

SHINDE ENGINEERING SERVICES

INSP OFFICE -SHINDE ENGINEERING SERVICES
54, NARAYAN NIWAS,
KANSAL SECTION, AMBERNATH, [NEAR MUMBAI]
DIST. THANE, MAHARASHTRA-INDIA.
CELL :SHINDE- 098696 21247, 08888 23546
MML RAGTAH - 098911 82323 , DELHI
shinde_rja@yahoo.com, tdshinde@gmail.com

Client -Paras Project Ventures [I] P. Ltd
R. No.: 214, JMD Pacific Square,
Opp.: The Galaxy Hotel
Sector - 15, Part - II, Gurgaon - 122001
(Haryana) India (Exit-8 on NH-8 to 32 Mile Stone)
Phone - +91-124 4982600 (30 lines)
E-mail: animesh.kumar@parasdelhi.com

PRE-SHIPMENT INSPECTION RELEASE NOTE & DISPATCH CERTIFICATE P-01/02

CLIENT: PARAS PROJECTS VENTURES I P LTD ,DEHLI	VENDOR: HIC INTERNATIONAL CO INC , DELHI
PROJECT ABJ ,NIGERIA AFRICA	MET --: ANIL GUPTA ,PRESIDENT
INDENT: PPVIPL/PO/2016-17 / PARAS /351 Dated 6.04.2016	ITEM:-- UNIVERCIAL MAKE ELECTRICAL MAT VISIT - MML RAGTAH - 09.05.2016
Ref: AFD MCC /16/IN /PARAS/002635 - DT 03.01.16	REPORT -MMLR -TDS 16111 R 03 DT 11.05.2016
CONTRACT DELIVERY: DUE	EXPECTED DELIVERY - READY FOR DISPATCH
SPECS - IEC 61111 / IS 15652 /5424	DRG: PO SIZES

SR.NO.	DESCRIPTION	REMARKS
Visit	Mr. MML Ragtah ,SES , Sr. Inspection Engineer ,North zone , residing at Delhi visited 09.05 HIC International Co Inc. Delhi, for final Insp. of Electrical Mats & met Mr. Anil Gupta ,President & Mr Sajjan Singh ,QC Executive	Visited on 09.05.16
Item	-- UNIVERCIAL MAKE ELECTRICAL MAT-size 1Mtr. x 20 Mtrs. x 3 mm Thk (05 Nos.) , AS PER PO SPECS.	Inspected
QAP	Available , 100 % stage inspection by vendor & final inspection by Paras /TPIA	Referred
Drgs.	No drawing. Sizes as per PO.	Referred
Status	All mats are ready on 05.05 .2016, inspected on 09.05.2016	Inspected
Insp	Joint inspected , as per HIC QAP + following parameters on 09.05.16	Accepted
01	Visual - QAP- S No. 01, cracks, pinholes color , workmanship, finishing , marking - free from defects	Accepted
02	Dimension check - QAP- S. No. 02, 03 & Length, Width & Thickness for all mats .Refer reports	Accepted
03	Material check test / witness tests -QAP s no 04,05,07,08 , reports e mailed	Accepted
04	Internal insp / test report - Witness ed & Reviewed s nos as per QAP 06, 09,10,13 - refer reports attached	Accepted
05	Measuring instrument calibration -Verified and found in order, Status attached.	Accepted
06	Photos -Total -14 photos attach	Accepted
07	Minutes Of Meeting [MOM dated 09.05.2016] - Attached	Accepted
08	Deviation - if any. - Nil	Accepted
09	SES Dispatch Certificate [IRN DC] - PI treat 16111 rev 03 ,as SES IRN DC	Issued
10	Paras Delhi dispatch instruction - Paras can now issue instructiofr	Paras

For HIC INTERNATIONAL CO INC

Refer JIR , TCs / Photos

MR. ANIL GUPTA ,PRECIDENT

Review &



For Shinde Engg Services

MML Ragtah ,Delhi 09. 05.16

T D Shinde ,Mumbai 11.05.16

6 health S.O. SHINDE.
MUMBAI, 11/05/2016

Photos taken during Inspection: -



Five Mats



Visual & Dimensional Inspection



Marking on Mats



Test Piece Cutting



Low Temperature Test



Low Temperature Test - Observations

Tensile Testing



Flammability Test



Current Leakage Test at High Voltage



HIC INTERNATIONAL CO INC
D-171, Shastri Road, PO: New Rajinder Nagar
NEW DELHI 110060 (India)
TIN: 07770176443 Ph: 011-2274 5120
www.universaldelhi.org

M.O.M

Date: 09.05.2016

Ref: P.O. No.: PPVIPL/PO/2016-17/Paras/351 Dated :- 06.04.2016

Date of Inspection: - 09.05.2016

The following tests were conducted on randomly selected samples

1. Visual
2. Shape
3. Dimension
4. Thickness & width
5. Workmanship and finish
6. Marking
7. Tensile strength & elongation at break.
8. Di-electric strength.
9. Low Temperature Resistance
10. Flame Retardance
11. Leakage Current

And above test results were found to be meeting the specifications as per IS:15652-2006


For HIC International Co. Inc.


Sajjan Singh

(Q.C.I)


Authorised Signatory

(For HIC International Co. Inc)


MML RAGTAH
Senior Engineer
SES

Date:-09/05/2016

Joint Inspection Test Report



HIC INTERNATIONAL CO INC
 C-1, Durgam Road, P.O. New Pimpri, Pimpri Nagar
 Maharashtra - 411007
 Tel: 02022116343 Ph: 02022116343
 www.hicindia.com

P.O. No: PPVIPL/PO/2016-17/Paras/351 Dated 06.04.2016

Dimension:- 1 Mtrs (W) X 20 Mtrs (L), Color:-Black , Thickness- 3.0 mm

Date of testing-09/05/2016

Specification:- IS: 15652-2006 with latest amendment and QAP

Particulars	Requirement	Observation
Shape	Rolls/Flats	Flats
Width	1000 mm \pm 20mm	1008 to 1012 mm
Length	20000 mm \pm 20mm	20010 to 20016 mm
Thickness	3.00 mm \pm 10%	2.90 to 3.10 mm
Marking & Visual	Class, Lot No. , Roll No., Trade name, Date Of Manufacturing	HIC Insulating mat ClassC, Lot No.HIC1941, MFD12/04/2016, CategoryIII
Tensile Strength	Min.15.0(in N/mm sq.)	16.34 N/mm ²
Elongation at break	Min. 250%	300 %
Leakage Current	Maximum 10 (milli amp.)	0.5
ac-Dielectric strength	Min 65 (in KV)	70 KV
Flame Retardance	Fire should extinguish within 5 seconds after removal of flame.	Extinguished within 5 seconds.
Low Temperature Resistance	There are no tear, break or the cracks show of the end of the test when 100N force applied on sample.	No Tear, Break or the cracks were found.

Sajjan Singh

Q.C.I.

MML RAGTAH
 Senior Engineer
 SES

Date:-09/05/2016



TEST REPORT OF INSULATING MAT FOR ELECTRICAL PURPOSES
AS PER IS:15652-2006

PARTICULAR OF SAMPLE :-

NATURE OF SAMPLE	Insulating Mats for Electrical purposes
DECLARED VALUE	Working voltage - 33 KV Thickness - 3.0 mm Class - C
BATCH NO	HIC 1941
MFG. DATE	12/04/2016

PHYSICAL REQUIRMENT AT VISUAL EXAMINATION:

PARTICULARS	SPECIFIED REQUIRMENTS	RESULT
1. Colour	Colour shall be as agreed to between the purchaser & the supplier. However no colour with metallic derivatives shall be used.	Black
2. Material and Manufacture	The mats shall be made of the Elastomer; free from insertions leading to deterioration of insulation properties.	Elastomer free from any insertions leading to deterioration properties.
3. Lower surface of mat	Lower surface shall be plain or could be finished slip resistant without affecting adversely the di-electrical properties of mat.	Finished slip resistant
4. Upper surface of mat	Upper surface shall be small aberration. (Rough surface without edge)	Rough surface without edge.
5. Workmanship and finish	The material shall be free from blister, pinholes cracks.	Satisfactory

DIMENSIONAL PROPERTIES:

PARTICULARS	REQUIRED VALUE	RESULT
1. Length	3 Mtr. \pm 20 mm	3.014 mtr
2. Width	1 Mtr. \pm 20 mm	1.007 mtr
3. Thickness	3.0 mm \pm 10 %	3.04 mm

PHYSICAL PROPERTIES :-

PARTICULARS OF TEST	REQUIRED VALUE	RESULT
1. TENSILE STRENGTH	15 N/mm ² Min.	17.36 N/mm ²
2. ELONGATION AT BREAK	250% Min.	290 %
3. ACCELERATED AGEING TEST@ 70 ^o \pm 1 ^o C FOR 168 Hrs.		
3a. % CHANGE IN TENSILE STRENGTH FROM ITS CORRESPONDING VALUE	-25%	-10.13 %
3b. % CHANGE IN ELONGATION AT BREAK FROM ITS CORRESPONDING VALUE	-25%	-10.18 %

Contd.

Reviewed
[Signature]
08/10/16



PARTICULARS OF TEST	REQUIRED VALUE	RESULT
4. Acid / Alkalies & oil resistance test @ room temp. For 48 hrs. NaOH, HSD & Transformer oil.		
Acid		
4a. % CHANGE IN TENSILE STRENGTH FROM ITS CORRESPONDING VALUE	-20 %	-11.44 %
4b. % CHANGE IN ELONGATION AT BREAK FROM ITS CORRESPONDING VALUE	-20 %	-11.21 %
NaOH		
4c. % CHANGE IN TENSILE STRENGTH FROM ITS CORRESPONDING VALUE	-20 %	-10.93 %
4d. % CHANGE IN ELONGATION AT BREAK FROM ITS CORRESPONDING VALUE	-20 %	-11.10 %
Transformer oil		
4e. % CHANGE IN TENSILE STRENGTH FROM ITS CORRESPONDING VALUE	-20 %	-11.32 %
4f. % CHANGE IN ELONGATION AT BREAK FROM ITS CORRESPONDING VALUE	-20 %	-11.19 %
HSD		
4g. % CHANGE IN TENSILE STRENGTH FROM ITS CORRESPONDING VALUE	-20 %	-11.09 %
4h. % CHANGE IN ELONGATION AT BREAK FROM ITS CORRESPONDING VALUE	-20 %	-11.76 %

THERMAL PROPERTIES:-		
PARTICULARS	REQUIRED VALUE	RESULT
1. Low temp. Resistance @ -10 ± 3°C for 1 hrs. *	There are no tear, break or the cracks show of the end of the test when 100 N Force applied on Sample. Sample also conform ac proof voltage test	Passed
2. Flame Retardance Test	Fire should extinguish within 5 seconds after removal of flame.	Passed

ELECTRICAL PROPERTIES		
PARTICULARS	REQUIRED VALUE	RESULT
1. Insulation resistance with water	Insulation material with water for all classes of mat shall be min. 100000 M Ω, when measured with 5000 V Megger.	2.8 x 10 ⁵ M Ω (Passed)
2. AC di-electric strength test	65 kV min.	70 kV (Passed)
3. Leakage current	10 mA max.	0.6 mA (Passed)
4. AC Proof voltage	Shall with stand 36 kV for 3 minute.	Passed

Spady

Q.C.I. (Sign.)

*Reviewed
 J. K. Singh
 08/10/16*



CALIBRATION CERTIFICATE

S.NO.	DESCRIPTION	MAKE	CALIBRATION CERTIFICATE NO.	CALIBRATION DATE	DUE ON
01.	TENSILE TESTING MACHINE (Digital)	PROLIFIC	01081504	01.08.2015	01.08.2016
02.	INSULATION TESTER	RECTIFIERS & ELEC	GTCL/GE/15-16/65480	17.07.2015	16.07.2016
03.	STOP WATCH	EMKAY	01081510	01.08.2015	01.08.2016
04.	TEMP CONTROLLER WITH SENSOR DEEP FREEZER	SURYA	01081503	01.08.2015	01.08.2016
05.	HOT AIR OVEN	PROLIFIC	01081506	01.08.2015	01.08.2016
06.	HOT AIR OVEN	SURYA	10111501	01.08.2015	01.08.2016
07.	STEEL SCALE	ELORA	01081509	01.08.2015	01.08.2016
08.	VERNIER CALLIPERS	PRECISE	01081501	01.08.2015	01.08.2016
09.	MEASURING TAPE	FREEMANS	01081502	01.08.2015	01.08.2016
10.	GLASS THERMOMETER PLACED AT HOT AIR OVEN SURYA		010815083	01.08.2015	01.08.2016
11.	DIAL GAUGE (BRHD TESTER)	BAKER	01081504	01.08.2015	01.08.2016
12.	DIAL THICKNESS GAUGE	BAKER	01081505	01.08.2015	01.08.2016
13.	EXTREME HIGH VOLTAGE (i) leakage current setup (ii) Ac -proof voltage test setup with condition chamber (1300x1300x100mm) (iii) Di -Electric test setup	RECTIFIERS & ELEC	REL./CAL-1516-83(B)	13.10.2015	11.10.2016
14.	HARDNESS TESTER	PRECISE	14390	05.012.2015	04.12.2016
15.	PRESSURE GAUGE *	H GURU	02121501	02.12.2015	02.12.2016
16.	STANDARD WEIGHT	BULLION	26111502	26.11.2015	26.11.2016
17.	GLASS THERMOMETER	ZEAL	09101502	09.10.2015	09.10.2016
18.	VACUUM GAUGE	MANOMETER	26111504	26.11.2015	26.11.2016
19.	PRESSUR GAUGE	H GURU INDIA	26111501	26.11.2015	26.11.2016
20.	HOT AIR OVEN AT PVC PLANT	SHIVAKI	09101501	09.10.2015	09.10.2016
21.	TEMP. & HUMIDITY METER	SHIVANKI	01081507	01.08.2015	01.08.2016
22.	HOT AIR OVEN	SURYA	01081501	01.08.2015	01.08.2016
23.	HOOR METER (HM 01)	DHC	GTCL/SE/15-16/87130	23.07.2015	22.07.2016
24.	HOOR METER (HM 02)	SE 166	GTCL/SE/15-16/87131	23.07.2015	22.07.2016

Reviewed
09/10/16
FSES

Q. C. I. (Sign.)