

Centre for Railway Information Systems
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2007/CRIS/NDLS-HQ/CMS/Project//Rollout-II/0030/ Pt-I

Date 27-12-2018

CAO/FOIS
CRIS Complex, Chanakyapuri,
New Delhi.

Sub: Updated Specification of Lobby TSS equipment with Breath Analyzer, Bio-metric and Camera devices

Ref: In supersession to this office letter dated 10-05-2016, 02-12-2015, 22-12-2014 & 05-06-2017, the following updated specifications issued

1. Railways have been asking for latest specification for Lobby Terminal Support System (TSS) equipment including Breath Analysis and Biometric equipment. This specification can be used for procurement or replacement of old aged equipment which have outlived useful life.
2. Latest Specification of lobby equipment is enclosed as 'Annexure A'.
3. Lobby equipment may be procured to latest specification issued by CMS for smooth operation. Copy of the letter along with specification is available on CMS Report page (FOIS IP: <http://10.60.200.168/CMSREPORT>). This is also available on CMS internet reports. (cms.indianrail.gov.in/CMSREPORT)
4. CRIS has developed its own Linux based thin client image ver 3.3.1 with integration of latest Breath analyser, Biometric and camera devices. Railways are required to use the **latest client image** in all thin clients (particularly at kiosk) being used in lobby for seamless experience. Salient features of CMS Client image and related functions in CMS application are enclosed as 'Annexure B' (also available at <http://10.60.200.168/thinclient/>)
5. Railways procuring lobby equipment themselves should get the client software on a self bootable pen drive from CRIS for loading it on thin clients. Alternatively they can authorize the vendor with the PO for supply of lobby equipment to collect the image from CRIS on their behalf for loading.
6. Link to video instructions on the following is available on CMS (FOIS IP: <http://10.60.200.168/thinclient/>). This is also available on CMS internet reports. (cms.indianrail.gov.in/CMSREPORT)
 - 6.1. How to Download CMS client image and make a bootable pen drive
 - 6.2. How to install downloaded image from a bootable pen drive.
 - 6.3. How to configure CMS thin client with CMS image
7. It is noted that some of the vendors are using their local software at lobby TSS equipment. This results in compatibility issues with CMS central server application and causes failure or misbehaviour of CMS application. Vendor should not use their own client application for TSS equipment at lobby and shall use only CRIS CMS image for lobby TSS equipment. Any local software shall not be supported by CRIS CMS. Lobby equipment not conforming to CRIS specification may also misbehave.
8. Following devices only have been integrated and tested in the CRIS CMS client image

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8.1. Breath Analyser device*

Supplier	Model No	OEM	Type
Tayal Traders	KATS	Tayaltech make	Fuel Cell
Tayal Traders	ALPHA	Tayaltech make	Fuel Cell
QTel Comtech Ltd.	QBA-01	QTel Comtech Ltd.	Fuel Cell
Preksha Enterprises	DIAMOND	Preksha Enterprises	Fuel Cell
Preksha Enterprises	NARSIMHA	Preksha Enterprises	Fuel Cell

Note:

- I. Note: It is to ensure that the specification of Breath analyser equipment is in conformance to test reports conforming to RDSO specification no RDSO/2015/EL/SPEC/0119(Rev'2') dt 15-03-2018 from reputed laboratory such as NABL/ILAC.
- II. Regular Calibration of BA devices is required annually. Railway has to get the devices calibrated by respective BA OEM's once warranty of the device is over.

8.2. Biometric Device*

Supplier	Model No	OEM	Type
Any	HSDU03P	Secugen technologies	Finger Scanner
Any	HU 20	Secugen technologies	Finger Scanner
Any	HFDU06	Nitgen technologies	Finger Scanner

8.3. Touch Monitor Panel

Supplier	Model No	OEM	Type
Palas Software Pvt Ltd	170PCUM	3M	Surface Capacitive
AgmatelIndia Pvt. Ltd.	RTL173	General Touch	SAW
Tayal Traders	TAYAL2019	Tayaltech	SAW
Qtel Comtech Ltd.	PM17SCAP0	Qtel	Surface Capacitive

8.4. Camera*


Supplier	Model No	OEM	Type
Any	C270	Logitech	USB camera

* No other model is tested on CMS for integration. In case, Railways propose to buy any other make, it may be tested for integration on CMS by CRIS.

8.5. Devices other than those mentioned above may not work satisfactorily with CRIS client software

8.6. For any other make of Biometric or BA devices, supplier shall provide suitable Linux and windows driver and shall also arrange for SDK kit (along with Technical know-how) for integration of the device in CRIS Image. Device can be used only after its integration in client software and successful trials by CRIS

9. It has been observed that Railways are required to test the BA device on a daily basis. Standard test kit for positive testing of BA devices have been developed by M/S Tayaltech, M/S Qtel and M/s Preksha Enterprises. These test kits have been tested by CRIS at CMS KIOSK and also at different lobbies and found satisfactory. It is recommended that Railways may use these standard test kits for positive testing of BA devices in order to avoid the malfunctioning of devices due to use of non-standard alcoholic mixture.
10. The likely suppliers are enclosed as 'Annexure C'.
11. Details may please be circulated to Railways to facilitate procurement by them.


(R K Chaudhary)
GGM / Elect.

DA: As above

Copy

1. Adviser Elect. (RS) / Railway Board, Room no 361, Rail Bhavan, Raisina Road, New Delhi, for kind information.
2. ED/C&IS/Railway Board, Room no 461, Rail Bhavan, Raisina Road, New Delhi, for kind information.
3. EDME (Tr), Railway Board, Room No 323, Rail Bhavan, Raisina Road, New Delhi, for kind information.

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Technical Specifications for Lobby TSS equipment for CMS

1. Thin Client with accessories

S. No.	Item	Requirement
i.	Make	HP, IBM, DELL, HCL, SUN, VXL, THINVENT, Lenovo, Fijitsu, Breeze, Tayaltech or Equivalent
ii.	Processor	Minimum 1.86 GHz Dual Core x86 processor or better
iii.	Main Memory	Minimum 4 GB DDR3 Memory, Expandable to 8 GB Memory or higher
iv.	Flash ROM	Thin Client- Minimum 8 GB SATA/mSATA Flash Expandable to 16 GB Flash or higher NUC- Min 32 GB SSD, Expandable to 64 GB SSD or higher
v.	Operating System	Customized Linux OS (provided by CRIS as part of Client Image)
vi.	Operating System Compatibility	Option to change the OS from Linux to Windows Embedded Standard 8 or better (provisioning of other OS not in the scope)
vii.	Network Interface card	10/100/1000 Mbps, LAN auto sensing, NIC RJ45
viii.	Parallel port	Optional
ix.	Serial port	Optional
x.	Power Supply	External
xi.	USB 2.0 port	6 (minimum 4 no. integrated on board),
xii.	Resolution	Support 1600 X 1200 Resolution at 32 bit colour depth or higher
xiii.	Power Consumption	Less than 40 watts including LCD/LED Display
xiv.	Expansion Slot	Optional
xv.	Pen Drive	Pen drive loaded with CRIS provided Self bootable client image for Linux and windows with the following specification – (i) 4 GB or higher USB 2.0 (ii) Standard Flash Drive (iii) Make-SanDisk, Moser Baer, HP, Transcend or equivalent (iv) Supporting Windows XP Embedded, Windows CE, or Windows Embedded Standard, Linux v.2.6.x&Customized Linux OS (provided by CRIS as part of Client Image)
xvi.	Linux and Client Image	Loading of Image (OS with client application) as provided by CRIS and its testing for proper integration with peripherals supplied with this tender.
	Thin Client Accessories	
i.	Display	17" LCD/LED monitor for standalone Thin client as per item no 1.1 of technical specification 17" LCD/LED with touch screen for Thin client for kiosk as per item no 1.2 of technical specification
ii.	Keyboard	104/107 Keys Standard USB Keyboard with keyboard skin for standalone Thin Client Compact USB keyboard or wireless USB keyboard for kiosk
iii.	Pointing Device	Standard Optical USB Mouse with Mouse pad for Thin Client Compact USB mouse or wireless USB mouse for kiosk

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1.1. LCD / TFT Display (For Thin Client)

S. No.	Item	Requirement
i.	Type	17" or higher LCD/LED monitor
ii.	Horizontal Viewing Angle	90 degree or more
iii.	Vertical Viewing Angle	65 degree or more
iv.	Aspect Ratio	4:3 or 5:4
v.	In-built speakers	optional
vi.	Luminance	250 Cd/m ² or more
vii.	Contrast Ratio	600:1 or more
viii.	Colours supported	16.7 million
ix.	Native resolution	1280X1024 or more (should also support 800X600)
x.	Security	Kensington Lock
xi.	VESA mount	Yes
xii.	Energy Star	Yes

1.2. Touch screen LCD / TFT Display (For Kiosk)

S. No.	Item	Requirement
i.	Type	17" LCD/LED monitor
ii.	Aspect Ratio	4:3 or 5:4
iii.	Luminance	250 Cd/m ² or more
iv.	Contrast Ratio	600:1 or more
v.	Colours supported	16.7 million
vi.	Native resolution	1280X1024 or more (should also support 800X600)
vii.	VESA mount	Yes
viii.	Energy Star	Yes
ix.	Protection	IP54 rating or above
x.	Response time	6ms or less
xi.	Touch screen properties	
a.	Touch Screen Construction	Conductive coating on glass with ClearTek or similar hard coat and top coat / SAW (Surface Acoustic Wave) type
b.	Glass Thickness	3.1 mm ± 1mm
c.	Durability	Greater than 225 million touches
d.	Viewing Angle	H ±65: V +50/-60 degrees
e.	Activation	Bare Finger
f.	Operating Temperature	Touch Screen -40 to 70° C
g.	Mounting	To be integrated with the monitor with preferably IP54 rating
h.	Light Transmission	91.5% (±1.5 %) light transmission
i.	Touch Resolution	2K x 2K or more
j.	Surface Scratch Hardness	Exceeds severe abrasion test per MIL C675C Scratches by pick of Moh's hardness rating less than 7 should not affect performance
k.	Accuracy	Within 1% of true position
l.	Surface Obstructions	Not affected by surface contaminants like dirt, dust, grease, liquids
m.	Chemical Resistance	Resistant to corrosives as per ASTM-D-1308-02 and ASTM-F-1598-95
n.	Controller Electronics	ESD +/- 8KV Contact, +/- 27KV Air, MTBF > 7,00,000 hrs USB power consumption < 75 mA, 5V DC, UL, FCC-B, CE compliant

2. Off-Line UPS (Stand Alone Type)

SN	Description	Specification
1	Power Rating	500VA/ 1 KVA, 300 Watt
2	Technology	Line Interactive
3	Operating Mode	Stand Alone
4	Input Specifications	
i	Single Phase AC Input	165 Volts to 275 Volts on full load

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ii	Input Frequency	50 Hz +/- 5%
5	Output Specifications	
i	AC Output Voltage	Single Phase 230Volts +/- 2%
ii	Wave Form	Modified/Stepped/Quasi sine wave
iii	Output Frequency	50Hz +/- 0.5% (constant Frequency)
iv	Output Power Factor	>+0.6 at full load
v	Overload Capacity	125% for 1 min
6	Battery	
i	Type	Sealed Maintenance free
ii	Backup	As per Battery
iii	No. and AH capacity	2 No., 12 Volt, 7AH
7	Visual Indications	
i		AC normal (Green)
ii		Mains Failure/On Battery (Yellow)
iii		Short Circuit, Overload, Fault (Red)
8	Audible Alarm with silence option for:	
i		Mains Failure
ii		Inverter Overload
9	Environmental:	
i	Operating Temperature	0 degree -40 degree Celsius
ii	Relative Humidity	90% max.
iii	Noise Level	Less than 40db
10	Certifications	Manufacturing Facility should be ISO 9001 certified, Test certificate from any one of the reputed Govt. agencies viz. ETDC,ERTL,SAMEER for the UPS model quoted.

3. Printer

S. No.	Item	Requirement
i.	Number Of Columns	132
ii.	Number Of Pins	9
iii.	Printing Method	Impact Dot matrix
iv.	Print Speed Draft 10CPI	225 cps or more
v.	Print Speed High Speed Draft 10CPI	300 cps or more
vi.	Interfaces Standard	USB (1.1) and Bi-Directional Parallel
vii.	Fonts	Roman, Sans Serif, Draft
viii.	Multi Part Forms	1 + 4
ix.	Optional Feeder	Single-bin cut sheet feeder
x.	Print Head Life	400 m
xi.	Acoustic Noise Level	55 dB(A) maximum
xii.	Input Data Buffer	64 KB
xiii.	Operating Temperature	0 to 35 deg C
xiv.	Operating Humidity	10 to 80% RH

4. Kiosk

S. No.	Item	Requirement
i.	Material	MS or Stainless steel or FRP (Material to be specified by purchaser)
ii.	Type	Wall Mounted / Floor Mounted(to be specified by purchaser)
iii.	Construction	Enclosure shall be made of minimum 1.6 mm thick MS,1.2 mm or above for stainless steel
iv.	Safety	No sharp edges
v.	Surface	Polymer powder coated in Siemen's grey color
vi.	Design	Compact space saving design, prior approval shall be taken for final design. The Power and network wiring inside the kiosk shall be secured properly. KIOSK shall have necessary ventilation for cooling. (Forced ventilation if required). Care shall be taken to

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S. No.	Item	Requirement
		restrict the entry of rodents etc.
vii.	Power	The kiosk shall expose a single IEC C14 AC power inlet, for which a suitable computer power cable should also be provided. All remaining power cabling should be internal and rugged.
viii.	Network	The kiosk shall expose a single Cat 5E RJ45 network socket, compatible with a standard Cat5 Ethernet UTP cable. This socket should internally be wired to the thin client network port.
ix.	BA device mounting	The kiosk shall have provision for providing Breath Analyzer device, such that device should be completely concealed inside the chassis, with only a small hole visible for fitment of the BA mouthpiece. The mounting arrangement shall be modular in nature to accommodate device from different manufacturer without requiring any modification in the Kiosk main shell. BA device height shall be adjustable preferably.
x.	Biometric device mounting	The kiosk shall have provision for providing Bio metric device, such that device should be completely concealed inside the chassis, with only a small area open for placement of the finger. The mounting arrangement shall be modular in nature to accommodate device from different manufacturer without requiring any modification in the Kiosk main shell.
xi.	Display mounting	The kiosk shall have provision for providing 17" Monitor with touch screen, such that monitor is flush / slightly recessed inside the KIOSK. There shall be no gap between KIOSK and face of monitor
xii.	Thin client mounting	The kiosk shall have provision for providing thin client such that thin client is rigidly secured within KIOSK
xiii.	UPS mounting	The kiosk shall have provision for providing UPS such UPS client is rigidly secured within KIOSK
xiv.	Keyboard and mouse tray	KIOSK shall have slide out tray for keeping key board and mouse.

The kiosk can either be floor standing on pedestal, or wall mounted. Prior approval of design and sample shall be taken before commencing bulk manufacture from Railway/CRIS.

5. Biometric Device For fitment inside kiosk

S. No.	Item	Requirement
i.	Make	Nitgen technologies, Secugen technologies, Bio Enable technologies or other reputed OEM
ii.	Dimensions	27 x 40 x 73mm or similar – compact size for easy mounting in kiosk
iii.	Weight	100gm or similar – easy mounting in kiosk
iv.	Operating Temperature	0 to 40 deg C
v.	Operating Humidity	<90% RH, non-condensing
vi.	Image Resolution	500 dpi \pm 0.2%
vii.	Image Size	260 x 300 pixels or higher
viii.	Platen Size	16.1mm x 18.2mm or higher
ix.	Sensing Area	12.7mm x 14.9mm or higher
x.	Image grayscale	256 shades – 8 bits
xi.	Image format	Non lossy
xii.	Distortion	<0.1%
xiii.	Sensing prism hardness	750 Hk (6.8 Mohs)
xiv.	Light source	Red LED
xv.	Lifetime	60,000 hours MTBF
xvi.	Ambient light tolerance	5,000 Lux
xvii.	Power	Via USB connection
xviii.	Operating voltage	5V \pm 5%
xix.	Maximum current	120 mA
xx.	ESD Tolerance	12 kV
xxi.	Communication interface	USB 2.0

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xxii.	Image capture speed	80 msec (or less)
xxiii.	OS support	Linux, Windows XP Embedded
xxiv.	Latent fingerprint rejection	Yes
xxv.	Fingerprint photocopy rejection	Yes
xxvi.	Unique serial number	To be reported through USB connection
xxvii.	Ambient light sensing	Yes
xxviii.	Finger detection	Yes

6. Breath Analyser Device For fitment inside kiosk

- 6.1. It shall conform to RDSO Specification No. RDSO/2015/EL/SPEC/0119(Rev'2') dt 15-03-2018 for BA devise with Fuel Cell Sensor based Breath Alcohol Analyzer. Test Certificates from NABL/ILAC as per RDSO spec shall be furnished by the supplier.
- 6.2. It should be possible to check device status (ON as well as OFF) through software command
- 6.3. Should be able to turn ON and OFF by software command with return status
- 6.4. It should be possible to send software command for 'Ready to blow' with return status
- 6.5. Device should return blow fail status
- 6.6. Device shall be able to return blow result once blow successful
- 6.7. Device shall run with USB power and shall not require battery for its operation.
- 6.8. The mouth piece shall be suitably modified from RDSO spec for KIOSK mounting.
 - 6.8.1. Rigid aluminum adopter with angular pipe of suitable dia.
 - 6.8.2. It shall be possible to attach commercially available straw to the pipe for blow of air to the aluminum pipe.
 - 6.8.3. One way flow with sputum trap specified in RDSO spec is optional
 - 6.8.4. Device shall be main stream blowing, with suitable outlet for sputum.
 - 6.8.5. Alpha numeric key pad is optional as device will be operated through software.

6.9. Hex command for

Sent to Device	Return from Device
Turn ON	Device turned ON
Turn OFF	Device turned OFF
Check ON	Device is ON
Set Ready to Blow	Device is ready for blow
	Blow in progress
	Blow not successful
	Blow complete
	Blow result in HEX / ASCII <ul style="list-style-type: none"> • Device Sl.No. • Calibration date • Token No / Record No • Date of Test as per device • Time of test as per device • Result value in mg / 100 ml Optional <ul style="list-style-type: none"> • Exhale time in sec • Exhale volume in litre

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7. Camera

S.No.	Item	Requirement
i.	Make	Logitech or other reputed OEM
ii.	Megapixel (MP)	1.3 or more
iii.	Frame rate	30fps
iv.	Video Capture	1024 x 768 pixels
v.	Microphone	Built-in mic
vi.	Compatible Devices	Laptop, LCD, CRT Monitor
vii.	Focus	Fixed Focus
viii.	UVC Compliant	Yes
ix.	Other Features	Plug-and-Play, Universal Clip, LED Indicator Lights, 1.3 MP Still Image Sensor Resolution Through Software Enhancement, Pan, tilt, and zoom controls, Video and photo capture, Video Calling: 1280 x 720 pixels
x.	Interface	USB 2.0

Explanatory Note

1. CRIS has developed its own Linux based thin client image ver 3.3.1 with integration of latest Breath analysis, Biometric devices and web Camera. It is required to use the **latest client image** in all thin clients (particularly at kiosk) being used in lobby for seamless experience.
2. Bidder should get the client software on a self bootable pen drive from CRIS for loading it on thin clients.
3. Bidder shall ensure that devices proposed are compatible with CMS Image 3.3.1.
4. With view of develop more sources any of the devices covered, railway may recommend/ direct the vendor to CRIS for integration and testing of devices before procurement.

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Salient Features of CMS image and application for BA and BIO devices integration**CMS client image ver 3.3.1**

1. Bulk registration of finger print - Additional function has been provided where finger prints can be registered in bulk even in OFFLINE mode. However if fingerprint is already available on client or central server database, registration of same will not be allowed through this function. It will require reregistration through Supervisor KIOSK function only.
2. Client image has been tested with different technologies for CMS access
 - a) TOMCAT Server
 - b) Webview (particularly for using android devices as client) after trials TOMCAT is being used at present.
3. The finger print image is initially stored at Client and is synced to CMS database as the client is connected to server.
4. Finger print image for any crew who tries to log in is searched on Client database then on Server database. In case image is available on server database same is loaded to client database. Registration is initiated if image is not available on Client as well as server database. On registration both database are updated
5. At initial loading of image user can select the BA and BIO device installed at his lobby (provided device is already integrated into the image). User can also configure the time out interval for BIO and BA after which flow will be taken further.
6. Client needs minimum of 4 GB ROM/Flash and intel or compatible processor for Client image ver 3 onward to run. For clients with right processor but less ROM facility has been developed in image itself to boot the client with pen drive.
7. CMS image version is displayed at the time of loading. Image version will be sent to CMS application from client for identification and report)
8. Client can detect if BA or BIO device has been connected to client.
9. User can enable or disable BA and BIO device in the image from Lobby Configuration Console in CMS Application. Log of the same will be kept in CMS application for generating report.
10. BIO can be disabled for individual crew also , in case of wearing of finger prints due to age or any other factor.
11. An SMS will also be sent to a person or group of persons as soon as any device is enabled or disabled through Admin console. The mobile numbers can also be configured through Admin console for sending SMS.
12. Supervisor KIOSK Functions: Additional functions have been provided for supervisor on KIOSK
 - 12.1. BA device test - Supervisor can test the BA device for functioning
 - 12.2. Reregistration of finger print - This will rewrite on the old finger print image.
13. Following BIO devices have been integrated
 - 13.1. SECUGEN HSDU03P
 - 13.2. SECUGEN HU 20
 - 13.3. NITGEN HFDU06
14. Following BA devices have been integrated
 - 14.1. TAYAL TECH KATS
 - 14.2. TAYAL TECH ALPHA
 - 14.3. QTel QBA-01
 - 14.4. Preksha DIAMOND
 - 14.5. Preksha NARSIMHA

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15. Following Web cams have been integrated
 - 15.1. Logitech C110 (Recommended)
 - 15.2. Logitech C270
 - 15.3. (may work with other Logitech models as well with SVR generic drivers)
16. Client image can be configured to be used for Thin Client or KIOSK on a single click.
17. LED functionality at kiosk (Only with latest CMS image)
 - 17.1. BA, BIO, Cam devices are connected or not can be monitored with this lights.
 - 17.2. Green light means device is connected and enabled. Red light means it is disconnected and disabled.
 - 17.3. Yellow light means some error is there.
18. BA device can be tested offline for its working and compatibility
19. Flow of KIOSK login has been changed.
 - 19.1. If KIOSK is BIO enabled, login will be through BIO only and password will not be required
 - 19.2. If KIOSK is NOT BIO ENABLED or Crew has been exempted from BIO through Bio data, password will be required for login
 - 19.3. After login crew will land on crew activity page.
 - 19.4. On selecting Sign ON /OFF
 - 19.4.1. Crew will be checked for sign ON/OFF eligibility (no change)
 - 19.4.2. Valid crew will be checked for unread circular
 - 19.4.3. Circular cleared crew will be taken to BA test page (for BA ENABLED KIOSK) only
 - 19.4.4. Picture of the crew will be clicked during the blow in BA test (for BA ENABLED KIOSK) only. Pic will be stored in CMS database.
 - 19.4.5. Crew will be taken to Caution Order page (with or without BA as the case may be)
 - 19.4.6. rest of the Sign ON/OFF as per existing scheme BA FAIL
 - 19.4.7. In case of BA FAIL
 - 19.4.7.1. IP of that KIOSK is blocked
 - 19.4.7.2. KIOSK screen will become RED
 - 19.4.7.3. Crew is automatically sent to system Nonrun
 - 19.4.7.4. A red icon alert starts flashing on all supervisor consoles of that lobby
 - 19.4.7.5. IP can be unblocked from supervisor console on Thin client
- 19.5. In case of sign OFF, Crew shall be required to take BA test after completing all the Sign OFF data.
 - 19.5.1. After log in Crew will select sign ON/OFF on crew activity page.
 - 19.5.2. Presently for BA enabled Lobby he is taken to BA test. Failing which he is sent to SYS NONRUN. Hence his travel data cannot be captured. Now On selecting sign ON/OFF on crew activity page, crew will be required to fill all data as is the case in BA disabled lobby. After filling all the data crew is required to click on Sign OFF.
 - 19.5.3. Now for BA disabled lobby sign OFF will be completed as per existing practice.
 - 19.5.4. Whereas for BA enabled lobby he will be required to take BA test.
 - 19.5.4.1. If crew pass BA test Sign OFF will be completed and crew status will become rest.
 - 19.5.4.2. If crew fail BA test the sign OFF will be completed but crew status will be in SYSTEM NON RUN and status will be BA FAIL
 - 19.5.4.3. This is essentially required to give mileage even in case of BA fail which is not given at present.

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19.5.4.4. In case device malfunctioning crew will come back to Final sign OFF button and test will be repeated. However in such cases data already filled will be retained.

19.5.4.5. If device is finally by passed then clicking on Final sign OFF will complete the sign OFF with temporarily saved data.

20. Device specific data and storage

20.1. The BA device returns following information in addition to result in HEX/ASCII.

- Device Sl.No.
- Calibration date
- Token No
- Date of Test as per device
- Time of test as per device
- Result value in mg / 100 ml

Optional

- Exhale time in sec
- Exhale volume in litre

20.1.1. The above values will also be stored in CMS database.

20.2. This will be displayed along with the result. Picture captured by CAM will also be displayed with the result

20.3. Future devices: In addition to result values returned (if any) will be analyzed at the time of integration.

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Likely Sources for Supply of TSS equipment for CMS Application

1. M/s Tayal Tech
2ND FLOOR, TAYAL TECHNOLOGY HUB,
NEAR DEENDAYAL PARK, VYAPAR VIHAR,
BILASPUR (CHATISGARH), PIN 495001.
PH. 07752-413333, 07752 -414444
Contact Person: AJAY AGRAWAL
MOBILE: +91-769 769 1000, +91-769 769 2000
Email: ceo@toyaltech.com , toyaltech@hotmail.com
2. M/s Agmatel India Pvt. Ltd.
E-366, II FLOOR, NIRMAN VIHAR,
VIKAS MARG,
NEW DELHI -110092
Phone : 011 011-43064306
Contact Person : Yash k khosla (9313631203)
Email : yash@agmatel.com
3. M/s CIPL
M/s Coeporate Infotech Pvt. Ltd. (CIPL)
A-16, Lower Ground Floor,
Jangpura Extention,
New Delhi – 110014
Telefax: 011-24371666/24373777 / 24371888,
Contact person: Ms Sonia Dutt Sharma, Mob: +91 8373916896
Email: sonia@cipl.org.in
4. M/s Palas Software Pvt. Ltd.
S 74, Okhla Industrial Area, Phase II, New Delhi, 110020
Contact person: Abhimanyu Shaunik, Mob: 9811322052
Email: shaunik@palas-india.com
5. Qtel Comtech Ltd.
C-28A (A&B), Sushant Lok Phase-1
Gurgaon - 122002
Haryana
Contact Person " Anirudh Sharma
Email : anirudh.sharma@qtel.in
6. Preksha Enterprises
12b, n.s. road., 2nd floor, room no.-51,
Kolkata, West Bengal, 700001, India
Contact person: Mr. Heera, Mob: 8910390590

Note: It is noted that some of the vendors are using their local software at lobby TSS equipment. This results in compatibility issues with central application and causes failure or misbehaviour of CMS application. Vendor should not use their own client application for TSS equipment at lobby and shall use only CRIS CMS image for lobby TSS equipment. Any local software shall not be supported by CRIS/CMS.

8/27/18
12/27/18