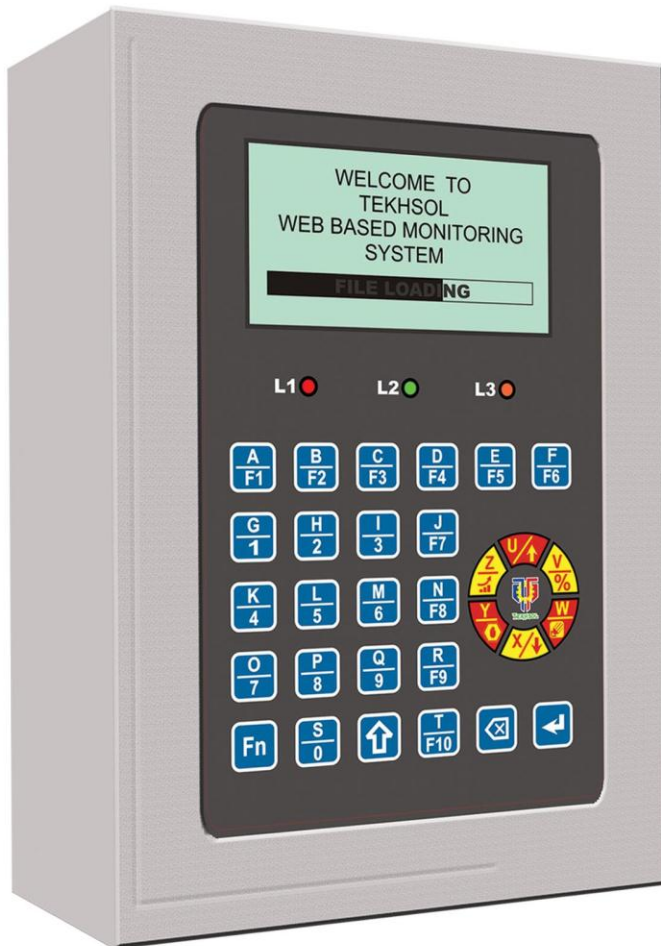




WEB BASED MONITORING SYSTEM

Any Time, Anywhere, Accumulate Data



Production,
Energy, Humidity,
Temperature, Air &
Water Consumption
Monitoring Solutions



Air Flow
Module



Weighing
Scale



Energy Meter



Multilayer
Lamp



Water Flow
Module



PLC



HMI



VFD



Temperature and Humidity
Module



Fingerprint Scanner



RFID Reader



Motion Sensor



Photo Electric
Sensor



Scrolling Display



Proximity
Sensor



Barcode
Reader



TEKHSOL is a well established organization incorporated in the year of 2012. Web Based Monitoring System for Weaving, Spinning, Knitting, TFO, Fabric Inspection, Engineering and other manufacturing industries. TEKHSOL adapt latest technology and design its products indigenously, continuous innovation, value addition, up gradation brings sophistication.

TEKHSOL is a total solution provider in the fields of Web Based Monitoring System. At the R & D level TEKHSOL R & D engineers provides expertise in automation and electronic disciplines offering innovative solution to specialized customer application needs. TEKHSOL believes teamwork, encourage collaborative culture and closely working together. TEKHSOL provides career growth and continuous learning opportunities to work across functions and places. TEKHSOL maintains long term healthy relationship with its customers, technology partners and suppliers.

MISSION

At Tekhsol we work proudly ensuring the principles of client focus and satisfaction through technical excellence, leadership, organizational growth and a motivated human resource to build a long-term association.

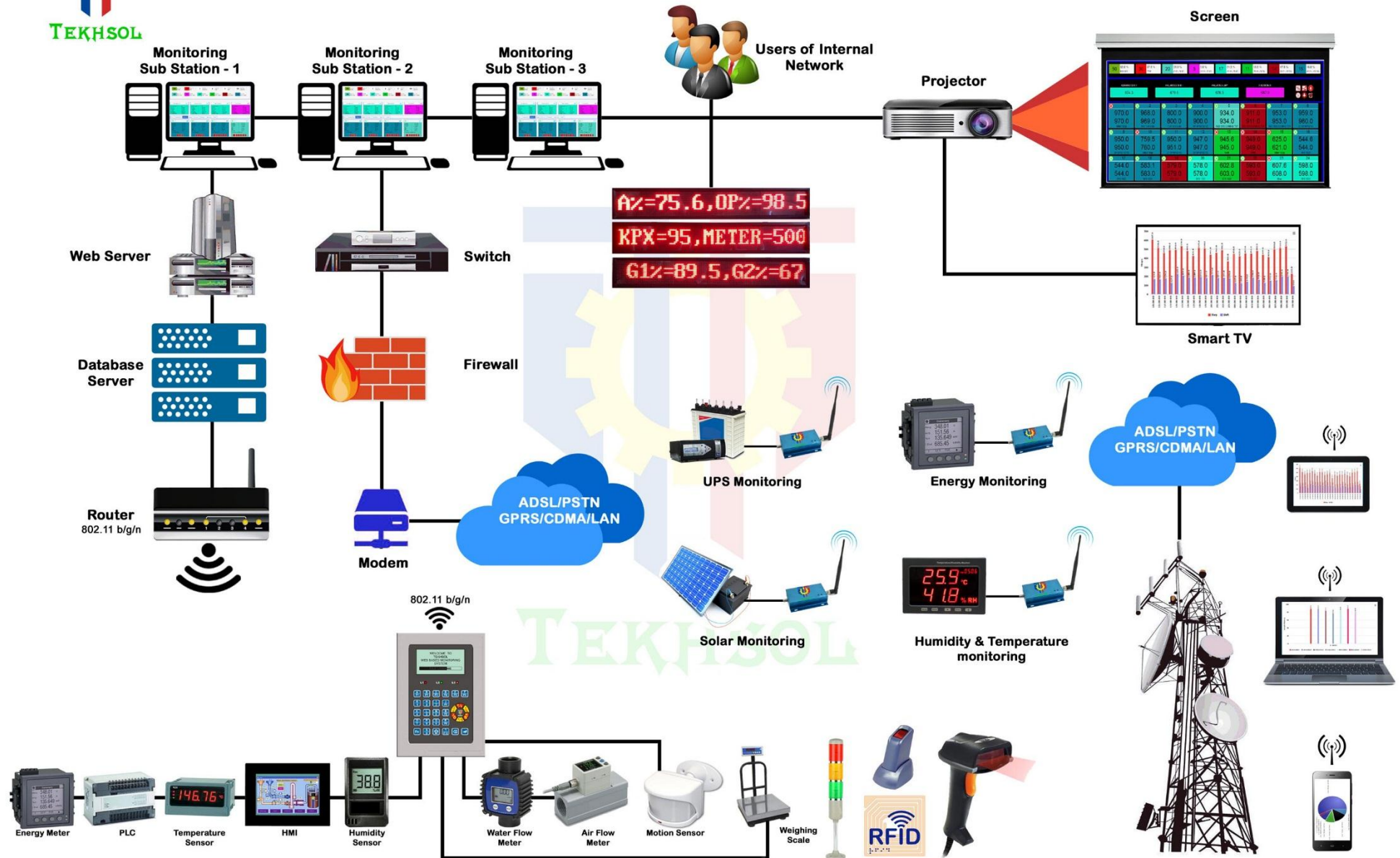
VISION

We strongly believe that people make organizations. This belief makes us to constantly strive for continuous improvements in building our organization as the most reliable and valued IT training and solutions provider. We work towards building our organization to be more diverse to meet global market requirements by achieving high quality standards and be successful in our undertaking.

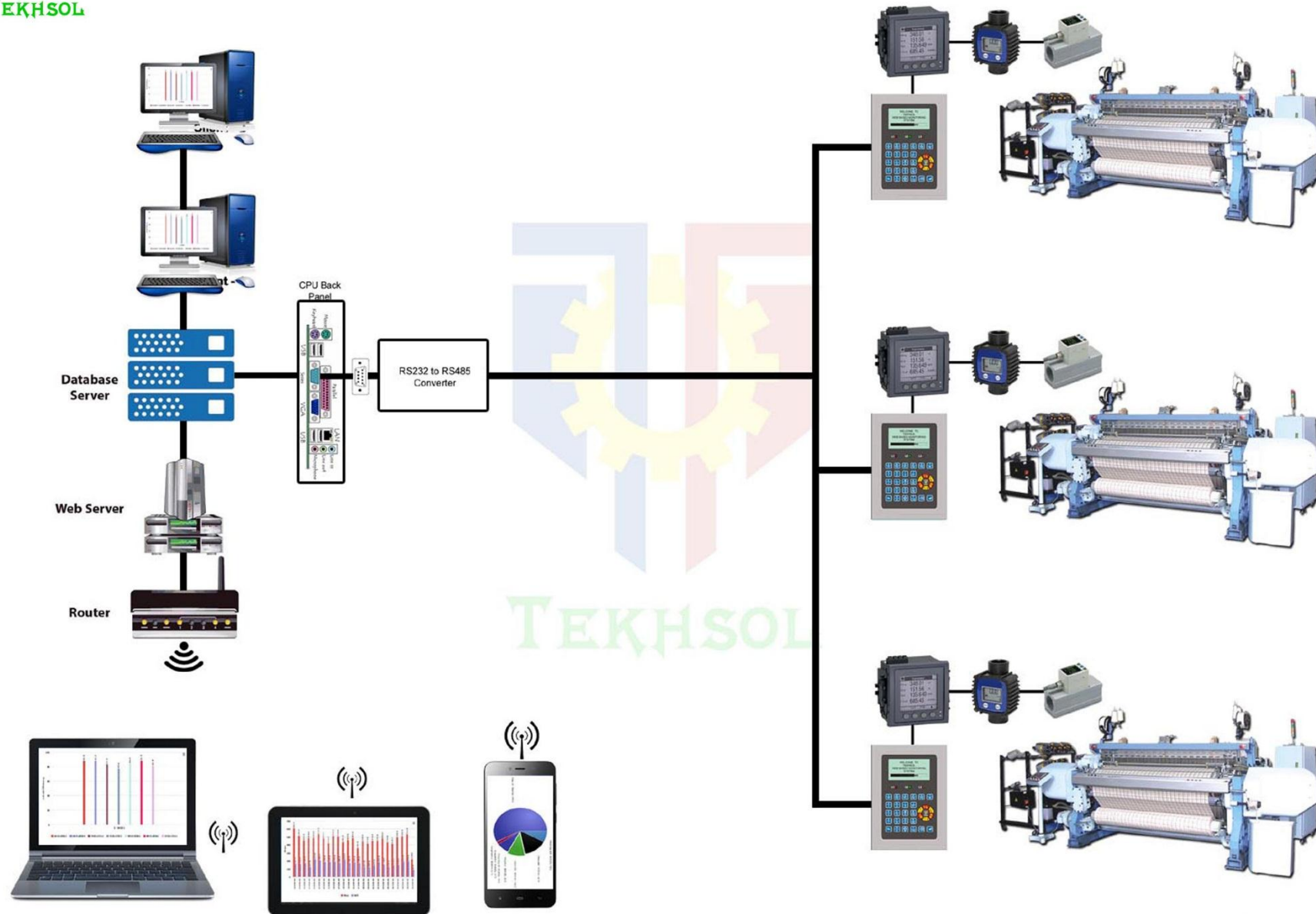
What We Do

We are primarily focused in understanding individual's requirements in terms of reliability, limitations, dynamic response and mainly security thereby providing you the most user friendly and economical solution. Our company has the best team of expertise who handle work maintaining high standards. We strive to give absolutely no chance to our clients for complaints. Perfectionism is what we believe in. As developers we also understand that your need for advancement in technology is very important. Contact us now and we will be obliged to work for you! Lekha is a Technology Solutions company with expertise in Communications and Embedded systems delivering products and services that enable clients to build, manufacture and deploy technologies profitably. Lekha is your 'all-under-single-roof' technology partner offering expertise in the areas of Hardware Board Design, FPGA, Embedded Software, Industrial Design and Design for compliance. Lekha also supports clients with Customization, System integration and manufacturing services.

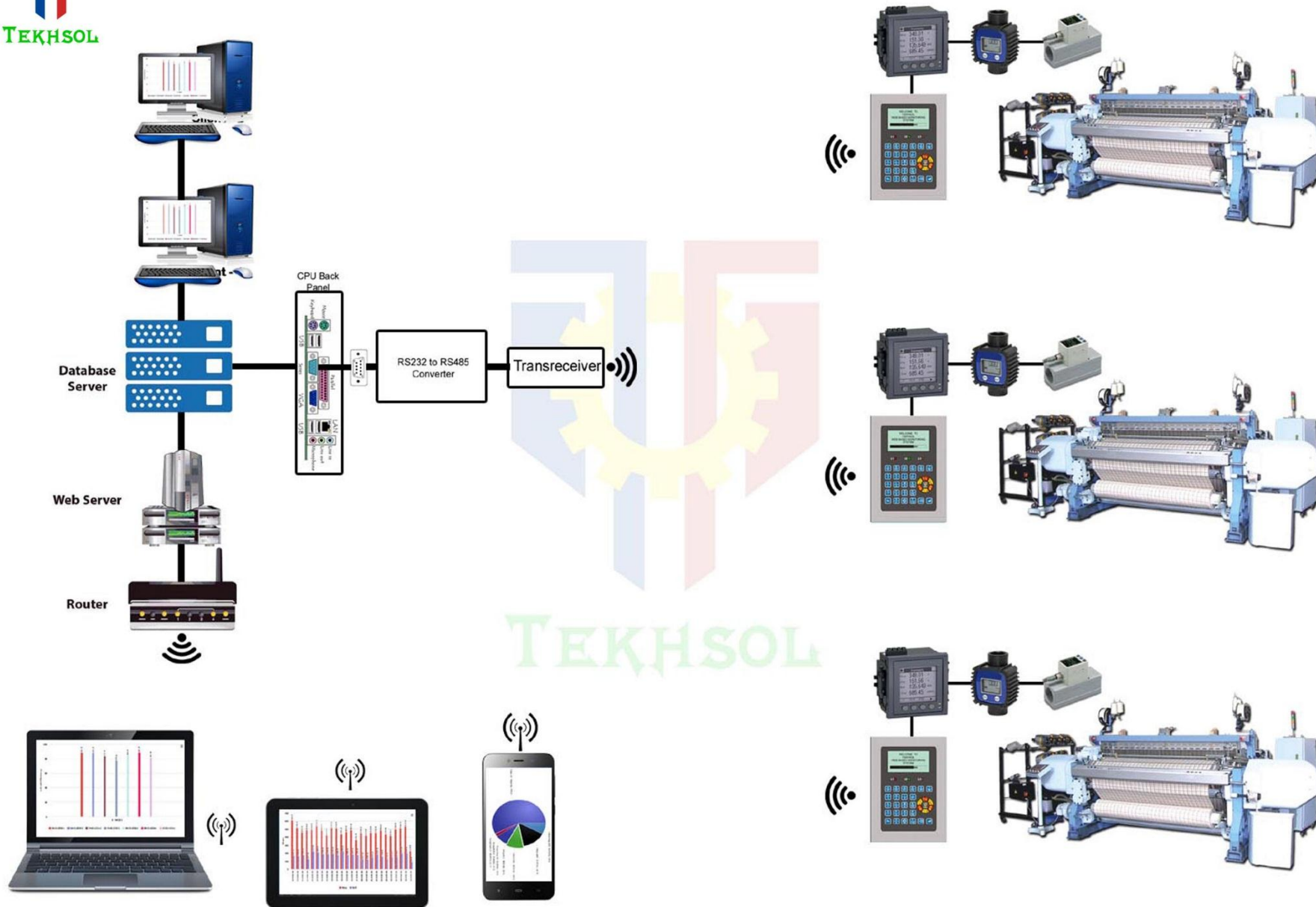
Block Diagram for Web Based Monitoring System



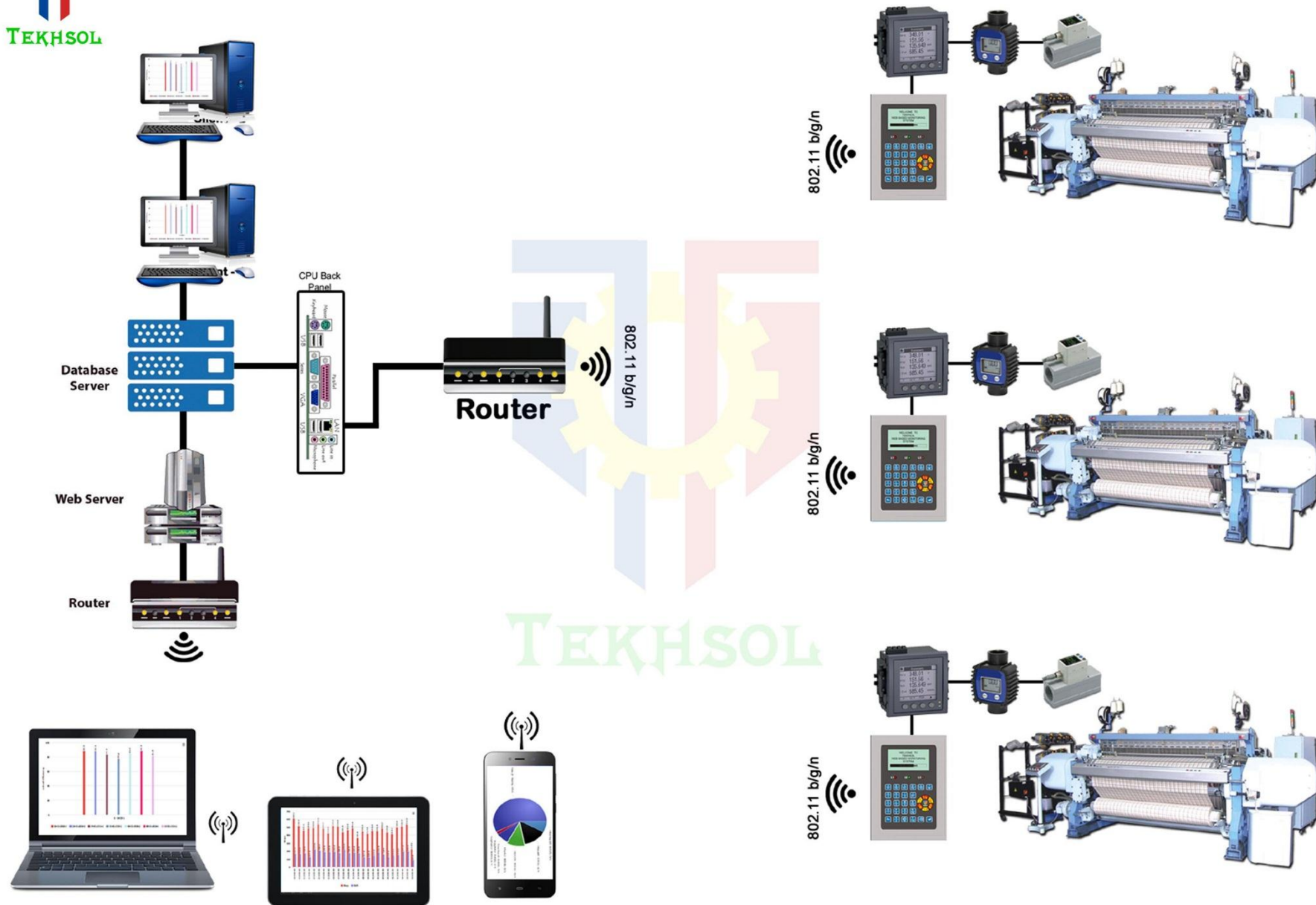
Block Diagram For Wired Communication



Block Diagram For Wireless Communication



Block Diagram For Wireless Communication



Processor	
Processor	High-performance 8-bit Microcontroller 32-bit Microcontroller
Program Memory	64 KB 512 KB
Memory	
Internal Memory	2K bytes Of EEPROM
External Memory	4MB expendable upto 128MB
Operating System	
Operating Firmware	Embedded C RTOS
Display	
Character LCD	20x4 Alpha Numerical LCD 16x4 Alpha Numerical LCD 16x2 Alpha Numerical LCD
Graphical LCD	FSTN Monochrome LCD 128 X 64 with White LED Backlight.
TFT	TFT 3.5" QVGA 320 x 240 Resolutions with 16Bpp Transmissive, Landscape Mode, TFT and adjustable LED Backlight. 4 Wire Resistive Touch Screen Capability
Indicator	Multi Layer Lamp, Three Mono color signal status LEDs
Data Capture	
Keypad Details	6 x 5 Matrix Keypad 6x6 or 4x4 Matrix Keypad USB – HID Class Keyboard
Signals	6 signals
Analog to Digital Conversion	Multi branded ADC input based Air flow sensors, Water flow Sensors and Load cells
RS 485	Multi branded RS 485 based PLC, HMI, Energy Meter, Humidity Meter and Temperature Meter
RS232	Multi branded RS 232 based Weighing Machines and Barcode Readers
TTL	Multi branded TTL based Energy Meter
Sensor	
Proximity sensor	3-Wire DC NPN/PNP Inductive Proximity Sensor
Motion Sensor	The PIR based Motion Detection Sensor
Photo Electric Sensor	Infrared based Object detection
Encoder	Incremental Encoder, Absolute Encoder and CNC Incremental Encoder
Modules Interfacing	
Barcode Reader	USB – HID Class Barcode Readers (Barcodes Code 39, Code 39 Full ASCII, Code 32, Code 128, UCC/EAN-128, Coda bar, Code11, Code 93, Standard 2 of 5, Industrial 2 of 5, Interleaved 2 of 5, UPC/EAN/JAN with Addendum, Telepen, MSI/Plessey, GS1DataBar (RSS) Linear, Linear-stacked)
RFID	RFID reader /writer 13.56Mhz - Compliance to ISO15693, ISO 14443A/B, ISO18000-2
Finger Print	Active Capacitive Fingerprint sensing with high resolution (508 dpi) with Algorithm for Matching 1:1 and 1:N. Active area 256 x 360 pixel (12.8 x 18.0 mm). Air ESD resistance up to (+ or -) 15kV. Thick coat.
GPS	High performance GPS receiver module featuring with weak signal acquisition technology
Data Communication	
Wired	Multi Branded RS485 Communication Multi Branded RS232 Communication Multi Branded TTL Communication
Ethernet	standard IEEE 802.3 @ 10/100 MB / Sec
Wireless	
XBee	IEEE 802.15.4, Frequency: 2.4 Ghz, with Internal / External Antenna.
Wi-Fi	802.11 b/g - Speed 11MB/54 MB per second, Internal / External Antenna, Frequency: 2.4 to 2.5Ghz, Output Power: 100mW US and International
GSM/GPRS	QUAD Band GSM for wide Coverage and global access with GPRS Multi slot Class 10, Class B with TCP/IP communication Protocol and With Internal/External Antenna
Bluetooth	IEEE Standard 802.15.1



Software Features

- * User friendly - User can monitor the industry anywhere from the world through Internet. Integrated information of all Machines at one place.
- * Web Based Monitoring System software is also allows direct input for production and other working details. Which are not censored by Web Based Monitoring System.
- * The management can realize the completeness in computerizing the production activity.
- * Dash board for cumulative display of collected data in a single page. Running and Stoppage machines with their percentage.
- * Monitoring Screen to show current month, Previous Shift, Previous Day and current shift status with easily understandable user friendly GUI.
- * Efficiency wise machines counting with percentage. Instantaneous and Running shift efficiency and production data in the dash board view.
- * Various Reports on Production, Stoppage & Efficiency based on selected criteria. Beam Run out and Beam Analysis report.
- * Performance of any Machine, Design, Beam, Employee or Group can be analyzed at any point of time for any chosen period of working.
- * Real time and past data comparison on Machine, Design, Operator, Technician, Supervisor, Operator Group, Technician Group, Supervisor Group, Warp Supplier, Weft Supplier, Sizing Supplier, Buyer, Order etc.,.
- * Periodical Break analysis and Efficiency Graphs to improve Production and Quality.
- * Production Planning, Beam Planning and Order status Reports.
- * Projected Production information to improve current shift Production & Efficiency.
- * Total working performance of the Mills for a day would be immediately available after the end of the day to the Top Executives.
- * Month end Production report and stoppages analysis reports are immediately available after the month end without any manual preparation.
- * Graphical representation of data with respect to productivity and stoppage are also available for quick and easy understanding of the Mills performance.
- * More than 200 different kinds of reports are available. Each of these reports are carefully designed and are very meaningful to control the production routines in all respects.

Production Details	
Integrated All information about Machines at one Server	
Clarify Weak Areas	Machine Running Time
Actual Efficiency	Production Efficiency
Installed Efficiency	Utilization Efficiency
Instantaneous RPM and Average RPM	Production in Kilo Picks and CMPX
Various Stop Time	Warp Stop with Duration
Minutes / Warp	Warp / Hour
Weft Stop with Duration	Minutes / Weft
Weft / Hour	Other Stop with Duration
Minutes / Other	Other / Hour
Short Stops with Duration	Minutes / Short Stops
Short Stops / Hour	
Run Suppress Pick Concept	
Pick / Runningtime Based Start Attempt	
Start Attempt For Warp Stop with Duration	Minutes / Start Attempt For Warp
Start Attempt For Warp / Hour	Start Attempt For Weft Stop with Duration
Minutes / Start Attempt For Weft	Start Attempt For Weft / Hour
Start Attempt For Others Stop with Duration	Minutes / Start Attempt For Others
Start Attempt For Others / Hour	Start Attempt For Short Stops with Duration
Minutes / Start Attempt For Short Stops	Start Attempt For Short Stops / Hour
Long Stops with Duration like Knotting, Gaiting and etc	
Design Details	Beam Details
Stop Code Details	Operator Details
Technician Details	Supervisor Details
Operator Group Details	Technician Group Details
Supervisor Group Details	
Hour Wise Production(Kilo Picks and CMPX) and Stop(Warp,Weft and Others) Report with Analysis	
Instant alerts for Order Status, Stoppages, Roll-Doff, Beam Runout, etc..	
Production Planning and Order status Reports	Automatic and Manual Roll Doff
Roll Doff Alerts & Reports	Beam Planning
Beam Analysis	Beam Run out
Automatic and Manual Employee Planning and Allocation	Employee Analysis
Dashboard For Immediate Response	Various Types Of Charts Like Line, Bar and Pie
Monitoring Screen For Production, Stoppage, RPM and Operator Details	
Hour / Shift / Day wise /From To Production and Stoppage Reports	
Monthwise Report For Production and Stoppage	
Comparision Report For Any TWO Parameters	
Units/Kgs	

Usage Of Bar Code

Design Details	Beam Details	Stop Code Details
Operator Details	Technician Details	Supervisor Details
Operator Group Details	Technician Group Details	Supervisor Group Details

Multilayer Lamp

To indicate Warp Stop	Weft Stop	Others Stop
Roll-Off Status	Beam Runout Status	

Energy Details

Line Voltage(R Phase, Y Phase, B Phase)
Phase Voltage (RY Phase, YB Phase, BR Phase)
Current (R Phase, Y Phase, B Phase, Total)
Power Factor(R Phase, Y Phase, B Phase, Average - Instantaneous)
Watts (R Phase, Y Phase, B Phase ,Total)
Frequency
VAR (R Phase, Y Phase, B Phase ,Total)
VA (R Phase, Phase, B Phase ,Total)
KWH

Air Flow Details

Running CFM	Stopped CFM	Consumed CFM
-------------	-------------	--------------

Water Flow Details

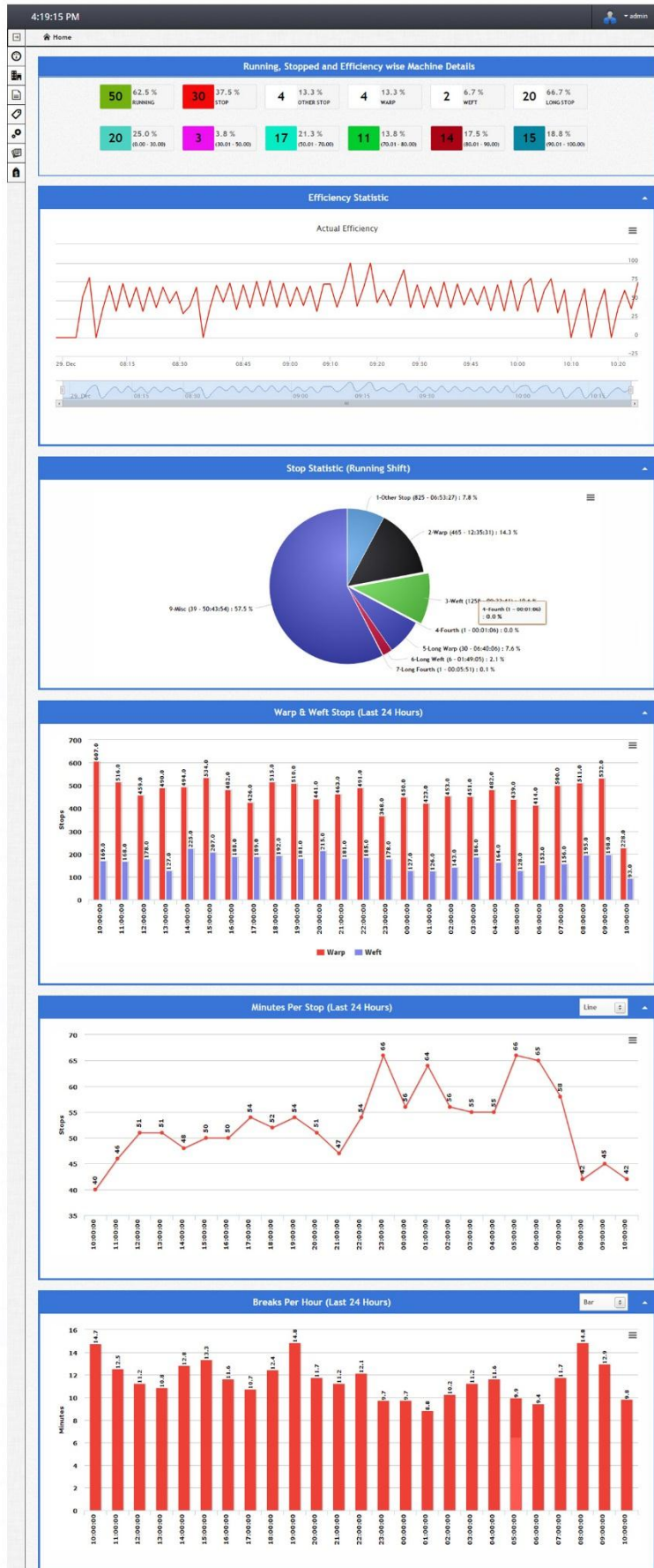
Running LPM	Stopped LPM	Consumed LPM
-------------	-------------	--------------

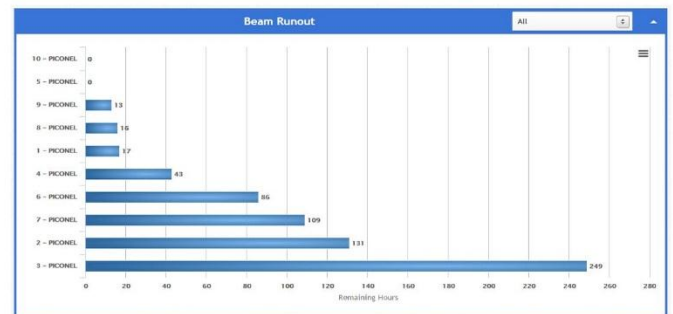
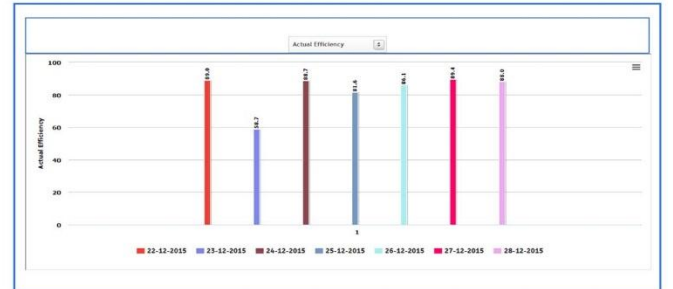
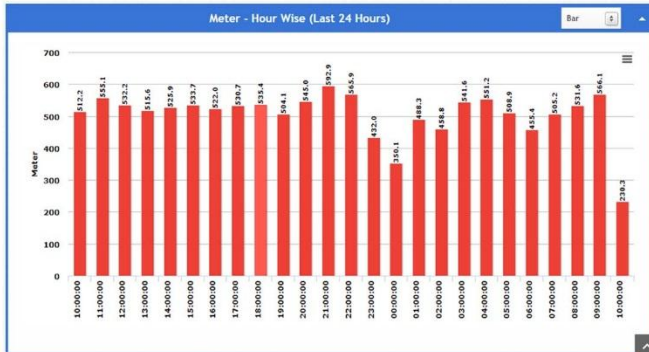
Humidity

Minimum Humidity Value(Rh)	Maximum Humidity	Live Humidity Value(Rh)
----------------------------	------------------	-------------------------

Temperature

Minimum Temperature Value(Celsius)	Maximum Temperature	Live Temperature
------------------------------------	---------------------	------------------





4:22:45 PM

admin

Home / Monitoring

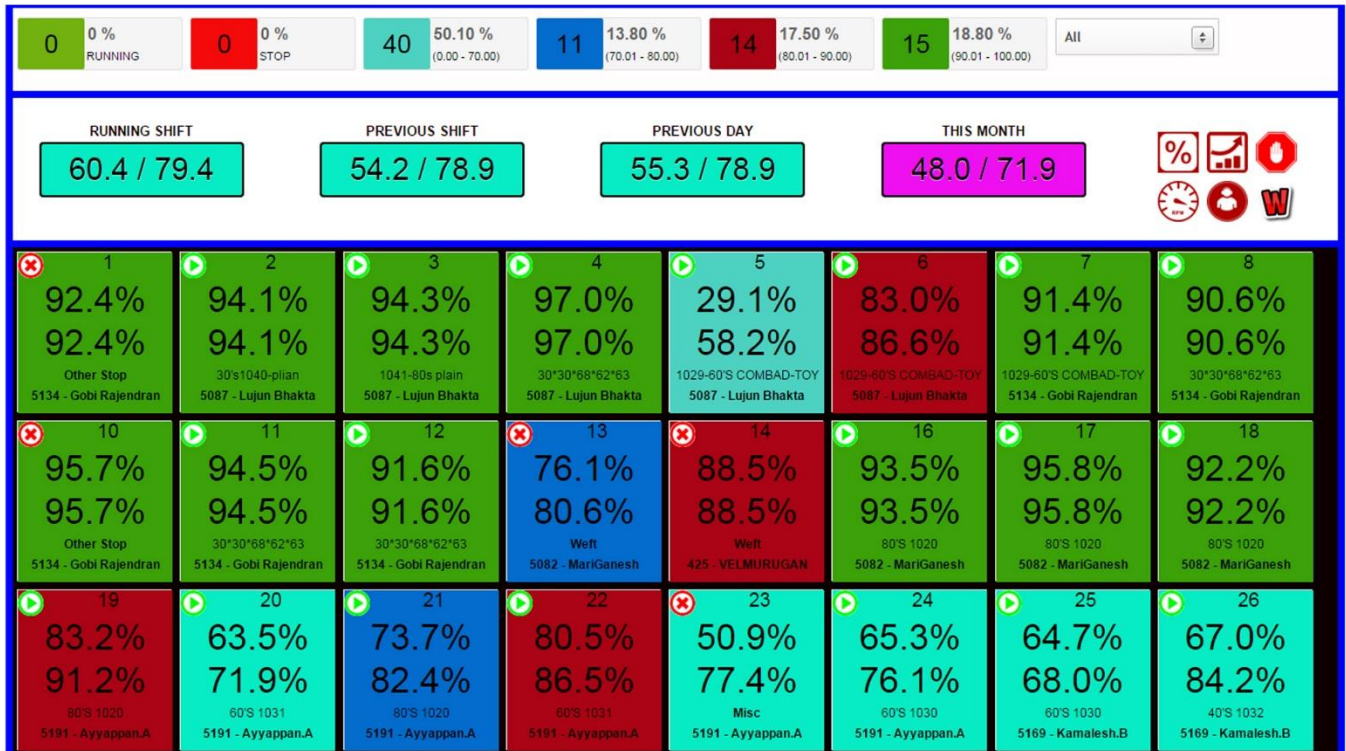
Running, Stopped and Efficiency wise Machine Details



RUNNING SHIFT	PREVIOUS SHIFT	PREVIOUS DAY	THIS MONTH
No.Of.Looms : 80 Act.Eff : 55.80% Prod.Eff : 79.39% Ins.Eff : 32.93% Kilo Picks : 4496.49 Ins.Kilo Picks : 152.96	No.Of.Looms : 0 Act.Eff : 0.0% Prod.Eff : 0.0% Ins.Eff : 0.0% Kilo Picks : 0.0 Ins.Kilo Picks : 5873678.62	No.Of.Looms : 0 Act.Eff : 0.0% Prod.Eff : 0.0% Ins.Eff : 0.0% Kilo Picks : 0.0 Ins.Kilo Picks : 676647777008.92	No.Of.Looms : 80 Act.Eff : 55.61% Prod.Eff : 89.36% Ins.Eff : 39.78% Kilo Picks : 27085.72 Ins.Kilo Picks : 1293.59

Shed	Machine Type	Machine	Design	Operator	Technician	Supervisor	Order
1							
2							
3							
4							
5							
6							
7							
8							
9							
10							
11							
12							
13							
14							
15							
16							

Efficiency



Production





Single Sheet view

RPM

50	62.5 % RUNNING	30	37.5 % STOP	20	25.0 % (0.00 - 30.00)	3	3.8 % (30.01 - 50.00)	17	21.3 % (50.01 - 70.00)	11	13.8 % (70.01 - 80.00)	14	17.5 % (80.01 - 90.00)	15	18.8 % (90.01 - 100.00)
RUNNING SHIFT		PREVIOUS SHIFT		PREVIOUS DAY		THIS MONTH									
674.3		676.5		676.5		682.0									
1	970.0 970.0 Other Stop	2	968.0 969.0 30's 1040-pilan	3	800.0 800.0 1041-80s plain	4	900.0 900.0 30*30*68*62*63	5	934.0 934.0 1029-60'S COMBAD-TOY	6	911.0 911.0 1029-60'S COMBAD-TOY	7	953.0 953.0 1029-60'S COMBAD-TOY	8	959.0 960.0 30*30*68*62*63
9	950.0 950.0 30*30*68*62*63	10	759.5 760.0 Other Stop	11	950.0 951.0 30*30*68*62*63	12	947.0 947.0 30*30*68*62*63	13	945.6 945.0 Welt	14	949.0 949.0 Welt	15	625.0 621.0 Other Stop	16	544.6 544.0 80'S 1020
17	544.0 544.0 80'S 1020	18	583.1 583.0 80'S 1020	19	579.0 579.0 80'S 1020	20	578.0 578.0 60'S 1031	21	602.8 603.0 80'S 1020	22	593.0 593.0 80'S 1031	23	607.6 608.0 Misc	24	598.0 598.0 60'S 1030

Stoppage

0 0 % RUNNING		0 0 % STOP		40 50.10 % (0.00 - 70.00)		11 13.80 % (70.01 - 80.00)		14 17.50 % (80.01 - 90.00)		15 18.80 % (90.01 - 100.00)		All							
RUNNING SHIFT				PREVIOUS SHIFT				PREVIOUS DAY				THIS MONTH				 			
468-00:00 / 1267-00:00				1635-00:00 / 5357-00:00				3628-00:01 / 11311-00:01				91659-3014:51 / 357875-5041:04							
1 1/00:00 26/00:07 Other Stop 5134 - Gobi Rajendran		2 3/00:02 4/00:01 30's 1040-pilan 5087 - Lujun Bhakta		3 3/00:03 6/00:01 1041-80s plain 5087 - Lujun Bhakta		4 2/00:01 6/00:01 30*30*68*62*63 5087 - Lujun Bhakta		5 20/00:24 15/00:04 1029-60'S COMBAD-TOY 5087 - Lujun Bhakta		6 1/00:00 72/00:11 1029-60'S COMBAD-TOY 5087 - Lujun Bhakta		7 1/00:01 40/00:08 1029-60'S COMBAD-TOY 5134 - Gobi Rajendran		8 3/00:02 10/00:04 30*30*68*62*63 5134 - Gobi Rajendran					
10 1/00:00 8/00:01 Other Stop 5134 - Gobi Rajendran		11 1/00:00 15/00:04 30*30*68*62*63 5134 - Gobi Rajendran		12 2/00:01 0/00:00 30*30*68*62*63 5134 - Gobi Rajendran		13 0/00:00 35/00:21 Welt 5082 - MariGanesh		14 0/00:00 13/00:08 Welt 425 - VELMURUGAN		16 0/00:00 24/00:07 80'S 1020 5082 - MariGanesh		17 0/00:00 18/00:05 80'S 1020 5082 - MariGanesh		18 11/00:03 0/00:00 80'S 1020 5082 - MariGanesh					
19 1/00:00 21/00:08 80'S 1020 5191 - Ayyappan.A		20 8/00:13 38/00:18 60'S 1031 5191 - Ayyappan.A		21 6/00:12 8/00:03 80'S 1020 5191 - Ayyappan.A		22 3/00:06 31/00:09 60'S 1031 5191 - Ayyappan.A		23 5/00:06 13/00:06 Misc 5191 - Ayyappan.A		24 8/00:17 10/00:10 60'S 1030 5191 - Ayyappan.A		25 5/00:10 0/00:00 60'S 1030 5169 - Kamalesh.B		26 0/00:00 12/00:10 40'S 1032 5169 - Kamalesh.B					

Machinewise Detail Report On 2016-01-31 Shift:1



Machine	Design	A %	RPM	K.Picks	Mtr	Warp	Time	Warp/Cmpx	Wft	Time	Others	O.S Time	S.Stop	Time	L.Stop	Time
1 - PICONEL	9018 - pc 9018	90.8	877	572.6	346.3	27	00:48:03	4.72	14	00:11:24	3	00:02:17	46	01:04:55	3	00:01:11
2 - PICONEL	9018 - pc 9018	84.1	827	502.9	304.1	56	01:29:30	11.14	21	00:17:04	6	00:05:26	83	01:52:00	5	00:02:52
3 - PICONEL	9018 - pc 9018	90.7	702	456.9	276.3	37	00:50:36	8.10	13	00:10:52	6	00:05:36	56	01:07:04	0	00:00:00
4 - PICONEL	9018 - pc 9018	83.4	877	527.7	319.2	41	01:09:02	7.77	44	00:28:33	10	00:07:24	96	01:47:22	7	00:12:13
5 - PICONEL	9018 - pc 9018	49.3	876	311.7	188.5	51	01:02:47	16.36	79	00:47:59	19	00:10:26	149	02:01:12	13	04:04:31
6 - PICONEL	9018 - pc 9018	85.4	752	462.4	279.7	38	00:59:33	8.22	26	00:18:57	11	00:09:46	76	01:29:51	7	00:15:24
7 - PICONEL	9018 - pc 9018	93.5	777	522.6	316.1	17	00:29:39	3.25	4	00:01:55	4	00:04:22	25	00:35:56	2	00:10:36
8 - PICONEL	9018 - pc 9018	87.6	877	552.6	334.2	27	00:50:39	4.89	25	00:18:06	8	00:06:44	60	01:15:29	3	00:13:27
9 - PICONEL	9018 - pc 9018	88.8	802	512.4	309.9	17	00:30:54	3.32	30	00:26:30	8	00:09:23	55	01:06:47	4	00:13:40
10 - PICONEL	9018 - pc 9018	50.4	852	309.2	187.0	43	01:11:06	13.91	24	00:28:32	5	00:05:22	72	01:45:00	7	04:12:04
		80.4	822	4731.0	2861.3	354	09:21:49	8.17	280	03:29:52	80	01:06:46	718	14:05:36	51	09:25:58

Designwise Detail Report On 2016-01-31 Shift:1



Machine	Design	A %	RPM	K.Picks	Mtr	Warp	Time	Warp/Cmpx	Wft	Time	Others	O.S Time	S.Stop	Time	L.Stop	Time
Design : 9018 - pc 9018																
1 - PICONEL	9018 - pc 9018	90.8	877	572.6	346.3	27	00:48:03	4.72	14	00:11:24	3	00:02:17	46	01:04:55	3	00:01:11
2 - PICONEL	9018 - pc 9018	84.1	827	502.9	304.1	56	01:29:30	11.14	21	00:17:04	6	00:05:26	83	01:52:00	5	00:02:52
3 - PICONEL	9018 - pc 9018	90.7	702	456.9	276.3	37	00:50:36	8.10	13	00:10:52	6	00:05:36	56	01:07:04	0	00:00:00
4 - PICONEL	9018 - pc 9018	83.4	877	527.7	319.2	41	01:09:02	7.77	44	00:28:33	10	00:07:24	96	01:47:22	7	00:12:13
5 - PICONEL	9018 - pc 9018	49.3	876	311.7	188.5	51	01:02:47	16.36	79	00:47:59	19	00:10:26	149	02:01:12	13	04:04:31
6 - PICONEL	9018 - pc 9018	85.4	752	462.4	279.7	38	00:59:33	8.22	26	00:18:57	11	00:09:46	76	01:29:51	7	00:15:24
7 - PICONEL	9018 - pc 9018	93.5	777	522.6	316.1	17	00:29:39	3.25	4	00:01:55	4	00:04:22	25	00:35:56	2	00:10:36
8 - PICONEL	9018 - pc 9018	87.6	877	552.6	334.2	27	00:50:39	4.89	25	00:18:06	8	00:06:44	60	01:15:29	3	00:13:27
9 - PICONEL	9018 - pc 9018	88.8	802	512.4	309.9	17	00:30:54	3.32	30	00:26:30	8	00:09:23	55	01:06:47	4	00:13:40
10 - PICONEL	9018 - pc 9018	50.4	852	309.2	187.0	43	01:11:06	13.91	24	00:28:32	5	00:05:22	72	01:45:00	7	04:12:04
9018 - pc 9018 :		80.4	822	4731.0	2861.3	354	09:21:49	8.17	280	03:29:52	80	01:06:46	718	14:05:36	51	09:25:58
		80.4	822	4731.0	2861.3	354	09:21:49	8.17	280	03:29:52	80	01:06:46	718	14:05:36	51	09:25:58

Beam Runout Report

Machine	Beam	R.Hours	Runout Date	Contrast	Length	A.Date	A.Shift	Length	Warp	Sizing	Design	Set Number	Reed Count	Total Ends	Denar
10 - PICONEL	13445	-1:00:00	01-02-2016 07:30:07	9.0	0	19-01-2016	1	3940	46 - prkash sizing	45 - prkash sizing	9018 - pc 9018	1238	88	7500	40Spc
5 - PICONEL	13444	00:00:00	01-02-2016 07:30:07	9.0	0	19-01-2016	1	4000	46 - prkash sizing	45 - prkash sizing	9018 - pc 9018	1238	88	7500	40Spc
9 - PICONEL	13441	12:57:01	02-02-2016 19:30:07	9.0	152.9	21-01-2016	1	4000	46 - prkash sizing	45 - prkash sizing	9018 - pc 9018	1238	88	7500	40Spc
8 - PICONEL	13442	16:37:59	02-02-2016 23:30:07	9.0	208.3	21-01-2016	1	4000	46 - prkash sizing	45 - prkash sizing	9018 - pc 9018	1238	88	7500	40Spc
1 - PICONEL	13506	17:39:35	03-02-2016 00:30:07	9.0	230.0	22-01-2016	1	4000	46 - prkash sizing	45 - prkash sizing	9018 - pc 9018	1243	88	7500	40*
4 - PICONEL	13443	43:01:52	04-02-2016 02:30:07	9.0	534.5	22-01-2016	1	4000	46 - prkash sizing	45 - prkash sizing	9018 - pc 9018	1238	88	7500	40Spc
6 - PICONEL	13440	86:31:13	05-02-2016 21:30:07	9.0	978.6	22-01-2016	1	4000	46 - prkash sizing	45 - prkash sizing	9018 - pc 9018	1238	88	7500	40Spc
7 - PICONEL	13505	109:48:52	06-02-2016 20:30:07	9.0	1249.6	23-01-2016	1	4000	46 - prkash sizing	45 - prkash sizing	9018 - pc 9018	1243	88	7500	40*
2 - PICONEL	13507	131:50:16	06-02-2016 18:30:07	9.0	1620.2	25-01-2016	1	4000	46 - prkash sizing	45 - prkash sizing	9018 - pc 9018	1243	88	7500	40*
3 - PICONEL	13504	249:01:51	11-02-2016 16:30:07	9.0	2294.8	25-01-2016	1	4000	46 - prkash sizing	45 - prkash sizing	9018 - pc 9018	1243	88	7500	40*

Machinewise (A.Eff) Hour Report On 02-01-2016

#	09:00	10:00	11:00	12:00	13:00	14:00	15:00	16:00	17:00	18:00	19:00	20:00	21:00	22:00	23:00	00:00	01:00	02:00	03:00	04:00	05:00	06:00	07:00	08:00
1 - PICONEL	0.0	0.0	0.0	0.0	0.0	94.2	89.0	90.8	88.7	97.4	89.1	92.3	88.4	95.5	81.8	96.4	89.3	95.1	99.2	90.3	97.3	95.5	81.3	6.8
2 - PICONEL	0.0	0.0	0.0	0.0	0.0	76.0	88.4	92.6	84.4	95.3	94.1	81.2	85.4	85.6	87.6	90.2	90.3	68.4	83.2	87.2	87.7	93.0	76.0	12.5
3 - PICONEL	0.0	0.0	0.0	0.0	0.0	84.5	83.1	66.4	65.4	94.9	96.5	87.6	88.5	91.9	97.6	96.0	93.7	91.8	91.9	97.2	93.5	90.2	79.8	7.6
4 - PICONEL	0.0	0.0	0.0	0.0	0.0	76.3	83.5	82.6	81.9	75.8	83.8	93.8	92.0	87.6	90.6	90.5	78.5	76.6	86.3	88.2	89.8	89.7	83.1	10.4
5 - PICONEL	0.0	0.0	0.0	0.0	0.0	83.2	89.7	88.9	88.0	90.2	94.4	95.9	93.7	93.0	82.8	96.2	97.9	87.4	100.0	95.9	92.2	95.7	83.6	15.3
6 - PICONEL	0.0	0.0	0.0	0.0	0.0	90.6	87.4	87.4	88.5	86.0	94.2	88.6	91.3	94.6	91.7	83.8	72.9	66.2	76.8	66.5	80.1	79.4	64.8	14.1
7 - PICONEL	0.0	0.0	0.0	0.0	0.0	93.0	85.9	79.4	92.4	86.7	84.5	93.9	96.4	88.2	89.4	95.3	38.5	33.3	69.3	86.1	91.9	95.4	85.8	11.8
8 - PICONEL	0.0	0.0	0.0	0.0	0.0	95.9	79.0	87.7	92.3	89.4	90.5	95.6	80.7	83.4	97.0	89.4	91.5	80.4	87.5	92.4	86.0	71.0	64.8	19.5
9 - PICONEL	0.0	0.0	0.0	0.0	0.0	93.6	98.4	98.6	97.1	98.4	88.3	96.4	80.4	97.7	90.5	97.2	94.9	87.4	94.6	96.0	71.7	81.1	73.2	16.2
10 - PICONEL	0.0	0.0	0.0	0.0	0.0	98.7	94.5	90.9	89.6	96.7	95.6	89.9	85.0	91.3	98.9	95.5	88.3	89.1	95.8	94.1	97.5	97.2	78.0	16.5
Total	0.0	0.0	0.0	0.0	0.0	88.6	87.9	86.5	86.8	91.0	91.1	91.5	88.2	90.9	90.8	93.0	83.3	77.2	88.4	89.2	88.8	88.8	77.0	13.0

Machinewise (K Picks) Hour Report On 02-01-2016

#	09:00	10:00	11:00	12:00	13:00	14:00	15:00	16:00	17:00	18:00	19:00	20:00	21:00	22:00	23:00	00:00	01:00	02:00	03:00	04:00	05:00	06:00	07:00	08:00
1 - PICONEL	0.0	0.0	0.0	0.0	0.0	49.4	46.7	47.7	46.5	51.1	46.8	48.5	43.3	50.4	43.0	50.6	46.9	49.9	52.1	47.4	51.6	50.2	42.7	3.8
2 - PICONEL	0.0	0.0	0.0	0.0	0.0	39.4	45.1	45.6	43.0	48.6	48.0	41.4	40.6	43.7	44.7	46.0	46.0	34.9	42.3	44.7	44.7	47.4	39.9	6.4
3 - PICONEL	0.0	0.0	0.0	0.0	0.0	40.5	39.9	31.5	31.4	45.6	46.3	42.0	39.7	44.1	46.8	46.1	45.0	44.1	44.1	46.7	44.9	43.8	39.2	3.9
4 - PICONEL	0.0	0.0	0.0	0.0	0.0	40.0	43.9	43.3	43.1	40.7	44.0	49.2	45.1	46.0	47.5	47.5	41.2	40.2	45.9	46.3	47.6	47.6	45.5	5.5
5 - PICONEL	0.0	0.0	0.0	0.0	0.0	45.1	47.1	46.6	46.2	47.3	49.6	50.3	46.0	49.4	43.9	50.5	51.4	46.0	52.5	50.6	47.8	50.2	45.5	8.0
6 - PICONEL	0.0	0.0	0.0	0.0	0.0	47.5	46.5	46.0	46.5	45.1	49.5	46.5	44.7	50.2	48.1	43.9	38.2	35.1	40.3	37.8	41.7	42.4	34.8	7.4
7 - PICONEL	0.0	0.0	0.0	0.0	0.0	46.0	42.5	39.3	45.7	42.9	41.8	46.5	44.5	43.9	44.2	47.2	20.4	18.0	32.4	40.5	42.9	44.4	41.1	5.5
8 - PICONEL	0.0	0.0	0.0	0.0	0.0	50.3	42.3	46.0	48.4	46.9	47.5	50.2	40.4	43.8	50.9	46.9	48.0	42.4	45.9	48.8	45.1	38.6	36.5	10.3
9 - PICONEL	0.0	0.0	0.0	0.0	0.0	49.1	51.6	51.8	51.0	51.7	46.6	50.6	39.4	51.3	47.5	51.0	49.8	45.9	49.6	50.4	37.6	42.6	40.7	8.5
10 - PICONEL	0.0	0.0	0.0	0.0	0.0	50.3	48.2	46.3	45.7	49.3	49.1	45.9	40.4	46.5	50.4	48.8	45.0	45.5	48.8	48.0	49.7	50.0	42.6	8.5
Total	0	0	0	0	0	457.6	453.8	444.1	447.5	469.2	469.2	471.1	424.1	469.3	467	478.5	431.9	402	453.9	461.2	453.6	457.2	408.5	67.8

Machinewise (Meters) Two Hour Report On 26-02-2016

#	08:00 - 10:00	10:00 - 12:00	12:00 - 14:00	14:00 - 16:00	16:00 - 18:00	18:00 - 20:00	20:00 - 22:00	22:00 - 24:00	00:00 - 2:00	02:00 - 4:00	04:00 - 6:00	06:00 - 8:00
1 - PICONEL	83.5	78.3	69.8	56.2	89	101.1	95.8	101.8	100.7	106.1	89	93.5
2 - PICONEL	63.9	86.2	96.3	98.5	85	85.8	81.5	94.7	78.7	102.4	92.7	82.7
3 - PICONEL	88.2	84.3	91.1	74.2	91.1	96	98.7	99.6	78.2	0	0	57.6
4 - PICONEL	78.6	73.8	94.8	58	104.1	109.6	99.9	109.2	107.8	99	108.7	69.2
5 - PICONEL	89.4	86.6	100	106.2	105	105.9	93.9	106	107.1	16.2	0	0
6 - PICONEL	82.6	84.4	101.6	104.2	100.8	103.5	101.7	94.2	97.3	102.4	89.8	103.2
7 - PICONEL	88.8	77.9	89.5	98.1	86.8	100.2	91.6	101.4	99.4	104.5	95.7	102.3
8 - PICONEL	85.8	87.1	99.6	102.7	98.8	109.6	99.6	104.8	32.6	0	62.3	100.1
9 - PICONEL	82.3	64.8	95.5	103.4	19.3	0.1	71.6	107	90.7	111.1	98.9	108.8
10 - PICONEL	0	0	0	63.1	106.9	104.1	99.2	92.4	103.6	98.7	99.9	111.8
Total	743.1	723.4	838.2	864.6	886.8	915.9	933.5	1011.1	896.1	740.4	737	829.2

Performance Report

Machine wise

Actual Efficiency			89.0 %
Production Efficiency			89.5 %
Kilo Picks	260.0		
Meter	157.3		
Linear Meter	78.6		
No Of Towels	78.6		
Kgs	78.6		
CMPX	2.6		
Warp	18	00:27:05	8.13 %
Weft	6	00:04:09	1.25 %
Other	4	00:03:33	1.07 %
Long Stop	2	00:01:59	0.60 %
Long Stop Details			

Shed wise

Actual Efficiency			86.5 %
Production Efficiency			89.8 %
Kilo Picks	2372.1		
Meter	1434.6		
Linear Meter	717.3		
No Of Towels	717.3		
Kgs	717.3		
CMPX	23.7		
Warp	147	03:16:33	5.86 %
Weft	134	01:22:57	2.47 %
Other	44	00:46:22	1.38 %
Long Stop	19	02:04:05	3.70 %
Long Stop Details			
5 - Long Warp	3	00:28:45	24.41 %
9 - Misc	6	01:28:26	75.09 %
10 - 11	1	00:00:35	0.50 %

Operatorwise Compare Report For Running Shift

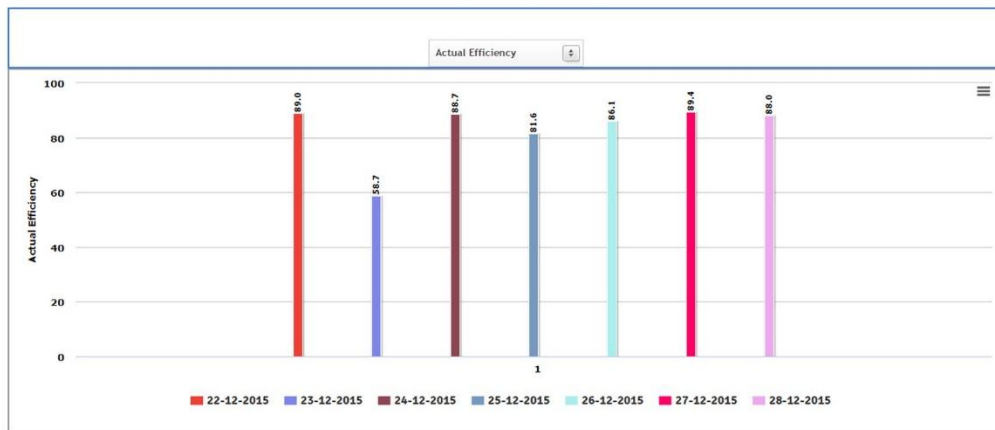
Operator	101 - SIVAKUMAR	105 - RAJASEKAR
Actual Efficiency	90.3 %	80.0 %
Production Efficiency	90.5 %	87.0 %
Kilo Picks	953.3	837.2
Meter	576.5	506.3
Warp	74	53
Warp Time	01:27:24	01:24:47
Weft	45	62
Weft Time	00:25:38	00:40:54
Others	11	25
O.S Time	00:08:06	00:28:23
S.Stops	131	140
S.Stop Time	02:02:24	02:34:04
L.Stops	4	9
Long Stops Time	00:02:31	01:43:11

Machinewise Compare Report For Running Shift

Machine	1 - PICONEL	4 - PICONEL
Actual Efficiency	88.3 %	92.6 %
Production Efficiency	88.9 %	92.6 %
Kilo Picks	244.3	254.9
Meter	147.7	154.1
Warp	18	18
Warp Time	00:27:05	00:17:25
Weft	6	6
Weft Time	00:04:09	00:03:59
Others	4	2
O.S Time	00:03:33	00:00:44
S.Stops	28	27
S.Stop Time	00:34:47	00:23:24
L.Stops	2	0
Long Stops Time	00:01:59	00:00:00

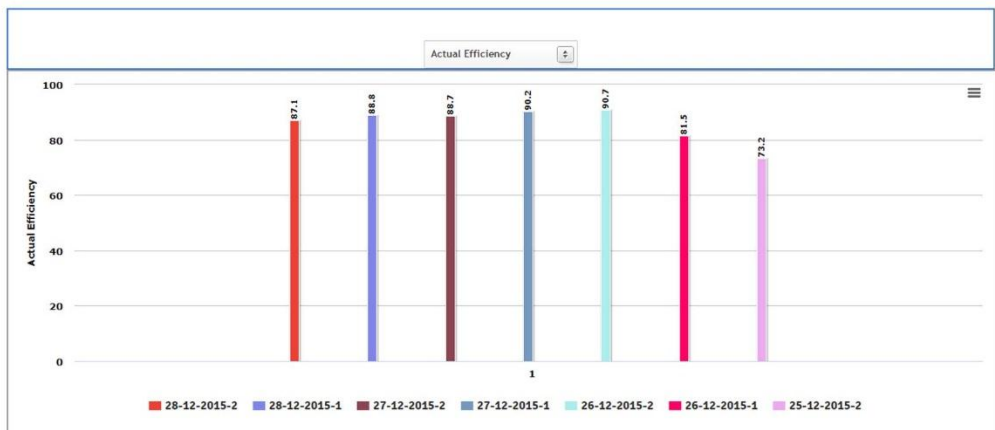
Machine And Day wise Production Report From 22-12-2015 To 28-12-2015

Date	A %	P %	K.Picks	Meter	Warp	Min/Wp	Wefl	Min/Wf	Others	O.S Time	S.Stop	Time	L.Stop	Time
22-12-2015	89.0	91.1	1255.2	522.6	6	01:59	219	00:25	42	00:13:35	289	02:06:02	3	00:33:27
23-12-2015	58.7	90.6	869.3	362.0	8	01:19	187	00:19	63	00:38:16	242	01:44:30	4	10:01:12
24-12-2015	88.7	89.4	1206.6	502.5	9	00:53	263	00:21	66	00:44:21	338	02:27:56	2	00:10:47
25-12-2015	81.6	89.6	1136.2	473.9	4	00:49	240	00:25	66	00:27:43	313	02:16:37	3	02:06:41
26-12-2015	86.1	88.7	1203.0	500.9	15	01:09	210	00:25	97	00:49:59	327	02:38:43	7	00:41:20
27-12-2015	89.4	90.3	1249.8	520.4	14	01:31	217	00:25	40	00:26:01	272	02:19:06	2	00:12:48
28-12-2015	88.0	91.3	1226.8	510.4	15	01:30	180	00:28	35	00:21:48	210	02:00:55	4	00:52:00
1 -	82.4	90.1	8147.8	3392.7	71	01:18	1476	00:24	409	03:41:43	1971	33:49	26	14:40:15
	82.4	90.1	8147.8	3392.7	71	01:18	1476	00:24	409	03:41:43	1971	15:33:49	26	14:40:15



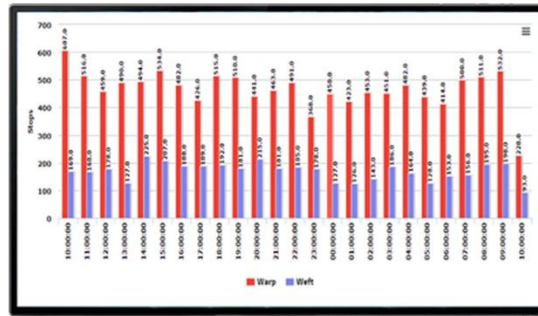
Last Seven Shift -> 1 - TOYOTA 190 Production Report

Shift Details	A %	K.Picks	Warp	Time	Wefl	Time	Others	O.S Time	S.Stop	Time	L.Stop	Time
25-12-2015-2	73.2	510.3	1	00:01:15	105	00:49:49	28	00:11:53	136	01:03:57	3	02:08:41
26-12-2015-1	81.5	569.0	11	00:11:44	101	00:44:48	78	00:39:00	192	01:37:50	6	00:35:21
26-12-2015-2	90.7	633.9	4	00:05:32	109	00:43:33	21	00:10:59	135	01:00:53	1	00:05:58
27-12-2015-1	90.2	629.7	6	00:08:05	112	00:43:22	23	00:12:47	141	01:04:14	1	00:06:38
27-12-2015-2	88.7	620.1	8	00:13:09	105	00:47:20	17	00:13:14	131	01:14:52	1	00:06:09
28-12-2015-1	88.8	617.0	7	00:07:48	66	00:36:28	20	00:14:01	93	00:58:17	3	00:21:34
28-12-2015-2	87.1	608.8	8	00:14:43	94	00:40:08	15	00:07:47	117	01:02:36	1	00:30:26
1 - TOYOTA 190	85.7	4188.8	45	01:02:19	692	05:05:28	290	01:49:41	945	08:02:41	16	03:54:49





Add On Features



TEKHSOL as a company focused on providing the highly accurate and reliable industrial monitoring and control systems for all industries through innovated sensors and technologies. We apply the best possible technologies at very affordable cost and so the every customer can implement the monitoring and control systems.

We automating the Managements information Systems with Live and Practical data with very high accuracy towards helping the management peoples to take precious decision based and data science and verification of the decision by themselves.

Monitoring system helps the decision makers to choose the right operating point in production setting versus energy cost to optimize the profit and select profit efficient process setting, spare parts selection and spare parts life cycle determination.

We focused on factory automation through the automatic data collection and automatic data analyzing and implementing automatic control towards achieving the maximum cost control and improve profit efficiency to maximum possible level.

Human interfaces like touch screen. Reporting system with wider information sharing base like Clients support, Support on tablets.

Implemented with various alarms through SMS, Auto Email, Deviation Reports, Easy programmable Act on Alarm system helps the customer to avoid various losses and prevent accidents.

Head Office

226, No. 4, Shanthi Complex, G.N. Mills, MTP Road, Coimbatore - 641 029

Phone : 0422 - 2645844 | Mobile : +91 73390 00601/2/3, +91 95431 97197

Web : www.tekhsol.com | Email : info@tekhsol.com