

TEST REPORT

Test Report Number

No.43/1/2016-HV/4508/RRISPAT/2185

Dated: 11/08/2016

Name & Address of the customer

M/s. R. R. Ispat (A Unit of GPIL) Electrical Engineering Division,

Plot No - 490/1, URLA Industrial Area, Raipur (C.G).

Ref: Nil

Dated: 01/08/2016

Name & Address of the Manufacturer

M/s. R. R. Ispat (A Unit of GPIL) Electrical Engineering Division,

Plot No - 490/1, URLA Industrial Area, Raipur (C.G).

Particulars of Samples tested

Condition of the sample on Receipt

New.

Туре

Outdoor.

Designation

11kV 1250A PCVCB.

Serial Number

RR/HT/11/16-17/01.

Number of samples tested

One.

Date(s) of Test(s)

01/08/2016 & 03/08/2016.

CPRI Sample Code Number

HV2016S0724.

Particulars of tests conducted

1) Lightning Impulse Voltage Test - Clause - 6.2.6.2.

2) Dry Power Frequency Voltage Withstand Test - Clause - 6.2.6.1. 3) Wet Power Frequency Voltage Withstand Test - Clause - 6.2.6.1.

Test in accordance with standard/

Specification.

Not Applicable.

Sampling Plan

Test Voltage for both closed & open condition.

As per IEC 62271-1/2011-08. •

Customer's requirement Deviations if any

Name of the witnessing persons

Customer's representatives Other than customer's representatives Shri. R.K. Trivedi - Sr. Manager, Electrical. None.

Test subcontracted with Address of the

None.

Documents constituting this report(in words)

Number of sheets

laboratory

Five.

Number of oscilogram/s

Thirty six (in five pages)

Number of graphs

Nil.

Number of photo/s Number of Test Circuit Diagrams

Nil.

Number of drawing

One {Drawing Nos. HAA100002 Rev.00}

(PRIYAS) Test Engineer

(U.R. SHESHAGIRI RAO)

Test In charge (JD)

(Dr.N.VASUDEV) Additional Director/HOD

HIGH VOLTAGE DIVISION P.B. No. 8066, SADASHIVANAGAR P.O. PROF.SIR C.V.RAMAN ROAD, BANGALORE - 560 080, INDIA. Tele-Fax: +91 (0) 80-23601917. Sheet 1 of 5



TEST REPORT

Test Report Number

No.43/1/2016-HV/4508/RRISPAT/2185

Dated: 11/08/2016

Name & Address of the customer

M/s. R. R. Ispat (A Unit of GPIL) Electrical Engineering Division,

Plot No - 490/1, URLA Industrial Area, Raipur (C.G).

Ref: Nil

Dated: 01/08/2016

Name & Address of the Manufacturer

M/s. R. R. Ispat (A Unit of GPIL) Electrical Engineering Division,

Plot No - 490/1, URLA Industrial Area, Raipur (C.G).

Particulars of Samples tested

Condition of the sample on Receipt

New.

Туре

Outdoor.

Designation

11kV 1250A PCVCB.

Serial Number

RR/HT/11/16-17/01.

Number of samples tested

One.

Date(s) of Test(s)

01/08/2016 & 03/08/2016.

CPRI Sample Code Number

HV2016S0724.

Particulars of tests conducted

1) Lightning Impulse Voltage Test - Clause - 6.2.6.2.

2) Dry Power Frequency Voltage Withstand Test - Clause - 6.2.6.1. 3) Wet Power Frequency Voltage Withstand Test - Clause - 6.2.6.1.

Test in accordance with standard/

Specification.

Not Applicable.

Sampling Plan

Test Voltage for both closed & open condition.

As per IEC 62271-1/2011-08. •

Customer's requirement Deviations if any

Name of the witnessing persons

Customer's representatives Other than customer's representatives Shri. R.K. Trivedi - Sr. Manager, Electrical. None.

Test subcontracted with Address of the

None.

Documents constituting this report(in words)

Number of sheets

laboratory

Five.

Number of oscilogram/s

Thirty six (in five pages)

Number of graphs

Nil.

Number of photo/s Number of Test Circuit Diagrams

Nil.

Number of drawing

One {Drawing Nos. HAA100002 Rev.00}

(PRIYAS) Test Engineer

(U.R. SHESHAGIRI RAO)

Test In charge (JD)

(Dr.N.VASUDEV) Additional Director/HOD

HIGH VOLTAGE DIVISION P.B. No. 8066, SADASHIVANAGAR P.O. PROF.SIR C.V.RAMAN ROAD, BANGALORE - 560 080, INDIA. Tele-Fax: +91 (0) 80-23601917. Sheet 1 of 5



TEST REPORT

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No.43/1/2016-HV/4508/RRISPAT/2185

Dated: 11/08/2016

Name & Address of the customer

M/s. R. R. Ispat (A Unit of GPIL) Electrical Engineering Division,

Plot No - 490/1, URLA Industrial Area, Raipur (C.G).

Ref: Nil

Dated: 01/08/2016

Name & Address of the Manufacturer

M/s. R. R. Ispat (A Unit of GPIL) Electrical Engineering Division,

Plot No - 490/1, URLA Industrial Area, Raipur (C.G).

Particulars of Samples tested

Condition of the sample on Receipt

New.

Туре

Outdoor.

Designation Serial Number

11kV 1250A PCVCB. RR/HT/11/16-17/01.

Number of samples tested

One.

Date(s) of Test(s)

01/08/2016 & 03/08/2016.

CPRI Sample Code Number

HV2016S0724.

Particulars of tests conducted

1) Lightning Impulse Voltage Test - Clause - 6.2.6.2.

2) Dry Power Frequency Voltage Withstand Test - Clause - 6.2.6.1. 3) Wet Power Frequency Voltage Withstand Test - Clause - 6.2.6.1.

As per IEC 62271-1/2011-08.

Test in accordance with standard/

Specification.

Sampling Plan

Not Applicable.

Customer's requirement

Test Voltage for both closed & open condition.

Deviations if any

Nil.

Name of the witnessing persons

Customer's representatives

Shri. R.K. Trivedi - Sr. Manager, Electrical.

Other than customer's representatives Test subcontracted with Address of the

None.

laboratory

None.

Documents constituting this report(in words)

Number of sheets

Five.

Number of oscilogram/s

Thirty six (in five pages)

Number of graphs

Nil.

Number of photo/s

Nil.

Number of Test Circuit Diagrams

Number of drawing

Nil.

One {Drawing Nos. HAA100002 Rev.00}

(U.R. SHESHAGIRI RAO)

(Dr.N.VASUDEV)

Sheet 1 of 5

(PRIYAS) Test Engineer

Test In charge (JD)

Additional Director/HOD



TEST REPORT

Test Report Number

No.43/1/2016-HV/4508/RRISPAT/2185

Dated: 11/08/2016

Name & Address of the customer

M/s. R. R. Ispat (A Unit of GPIL)

Electrical Engineering Division, Plot No - 490/1, URLA Industrial Area, Raipur (C.G).

Ref: Nil

Dated: 01/08/2016

Name & Address of the Manufacturer

M/s. R. R. Ispat (A Unit of GPIL) Electrical Engineering Division,

Plot No - 490/1, URLA Industrial Area, Raipur (C.G).

Particulars of Samples tested Condition of the sample on Receipt

Type

New. Outdoor.

Designation

Serial Number

11kV 1250A PCVCB.

RR/HT/11/16-17/01.

Number of samples tested

Date(s) of Test(s)

One.

01/08/2016 & 03/08/2016.

As per IEC 62271-1/2011-08. ·

CPRI Sample Code Number

HV2016S0724.

Particulars of tests conducted

1) Lightning Impulse Voltage Test - Clause - 6.2.6.2.

2) Dry Power Frequency Voltage Withstand Test - Clause - 6.2.6.1. 3) Wet Power Frequency Voltage Withstand Test - Clause - 6.2.6.1.

Test in accordance with standard/

Specification.

Sampling Plan

Not Applicable.

Customer's requirement

Test Voltage for both closed & open condition.

Deviations if any

Nil.

Name of the witnessing persons

Customer's representatives

Shri, R.K. Trivedi - Sr. Manager, Electrical.

Other than customer's representatives

Test subcontracted with Address of the

None.

laboratory

None.

Documents constituting this report(in words)

Number of sheets

Five.

Number of oscilogram/s

Thirty six (in five pages)

Number of graphs

Nil.

Number of photo/s

Nil.

Number of Test Circuit Diagrams

Nil.

Number of drawing

One {Drawing Nos. HAA100002 Rev.00}

AS) Test Engineer (U.R. SHESHAGIRI RAO) Test In charge (JD)

(Dr.N.VASUDEV)

Sheet 1 of 5

Additional Director/HOD

TEST REPORT



Test Report Number: 214EATDHV2016S0724

Dated: 05.08.2016

Name & Address of the

Customer

M/s. R.R. ISPAT, (A Unit of GPIL), ELECT.ENGG.Division,

490/1, Urla Industrial Area, Urla, Raipur - 492003 (C.G).

Name & Address of the

Manufacturer

M/s. R.R. ISPAT, (A Unit of GPIL), ELECT.ENGG.Division,

490/1, Urla Industrial Area, Urla, Raipur - 492003 (C.G).

Particulars of sample tested

Condition of the sample on Receipt

Description of test sample

Serial Number

Number of samples tested Date (s) of Test (s)

CPRI sample code no(s)

New

Outdoor Prototype 11 KV Out Door Vaccum Circuit Breaker.

NIL

One only

04.08.2016 & 05.08.2016 EATDHV2016S0724

Particulars of tests conducted

Test in accordance with Standard / specification IP 55 Category 2 Test,as per IEC-62271-200:2007 Clause 6.7.1 i.e., as per IEC 60529 Edition 2.2, 2013-08 Standard. Clause 13.4

and 14.2.5. Not applicable

Sampling Plan Customer's requirement

1. IP 55 Category 2 Test, as per IEC 62271-200:2007 Clause 6.7.1 i.e., IEC 60529 Edition 2.2, 2013-08 Standard.

Clause 13.4 and 14.2.5

2. Insulation Resistance Measurement at 500V DC and Power Frequency High Voltage withstand test at 5.0kV ac to be applied for one minute between all the terminals shorted together and the body of the "Prototype 11 KV Out Door Vaccum Circuit Breaker." Enclosure, to be conducted before

and after IP 55 Test.

Deviations if any -Nil-

Name of the witnessing persons

Customer's representative Other than customer's representatives

Test subcontracted with

address of the laboratory

Mr. Pradeep Yadav, G.M., E & I.

None

None

Documents constituting this report (In words)

Number of sheets Number of oscillograms Number of graphs Number of photos

Number of test circuit diagrams Number of drawing

Three Only -Nil-

-Nil--Nil-

-Nil-Three only.

Two only. Drawing No. HAA100002, Sheet 1 of 2 & Sheet 2 of 2

A.R RAVIKUMAR) **Head of Division**

(GUJJALA B.BALARAJU) Test Engineer

TEST REPORT



Test Report Number: 214EATDHV2016S0724

Dated: 05.08.2016

Name & Address of the

Customer

M/s. R.R. ISPAT, (A Unit of GPIL), ELECT.ENGG.Division,

490/1, Urla Industrial Area, Urla, Raipur - 492003 (C.G).

Name & Address of the

Manufacturer

M/s. R.R. ISPAT, (A Unit of GPIL), ELECT.ENGG.Division.

490/1, Urla Industrial Area, Urla, Raipur - 492003 (C.G).

Particulars of sample tested

Condition of the sample on Receipt

Type

Description of test sample

Serial Number

Number of samples tested

Date (s) of Test (s) CPRI sample code no(s) New Outdoor

Prototype 11 KV Out Door Vaccum Circuit Breaker.

NIL

One only

04.08.2016 & 05.08.2016 EATDHV2016S0724

Particulars of tests conducted

Test in accordance with Standard / specification

IP 55 Category 2 Test, as per IEC-62271-200:2007 Clause 6.7.1 i.e., as per IEC 60529 Edition 2.2, 2013-08 Standard. Clause 13.4

and 14.2.5.

Sampling Plan

Customer's requirement

Not applicable

1. IP 55 Category 2 Test, as per IEC 62271-200:2007 Clause 6.7.1 i.e.,IEC 60529 Edition 2.2, 2013-08 Standard.

Clause 13.4 and 14.2.5

2. Insulation Resistance Measurement at 500V DC and Power Frequency High Voltage withstand test at 5.0kV ac to be applied for one minute between all the terminals shorted together and the body of the "Prototype 11 KV Out Door Vaccum Circuit Breaker." Enclosure, to be conducted before

and after IP 55 Test.

Deviations if any

-Nil-

Name of the witnessing persons

Customer's representative

Other than customer's representatives

Test subcontracted with

address of the laboratory

Mr. Pradeep Yadav, G.M., E & I.

None

None

Documents constituting this report (In words)

Number of sheets

Three Only

Number of oscillograms

-Nil-

Number of graphs

-Nil-

Number of photos

-Nil-

Number of test circuit diagrams

-Nil-

Number of drawing

Three only.

Two only. Drawing No. HAA100002,

Sheet 1 of 2 & Sheet 2 of 2,

(GUJJALA B.B. Test Engineer

A.R RAVIKUMAR) **Head of Division**

TEST REPORT



Test Report Number

: HRTL/016/August/16-17

Dated: 16.08.2016

Na me & Address of the Customer

: M/s. R.R.Ispat (A Unit of GPIL) ELECT. ENGG. DIVISION

#490/1, Urla Industrial Area, Urla, Raipur-490003 (C.G)

Ref.: Customer request form, dated: 08.08.2016

Name & Address of the Manufacturer

: M/s. R.R.Ispat (A Unit of GPIL) ELECT. ENGG. DIVISION

#490/1, Urla Industrial Area, Urla, Raipur-490003 (C.G)

Particulars of sample tested

11KV, 1250A, PCVCB

Condition of the Sample on Receipt Type

New

Designation

Outdoor

Serial Number

Nil

RR/HT/11/16-17/001

Number of samples tested

One

Date(s) of Test(s)

08.08.2016 & 09.08.2016

CPRI sample code no

HV2016S0724

Particulars of tests conducted

1.Temperature rise test at 1250Amps

2.Measurement of Resistance

Test in accordance with

standard/specification

IEC 62271-100:2012

Sampling plan

Nil

Customers requirement

Deviations if any

NA Nil

Name of the witnessing persons

Customers representatives

Mr. Pradeep Yadav

Other than Customers representatives Test subcontracted with address of the

Nil

laboratory.

: NA

Documents constituting this report

(in words)

Number of Sheets

Five

Number of oscillograms Number of graphs

Nil Nil

Number of photos

Nil

Number of Test Circuit Diagrams

Nil Two 1) HAA100003, SHEET: 1 of 1, REV: 00

Number of Drawings

2) HAA100001, SHEET: 1 of 2, REV: 00

Test Engineer



(GANGA, S) Additional Director

TEST REPORT



Test Report Number

: HRTL/016/August/16-17

Dated: 16.08.2016

Na me & Address of the Customer

: M/s. R.R.Ispat (A Unit of GPIL) ELECT. ENGG. DIVISION

#490/1, Urla Industrial Area, Urla, Raipur-490003 (C.G)

Ref.: Customer request form, dated: 08.08.2016

Name & Address of the Manufacturer

: M/s. R.R.Ispat (A Unit of GPIL) ELECT. ENGG. DIVISION

#490/1, Urla Industrial Area, Urla, Raipur-490003 (C.G)

Particulars of sample tested

11KV, 1250A, PCVCB

Condition of the Sample on Receipt Type

New

Designation

Outdoor

Serial Number

Nil

RR/HT/11/16-17/001

Number of samples tested

One

Date(s) of Test(s)

08.08.2016 & 09.08.2016

CPRI sample code no

HV2016S0724

Particulars of tests conducted

1.Temperature rise test at 1250Amps

2.Measurement of Resistance

Test in accordance with

standard/specification

IEC 62271-100:2012

Sampling plan

Nil

Customers requirement

Deviations if any

NA Nil

Name of the witnessing persons

Customers representatives

Mr. Pradeep Yadav

Other than Customers representatives Test subcontracted with address of the

Nil

laboratory.

: NA

Documents constituting this report

(in words)

Number of Sheets

Five

Number of oscillograms Number of graphs

Nil Nil

Number of photos

Nil

Number of Test Circuit Diagrams

Nil Two 1) HAA100003, SHEET: 1 of 1, REV: 00

Number of Drawings

2) HAA100001, SHEET: 1 of 2, REV: 00

Test Engineer



(GANGA, S) Additional Director

TEST REPORT



Test Report Number : EVRC.EEL.MISC.023.1617 Dated: 10.10.2016

Name & Address of the Customer : M/s. R.R.ISPAT (A Unit of Godawari Power & ISPAT Ltd.),

490/1, Urla Industrial Area, Urla, Raipur – 492 003, Chhattisgarh.

Reference: Customer Request Form, Dated 31.08.2016

Name & Address of the : M/s. R.R.ISPAT (A Unit of Godawari Power & ISPAT Ltd.),

490/1, Urla Industrial Area, Urla, Raipur – 492 003, Chhattisgarh.

Particulars of the Sample Tested

Condition of Sample on Receipt : New

Type : SPCV11

Designation : 11 kV, 1250 A Outdoor porcelain clad vacuum circuit breaker

Serial Number : RR/HT/11/16-17/01

Number of samples Tested : One

Date(s) of Test(s) : 1.09.2016 & 02.09.2016

CPRI Sample Code No. : HV2016S0724

Particulars of Tests Conducted : a. Resonance Search Test and

b. Seismic Test

Test in accordance with Standard / : Nil

specification

Sampling Plan : Not applicable

Customer's requirement : Yes, Design spectrum as per IS 1893 (Part 1) – 2002, Zone V

(Soft soil site condition)

Deviation if any :

Name of the Witnessing Persons

Customer's representatives : Mr. R.K. Trivedi

Other than customer's representatives : Nil
Test subcontracted with address of : None

the laboratory

Manufacturer

Documents constituting this Report

Number of Sheets (Total) : Eighteen
Number of Oscillograms : One
Number of Graphs : Twenty three

Number of Photos/Figure : Two
Number of Test Circuit Diagrams : Nil
Number of Drawings : Two

(R. PANNEER SELVAM) TEST ENGINEER



(Dr. R. RAMESH BABU) DIRECTOR

TEST REPORT



Test Report Number : EVRC.EEL.MISC.023.1617 Dated: 10.10.2016

Name & Address of the Customer : M/s. R.R.ISPAT (A Unit of Godawari Power & ISPAT Ltd.),

490/1, Urla Industrial Area, Urla, Raipur – 492 003, Chhattisgarh.

Reference: Customer Request Form, Dated 31.08.2016

Name & Address of the : M/s. R.R.ISPAT (A Unit of Godawari Power & ISPAT Ltd.),

490/1, Urla Industrial Area, Urla, Raipur – 492 003, Chhattisgarh.

Particulars of the Sample Tested

Condition of Sample on Receipt : New

Type : SPCV11

Designation : 11 kV, 1250 A Outdoor porcelain clad vacuum circuit breaker

Serial Number : RR/HT/11/16-17/01

Number of samples Tested : One

Date(s) of Test(s) : 1.09.2016 & 02.09.2016

CPRI Sample Code No. : HV2016S0724

Particulars of Tests Conducted : a. Resonance Search Test and

b. Seismic Test

Test in accordance with Standard / : Nil

specification

Sampling Plan : Not applicable

Customer's requirement : Yes, Design spectrum as per IS 1893 (Part 1) – 2002, Zone V

(Soft soil site condition)

Deviation if any :

Name of the Witnessing Persons

Customer's representatives : Mr. R.K. Trivedi

Other than customer's representatives : Nil
Test subcontracted with address of : None

the laboratory

Manufacturer

Documents constituting this Report

Number of Sheets (Total) : Eighteen
Number of Oscillograms : One
Number of Graphs : Twenty three

Number of Photos/Figure : Two
Number of Test Circuit Diagrams : Nil
Number of Drawings : Two

(R. PANNEER SELVAM) TEST ENGINEER



(Dr. R. RAMESH BABU) DIRECTOR

TEST REPORT



Test Report Number : EVRC.EEL.MISC.023.1617 Dated: 10.10.2016

Name & Address of the Customer : M/s. R.R.ISPAT (A Unit of Godawari Power & ISPAT Ltd.),

490/1, Urla Industrial Area, Urla, Raipur – 492 003, Chhattisgarh.

Reference: Customer Request Form, Dated 31.08.2016

Name & Address of the : M/s. R.R.ISPAT (A Unit of Godawari Power & ISPAT Ltd.),

490/1, Urla Industrial Area, Urla, Raipur – 492 003, Chhattisgarh.

Particulars of the Sample Tested

Condition of Sample on Receipt : New

Type : SPCV11

Designation : 11 kV, 1250 A Outdoor porcelain clad vacuum circuit breaker

Serial Number : RR/HT/11/16-17/01

Number of samples Tested : One

Date(s) of Test(s) : 1.09.2016 & 02.09.2016

CPRI Sample Code No. : HV2016S0724

Particulars of Tests Conducted : a. Resonance Search Test and

b. Seismic Test

Test in accordance with Standard / : Nil

specification

Sampling Plan : Not applicable

Customer's requirement : Yes, Design spectrum as per IS 1893 (Part 1) – 2002, Zone V

(Soft soil site condition)

Deviation if any :

Name of the Witnessing Persons

Customer's representatives : Mr. R.K. Trivedi

Other than customer's representatives : Nil
Test subcontracted with address of : None

the laboratory

Manufacturer

Documents constituting this Report

Number of Sheets (Total) : Eighteen
Number of Oscillograms : One
Number of Graphs : Twenty three

Number of Photos/Figure : Two
Number of Test Circuit Diagrams : Nil
Number of Drawings : Two

(R. PANNEER SELVAM) TEST ENGINEER



(Dr. R. RAMESH BABU) DIRECTOR



TEST REPORT

Test Report Number

SC16426A

Dated: 20th September, 2016

Name & Address of the Customer

M/s. R. R. Ispat,

(A Unit of Godawari Power & Ispat Ltd.), 490/1, URLA Industrial Area, Raipur - 493 221,

Chhattisgarh, India.

Name & Address of the Manufacturer

M/s. R. R. Ispat, (A Unit of Godawari Power & Ispat Ltd.),

490/1, URLA Industrial Area, Raipur - 493 221,

Chhattisgarh, India.

Particulars of sample tested

High-voltage switchgear and controlgear -

11kV 1250A Vacuum Circuit Breaker

Condition of the sample on Receipt

Good

Туре Designation Serial Number Outdoor SPCV11

Number of samples tested

RR/HT/11/16-17/01

Date (s) of test (s) CPRI sample code no(s). One 10th , 11th August & 7th September, 2016

HV2016S0724

Particulars of tests conducted

Test in accordance with

Short-time withstand current and peak withstand current

Standard / specification

Sub-clause 6.6 of IEC 62271-100:2008-04 with Amendment 1:2012-09

Not applicable

Sampling plan Customer's requirement Deviations if any

25 kA rms for 3.0 s & 62.5 kA peak on main circuit

Nil

Name of the witnessing persons

Customer's representative

Mr. R.K. Trivedi

Other than customer's representatives None

Test subcontracted with address of the laboratory None

Four

One

Three

Nil

Documents constituting this report (In words)

Number of sheets Number of oscillograms Number of graphs Number of photos Number of test circuit diagrams

Number of drawings

One Ninteen

Jewell (H.S.Lokeshappa) **Test Engineer**

(Swarai Kumar Das) Joint Director

TEST REPORT



Test Report Number

S2150275

Date:

Name & address of the Customer

M/s R.R.Ispat (A unit of GPIL) Elec.Engg. Division

0 6 APR 2015

Plot No.490/1, Urla Industrial Complex

Raipur (CG)

Name & address of the Manufacturer

M/s R.R.Ispat (A unit of GPIL)

Elec.Engg. Division

Plot No.490/1, Urla Industrial Complex

Raipur (CG)

Particulars of sample tested

415V, 1000A, 50Hz, 3 Phase 4 wire PMCC Panel

Condition of sample on Receipt Туре

Nil Designation Nil Serial number Nil Number of samples tested

One Date(s) of Test(s) 11th March 2015 CPRI sample code no. STDSST215S0286

Particulars of tests conducted Test in accordance with Standard/specification

Verification of the short circuit withstand strength As per clause 8.2.3 of IS: 8623 (Part 1)-1993

Sampling plan Customer's requirement Deviations if any

Not applicable Nil Nil

Name of the Witnessing persons

Customer's representative Other than Customer's representatives

Shri R.K.Trivedi Nil

Test subcontracted with address of the laboratory None

Documents constituting this report (in words)

Number of sheets Number of oscillograms Two Number of graphs Nil Number of photos One Number of Test circuit diagrams Two Number of drawings Three

(SAUMITRA PATHAK) TEST ENGINEER



(ANUPAM AWASTHI) JOINT DIRECTOR

TEST REPORT



0 6 APR 2015

Test Report Number

S2150275

Date:

Name & address

M/s R.R.Ispat (A unit of GPIL)

of the Customer

Elec.Engg. Division

Plot No.490/1, Urla Industrial Complex

Raipur (CG)

Name & address of the Manufacturer

M/s R.R.Ispat (A unit of GPIL)

Elec.Engg. Division

Plot No.490/1, Urla Industrial Complex

Raipur (CG)

Particulars of sample tested

415V, 1000A, 50Hz, 3 Phase 4 wire PMCC Panel

Condition of sample on Receipt

New Nil

Туре Designation Nil Serial number

Nil Number of samples tested

Date(s) of Test(s) 11th March 2015 STDSST215S0286 CPRI sample code no.

Particulars of tests conducted

Verification of the short circuit withstand strength Test in accordance with As per clause 8.2.3 of IS: 8623 (Part 1)-1993

Standard/specification

Sampling plan Not applicable

Customer's requirement Nil Deviations if any Nil

Name of the Witnessing persons

Customer's representative Shri R.K.Trivedi

Other than Customer's representatives Nil Test subcontracted with None

address of the laboratory

Documents constituting this report (in words)

Number of sheets Number of oscillograms Two Number of graphs Nil Number of photos One Number of Test circuit diagrams

Number of drawings

Two Three

(SAUMITRA PATHAK) TEST ENGINEER



(ANUPAM AWASTHI) JOINT DIRECTOR

TEST REPORT



Test Report Number

S2150275

Date:

Name & address of the Customer

M/s R.R.Ispat (A unit of GPIL)

Elec.Engg. Division Plot No.490/1, Urla Industrial Complex

Raipur (CG)

0 6 APR 2015

Name & address of the Manufacturer

M/s R.R.Ispat (A unit of GPIL)

Elec.Engg. Division

Plot No.490/1, Urla Industrial Complex

Raipur (CG)

Particulars of sample tested

415V, 1000A, 50Hz, 3 Phase 4 wire PMCC Panel

Condition of sample on Receipt

New Nil Nil

Designation Serial number Number of samples tested

Nil

Date(s) of Test(s) CPRI sample code no.

Type

11th March 2015 STDSST215S0286

Particulars of tests conducted

Test in accordance with

Verification of the short circuit withstand strength As per clause 8.2.3 of IS: 8623 (Part 1)-1993

Standard/specification

Sampling plan

Not applicable

Customer's requirement

Nil Nil

Deviations if any

Name of the Witnessing persons

Customer's representative

Shri R.K.Trivedi

Other than Customer's representatives Test subcontracted with

Nil

address of the laboratory

None

Documents constituting this report (in words)

Number of sheets Number of oscillograms Number of graphs

Two Nil

Number of photos

One Two

Number of Test circuit diagrams Number of drawings

Three

(SAUMITRA PATHAK) TEST ENGINEER



(ANUPAM AWASTHI) JOINT DIRECTOR

TEST REPORT



Test Report No.

2015/STL/353

Dated: 7

Name and Address of the Customer

M/s R.R. Ispat (A Unit of GPIL),

Plot No. 490/1, Urla Industrial Area,

Raipur (C.G.)

Name and Address of the Manufacturer

M/s R.R. Ispat (A Unit of GPIL),

Plot No. 490/1, Urla Industrial Area,

Raipur (C.G.)

Particulars of Sample(s) Tested

415 V, 1000A, PMCC Panel

Condition of sample(s) on receipt

New NIL

Type Designation

NIL

Serial Number(s)

RRI/14-15039

Number of Sample(s) Tested

One STDSST215S0286

CPRI sample code number(s) Sealing of the sample if any

NIL

Particulars of test(s) conducted

Verification of Clearance & Creepage Distances

Date(s) of Test(s)

05/03/2015

Test(s) in accordance with Standard/specification

Cl. 8.2.5 of IS: 8623 (Part-1), 1993

Sampling Plan

NIL

Customer's Requirement

Minimum clearance Phase to Phase: 5.5mm,

Phase to Neutral: 5.0mm and Minimum creepage distance: 6.3mm declared by the customer for Pollution degree 3 and

Material group Illa

Deviations, if any

Name of the witnessing persons

Customer's Representatives

Mr. R.K. Trivedi, Sr. Manager (Elect)

Other than Customer's Representatives

Test subcontracted with name and address of

NONE

the laboratory

Documents constituting this report (in words)

No. of Sheet(s)

FIVE NIL

No. of Oscillogram(s) No. of Graph(s)

NIL

No. of Photograph(s)

NIL NIL

No .of Test Circuit Diagram(s) No. of drawing(s)

THREE

(BHAGIRATH SHARMA) **TEST ENGINEER**

JOINT DIRECTOR

TEST REPORT



Test Report No.

2015/STL/353

Dated: 7

Name and Address of the Customer

M/s R.R. Ispat (A Unit of GPIL),

Plot No. 490/1, Urla Industrial Area,

Raipur (C.G.)

Name and Address of the Manufacturer

M/s R.R. Ispat (A Unit of GPIL),

Plot No. 490/1, Urla Industrial Area,

Raipur (C.G.)

Particulars of Sample(s) Tested

415 V, 1000A, PMCC Panel

Condition of sample(s) on receipt

New NII

Type Designation

NIL

Serial Number(s)

RRI/14-15039

Number of Sample(s) Tested

One

CPRI sample code number(s)

STDSST215S0286

Sealing of the sample if any

NIL

Particulars of test(s) conducted

Verification of Clearance & Creepage Distances

Date(s) of Test(s) Test(s) in accordance with 05/03/2015

Standard/specification

Cl. 8.2.5 of IS: 8623 (Part-1), 1993

Sampling Plan

NIL

Customer's Requirement

Minimum clearance Phase to Phase: 5.5mm,

Phase to Neutral: 5.0mm and Minimum creepage distance: 6.3mm declared by the customer for Pollution degree 3 and

Material group Illa

Deviations, if any

Customer's Representatives

Mr. R.K. Trivedi, Sr. Manager (Elect)

Other than Customer's Representatives

Test subcontracted with name and address of

NONE

Name of the witnessing persons

the laboratory

Documents constituting this report (in words)

FIVE

No. of Sheet(s) No. of Oscillogram(s)

NIL

No. of Graph(s)

NIL

No. of Photograph(s)

NIL NIL

No .of Test Circuit Diagram(s) No. of drawing(s)

THREE

(BHAGIRATH SHARMA)

TEST ENGINEER

JOINT DIRECTOR

TEST REPORT



Dated: 2 1 SEP 2015

Test Report No.

2015/STL/352

Name and Address of the Customer

M/s R.R. Ispat (A Unit of GPIL), Plot No. 490/1, Urla Industrial Area,

Raipur (C.G.)

Name and Address of the Manufacturer

M/s R.R. Ispat (A Unit of GPIL), Plot No. 490/1, Urla Industrial Area,

Raipur (C.G.)

Particulars of Sample(s) Tested

415 V, 400A, Electrical Panel

Condition of sample(s) on receipt

New

Type

NIL

Designation

NIL

Serial Number(s)

RRI/14-15045

Number of Sample(s) Tested

One STDSST215S0287

CPRI sample code number(s) Sealing of the sample if any

NIL

Particulars of test(s) conducted

Verification of Dielectric Properties

Date(s) of Test(s)

04/03/2015

Test(s) in accordance with Standard/specification

Cl. 8.2.2 of IS: 8623 (Part-1), 1993.

Sampling Plan

NIL NIL

Customer's Requirement Deviations, if any

NIL

Name of the witnessing persons

Customer's Representatives

Mr. R.K. Trivedi, Sr. Manager (Elect)

Other than Customer's Representatives

Test subcontracted with name and address of

NONE

the laboratory

Documents constituting this report (in words)

FIVE

No. of Sheet(s) No. of Oscillogram(s)

No. of Graph(s)

NIL NIL

No. of Photograph(s)

NIL NIL

No .of Test Circuit Diagram(s) No. of drawing(s)

ONE

(BHAGIRATH SHARMA) TEST ENGINEER

TEST REPORT



Dated: 2 1 SEP 2015

Test Report No.

2015/STL/352

Name and Address of the Customer

M/s R.R. Ispat (A Unit of GPIL), Plot No. 490/1, Urla Industrial Area,

Raipur (C.G.)

Name and Address of the Manufacturer

M/s R.R. Ispat (A Unit of GPIL), Plot No. 490/1, Urla Industrial Area,

Raipur (C.G.)

Particulars of Sample(s) Tested

415 V, 400A, Electrical Panel

Condition of sample(s) on receipt

New

Type

NIL

Designation

NIL

Serial Number(s)

RRI/14-15045

Number of Sample(s) Tested

One STDSST215S0287

CPRI sample code number(s) Sealing of the sample if any

NIL

Particulars of test(s) conducted

Verification of Dielectric Properties

Date(s) of Test(s)

04/03/2015

Test(s) in accordance with Standard/specification

Cl. 8.2.2 of IS: 8623 (Part-1), 1993.

Sampling Plan

NIL NIL

Customer's Requirement Deviations, if any

NIL

Name of the witnessing persons

Customer's Representatives

Mr. R.K. Trivedi, Sr. Manager (Elect)

Other than Customer's Representatives

Test subcontracted with name and address of

NONE

the laboratory

Documents constituting this report (in words)

No. of Sheet(s) No. of Oscillogram(s) FIVE NIL

No. of Graph(s) No. of Photograph(s) NIL NIL

No .of Test Circuit Diagram(s)

NIL

No. of drawing(s)

ONE

(BHAGIRATH SHARMA) TEST ENGINEER

TEST REPORT



Dated:

Test Report No.

2015/STL/352

M/s R.R. Ispat (A Unit of GPIL), Plot No. 490/1, Urla Industrial Area,

Raipur (C.G.)

Name and Address of the Manufacturer

Name and Address of the Customer

M/s R.R. Ispat (A Unit of GPIL), Plot No. 490/1, Urla Industrial Area,

Raipur (C.G.)

Particulars of Sample(s) Tested

415 V, 400A, Electrical Panel

Condition of sample(s) on receipt

New

Type

Designation

NIL NIL

Serial Number(s)

RRI/14-15045

Number of Sample(s) Tested

One

CPRI sample code number(s) Sealing of the sample if any

STDSST215S0287 NIL

Particulars of test(s) conducted

Verification of Dielectric Properties

Date(s) of Test(s)

04/03/2015

Test(s) in accordance with

Cl. 8.2.2 of IS: 8623 (Part-1), 1993.

Standard/specification Sampling Plan

NIL

Customer's Requirement

NIL

Deviations, if any

NIL

Name of the witnessing persons

Customer's Representatives

Mr. R.K. Trivedi, Sr. Manager (Elect)

Other than Customer's Representatives

Test subcontracted with name and address of

NONE

the laboratory

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) No .of Test Circuit Diagram(s)

NIL NIL

No. of drawing(s)

ONE

(BHAGIRATH SHARMA) TEST ENGINEER

(Member of STL)

TEST REPORT



Test Report No.

2015/STL/351

Dated: 2 1 SEP 2015

Name and Address of the Customer

M/s R.R. Ispat (A Unit of GPIL), Plot No. 490/1, Urla Industrial Area,

Raipur (C.G.)

Name and Address of the Manufacturer

M/s R.R. Ispat (A Unit of GPIL), Plot No. 490/1, Urla Industrial Area,

Raipur (C.G.)

Particulars of Sample(s) Tested

415V AC, 400A, Electrical Panel

Condition of sample(s) on receipt Type

: New : NIL

Designation
Serial Number(s)

NIL RRI/14-15045

Number of Sample(s) Tested

One

CPRI sample code number(s)

STDSST215S0287

Sealing of the sample, if any :

Particulars of test(s) conducted

Degree of Protection IP-56 (Category – 2)

Date(s) of Test(s)

03/03/2015 & 04/03/2015

Test(s) in accordance with

Cl. 8.2.7 of IS: 8623 (Part-1), 1993

Standard/specification

NIL

Sampling Plan
Customer's Requirement

NIL

Deviations, if any

NIL

Name of the witnessing persons

Customer's Representatives

Mr. R.K. Trivedi, Sr. Manager (Elect)

Other than Customer's Representatives

NIL

Test subcontracted with name and address of

NONE

the laboratory

Documents constituting this report (in words)

No. of Sheet(s)

FIVE

No. of Oscillogram(s) No. of Graph(s) NIL NIL

No. of Photograph(s)

NIL NIL

No .of Test Circuit Diagram(s) No. of drawing(s)

NIL ONE

(BHAGIRATH SHARM)

TEST ENGINEER

GPRI

(Member of STL)

TEST REPORT



Test Report No.

2015/STL/351

Dated: 2 1 SEP 2015

Name and Address of the Customer

M/s R.R. Ispat (A Unit of GPIL), Plot No. 490/1, Urla Industrial Area,

Raipur (C.G.)

Name and Address of the Manufacturer

M/s R.R. Ispat (A Unit of GPIL), Plot No. 490/1, Urla Industrial Area,

Raipur (C.G.)

Particulars of Sample(s) Tested

415V AC, 400A, Electrical Panel

Condition of sample(s) on receipt Type

: New : NIL

Designation
Serial Number(s)

NIL RRI/14-15045

Number of Sample(s) Tested

One

CPRI sample code number(s)

STDSST215S0287

Sealing of the sample, if any :

Particulars of test(s) conducted

Degree of Protection IP-56 (Category – 2)

Date(s) of Test(s)

Deviations, if any

03/03/2015 & 04/03/2015

Test(s) in accordance with

Cl. 8.2.7 of IS: 8623 (Part-1), 1993

Standard/specification

NIL

Sampling Plan
Customer's Requirement

NIL NIL

Name of the witnessing persons

Customer's Representatives

Mr. R.K. Trivedi, Sr. Manager (Elect)

Other than Customer's Representatives

NIL

Test subcontracted with name and address of

NONE

the laboratory

Documents constituting this report (in words)

No. of Sheet(s)

FIVE

No. of Oscillogram(s) No. of Graph(s) NIL NIL

No. of Photograph(s)

NIL NIL

No .of Test Circuit Diagram(s) No. of drawing(s)

NIL ONE

(BHAGIRATH SHARM)

TEST ENGINEER

GPRIS



Certificate of Appointment

RR Ispat (A Unit Of Godawari Power And Ispat Limited)

is a appointed Franchises up to 15th Sep. 2017 for the manufacture and sale of LV Switchgear _ 'Ti' design, a fully type tested assembly in accordance with IEC 61439 of low voltage assemblies as per L&T's manufacturing guidelines and using L&T supplied components

Total -

Raj Menghani General Manager - Elecrical Systems and Equipment L&T Electrical & Automation

arsen & Toubro Limited, L&T Electrical & Automation, L&T Business Park TC-2, Tower B - 7th Floor ,L&T Gate No. 5, Saki-Vihar Road, Mumbai - 400 072