PLOT NO. 1131 HARI ENCLAVE KIRARI SLEMAN NAGAR NEW DELHI-110086
2ND PLANT H-936 RIICO CHOPANKI INDUSTRIAL AREA ALWAR RAJSTHAN-301707

RESOTECH UNIVERSALTESTING PROPOSAL

Professional Manufacturer of Test Equipment

FEATURES:

Universal Testing Machines have a wide range of applications and number of materials, metals in different form and shapes can be tested for variety of tests like Tension, Compression, Transverse, Bend, Shear, Brinell Hardness etc.Special attachments are also available for testing of Flat Belts, Chain Links, Wire Ropes etc.

MAKE:-RESOTECH
MODEL NO. RESOTECH OMEGA-2608

MANUFACTURERS & SUPPLERS

SPECIAL PURPOSE MACHINE, MATERIAL TESTING MACHINE, LEAKAGE TESTING MACHINE, PACKIGING TESTING MACHINE, ENVIRONMENTAL TEST CHAMBER, ASSY. LINE EQUIPMENT, SOLUTION FOR ELECTRONIC AUTOMATION AND PRODUCT DEVELOPMENT, COMPUTERIZED CONTROL MACHINE , PLC HMI SCADA VISUAL BASIC SOFTWARE DEVELOPMENT SOLUTION AND OTHER SERVICES.

The mechanical properties of materials are determined by performing carefully designed laboratory experiments that replicate as nearly as possible the service conditions. In the real life, there are many factors involved in the nature in which loads are applied on a material. The following are some common examples of how these loads might be applied: UNIVERSAL, compressive and shear, just to name a few. These properties are important in materials selections for mechanical design.

UTM MACHINE
RESOTECH OMEGA-2608

EQUIPMENT DETAILS

I]8

DETAILED SPECIFICATIONS

UTM is electromechanical system with integrated digital closed-loop control, data acquisition
system with measurement of load, crosshead travel and extension (through extensometers). The
basic system comprises of Electromechanical Load frame, Signal conditioning and Control Unit,
Standard Computer, Software Package, Load Cells, Displacement Transducer and Grips/
Fixtures (As per requirement).

LOADING FRAME:

The base has a hydraulic cylinder at its center and two main screws at both ends. The middle cross head is mounted on screws through main nuts. The middle cross head can be moved up or down through chain transmission and geared motor to adjust the initial tensile/compression clearance. Inside base of machine, hydraulic cylinder is seated in which piston is placed on the piston, rests an assembly of upper, lower cross head and two columns. The individually lapped cylinder piston assembly ensures smooth axial force with minimum friction.

CONTROL PANEL

Hydraulic circuit it consists of hydraulic power pack which has a directly driven radial plunger pump which gives continuous non pulsating flow of oil pressure up to 210bar a pressure compensated needle type flow control valve is obtained with help of valves. Optionally this can be controlled form electronic system.

LOADING RATE / STRAINING RATE CONTROL

This is superfine controlling system which controls loading rate / straining rate as per commands from electronic machine control system. FTM Software can send loading rate / straining rate to electronic system for fully automatic testing.

LOAD MEASUREMENT SYSTEM

The oil pressure in the main cylinder is also transferred to an electronic pressure transducer which gives proportionate signal to electronic unit. Both the motors for hydraulic operation and cross head motion are controlled by buttons on electronic control system and they have interlocked to prevent simultaneous working of motors. The electrical panel is housed in control panel. Displacement measurement is carried out by means of a rack and pinion on rotary encoder. Encoder signal is fed to electronic system to get displacement.

OPERATION

Tension test is conducted by gripping the test specimen in the upper and middle cross head. Compression, Bending, Transverse, Shear and Hardness tests are conducted between the middle and lower cross head by using appropriate fixtures. The rapid adjustment of middle crosshead facilitates easy fixing of tensile / Compression specimens of different lengths.

Hydraulic controls are through hand operated valve, ergonomically placed for ease of control. Optionally valves can be controlled form electronic control system. Adequate safeties for over load and over travel are incorporated and emergency switch is provided.

ACCURACY & CALIBRATION

Every machine is calibrated in accordance with procedure laid down in BS-1610-1964 IS 1828-1991. 'Resotech' Computerized Fatigue Testing Machines comply with grade of BS 1610-1964 and Grade 1.0 of IS 1828-1991. An accuracy of ± 1% guaranteed from 2% to 100% of capacity of the machine. In the computerized FTM, the computer is an integral part of the entire system and not just on ADD ON feature. This puts a lot of power and versatility into the hands of the operator and makes the system much more self-contained than usual, as it includes many functions usually only available as additional (often expensive) optional features.9

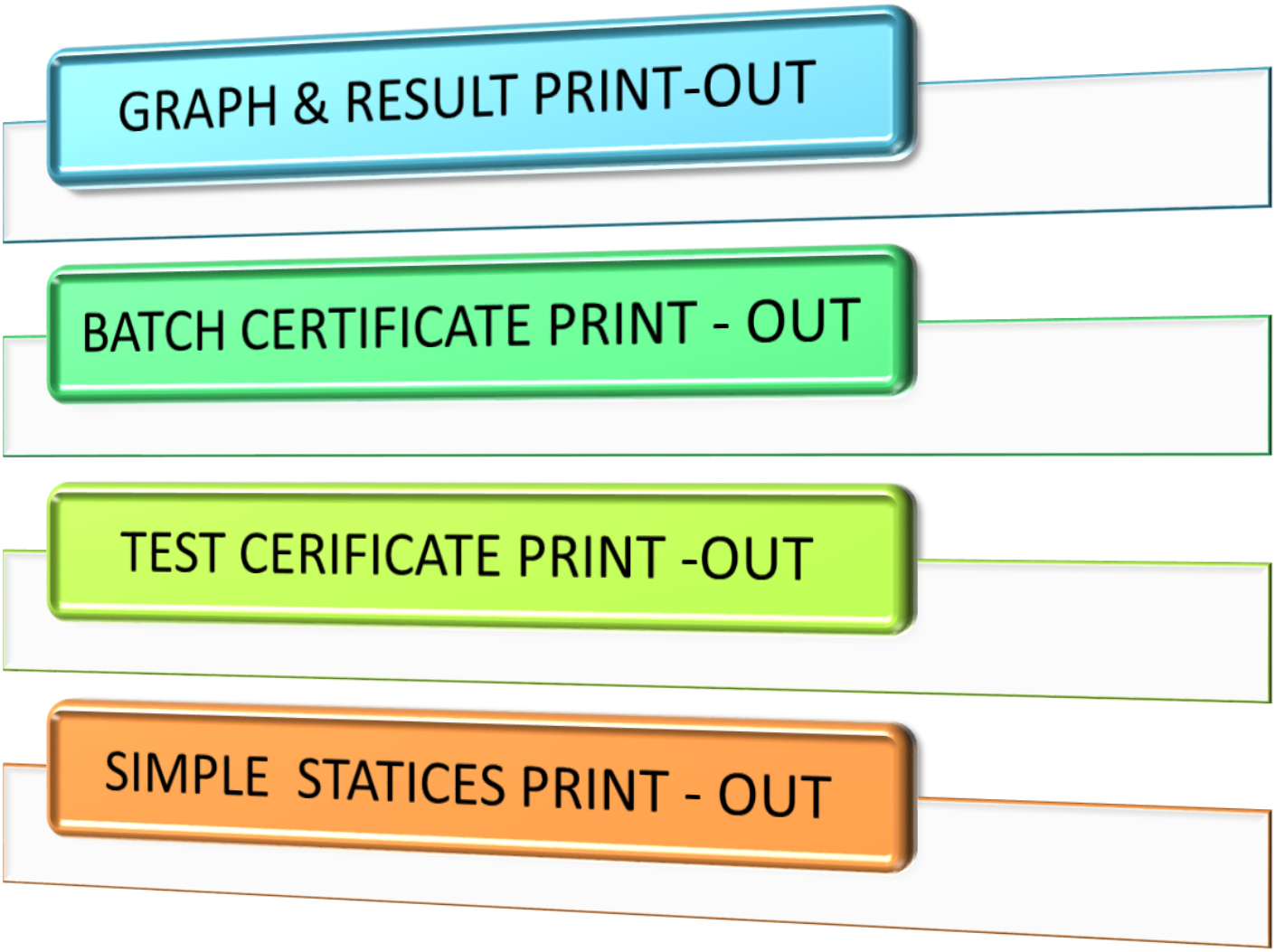
FEATURES OF RESOTECH UTM SOFTWARE:

- Menu driven form system with color graphs to compare sample test results
- Test details and reports are stored in database
- User programmable master test templates
- User can select test from master test Templates and can start similar test
- Load and Elongation is continuously displayed on screen
- Overload protection for machine by electronic control
- Tare Load and Reset Elongation facility available
- User selectable sample break detect condition
- Load rate and strain rate are also displayed while testing
- Unlimited Load rate and strain rate control steps
- With Load rate controller, user can hold the load on specimen for unlimited time
- With Load rate control, user can specify positive or negative Rate of Loading
- User selectable units for load and displacement (kg, kN,N, Ibf, mm, cm, inch etc.) Results and graphs are automatically displayed accordingly
- On line display of Load and Displacement (Stress, Extension, Strain) etc. while test is conducted
- Provision of auto zeroing of Elongation at preload set by user
- User Programmable Reports. User can select Header, Footer, Specimen information, Dimensions, Test information, Test results, Statically analysis as per his need
- Generated reports can be exported to PDF file and can be e-mailed
- If electronic extensometer is used then proof stress values from 0.1% to1%can be determined
- Software will give alert to user to remove extensometer when load crosses .2% of Gauge length selected then proof load value is calculated. (With extensometer)
- Separate graph of extensometer and encoder is displayed
- Provision of calculation of Load and Elongation at yield, Peak load and Load at break, Yield stress, Ultimate stress etc
- Special software for tensile, compression, bend, TOR steel and other test software as per customer requirements

TECHNICAL SPECIFICATION:

Specifications	Models					
	OMEGA-100	**OMEGA-200**	**OMEGA-400**	**OMEGA-600**	**OMEGA-1000**	**OMEGA-2000**
Measuring Cap. (kN)	100	200	400	600	1000	2000
Measuring Range. (kN)	0-100	0-200	0-400	0-600	0-1000	0-2000
Least Count (kN)	0.005	0.01	0.016	0.024	0.04	0.08
Load Range in kN with accuracy of Measurement ± 1%	2 to 100	4 to 200	8 to 400	12 to 600	20 to 1000	40 to 2000
Resolution of Piston movement (mm)	0.01	0.01	0.01	0.01	0.01	0.01
Max. tensile clearance at fully descended piston position	50 to 700	50 to 700	50 to 700	50 to 800	50 to 850	50 to 900
Maximum clearance for Compression test (mm)	0 - 700	0-700	0-700	0-800	0-850	0-900
Distance between columns (mm)	450	500	500	600	750	850
Piston Stroke (mm)	150	200	200	250	250	300
Maximum straining speed at no load (mm/min)	300	150	150	100	80	45
Power Supply	3 phase 415V 50 / 60 Hz A.c.					
H. P. (Total)	1.5	1.5	2.5	2.5	4.0	6.5
Overall dimensions (Approx) (mm L x W x H)	1950 * 800 * 1850	2000 * 800 * 1900	2100 * 800 * 2060	2200 * 800 * 2400	2350 * 800 * 2700	3000 * 800 * 3600
Weight (Approx in kg)	1300	1400	2000	3000	4200	10000

PRINTER PORT FOR PRINTER INTERFACE

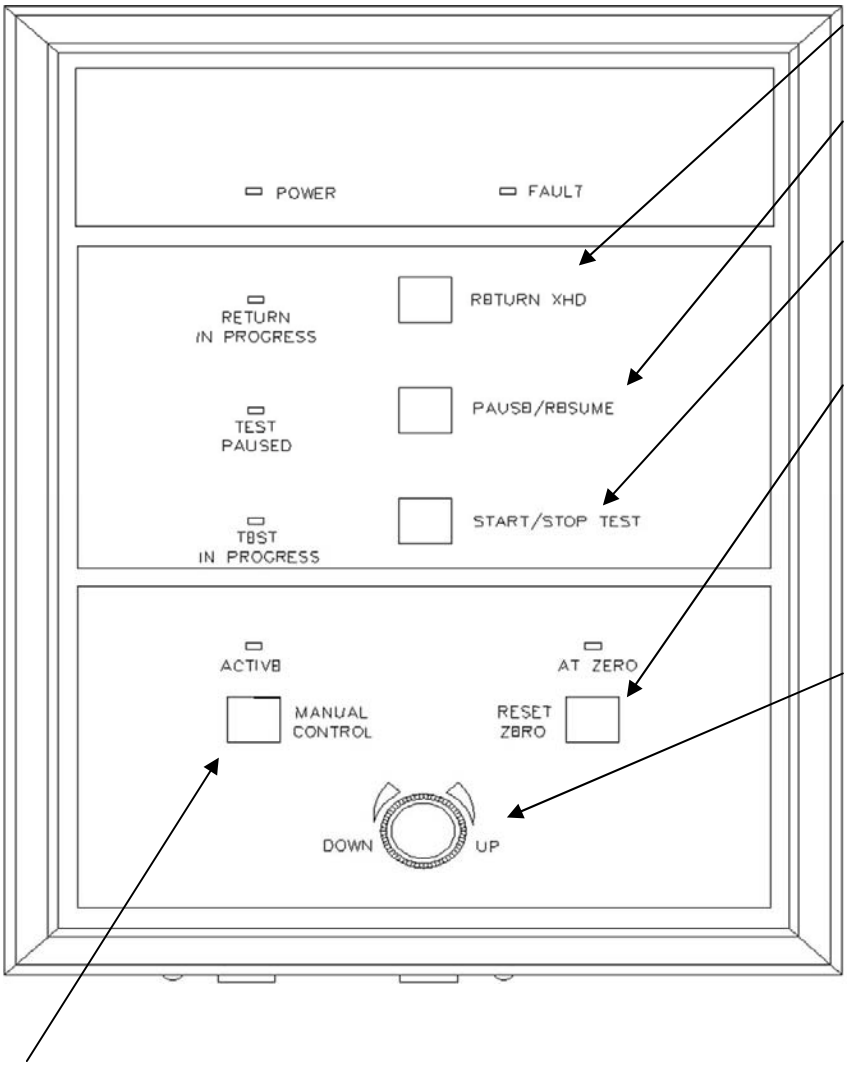


Section4. Controls

ManualControls

The Series Universal Testing Machine (UTM) is computer-controlled, but limited functions can becontrolled manually. The manual control station is mounted on the load frame and provides several testcontrolsatthisposition.Belowisalistofcontrolsusedduringoperation.RefertoFigure2.

NOTE:Inorderforthisequipmenttobecontrolledmanually,thesoftwaremustbeinoperation.



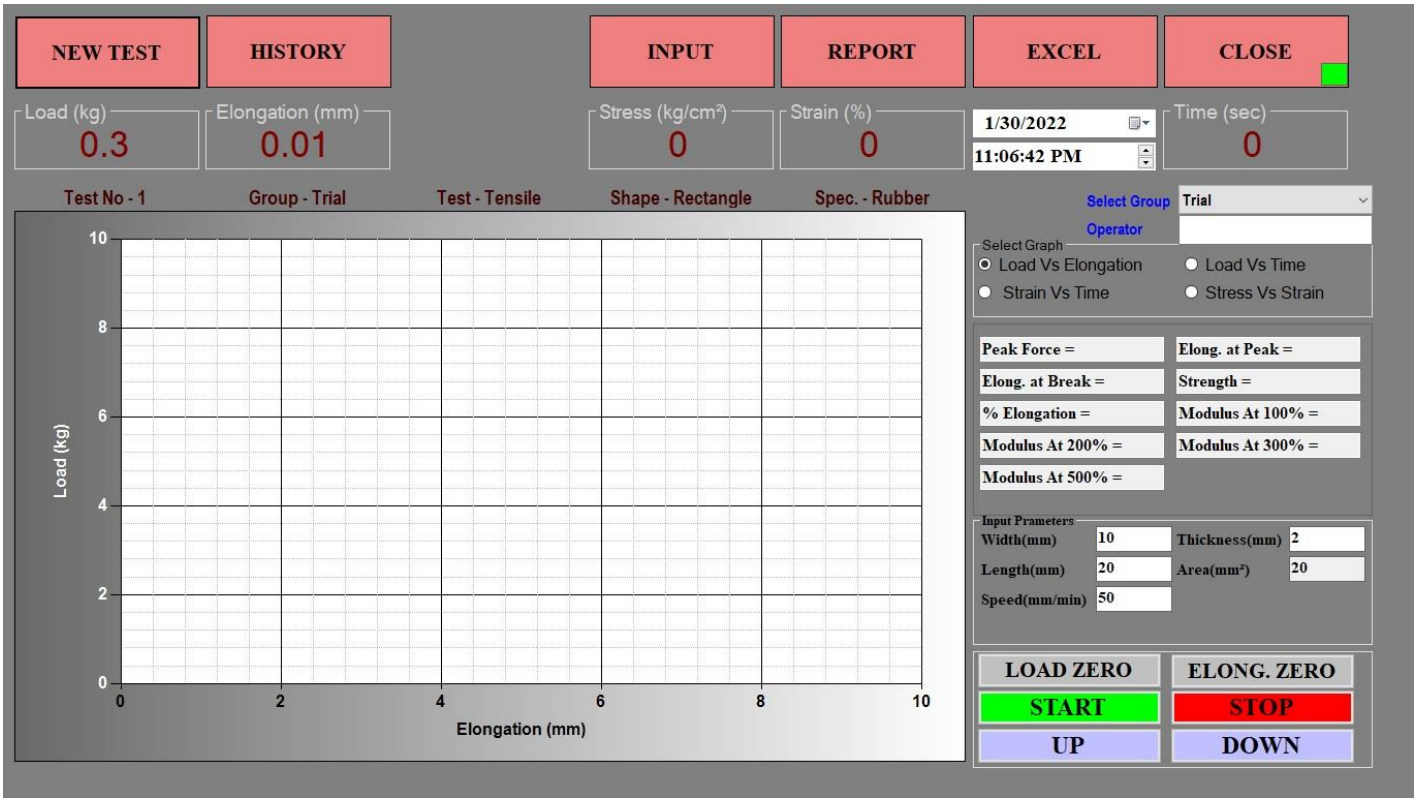
Return XHD - This pushbutton (withcorresponding LED) will return thecrossheadtothezeroposition.
Pause/Resume - This pushbutton(with corresponding LED) will hold atest in progress or resume a pausedtestwhenpressed.
Start/Stop Test - This pushbutton(with corresponding LED) willstart/stop the test from the loadframe.
Reset Zero - This pushbuttonresets the zero position of thecrosshead to its current locationwhen the button is pressed. TheACTIVEindicatorandtheManualControl Window on screen must bepresent for this function to operate.An LED indicator above the buttonwill indicate when the crosshead isatzero.
Jog Pot - This jog is a proportionalcontrol, permitting the user tomanually operate the up and downmovement of the loadingcrosshead.As the jog is turned ineither direction, the moveablecrosshead speed graduallyincreases.When the knob isreleased, the moveable crossheadmovement stops.The activeindicator and the Manual ControlWindow must be ON for thisfunctiontooperate.

Manual Control - This pushbutton will enable the manual controls, by pressing the button and holding for 3seconds. An illuminated LED indicator above the button shows when the manual control functions are active.When activated, the manual control window will appear on the computer screen. Manual control is accessedfromeithertheloadframeorthecomputer.

Emergency Stop - This pushbutton is mounted on the base of the UTM and provides an instant stop of allmachine functions when depressed.The Emergency Stop function is available at all times when power isappliedtotheUTM.Whenpushed,thepushbuttonwilllockthepoweroff.Inordertorestorepower,turnthebutton.

ComputerControlFunctions

The Universal Test Machine is primarily computer-controlled using the software.Figure3showsa list ofthesoftwaremenu itemsavailablewithThismanualwillexplainhowto perform functions in all the menu items except for some items available in the SYSTEM menu, as they shouldbeaccessedbyresonancepersonnelonly.



Section5.Operation

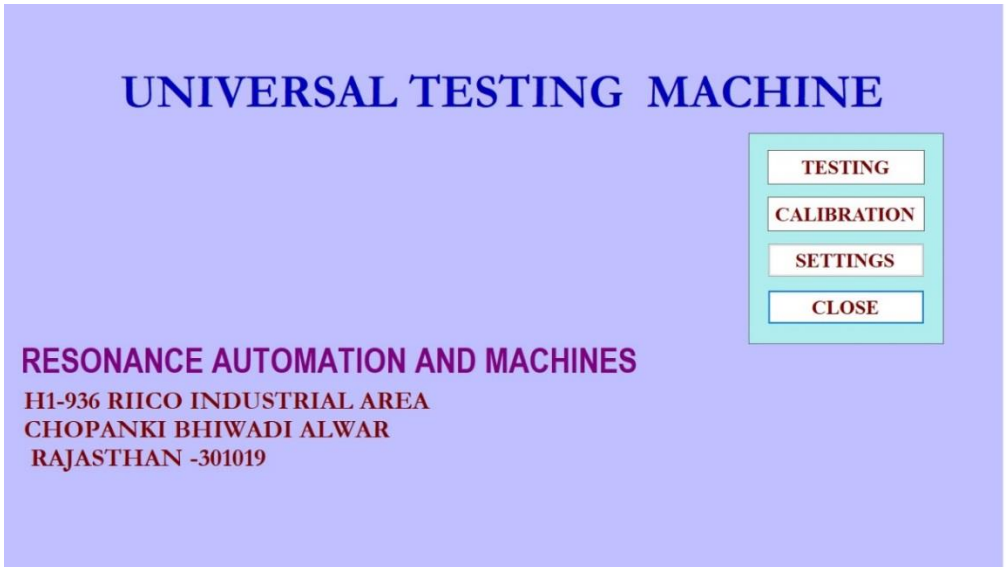
General

The purpose of this section is to describe procedures related to operating the Computer ControlledUniversal Test Machine (UTM).Before a test can be conducted, Hardware Parameters andSoftwarePreferencesmustbeset.

- CreatingaTest
- PositioningtheSpecimen
- RunningaTest
- ManualOperation

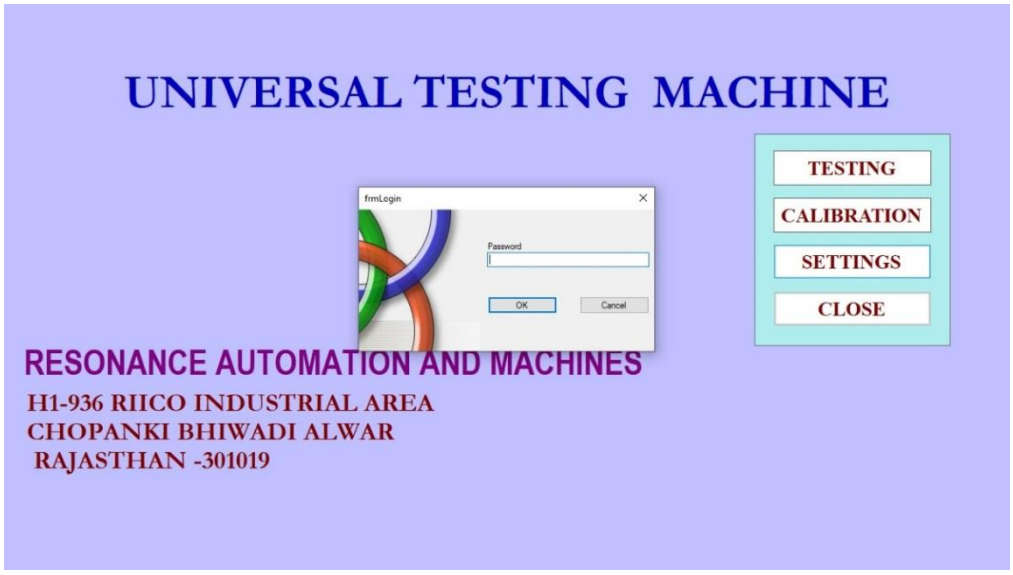
WELCOME SCREEN

Here operator can choose whether he want to do samples testing or to do software settings,

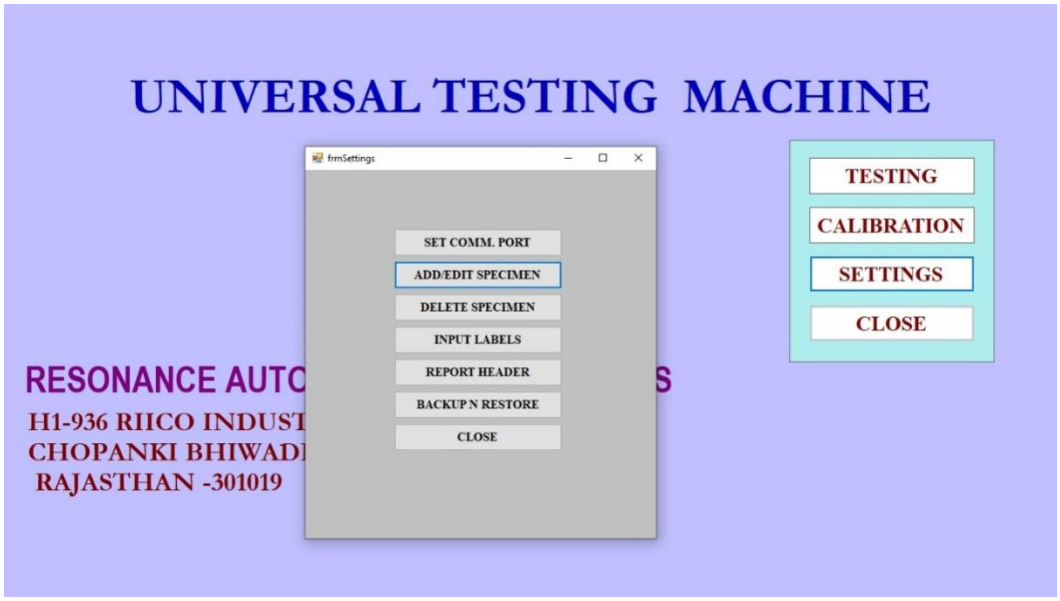


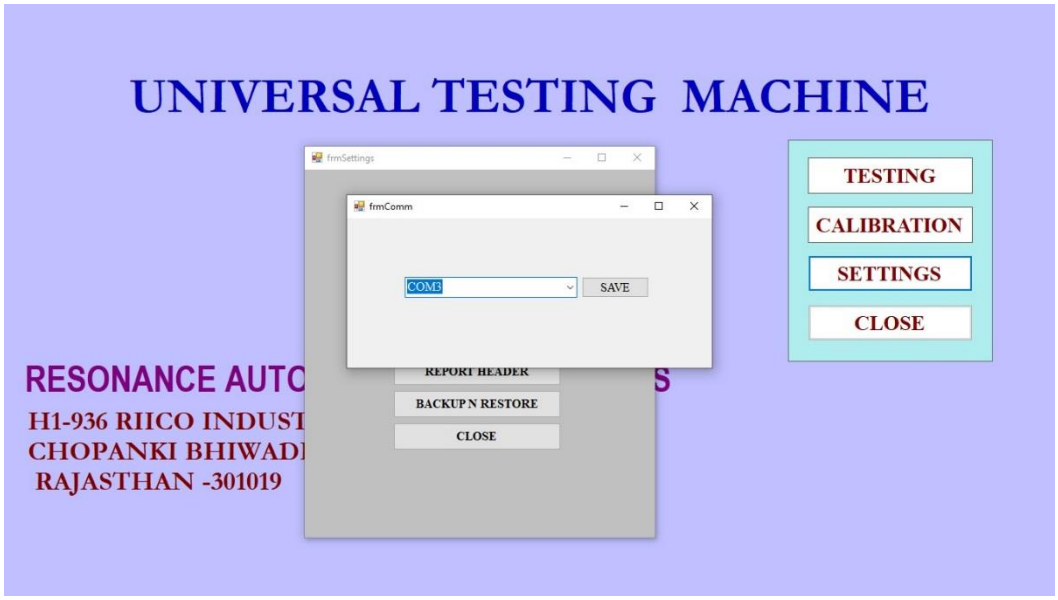
SETTINGS

All software settings and backup options are here. A**"admin"**password is required to get in to this option. Settings menu shown below.

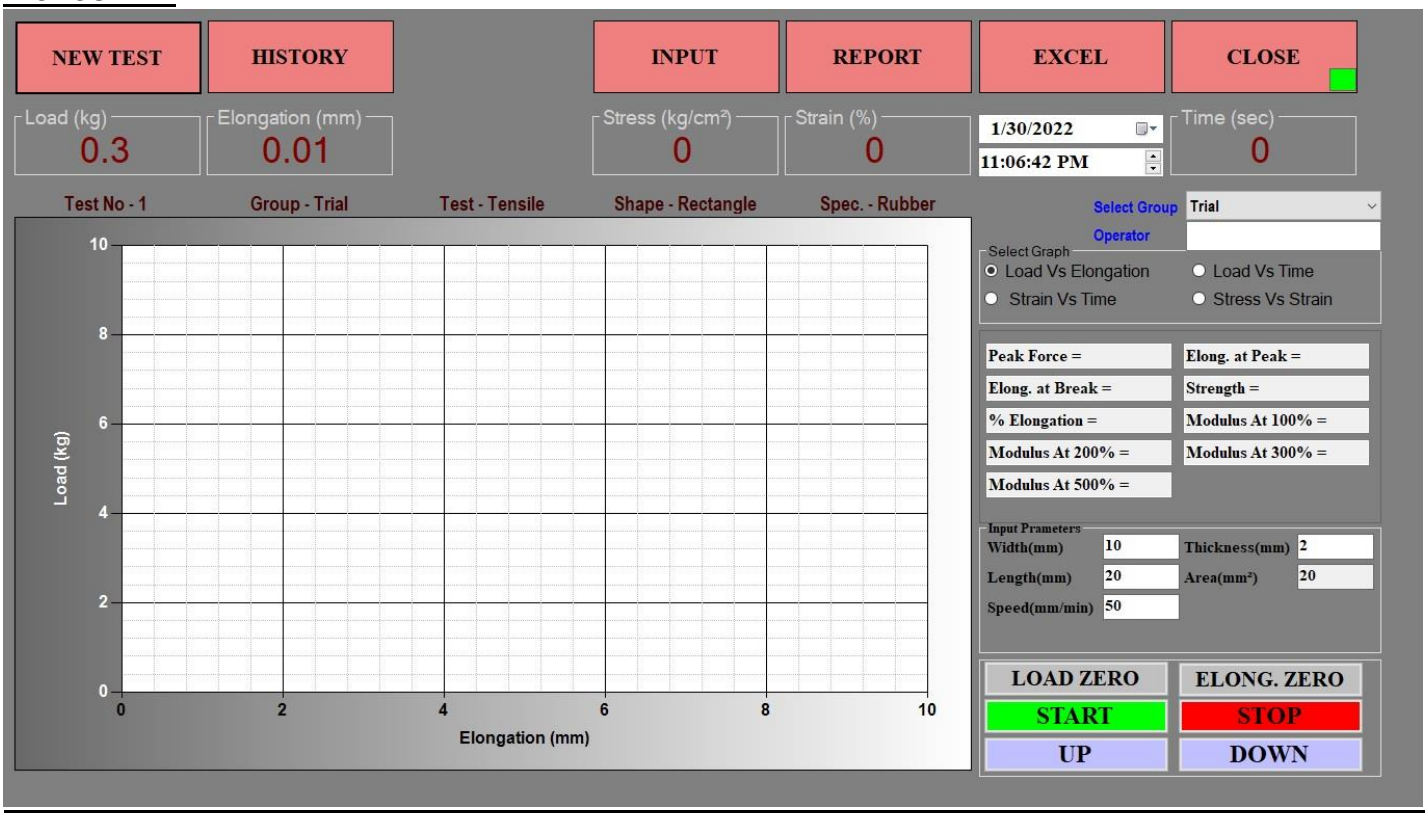


To set communication port click on ’SET COMM. PORT’ option and then choose the port no on which the Interface unit is connected



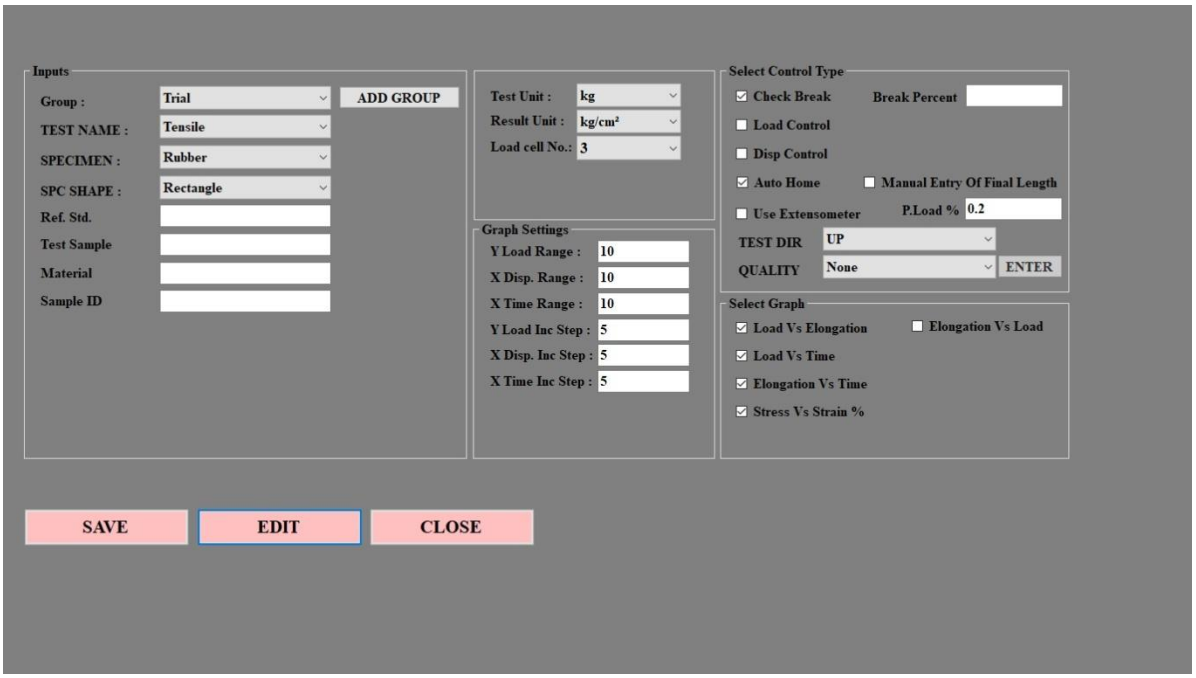


TEST SCREEN



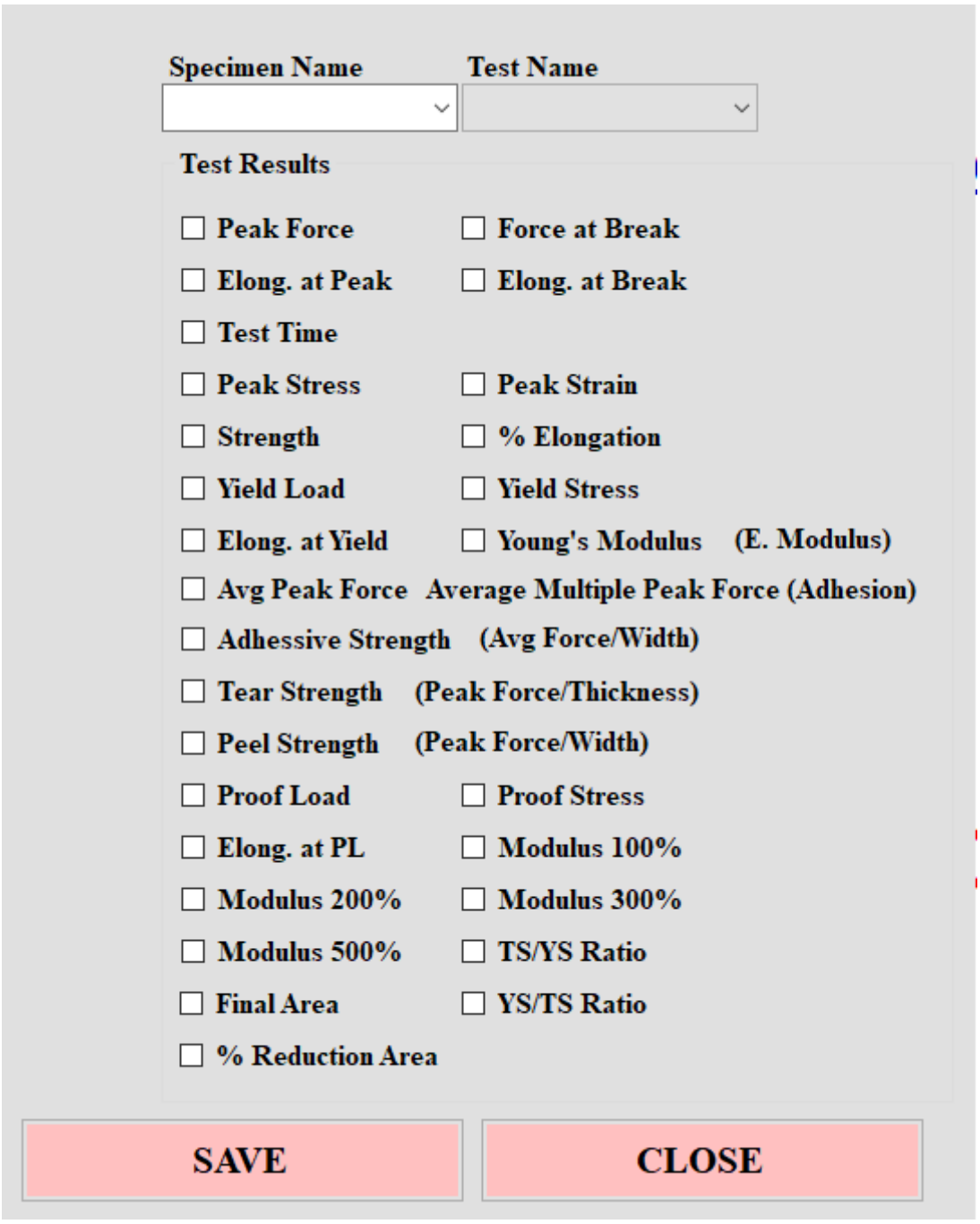
INPUTS

All input settings are set here. Test Unit, Result Unit, Break Checking, Set Load, and Set Disp., whether to use extensometer or not, if proof load required set percentage for proof load, Test Direction and all other input parameters like test type, specimen, shape etc. Graph range settings also here.



ADD EDIT SPECIMEN

Here the administrator can add new specimens like(Rubber, TMT Bar, Iron Rod, Door Hinge, Brake Hose etc) And assign test type(Tensile, Compression, Flexural, Elongation Test etc) also can select test results required For specified specimen.


Specimen Name
Test Name
Test Results
Peak Force
Force at Break
Elong. at Peak
Elong. at Break
Test Time
Peak Stress
Peak Strain
Strength
% Elongation
Yield Load
Yield Stress
Elong. at Yield
Young's Modulus (E. Modulus)
Avg Peak Force Average Multiple Peak Force (Adhesion)
Adhessive Strength (Avg Force/Width)
Tear Strength (Peak Force/Thickness)
Peel Strength (Peak Force/Width)
Proof Load
Proof Stress
Elong. at PL
Modulus 100%
Modulus 200%
Modulus 300%
Modulus 500%
TS/YS Ratio
Final Area
YS/TS Ratio
% Reduction Area
SAVE
CLOSE

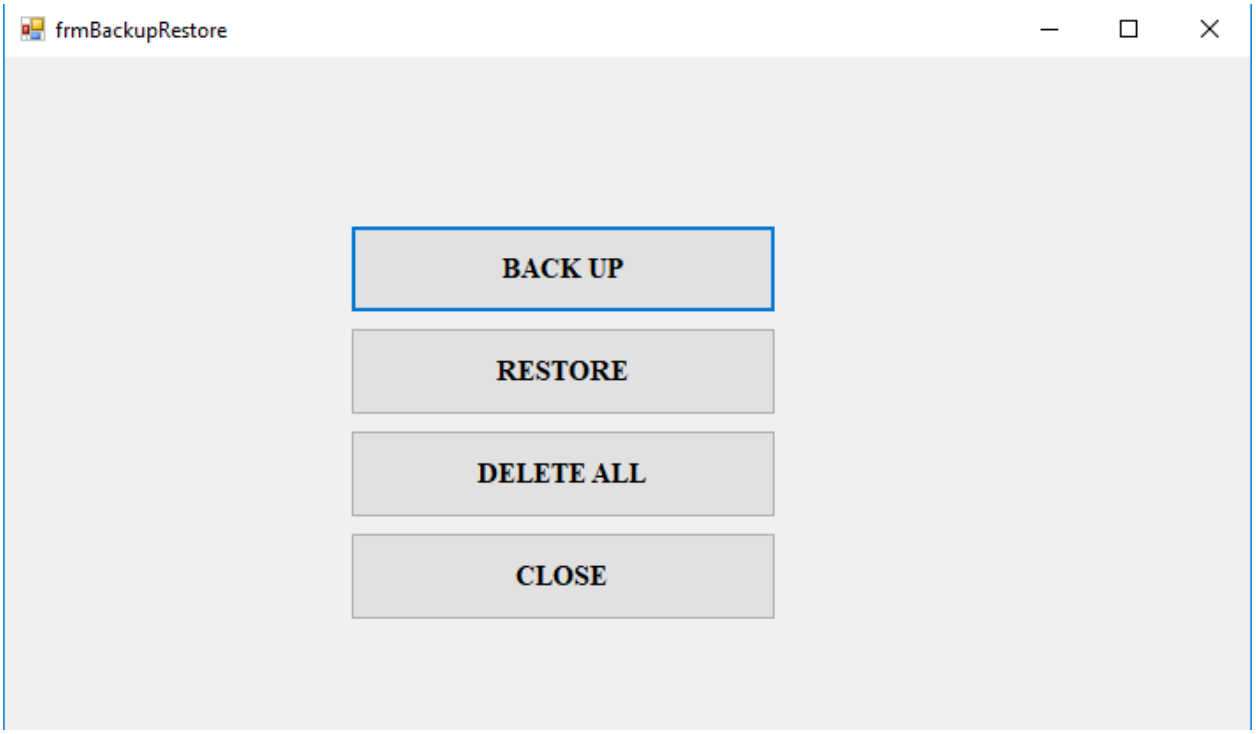
BACKUP & RESTORE

Backup

Administrator can take backup of all test and settings here. It is advised to take back in regular intervals.

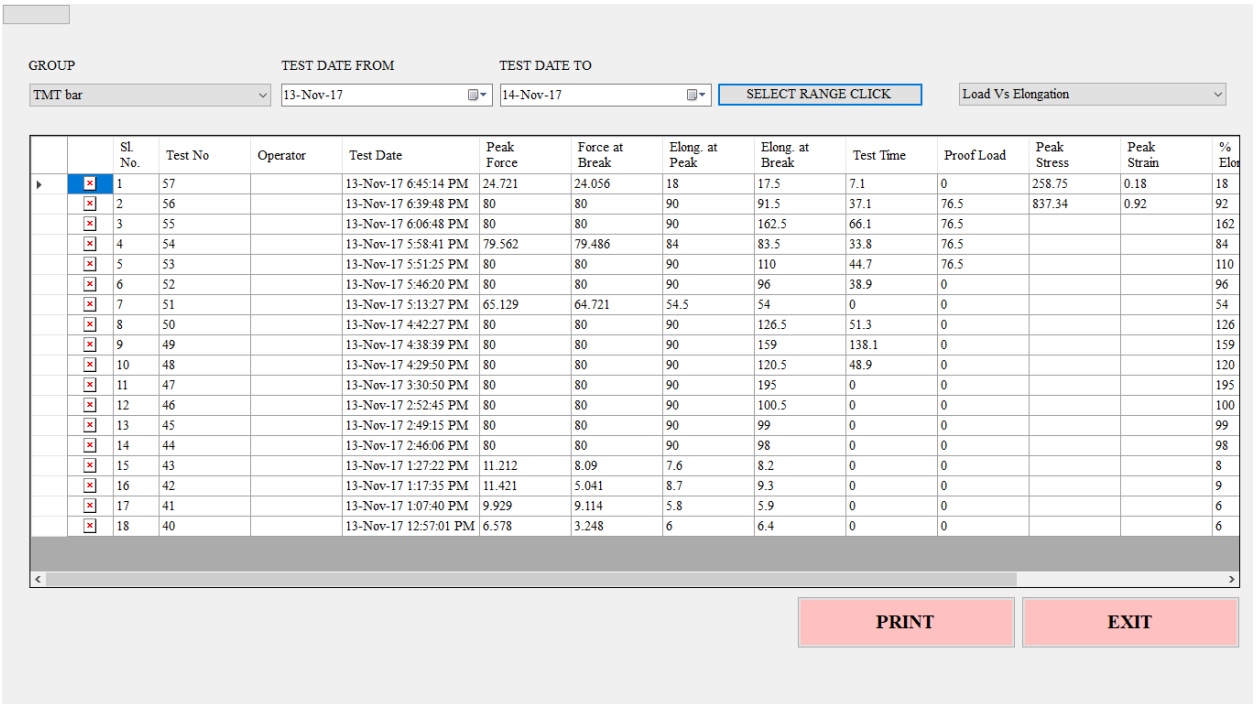
Restore

Any time if your software get corrupted or loss of data, administrator can restore back data back to system using this option. Care should be taken while restoring the data, by clicking delete all data administrator has to clear all current then use restore.(Note : only the data till backup date will be restored).

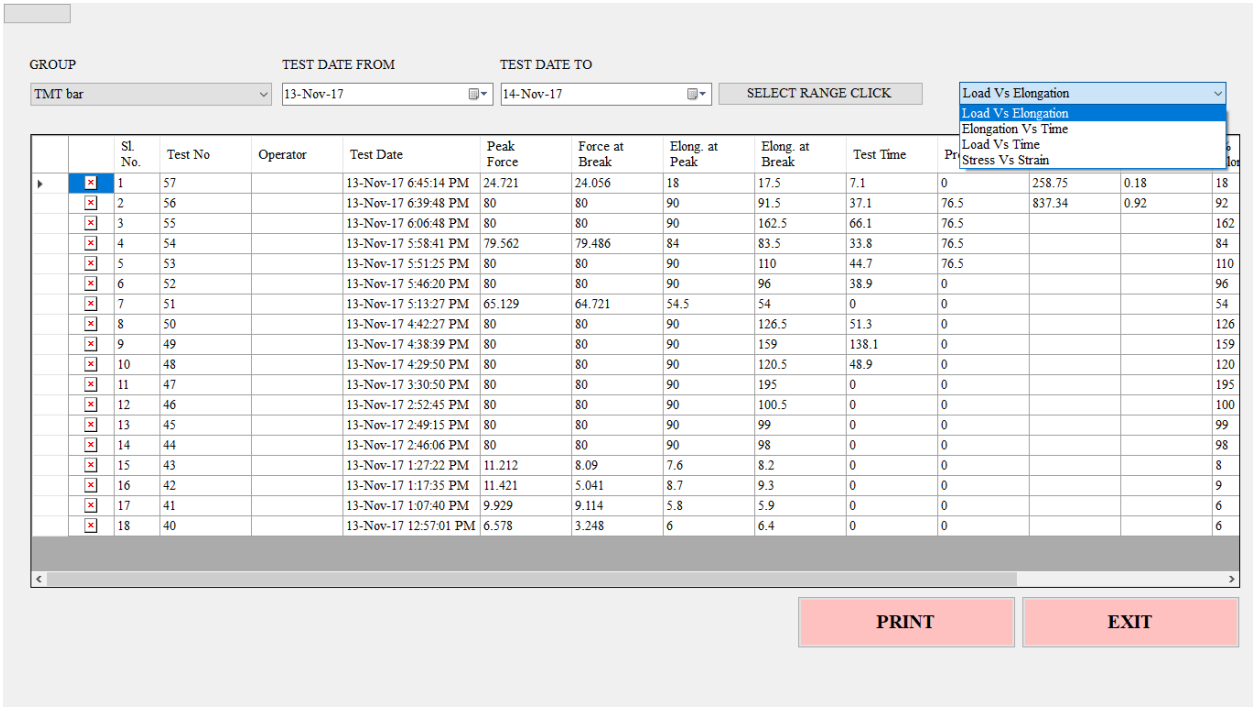


HISTORY

Here user can see all previous test and take print out from here.



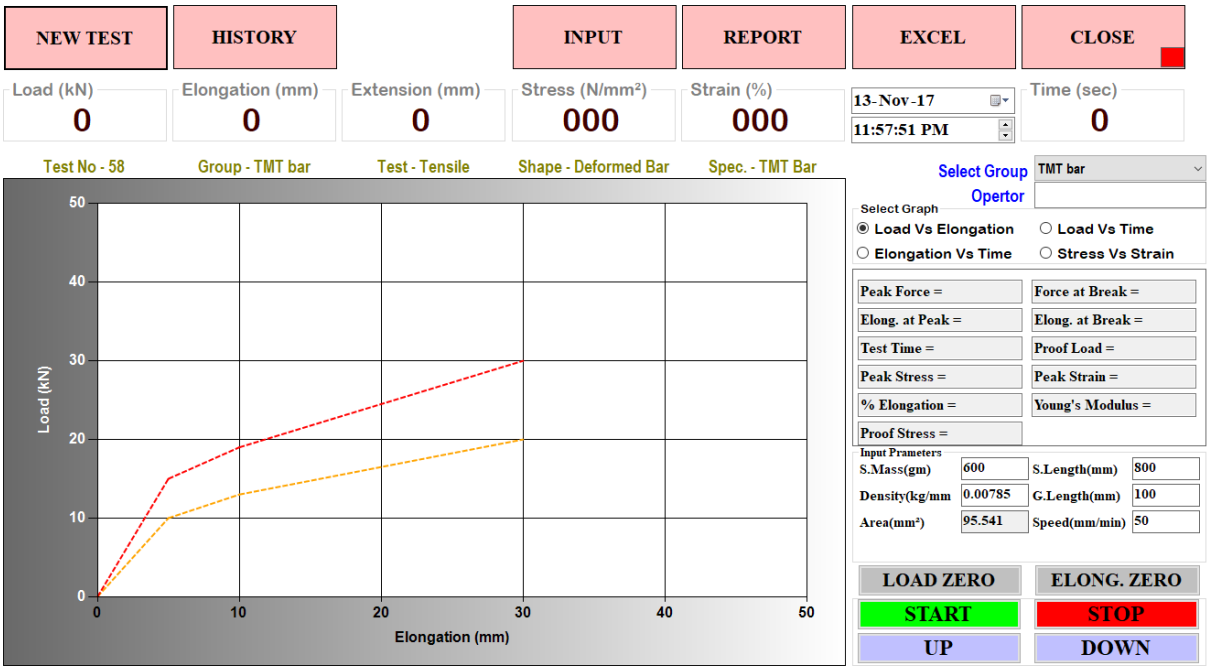
Sl. No.	Test No	Operator	Test Date	Peak Force	Force at Break	Elong. at Peak	Elong. at Break	Test Time	Proof Load	Peak Stress	Peak Strain	% Elo
1	57		13-Nov-17 6:45:14 PM	24.721	24.056	18	17.5	7.1	0	258.75	0.18	18
2	56		13-Nov-17 6:39:48 PM	80	80	90	91.5	37.1	76.5	837.34	0.92	92
3	55		13-Nov-17 6:06:48 PM	80	80	90	162.5	66.1	76.5			162
4	54		13-Nov-17 5:58:41 PM	79.562	79.486	84	83.5	33.8	76.5			84
5	53		13-Nov-17 5:51:25 PM	80	80	90	110	44.7	76.5			110
6	52		13-Nov-17 5:46:20 PM	80	80	90	96	38.9	0			96
7	51		13-Nov-17 5:13:27 PM	65.129	64.721	54.5	54	0	0			54
8	50		13-Nov-17 4:42:27 PM	80	80	90	126.5	51.3	0			126
9	49		13-Nov-17 4:38:39 PM	80	80	90	159	138.1	0			159
10	48		13-Nov-17 4:29:50 PM	80	80	90	120.5	48.9	0			120
11	47		13-Nov-17 3:30:50 PM	80	80	90	195	0	0			195
12	46		13-Nov-17 2:52:45 PM	80	80	90	100.5	0	0			100
13	45		13-Nov-17 2:49:15 PM	80	80	90	99	0	0			99
14	44		13-Nov-17 2:46:06 PM	80	80	90	98	0	0			98
15	43		13-Nov-17 1:27:22 PM	11.212	8.09	7.6	8.2	0	0			8
16	42		13-Nov-17 1:17:35 PM	11.421	5.041	8.7	9.3	0	0			9
17	41		13-Nov-17 1:07:40 PM	9.929	9.114	5.8	5.9	0	0			6
18	40		13-Nov-17 12:57:01 PM	6.578	3.248	6	6.4	0	0			6



	Sl. No.	Test No	Operator	Test Date	Peak Force	Force at Break	Elong. at Peak	Elong. at Break	Test Time	Pr			
	1	57		13-Nov-17 6:45:14 PM	24.721	24.056	18	17.5	7.1	0	258.75	0.18	18
	2	56		13-Nov-17 6:39:48 PM	80	80	90	91.5	37.1	76.5	837.34	0.92	92
	3	55		13-Nov-17 6:06:48 PM	80	80	90	162.5	66.1	76.5			162
	4	54		13-Nov-17 5:58:41 PM	79.562	79.486	84	83.5	33.8	76.5			84
	5	53		13-Nov-17 5:51:25 PM	80	80	90	110	44.7	76.5			110
	6	52		13-Nov-17 5:46:20 PM	80	80	90	96	38.9	0			96
	7	51		13-Nov-17 5:13:27 PM	65.129	64.721	54.5	54	0	0			54
	8	50		13-Nov-17 4:42:27 PM	80	80	90	126.5	51.3	0			126
	9	49		13-Nov-17 4:38:39 PM	80	80	90	159	138.1	0			159
	10	48		13-Nov-17 4:29:50 PM	80	80	90	120.5	48.9	0			120
	11	47		13-Nov-17 3:30:50 PM	80	80	90	195	0	0			195
	12	46		13-Nov-17 2:52:45 PM	80	80	90	100.5	0	0			100
	13	45		13-Nov-17 2:49:15 PM	80	80	90	99	0	0			99
	14	44		13-Nov-17 2:46:06 PM	80	80	90	98	0	0			98
	15	43		13-Nov-17 1:27:22 PM	11.212	8.09	7.6	8.2	0	0			8
	16	42		13-Nov-17 1:17:35 PM	11.421	5.041	8.7	9.3	0	0			9
	17	41		13-Nov-17 1:07:40 PM	9.929	9.114	5.8	5.9	0	0			6
	18	40		13-Nov-17 12:57:01 PM	6.578	3.248	6	6.4	0	0			6

TESTING

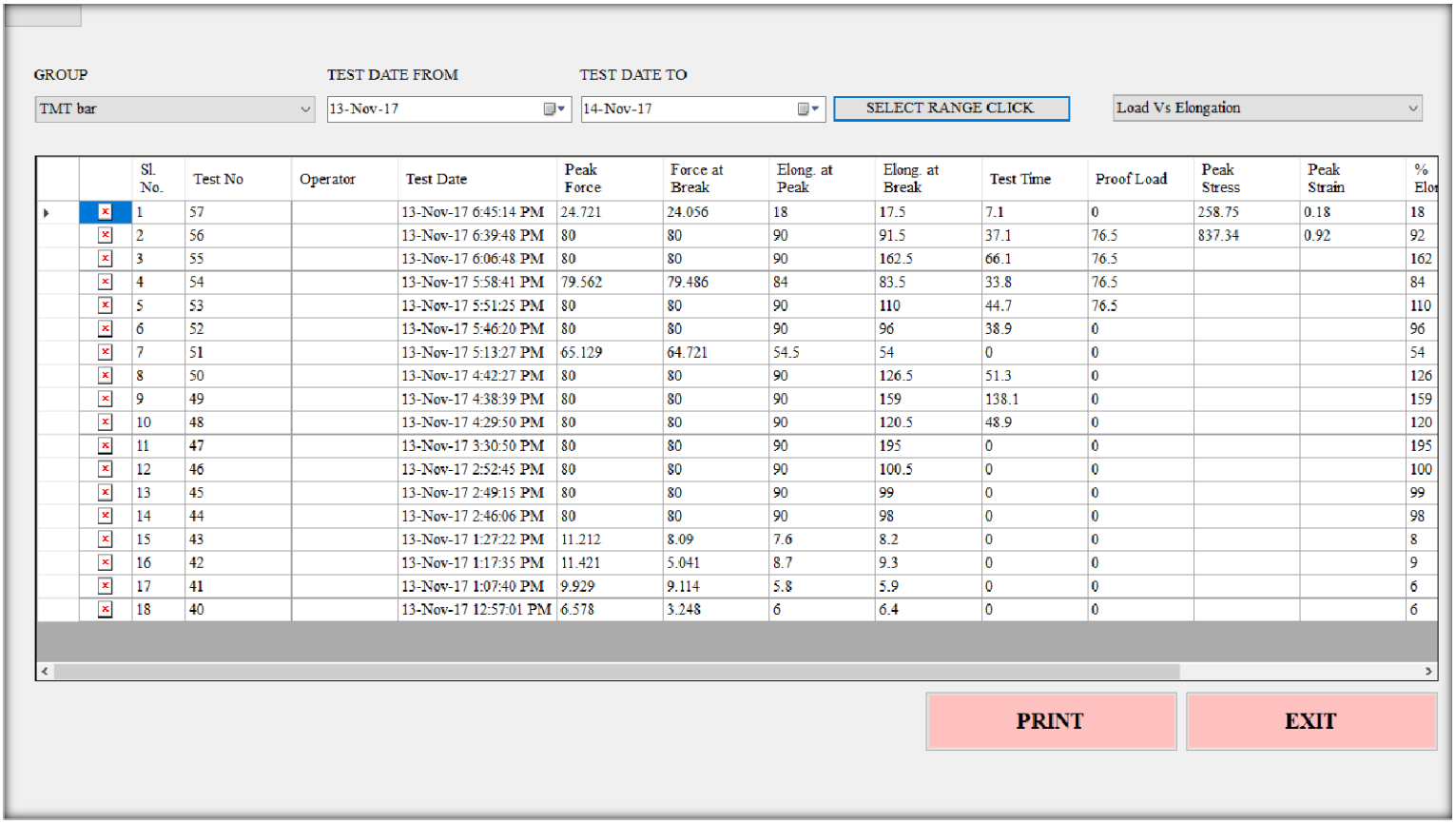
New Test – Old Test data and graph get cleared and ready for new test.
User has to select the group in which he want to do testing. When user select a group all settings get loaded.
Click Start to start test. Input details given below.



HISTORY

HISTORY

Here user can see all previous test and take print out from here.



Sl. No.	Test No	Operator	Test Date	Peak Force	Force at Break	Elong. at Peak	Elong. at Break	Test Time	Proof Load	Peak Stress	Peak Strain	% Elo
1	57		13-Nov-17 6:45:14 PM	24.721	24.056	18	17.5	7.1	0	258.75	0.18	18
2	56		13-Nov-17 6:39:48 PM	80	80	90	91.5	37.1	76.5	837.34	0.92	92
3	55		13-Nov-17 6:06:48 PM	80	80	90	162.5	66.1	76.5			162
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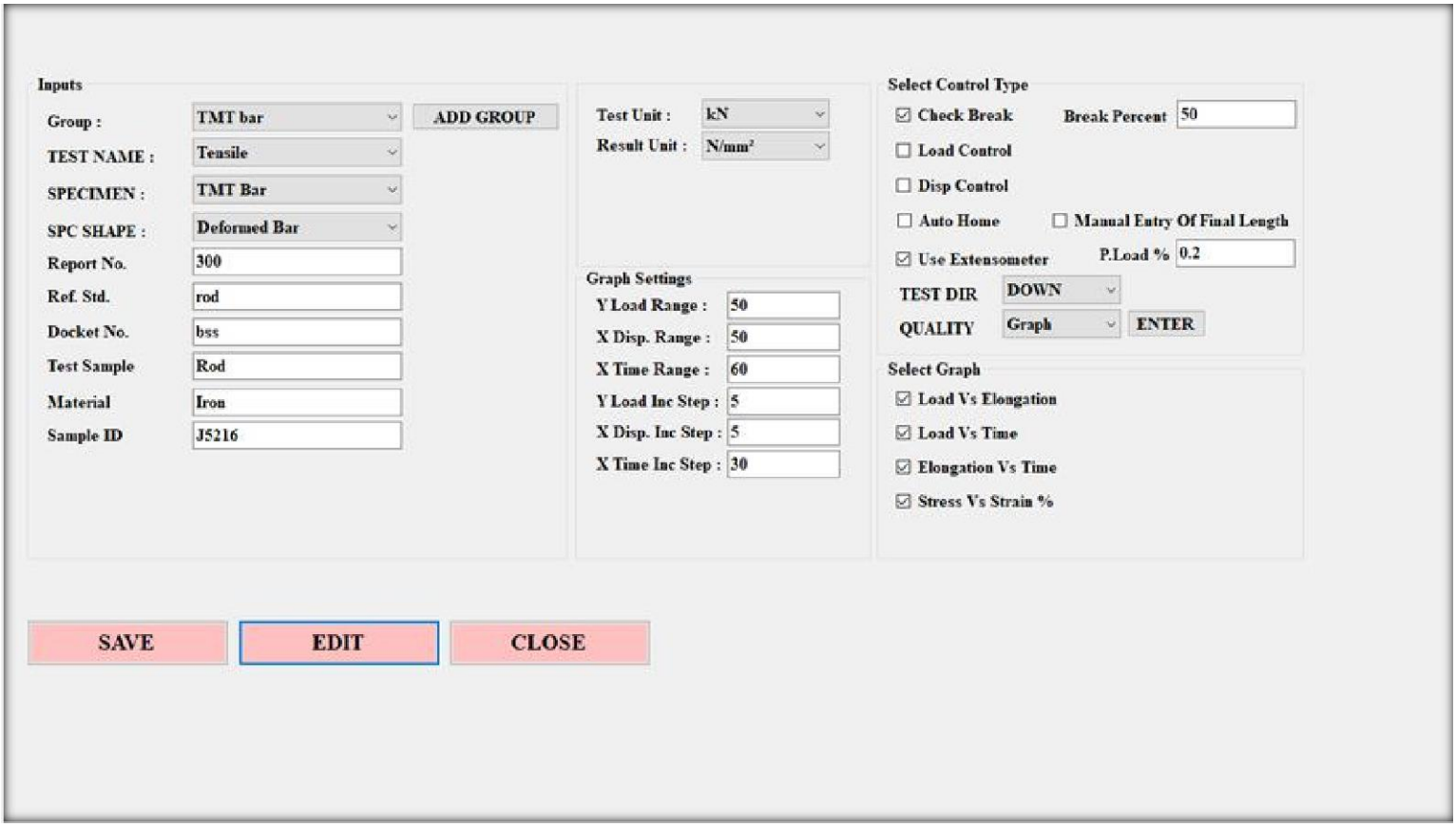
5	53		13-Nov-17 5:51:25 PM	80	80	90	110	44.7	76.5			110
6	52		13-Nov-17 5:46:20 PM	80	80	90	96	38.9	0			96
7	51		13-Nov-17 5:13:27 PM	65.129	64.721	54.5	54	0	0			54
8	50		13-Nov-17 4:42:27 PM	80	80	90	126.5	51.3	0			126
9	49		13-Nov-17 4:38:39 PM	80	80	90	159	138.1	0			159
10	48		13-Nov-17 4:29:50 PM	80	80	90	120.5	48.9	0			120
11	47		13-Nov-17 3:30:50 PM	80	80	90	195	0	0			195
12	46		13-Nov-17 2:52:45 PM	80	80	90	100.5	0	0			100
13	45		13-Nov-17 2:49:15 PM	80	80	90	99	0	0			99
14	44		13-Nov-17 2:46:06 PM	80	80	90	98	0	0			98
15	43		13-Nov-17 1:27:22 PM	11.212	8.09	7.6	8.2	0	0			8
16	42		13-Nov-17 1:17:35 PM	11.421	5.041	8.7	9.3	0	0			9
17	41		13-Nov-17 1:07:40 PM	9.929	9.114	5.8	5.9	0	0			6
18	40		13-Nov-17 12:57:01 PM	6.578	3.248	6	6.4	0	0			6

INPUT

INPUT

All input settings are set here. Test Unit, Result Unit, Break Checking, Set Load, and Set Disp., whether to use extensometer or not, if proof load required set percentage for proof load, Test Direction and all other input parameters like test type, specimen, shape etc. Graph



REPORT

After each testing the report will be auto generated and saved into specified folder. User can generate a report directly from testing window and from history. range settings also here.

COMPANY NAME

Address

Contact number

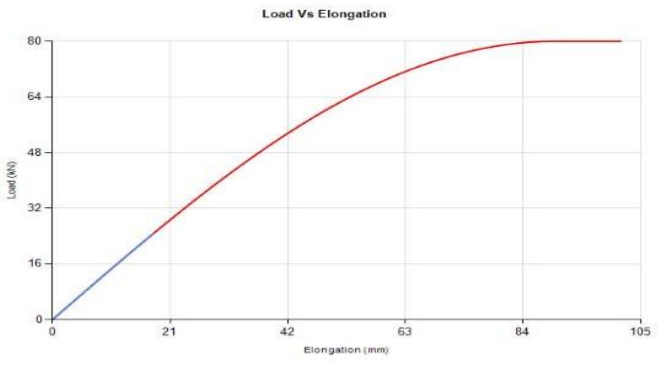
COMPONENT CERTIFICATION LAB

TEST REPORT

Test Report No.: 300 **Test Date:** 14-Dec-17 12:03:02 AM

TEST PARAMETERS

1. Reference Standard :	ROD
2. Docket No. :	Bss
3. Test Speed (mm/min) :	50
4. Test Sample :	SAMPLE ROD
5. Material :	MILD STEEL
6. Title of Test :	TENSILE
7. Sample ID No. :	J5216
8. Area (mm²) :	



TEST RESULTS

Sample No	Max. Load (N)	Max. Displacement / Stroke(mm)	Tensile Strength (N/mm²)	Elongation (%)	Measured Value of Test Piece		
					Thickness (mm)	Width (mm)	Length (mm)
1	80 kN	101 mm		101			
2	24.721 kN	17.5 mm		18			

Tested By,	Checked By,

FORMATE

EXCEL

User save raw test data into excel file using this option. TEST

REPORT FORMAT

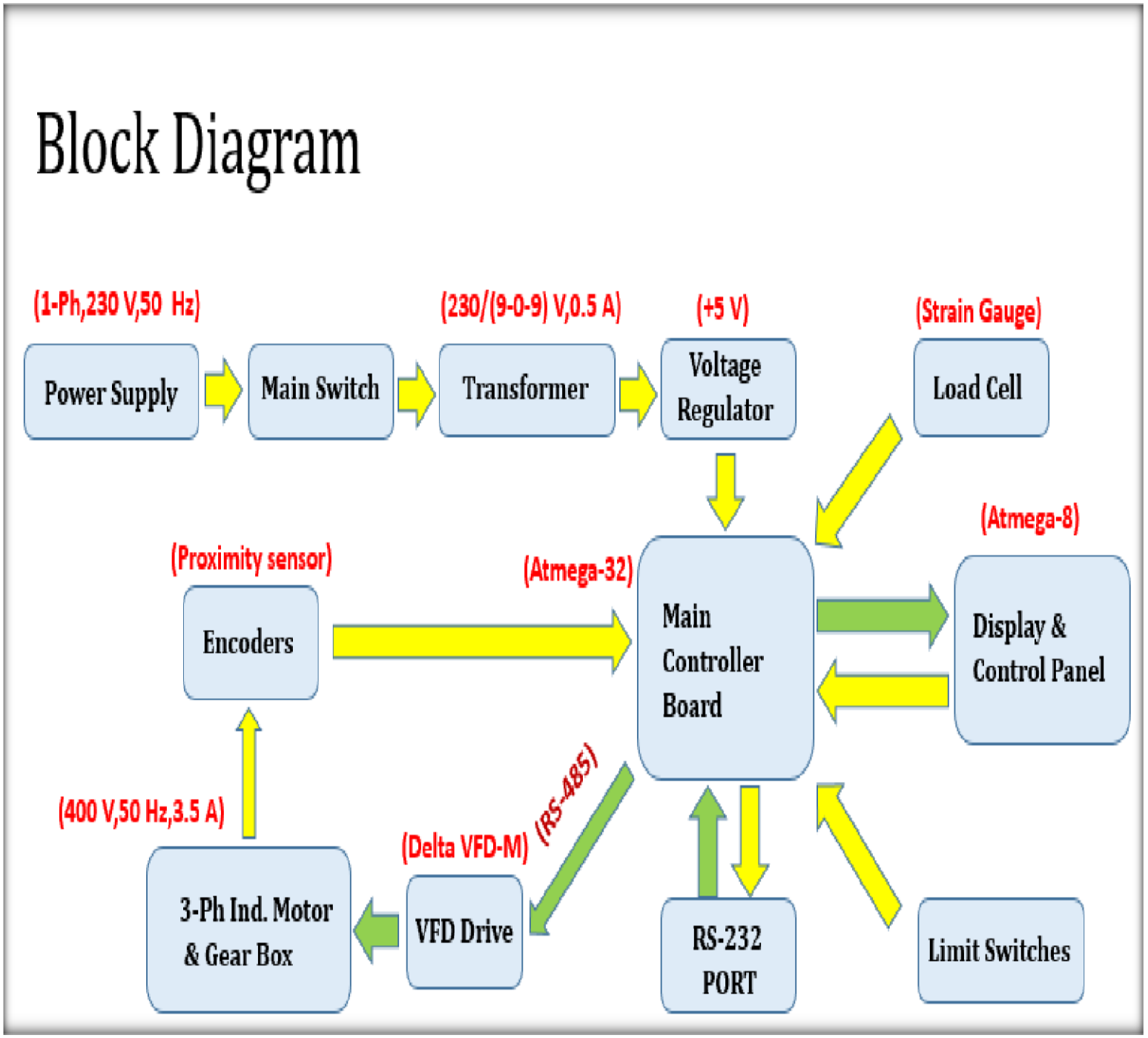
EXCEL ,PDF, WORD.

Test can be done in stroke or strain control. Online graphs of stress vs strain load vs displacement. Option to save the test profiles. Auto data acquisition settings, option to view multiple test graph in one plot. Option to run test in dual rate.Option to remove the extensometer and continue the test in stroke control.Option to stop the test after specified percentage load drop. Limit Settings on stroke, strain and load channels, offline post processing program to analyze the results in MS excel PDF and word.

COMPRESSION PLATENS

A set customized platens that directly integrated with the universal grip pull

CONTROL PANEL



Resonance Automation and machines Universal testing machine is closely controlled for sensitivity, accuracy and calibration during every stage of manufacture. Machine is calibrated over each of its measuring range in accordance with the procedure laid down in as per tender specifications.

COMPANY CERTIFIED BY

CERTIFICATE

This is to Certify that the Quality Management System of

RESONANCE AUTOMATION AND MACHINES.

HEAD OFFICE- PLOT NO. 1131, HARI ENCLAVE, KIRARI SULEMAN NAGAR, NEW DELHI-(110086)

BRANCH OFFICE- PLOT NO. H-936, RIICO CHOPANKI INDUSTRIAL AREA, DISTRICT ALWAR, RAJASTHAN- (301707)

has been independently assessed and is compliant with the requirements of

ISO 9001:2015

This Certificate is applicable to the following product or service ranges:

MANUFACTURING AND SUPPLYING OF UNIVERSAL TESTING MACHINE, TENSILE TESTING MACHINE, AND AUTOMOBILE COMPONENTS TESTING MACHINE, LEAKAGE TESTING MACHINE, SPECIAL PURPOSE MACHINE AND ENVIRONMENTAL TEST CHAMBER.

Certificate No.: IN8784IA

Date of initial registration	10 February 2020
Date of this Certificate	10 February 2020
Surveillance audit on or before	09 February 2021
Recertification Due / Certificate expiry	09 February 2023

This Certificate is property of LMS Certifications and remains valid subject to satisfactory surveillance audits.

Director

LMS Certification Limited
35 Park Hill, Huddersfield, HD2 1QG, West Yorkshire, United Kingdom.
Phone : +44 2085550094

VRC
Quality Excellence

CERTIFICATE OF COMPLIANCE

This is to certify that the Product:

HUMIDITY TEST CHAMBER, HOT AIR OVEN, B.O.D INCUBATOR, INCUBATOR SHAKER, SALT SPRAY CHAMBER, COLD CHAMBER

Manufactured by

RESONANCE AUTOMATION AND MACHINES.

HEAD OFFICE- PLOT NO. 1131, HARI ENCLAVE, KIRARI SULEMAN NAGAR, NEW DELHI-(110086)

BRANCH OFFICE- PLOT NO. H-936, RIICO CHOPANKI INDUSTRIAL AREA, DISTRICT ALWAR, RAJASTHAN- (301707)

MACHINERY DIRECTIVE-2006/42/EC

ELECTROMAGNETIC COMPATIBILITY 2004/108/EC

CONSTRUCTION PRODUCTS DIRECTIVE 89/106/EEC

This Certificate is issued under the following conditions:

1. The manufacturer's technical documentation, as required for all devices except devices for self testing and devices has been reviewed and found to comply with the requirements Section 4 & 5.
2. It applies only to the mentioned models of the devices/equipments.
3. The manufacturer is obligated to assure conformity of all the in-vitro devices/equipments of the respective model to the type assessed by the mean of this certificate.
4. Any significant changes in the design or process used to manufacturer the product/equipments or revision to the standards referred above may require special audit by VCS Services Inc.
5. The product liability rests with the manufacturer or his representative in accordance with council directive.
6. After fulfilling the relevant EU legislation requirements, the manufacturer shall affix to each device /equipment, of the above referenced models, CE marking according to the following example:

Certificate No.: VRCS/CE/0245/R01
Date of Initial Registration: 10.02.2020
Date of Issue: 10.02.2020
Date of Expiry: 11.02.2023

Authorized Signatory

The approval is subject to the company maintaining its system to the required standards, which will be monitored by VRC Services Inc. Further clarification regarding the scope of this certificate and the applicability of requirements may be obtained by consulting the organization. Lack of fulfillment of conditions as set out in the Certification Agreement may render this certificate invalid.Any significant changes in the design or process used to manufacturer the products, or revisions to the standards referred above may required special audit by VRCS. Above CE diagram is schematic and is used for reference only.The product liability rests with the manufacturer or his representative in accordance with standards.

CE

M-108,1st Floor, Kanhaiya Kunj, Gole Market, Mahanagar, Lucknow -226006, U.P.-India, E-mail: admin@vrcs.in, Website: www.vrcert.in

CERTIFICATE

This is to Certify that the Medical Devices – Quality Management System of

RESONANCE AUTOMATION AND MACHINES.

HEAD OFFICE- PLOT NO. 1131, HARI ENCLAVE, KIRARI SULEMAN NAGAR, NEW DELHI-(110086)

BRANCH OFFICE- PLOT NO. H-936, RIICO CHOPANKI INDUSTRIAL AREA, DISTRICT ALWAR, RAJASTHAN- (301707)

has been independently assessed and is compliant with the requirements of

ISO 13485:2016

This Certificate is applicable to the following product or service ranges:

MANUFACTURING AND SUPPLYING OF HUMIDITY TEST CHAMBER, HOT AIR OVEN, B.O.D INCUBATOR, INCUBATOR SHAKER, SALT SPRAY CHAMBER, COLD CHAMBER

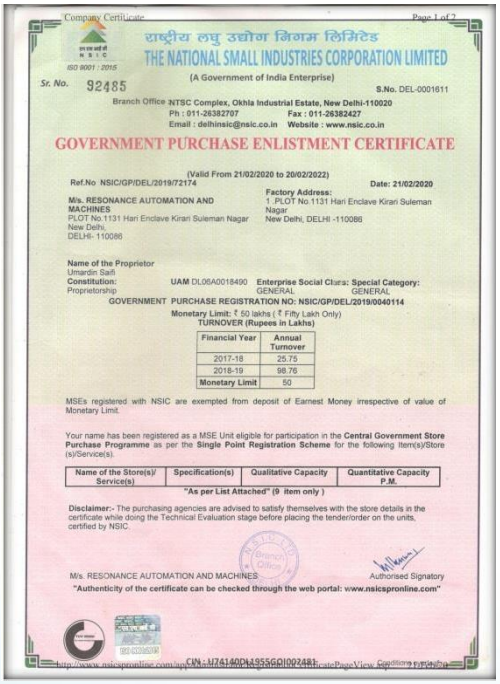
Certificate No.: IN8784IH

Date of initial registration	10 February 2020
Date of this Certificate	10 February 2020
Surveillance audit on or before	09 February 2021
Recertification Due / Certificate expiry	09 February 2023

This Certificate is property of LMS Certifications and remains valid subject to satisfactory surveillance audits.

Director

LMS Certification Limited
35 Park Hill, Huddersfield, HD2 1QG, West Yorkshire, United Kingdom.
Phone : +44 2085550094



Company Certificate Page 1 of 2

राष्ट्रीय लघु उद्योग निगम लिमिटेड
THE NATIONAL SMALL INDUSTRIES CORPORATION LIMITED
(A Government of India Enterprise)

ISO 9001 : 2015

Sr. No. 92485 S.No. DEL-0001611

Branch Office NTSC Complex, Okhla Industrial Estate, New Delhi-110020
Ph : 011-26382707 Fax : 011-26382427
Email : delhinsic@nsic.co.in Website : www.nsic.co.in

GOVERNMENT PURCHASE ENLISTMENT CERTIFICATE

(Valid From 21/02/2020 to 20/02/2022)

Ref.No NSIC/GP/DEL/2019/72174 Date: 21/02/2020

M/s. RESONANCE AUTOMATION AND MACHINES
PLOT No.1131 Hari Enclave Kirari Suleman Nagar
New Delhi,
DELHI- 110086

Factory Address:
1 ,PLOT No.1131 Hari Enclave Kirari Suleman Nagar
New Delhi, DELHI -110086

Name of the Proprietor
Umardin Sarfi
Constitution: Proprietorship
UAM DL06A0018490 Enterprise Social Class: GENERAL Special Category: GENERAL

GOVERNMENT PURCHASE REGISTRATION NO: NSIC/GP/DEL/2019/0040114

Monetary Limit: ₹ 50 lakhs (₹ Fifty Lakh Only)

TURNOVER (Rupees in Lakhs)

Financial Year	Annual Turnover
2017-18	25.75
2018-19	98.76
Monetary Limit	50

MSEs registered with NSIC are exempted from deposit of Earnest Money irrespective of value of Monetary Limit.

Your name has been registered as a MSE Unit eligible for participation in the **Central Government Store Purchase Programme** as per the **Single Point Registration Scheme** for the following Item(s)/Store (s)/Service(s).

Name of the Store(s)/ Service(s)	Specification(s)	Qualitative Capacity	Quantitative Capacity P.M.
"As per List Attached" (9 item only)			

Disclaimer:- The purchasing agencies are advised to satisfy themselves with the store details in the certificate while doing the Technical Evaluation stage before placing the tender/order on the units, certified by NSIC.

M/s. RESONANCE AUTOMATION AND MACHINES

Authorised Signatory

"Authenticity of the certificate can be checked through the web portal: www.nsicspronline.com"

CIN : U74140DL1955GOI002481

Company Certificate Page 2 of 2

राष्ट्रीय लघु उद्योग निगम लिमिटेड
THE NATIONAL SMALL INDUSTRIES CORPORATION LIMITED
(A Government of India Enterprise)

S.No. DEL-0001092

Branch Office NTSC Complex, Okhla Industrial Estate, New Delhi-110020
Ph : 011-26382707 Fax : 011-26382427
Email : delhinsic@nsic.co.in Website : www.nsic.co.in

STORE DETAILS CERTIFICATE

(Valid From 21/02/2020 to 20/02/2022)

ANNEXURE TO GOVERNMENT PURCHASES ENLISTMENT CERTIFICATE

NO. NSIC/GP/DEL/2019/0040114 D.T. 21/02/2020

ISSUED TO M/s. RESONANCE AUTOMATION AND MACHINES, DELHI

PLOT No 1131 Hari Enclave Kirari Suleman Nagar , New Delhi, DELHI-110086

Sno	Store(s)/ Service(s) Name	Specification(s)	Qualitative Capacity	Quantitative Capacity PM
1	HELMATE TESTING MACHINE	IS-4141:2015	2000X400X1600mm	15 PCS
2	HELMATE STRIP TESTING MACHINE	IS-4141:2015	1010X700X1220mm	5 PCS.OR
3	QUICK RELEASE MACHANISMS HELMATE TESTING MACHINE	IS-4141:2015	1000X450X1900mm	5 PCS.OR
4	UNIVERSL TESTING MACHINE	ASTM-E 1856	450X400X1600mm	3 PCS.OR
5	SPECIAL PURPOSE MACHINE 1-LEAK TESTING M/C 2-IMPACT TESTING M/C 3-COMPRESSION TESTING MACHINE 4-CARTRIDGE & CERAMIC LIFE TESTING M/C 5-TORQUE TESTING M/C	MS & SS WITH PLC & HMI PNEUMATICS ITEMS	750X1200X1500mm	1 PCS.OR
6	ENVIRONMENTAL TEST CHMABER	ISO-13485:2016	500X500X1200mm	1 PCS.OR
7	HUMIDITY CHAMBER	ISO-13485:2016	450X450X1000mm	1 PCS. OR
8	B.O.D. INCUBATOR CHAMBER	ISO-13485:2016	450X450X1000mm	1 PCS.OR
9	HOT AIR OVEN	ISO-13485:2016	600X600X1200mm	1 PCS.

SGS-Gurgaon Haryana
Comments / Note
(Optional)

M/s. RESONANCE AUTOMATION AND MACHINES

Authorised Signatory

"Authenticity of the certificate can be checked through the web portal: www.nsicspronline.com"


INDIAN RAILWAYS
भारतीय रेल


DRDO
DEFENCE R&D ORGANISATION
MINISTRY OF DEFENCE


पंजाब यूनिवर्सिटी
PANJAB UNIVERSITY
1947


राष्ट्र की सेवा में परमाणु
ATOMS IN THE SERVICE OF THE NATION
पऊवि
DAE


GUJARAT COUNCIL ON SCIENCE AND TECHNOLOGY
GOVERNMENT OF GUJARAT


वैज्ञानिक तथा औद्योगिक अनुसंधान परिषद
CSIR-INDIA


अखिल भारतीय आयुर्विज्ञान संस्थान रायपुर
ALL INDIA INSTITUTE OF MEDICAL SCIENCES RAIPUR
आरोग्यम् सुख सम्पदा


एनपीसीआईएल
NPCIL


POSTGRADUATE INSTITUTE OF MEDICAL EDUCATION AND RESEARCH CHANDIGARH


राष्ट्रीय परीक्षण शाला
NATIONAL TEST HOUSE
TESTING FOR PROGRESS


INDIAN ARMY
भारतीय सेना


ARMED FORCES MEDICAL SERVICES


Indian Institute of
Chemical Biology
a unit of C.S.I.R.


CENTRAL BUREAU OF INVESTIGATION
INDIA
INDUSTRY
IMPARTIALITY
INTEGRITY
Central Forensic
Science Laboratory


इंडियनऑयल
IndianOil


HAL
भारतीय खाद्य निगम
CORPORATION OF INDIA
Hero
samvardhana motherson
Napino Auto & Electronics Ltd.
Cutwell Abrasives Pvt Ltd
ISO 9001 - Certified
Superior in Performance
UNIQUE
CALIBRATION & MACHINES
TOGETHER WE EXCEL
MHMC
ICAT
Innovation • Service • Excellence
International Centre for Automotive Technology, Manesar
Continental
The Future in Motion
Genus
energizing lives
talbros
Automotive Components
SOMIC ZF
SOMIC ZF Components Pvt. Ltd.
RICO
RICO AUTO INDUSTRIES LIMITED
GSP
JBM Group
Our milestones are touchstones
Saxon Fluid Sealing Devices
senior Flexonics
Napino
KIRAN UDYOD PVT. LIMITED
AMTEK
fmi
Future Market Insights
MUNJAL KIRIU
DESPL
DYNAMIC ENVIRONMENTAL SOLUTIONS PVT. LTD.
IARII

RESONANCE AUTOMATION AND MACHINES

PLOT NO. 1131 HARI ENCLAVE KIRARI SLEMAN NAGAR NEW DELHI-110086

PLANT 2ND H-936 RIICO CHOPANKI INDATRIAL AREA ALWAR RAJASTHAN-301707

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