❖ Testing & Commissioning of Protection Relays at **132/33kV S/S (Qassim , Shaqra, Hail) - Saudi Electric Company.**
- ❖ Testing & Commissioning of Protection systems at **380/132kV S/S at (Al Kharj, Hail) – Saudi Electric Company.**
- ❖ Testing & Commissioning of 132 kV GIS S/S at **Al Muzamiah of Saudi Electric Company.**
- ❖ Testing of Motor Protection Relays **at Causeway – 1 SS, Manifa – ARAMCO.**

➤ Srilanka:

- ❖ Testing & Commissioning of Protection system at **132/33kv GSS, CEB in Srilanka (Maliboda, Wewalwatta and Nawalapitiya).**

INTERNATIONAL PROJECTS

➤ **AFRICAN Region:**

- ❖ Testing & Commissioning of 132/33kV Switchyard Equipments & all Protection Relays for **PH C N a t (Abuja , Yola, Gombe, Aloji) Nigeria.**
- ❖ Testing & Commissioning of 33/11kV S/S – 15 MVA Injection Substation at **(Ibadan, Ikroud) Nigeria -NIPP.**
- ❖ Testing & Commissioning of 400kV Line Differential Protection at **L u s a k a Zambia**
- ❖ Testing & Commissioning of 33/11kV S/S – 15 MVA Injection Substation at **Lagos Nigeria -NIPP**
- ❖ Testing & Commissioning of Siemens & Alstom Numerical Relays at Sugar Power plant at **Kaliro at Ugan d a.**
- ❖ Testing & commissioning of 132kV Protection system for **Mumias Suga Company Limited at Kenya.**
- ❖ Retrofitting of Feeder Protection & Transformer Protection systems - **EEPCO, Ethiopia.**
- ❖ Testing & Commissioning of Distance, Transformer, Bus bar & Feeder Protection Systems - **S u d a n**
- ❖ Testing & Commissioning of 11 kV Switchgear Panels at **Lake Cement, Tanzania.**

➤ **EUROPE Region:**

- ❖ Augmentation work for REF 54X in switchgear panels in various sites at **Moldova.**

➤ **Papua New Guinea:**

- ❖ Testing and Commissioning of 66kV Switchyard and protection system for the project of **POM Power station, PNG**

➤ **NEW ZEALAND:**

- ❖ Testing & Commissioning of Relay Configuration (REF 542+) in **KUPE Gas Project.**

DOMESTIC PROJECTS

➤ Testing & Commissioning of Substations:

- ❖ Testing & Commissioning of Transformers & Switchgear panel at **2X660 MW Power plant NCC – Nellore, AP**
- ❖ Testing & Commissioning of Protection Systems in 400kV S/S & **2 x 600 MW power plant at Essar - Salaya – Gujarat**
- ❖ Testing & Commissioning of 220/33 kV Substation at **Wind world India Infrastructure Private Ltd, - JAGALUR, Karnataka**
- ❖ Testing & Commissioning of 220/33kV Trafo Incomer - C&R Panel at **Wind World India Infrastructure Private Limited at Jaisalmer -Rajasthan**
- ❖ Testing & Commissioning of 132/33kV GRID Substation at **JKPDD at Bandipora, Kashmir**
- ❖ Testing & Commissioning of 220 kV new Parli Switchyard at **MSETCL – Parli**
- ❖ Testing & Commissioning of 220 kV Conversion Substation at **Aditya Hindalco – Singrauli**
- ❖ Testing & Commissioning of 132 / 33 kV at **HVPNL Substation - BADLI**
- ❖ Pre Commissioning Test carried on 220 kV Substation at **Alok Industries – Silvassa**
- ❖ Testing & Commissioning of MSETCL 220/132kV & Bharat Forge 132/33 kV Substation at **Kirloskar Electric Company**
- ❖ Testing & Commissioning of 132/11kV HT Boards at **Sri Sarvaraya Sugars Ltd –AP**
- ❖ Testing & Commissioning of 220 / 33/ 11 kV Substation at **Aditya Hindalco – Sambalpur**
- ❖ Testing & Commissioning of 445MW Generator Protection at **KPTCL - Devarapalli**
- ❖ Testing & Commissioning of 132 / 33 kV S/S at **Vijay Electricals – Nardana**
- ❖ Testing & Commissioning of 132 / 6.6kV HV & Switchgears at **India Cements - AP**
- ❖ Testing & Commissioning of 66/11 kV S/S Transformer , C&R Panel at **BASANT Cables & Conductors - Agartala.**
- ❖ Testing & Commissioning of 400/220kV SS **@OPTCL at Kasipur(UP&M).**
- ❖ Commissioning of Transformer 500 MVA, 400/220KV – **PGCIL, Tamilnadu**

DOMESTIC PROJECTS

➤ Testing & Commissioning of Protection Systems:

- ❖ Testing & Commissioning of 765 kV Distance Protection at **PGCIL- Seoni**
- ❖ Testing & Commissioning of 400 / 220 KV S/S Line, Transformer Protection & Busbar Protection System at **PGCIL - Narendra**
- ❖ Testing & Commissioning of 400 / 220 kV S/S Line , Transformer & Busbar Protection at **PGCIL- Lucknow**
- ❖ Testing & Commissioning of 400 kV S/S Line, Transformer & Busbar Protection at **PGCIL – Mandola**
- ❖ Testing & Commissioning of 400 kV S/S -Backup impedance at **PGCIL- Bina**
- ❖ Testing & Commissioning of 400 kV Line Protection at **PGCIL- Madurai**
- ❖ Testing & Commissioning of 400 kV S/S - Retrofitting Line Protection System at **PGCIL- Salem**
- ❖ Testing & Commissioning of 400 kV Line Protection at **PGCIL- Basi Jaipur**
- ❖ Testing & Commissioning of Generator, Feeder protection relays at **SMIPL, Bonai, Orissa**
- ❖ Testing & Commissioning of all protection systems at **TSGENCO, Kakatiya Thermal Power Projects at Warangal**
- ❖ Testing & Commissioning of Differential and Transformer Protection relays at **Ferro Alloy Steel Plant at Chandrapur, Maharashtra**
- ❖ Testing & Commissioning of all protection systems at **RPCL, YARAMARUS Thermal Power Project Unit - II at Raichur, Karnataka**
- ❖ Testing & Commissioning of Distance Protection at **MSETCL- Beed**
- ❖ Testing & Commissioning of Transformer Protection at **MSETCL- Mulund**
- ❖ Testing & Commissioning of 400 kV S/S Busbar Protection System at **MSETCL – Khamgaon**
- ❖ Testing & Commissioning of 11kV Numerical Protection Relays at **KPTCL- Bellary**
- ❖ Testing & Commissioning of Distance & Transformer Protection at **BSEB –Jehanabad**

DOMESTIC PROJECTS

➤ Testing & Commissioning of Protection Systems:

- ❖ Testing & Commissioning of 132/33kV for protection system at **HVPNL - Machhrauli Substation**
- ❖ Testing & Commissioning of 132/33kV for protection system at **HVPNL – Badli Substation**
- ❖ Testing & Commissioning of 400 kV Line, Transformer Protection & Bus Bar Protection System at **PTCUL- Kas h i p u r**
- ❖ Testing & Commissioning of 132/33kV for protection system at **HVPNL - Bhattu Substation**
- ❖ Testing & Commissioning of 132/33kV for protection system at **HVPNL - Garnawati Substation**
- ❖ Testing & Commissioning of 400 kV Line, Transformer & Bus bar Protection at **UPPC L – B arei lly**
- ❖ Testing & Commissioning of 60 MW Generator Protection at **RRVUNL – Ramgarah, Jaisalmer**
- ❖ Testing & Commissioning of Line Protection at **RRVUNL- Taran agar**
- ❖ Testing & Commissioning of 400 kV Bus-Bar Protection System at **RRVUNL - Merta City**
- ❖ Testing & Commissioning of 400 / 220 kV S/S Line, Transformer Protection at **RRVUNL - KOTA**
- ❖ Testing & Commissioning of Relay testing at **M/S Simhapuri Energy Ltd - GUDUR**
- ❖ Testing & Commissioning of 66 / 33kV Relay Protection System at **BMRCCL – Bangalore**
- ❖ Testing & Commissioning of all Protection Relays at **M/S 3*130 MW S/S BPSL – Jharshaduda**
- ❖ Testing & Commissioning of Differential Protection Relay at **Thermal power plant – Vallur, Chennai**
- ❖ Testing & Commissioning of Relay Testing at **M/S Lokmangal Sugar Ethanol & Co generation industries Ltd – Bhandarkavthe, SOLAPUR**
- ❖ Testing & Commissioning of all Protection Systems in 66kV & 33kV Feeders at **Grasim Industries – Bharuch**
- ❖ Testing & Commissioning of 11kV S/S - Protection System at **IIT - Chennai**
- ❖ Testing & Commissioning of Transformer & Distance Protection at **PGCIL- Khandwa**
- ❖ Testing & Commissioning of all Protection System at **PGCIL - ITARSI**
- ❖ Testing & Commissioning of Protection System at 30MW & 20MW Solar Power plant @**USUPL at Jhansi.**

DOMESTIC PROJECTS

➤ Testing & Commissioning of Protection Systems:

- ❖ Testing & Commissioning of 400 kV S/S - Distance, Transformer, Generator Protection at **NTPC - Kahalgaon**
- ❖ Testing & Commissioning of Generator Protection Relay at **NHDC - Omkareshwar**
- ❖ Testing & Commissioning of Relay testing at **Bhilai Steel plant – BHILAI**
- ❖ Testing & Commissioning of Line Protection System at **CPCL – Manali**
- ❖ Testing & Commissioning of 33/11kV Numerical Protection system at **Rourkela Steel Plant – Orissa**
- ❖ Testing & Commissioning of SEL make Feeder & Motor Protection relays at **B CPL - ASSAM**
- ❖ Testing & Commissioning of Transformer & Feeder protection relays at **Hindustan Zinc Ltd - Rudrapur**
- ❖ Testing & Commissioning of Feeder, Transformer, motor, & busbar protection relays at **Aditya Birla Chemicals India Ltd, - Ranchi.**
- ❖ Testing & Commissioning of Relay Testing @**RPSCL – Shahjahanpur (UP).**
- ❖ Testing & Commissioning of Transformer, Generator Protection Relay Testing - **2x137MW NTPC, Faridabad, Hariyana**
- ❖ Testing & Commissioning of Protection Relays @ **2x660MW STPS Power Plant Unit 7&8, Suratgargh, Rajasthan**
- ❖ Testing & Commissioning of Protection Relays @ **132/11kV Solar Substation Kalkuva, U.P East**
- ❖ Testing & Commissioning of Protection Relays @ **220/132/33/11kV Substation HVPNL, Hariyana**
- ❖ Testing & Commissioning of Protection Relays @ **765/400//220kV Substation PGCIL, Gaya S/S, Bihar**
- ❖ Testing & Commissioning of Protection Relays @ **765/400kV Pooling Substation PGCIL, Jharsuguda, Orissa**
- ❖ Testing & Commissioning of Protection Relays @ **220/132/66 kv MORTI SS GETCO, Vadodara, Gujarat**
- ❖ Testing & Commissioning of Protection Relays @ **400/220 kv Bhachau SS GETCO, Gujarat**
- ❖ Testing & Commissioning of Protection Relays @ **765/400//220kV Substation PGCIL, Gaya S/S, Bihar**

DOMESTIC PROJECTS

➤ Testing & Commissioning of Protection Systems:

- ❖ Testing & Commissioning of Protection Relays @ **132kV GIS EXTN SS PGCIL, Muzaffarpur, Siliguri, Purnea, Maithon. Kishankanj, Bihar**
- ❖ Testing & Commissioning of Protection Relays @ **220/132/33 kV SS APTRANSCO & TSTRANSCO**
- ❖ Testing & Commissioning of Relay Testing - **765/400kV Substation PGCIL, Orai, Uttra Pradesh**
- ❖ Testing & Commissioning of 765/ 400 kV S/S - Distance, Transformer, Protection Relay Testing - **Augul, Orissa**
- ❖ Testing & Commissioning of 400/220 kV S/S - Distance, Transformer, Protection Relay Testing - **Sikar, Rajasthan**
- ❖ Testing & Commissioning of Relay Testing @ **400kV Substation PGCIL, Dharmapuri, TamilNadu**
- ❖ Testing & Commissioning of Protection Relays @ **132/33KV Substation UPTCL, Bhoor, Meerutt, Uttra Pradesh**
- ❖ Testing & Commissioning of Protection Relays @ **132/33KV Substation UPTCL, Agra cant, Uttra Pradesh**
- ❖ Testing & Commissioning of Protection Relays - Distance, Transformer, Generator Protection Relays - **2*660MW Suratgarh, Rajasthan**
- ❖ Testing & Commissioning of Relay Testing - **765/400kV Substation PGCIL, Sundargarh, Orrisa**
- ❖ Testing & Commissioning of Transformer & Feeder protection relays at **1*20MW Solar Plant _ Channapatnan, Karnataka.**
- ❖ Testing & Commissioning of Protection Relays @ **132/33KV Substation UPTCL, Ganganagar, Uttra Pradesh**
- ❖ Testing & Commissioning of Protection Relays @ **132/33KV Substation UPTCL, Barhan, Uttra Pradesh**
- ❖ Testing & Commissioning of 400/220 kV S/S - Protection Relay Testing- **Ajmer, Rajasthan**
- ❖ Testing & Commissioning of Protection Relays @ **132/33KV Substation UPTCL, Usawan, Uttra Pradesh**
- ❖ Testing & Commissioning of Protection Relays @ **400/220KV Substation OPTCL, Mendhasal, Orrisa**

DOMESTIC PROJECTS

➤ Testing & Commissioning of Protection Systems:

- ❖ Testing & Commissioning of Protection Relays @ **220/132kV SS UPPTCL, Sikandra, Uttra Pradesh**
- ❖ Testing & Commissioning of Protection Relays @ **220/66/33kV SS HVPNL, Panchgaon, Haryana**
- ❖ Testing & Commissioning of Protection Relays @ **400/220kV GIS PGCIL, Hamirpur, Himachal Pradesh**
- ❖ Testing & Commissioning of Protection Relays @ **400/220kV SS, Hindupur, Andra Pradesh**
- ❖ Testing & Commissioning of Protection Relays @ **132/33kV SS, Tanakalu, Andra Pradesh**
- ❖ Testing & Commissioning of Protection Relays @ **400kV SS, Mundra, Gujarat**
- ❖ Testing & Commissioning of Protection Relays @ **220/132kV SS, Chikhli, Mumbai**
- ❖ Testing & Commissioning of Protection Relays @ **400/220kV GIS PGCIL, Roorkee, Uttrakand.**
- ❖ Testing & Commissioning of Protection Relays @ **220/60/11kV SS KPTCL, Mittemari, Karnataka.**
- ❖ Testing & Commissioning of Protection Relays @ **220/60/11kV SS KPTCL, Coramangala, Karnataka.**
- ❖ Testing & Commissioning of Protection Relays @ **400/220kV SS HVPNL, Gurugram, Hariyana.**
- ❖ Testing & Commissioning of Protection Relays @ **220/60/11kV SS KPTCL, ITI, Karnataka.**
- ❖ Testing & Commissioning of Protection Relays @ **400/220kV SS , Jagalur, Karnataka.**
- ❖ Testing & Commissioning of Protection Relays @ **220/60/11kV SS KPTCL, Begabali, Karnataka.**

DOMESTIC PROJECTS

➤ Testing & Commissioning of Protection Systems:

- ❖ Testing & Commissioning of Protection Relays @ **400/220kV SS PGCIL, Chittorgarh, Rajasthan**
- ❖ Testing & Commissioning of Protection Relays @ **220/132kV SS, Sitarganj, Uttra Pradesh.**
- ❖ Testing & Commissioning of Protection Relays @ **400/132kV SS MSPCL, Imphal, Manipur.**
- ❖ Testing & Commissioning of Protection Relays @ **220/132/33kV GIS Gazole, West Bengal.**
- ❖ Testing & Commissioning of Transformer and Feeder Protection Relay Testing @ **220/132/33kV SS AEGCL, Assam.**
- ❖ Testing & Commissioning of 400/220 kV S/S Busbar Protection System at **OPTCL – Orrisa**

➤ Testing & Commissioning of MV & LV Switchgear Panels:

- ❖ Testing & Commissioning of 13.22 MW at **WHRB Ultratech Cements –AWARPUR**
- ❖ Testing & Commissioning of HT & LT Panels at **GAIL - Vijayapur site**
- ❖ Testing & Commissioning of **PTPS 50MW Power Plant** at **HARTEK**
- ❖ Testing & Commissioning of HT and LT panel of 11 kV Substation at **HPCL - KADAPPA**
- ❖ Testing & Commissioning of 11 kV switchgear at **TKML – Bidadi**
- ❖ Testing & Commissioning of 11 kV switchgear at **Praxair India ltd- Karnataka**
- ❖ Testing & Commissioning of 11 kV switchgear at **IVRCL- ONGC –Gujarat**

DOMESTIC PROJECTS

➤ Testing & Commissioning of MV & LV Switchgear Panels:

- ❖ Testing & Commissioning of 33 kV HT/LT Panels, Switchgear at **TATAPRO JE CT – BARMER**
- ❖ Testing & Commissioning of 33 / 11 kV Switchgears at **Rourkela Steel Plant – Orissa**
- ❖ Testing & Commissioning of PMCC & MCC Panel at **Aditya Birla – Mahan**
- ❖ Testing & Commissioning of PMCC & MCC Panel at **B PCL – Coch in.**
- ❖ Testing & Commissioning of HT & LT Panels at **IOCL – Paradeep**
- ❖ Testing & Commissioning of HT & LT Panels at **Adani Mining Pvt Ltd (Parsa Kente colliery)**
- ❖ Testing & Commissioning of 132kV/33kV/6.6kV & 415V – HT & LT S/S at **B i n a – TATA Projects.**

➤ Testing & Commissioning of HT & LT Motors:

- ❖ Testing & Commissioning of 6.6 kV HT & 415 V LT Motors at **GAIL - Vi jayapur site**
- ❖ Testing & Commissioning of 6.6 kV HT & 415 V LT motors at **Adani Mining Pvt Ltd (Parsa Kente colliery)**
- ❖ Testing & commissioning of 6.6 kV HT Motors at **GMR – Warora**
- ❖ Testing & Commissioning of 0.415 kV LT motors at **IOCL - Parad ip.**

➤ Retrofitting Job:

- ❖ Retrofitting, Testing & Commissioning of 220 kV Line Protection System at **NTPC – Kayamkulam**
- ❖ Retrofitting, Testing & Commissioning of 400 kV Line Protection System at **UPPT CL – U n n a o.**
- ❖ Retrofitting, Testing & Commissioning of 66 kV Line Protection Relays @ **WBSEDCL – Jaldhaka Hydro power plant**
- ❖ Retrofitting, Testing & Commissioning of Generator Transformer & Distance Protection at **MESEB– Megal ay a**

DOMESTIC PROJECTS

➤ Training on Numerical Protection Relays:

- ❖ Training on ABB Make Numerical Protection & Control IED's at **PGCIL**
- ❖ Training on Micom & RED Relay at **KSA – EASE Consultants**

➤ Quality Assurance / FAT:

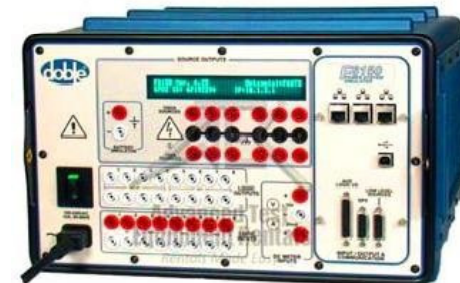
- ❖ Factory Acceptance Testing / Quality Assurance of Control & Relay Panels at **Kalwa & GOA– Siemens**
- ❖ Factory Acceptance Testing / Quality Assurance of Control & Relay Panels at **Mumbai – NR Electric**
- ❖ Factory Acceptance Testing / Quality Assurance of Control & Relay Panels at **Peenya –ABB**
- ❖ Factory Acceptance Testing / Quality Assurance of Control & Relay Panels at **Bengaluru – Sifang Automation**

➤ Metro Projects:

- ❖ Testing & Commissioning of 33kV Substation from **Kashmir gate to shahdra section & Shastri Nagar**
- ❖ Testing & Commissioning of 33kV / 415 V underground Substation switchgear panels from **India Gate to Delhi University.**
- ❖ Co-Ordination with **Sistema, France** for Coordination studies.
- ❖ Testing & Commissioning of 25kV Traction system at **Sarakib S/S - Mumbai.**
- ❖ Network design studies at **Indian Railways Corporation Nigam Limited - Mumbai**
- ❖ Testing & Commissioning of 25kV Traction System at **Guduvanchey Switching Substation - Chennai.**
- ❖ Testing & Commissioning of Traction System at **Jalandhar and Moga Substation.**
- ❖ Testing & Commissioning of 66/33kV **Relay Protection** System at **Bangalore.**

TEST KIT RESOURCES

Sr.No	TEST KIT RESOURCES DETAILS
1	Numerical Test Kit (Doble & Omicron)
2	Tan Delta Test Kit
3	DCRM Test Kit
4	Contact Resistance Meter (CRM)
5	Transformer Winding Test Kit(TRM)
6	Breaker Timer Test Kit (BT)
7	Micro Ohm Meter-100A
8	Knee Point Voltage Test Kit-5000V
9	Primary Injection Kit- 2000A / 2500A
10	Secondary Relay Test Kit (Single Phase)
11	Hipot Kit – 70kV &30kV in AC & DC
12	DC Power Pack
13	Vibration Meter



TEST KIT RESOURCES

Sr.No	TEST KIT RESOURCES DETAILS
14	AC/DC Digital Clamp Meter
15	Dew Point Meter / Infrared Thermometer
16	Tachometer
17	LCR Meter
18	Earth Tester
19	AC TO DC Convertor
20	Phase Indicator
21	Galvanometer
22	Auto Transformer (28A / 15A /10A)
23	Vibration Meter
24	Multimeter
25	Megger in Analog & Digital (up to 5 kV)



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