

## PRACTICAL (DEMONSTRATION) EVALUATIONS FOR THE INTEGRATED SECURITY SYSTEM

**(Alarms, CCTV, IACS, PA, System Integration and Supplier Services)**

Supplier: \_\_\_\_\_

Evaluator: \_\_\_\_\_

Date: \_\_\_\_\_

| Item     | Criteria                                                                                                                                                                                                    | Compliant         | Details if<br>not fully<br>compliant | Score |
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|          |                                                                                                                                                                                                             | Part<br>Compliant |                                      |       |
|          |                                                                                                                                                                                                             | Non-<br>compliant |                                      |       |
| <b>1</b> | <b>Alarms</b>                                                                                                                                                                                               |                   |                                      |       |
| 1.1      | The controller or user interface system shall be able to configure all the alarms in the station.                                                                                                           |                   |                                      |       |
| 1.2      | All the alarms shall be displayed visually on the user interface at the substation.                                                                                                                         |                   |                                      |       |
| 1.3      | Alarm conditions to be resettable and acknowledgeable.                                                                                                                                                      |                   |                                      |       |
| 1.4      | Alarmed zone(s) of the fence shall be viewable /highlighted on the user interface/ display screen.                                                                                                          |                   |                                      |       |
| 1.5      | Demonstrate Battery low alarm                                                                                                                                                                               |                   |                                      |       |
| 1.6      | Demonstrate Mains supply fail alarm                                                                                                                                                                         |                   |                                      |       |
| 1.7      | The intrusion detection system for buildings (for which access is granted) shall disarm upon granting of access by the access control system and arm upon the exiting of the person who was granted access. |                   |                                      |       |
| 1.8      | The access control door and gates access control devices shall create an alarm if there are unauthorised access attempts.                                                                                   |                   |                                      |       |
| 1.9      | <b>Alarm triggers</b> - Demonstrate activation of the alarm via the following triggers:                                                                                                                     |                   |                                      |       |
|          | a) Due to Camera video analytics alarm detection on the site zone(s)                                                                                                                                        |                   |                                      |       |
|          | b) Noise in the guarded zones                                                                                                                                                                               |                   |                                      |       |
|          | c) Alarm inputs from electric fence                                                                                                                                                                         |                   |                                      |       |
|          | d) Alarm inputs from infrared sensors                                                                                                                                                                       |                   |                                      |       |
|          | e) Alarm inputs from microwave beams                                                                                                                                                                        |                   |                                      |       |
|          | f) Alarm inputs from panic buttons                                                                                                                                                                          |                   |                                      |       |
|          | g) Alarm input from pre-detection sensor(s) (e.g. fibre optic sensors)                                                                                                                                      |                   |                                      |       |
|          | h) Alarm inputs from access control points.                                                                                                                                                                 |                   |                                      |       |
|          | i) System should be able to be armed both manually and via a remote control.                                                                                                                                |                   |                                      |       |
| 1.10     | <b>Pre Detection System</b>                                                                                                                                                                                 |                   |                                      |       |
|          | a) Demonstrate the pre-detection system, trigger the system and check all alarms on the user interface system                                                                                               |                   |                                      |       |

| Item     | Criteria                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | Compliant      | Details if not fully compliant | Score |
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|          |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | Non-compliant  |                                |       |
|          | b) Demonstrate the pre-detection system zones and trigger the system on a specific zone. Check if the alarm corresponds to the zone on the user interface system                                                                                                                                                                                                                                                                                                                           |                |                                |       |
|          | c) Demonstrate the configurability of the sensitivity of the pre-detection system.                                                                                                                                                                                                                                                                                                                                                                                                         |                |                                |       |
| <b>2</b> | <b>CCTV</b><br>Note: For each of the camera tests conducted, details including Camera make & Model, Comms medium used, Camera location, Camera resolution, light conditions for the test, evident obstructions, and potential causes of the nuisance alarms should be recorded as per Annex F of the technical standard (240-91190304). The CCTV tests shall comprise of the system components including camera, DVR/NVRs, monitoring client stations etc. to reflect the proposed system. |                |                                |       |
| 2.1      | Demonstrate that a person is detected by a camera when walking 20m away from the camera                                                                                                                                                                                                                                                                                                                                                                                                    |                |                                |       |
| 2.2      | Demonstrate that a person is detected by a camera when hunched 20m away from the camera                                                                                                                                                                                                                                                                                                                                                                                                    |                |                                |       |
| 2.3      | Demonstrate that a person is detected by a camera when crawling 20m away from the camera                                                                                                                                                                                                                                                                                                                                                                                                   |                |                                |       |
| 2.4      | Demonstrate that a person is detected by a camera when running 20m away from the camera                                                                                                                                                                                                                                                                                                                                                                                                    |                |                                |       |
| 2.5      | Demonstrate that the camera does not result in nuisance alarm when a shadow passes within its coverage area                                                                                                                                                                                                                                                                                                                                                                                |                |                                |       |
| 2.6      | Demonstrate that the camera footage is recorded                                                                                                                                                                                                                                                                                                                                                                                                                                            |                |                                |       |
| 2.7      | Demonstrate that the camera records 5s before triggering and 15s after movement stops                                                                                                                                                                                                                                                                                                                                                                                                      |                |                                |       |
| 2.8      | Demonstrate that the recorded camera footage is sufficient to confirm an intrusion                                                                                                                                                                                                                                                                                                                                                                                                         |                |                                |       |
| 2.9      | Demonstrate that the camera records 5s before triggering and 15s after movement stops                                                                                                                                                                                                                                                                                                                                                                                                      |                |                                |       |
| 2..10    | Demonstrate that time & date are displayed correctly on a recorded footage. (For each recorded footage document details including % Screen height, resolution achieved, Frame rate, Depth of colour as per Annex F of the technical standard (240-91190304))                                                                                                                                                                                                                               |                |                                |       |
| 2.11     | Demonstrate PTZ camera live streaming                                                                                                                                                                                                                                                                                                                                                                                                                                                      |                |                                |       |
| 2.12     | Demonstrate that the PTZ camera is able to perform automatic Tracking (A person shall run and walk across various areas of the site with a focus on strategic areas.)                                                                                                                                                                                                                                                                                                                      |                |                                |       |

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|      |                                                                                                                                                                                           | Part Compliant |                                |       |
|      |                                                                                                                                                                                           | Non-compliant  |                                |       |
| 2.13 | Demonstrate that the PTZ camera is able to zoom as required. (A person shall run and walk across various areas of the testing area/site)                                                  |                |                                |       |
| 2.14 | Demonstrate that the PTZ camera is able to perform live viewing both onsite and offsite (State the Comms medium used for off-site live viewing)                                           |                |                                |       |
| 2.15 | <b>NRV/DVR Tests</b><br>Note: For all the NVR/DVR tests list NDVR Make and Model, Number of Connected Cameras , Comms Medium used as per Annex F of the technical standard (240-91190304) |                |                                |       |
|      | a) Demonstrate that the NVR/DVR Records for 5s second before the event, the time of the actual event and 15s seconds after motion stops                                                   |                |                                |       |
|      | b) Demonstrate that the NVR/DVR Sends short video clip / series of still pictures from the camera covering the zone where the alarm triggered to the security control room.               |                |                                |       |
|      | c) Demonstrate that the quality of the clip received at the control room is such that the controller can clearly identify whether the intruder detection was triggered by a human.        |                |                                |       |
|      | d) Demonstrate that the Control room is able to stream footage from site                                                                                                                  |                |                                |       |
|      | e) Demonstrate that the Control room is able to operate PTZ                                                                                                                               |                |                                |       |
|      | f) Demonstrate that the Control room is able to access PTZ present positions                                                                                                              |                |                                |       |
|      | g) Demonstrate that the DVR can simultaneously record and stream footage                                                                                                                  |                |                                |       |
|      | h) Demonstrate that the DVR is able to trigger recordings based on ,manual trigger and alarm                                                                                              |                |                                |       |
|      | i) Demonstrate that its possible to search recorded events based on date and time                                                                                                         |                |                                |       |
|      | j) Demonstrate that Playback in slow motion is possible                                                                                                                                   |                |                                |       |
|      | k) Demonstrate that Playback at high speed is possible                                                                                                                                    |                |                                |       |
|      | l) Demonstrate that All cameras on site can be synced to within 1 second of DVR time                                                                                                      |                |                                |       |
| 2.16 | <b>Video Management System (VMS)</b>                                                                                                                                                      |                |                                |       |
|      | a) Demonstrate that the Operator can select each camera at the site                                                                                                                       |                |                                |       |
|      | b) Demonstrate that the Operator can sequentially switch between cameras                                                                                                                  |                |                                |       |
|      | c) Demonstrate that the Operator can operate PTZ through full range                                                                                                                       |                |                                |       |
|      | d) Demonstrate that PTZ can be controlled using pre-set positions                                                                                                                         |                |                                |       |

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|          |                                                                                                                                                                                                   | Part Compliant |                                |       |
|          |                                                                                                                                                                                                   | Non-compliant  |                                |       |
|          | e) Demonstrate that Operator can start recordings of live footage                                                                                                                                 |                |                                |       |
|          | f) Demonstrate that the Operator can view recorded footage                                                                                                                                        |                |                                |       |
|          | g) Demonstrate that the Operator can view the location and status of the site on a map                                                                                                            |                |                                |       |
|          | h) Demonstrate that in normal state, no video is shown.                                                                                                                                           |                |                                |       |
|          | i) Demonstrate that if Alarm triggers at a site: controller sees a series of still images or a short video clip of the triggered zone.                                                            |                |                                |       |
|          | j) Demonstrate that the controller can choose to stream video from the site.                                                                                                                      |                |                                |       |
|          | k) Demonstrate that there is an event queue to allow the management and acknowledgment of multiple alarm events.                                                                                  |                |                                |       |
|          | l) Demonstrate that All cameras on site can be synced to within 1 second of DVR time                                                                                                              |                |                                |       |
|          | m) Demonstrate that the Controller can enter comments and link them to the event                                                                                                                  |                |                                |       |
|          | n) Demonstrate that It is possible to 'escalate' incidents to another workstation running the client software                                                                                     |                |                                |       |
|          | o) Demonstrate that the VMS can simultaneously record and stream footage                                                                                                                          |                |                                |       |
|          | p) Demonstrate that the recordings are electronically watermarked                                                                                                                                 |                |                                |       |
| <b>3</b> | <b>IACS</b><br>Note: The IACS tests shall comprise of the system components including card readers, biometric readers, controllers, servers, client stations etc. to reflect the proposed system. |                |                                |       |
| 3.1      | Demonstrate Login to Client station with preconfigured username and password                                                                                                                      |                |                                |       |
| 3.2      | Demonstrate changing of card reader LED when an access card is presented to show the unlocked and locked status                                                                                   |                |                                |       |
| 3.3      | Demonstrate that a door is locked automatically when it is closed.                                                                                                                                |                |                                |       |
| 3.4      | Demonstrate that once an alarm has been acknowledged, it is cleared from the alarm summary page and returned to normal                                                                            |                |                                |       |
| 3.5      | Demonstrate a door forced alarm when a door is forced open without presenting a valid card                                                                                                        |                |                                |       |
| 3.6      | Demonstrate a remote operation (opening) of a door from a workstation                                                                                                                             |                |                                |       |
| 3.7      | Demonstrate the start-up of motor upon access granted on a valid card/biometric reader through a registered finger                                                                                |                |                                |       |

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| 3.8      | Demonstrate granting of access when any of the enrolled fingers is placed on the biometric reader sensor |                |                                |       |
| 3.9      | Demonstrate how the GUI displays opened and closed access points differently                             |                |                                |       |
| 3.10     | Demonstrate how the GUI displays an alarm when there is hardware failure                                 |                |                                |       |
| 3.11     | Demonstrate logs for alarms, system logs, events, access logs and error logs.                            |                |                                |       |
| 3.12     | Demonstrate sequential record all Operator Configuration events                                          |                |                                |       |
| <b>4</b> | <b>PA System</b>                                                                                         |                |                                |       |
| 4.1      | Demonstrate the siren alarm                                                                              |                |                                |       |
| 4.2      | Configure the siren alarm                                                                                |                |                                |       |
| 4.3      | The PA system broadcast functionality shall be done locally                                              |                |                                |       |
| 4.4      | The PA system broadcast functionality shall be done remotely                                             |                |                                |       |
| 4.5      | The manual broadcast shall be tested                                                                     |                |                                |       |
| 4.6      | The configuration of parameters shall be tested using the user interface.                                |                |                                |       |
| 4.7      | Demonstrate faults on the PA system which are displayed on the user interface.                           |                |                                |       |
| <b>5</b> | <b>Intrusion pre-detection system</b>                                                                    |                |                                |       |
| 5.1      | Demonstrate zoning capability for alarm monitoring and fault finding                                     |                |                                |       |
| 5.2      | Demonstrate system components can be synchronized with a real-time clock with minimum accuracy of 250ms. |                |                                |       |
| 5.3      | Demonstrate mechanism to reduce/eliminate false alarms                                                   |                |                                |       |
| 5.4      | Demonstrate that the system alarms for the following conditions both locally and remotely                |                |                                |       |
|          | 1. Intrusion pre-detection alarms                                                                        |                |                                |       |
|          | 2. Equipment fail alarm (health check, mains supply fail, battery low)                                   |                |                                |       |
|          | 3. Tamper detection                                                                                      |                |                                |       |
| 5.5      | Demonstrate that each alarm has the following details                                                    |                |                                |       |
|          | 1. Type of event (System, Incident, or Administrative).                                                  |                |                                |       |
|          | 2. Date and time of the event in format CCYY/MM/DD; hh:mm:ss.                                            |                |                                |       |
|          | 3. Name/identification of the reporting device.                                                          |                |                                |       |
|          | 4. Location of the reporting device in the form of GPS coordinates.                                      |                |                                |       |

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|          |                                                                                                                                                                                                                               | Part Compliant |                                |       |
|          |                                                                                                                                                                                                                               | Non-compliant  |                                |       |
| 5.6      | Demonstrate that the system resume its normal non-alarm condition within 10s after restoration from an alarm state                                                                                                            |                |                                |       |
| 5.7      | Demonstrate that the detection range and sensitivity of the detectors shall be configurable.                                                                                                                                  |                |                                |       |
| 5.8      | Demonstrate that the system shall sustain the alarm state until the controller has acknowledged a receipt of the intrusion alert on the Data Monitoring System.                                                               |                |                                |       |
| 5.9      | Demonstrate that there shall be a graphical user interface (GUI) with site zones and aggregation of the system data.                                                                                                          |                |                                |       |
| 5.10..   | Demonstrate that the system shall be configurable remotely                                                                                                                                                                    |                |                                |       |
| 5.11     | The system shall allow a system administrator with the appropriate user-level authorization and two-way factor authentication to remotely configure it including arming/on, disarming/off and setting changes.                |                |                                |       |
| 5.12     | The status of the field units/sensors shall be periodically and automatically checked and reported to the control monitoring/viewing stations. The frequency of these reporting shall be configurable.                        |                |                                |       |
| 5.13     | Transactions shall be recorded in a database with different level of administrative rights ( write, read only etc).                                                                                                           |                |                                |       |
| 5.14     | Database reports shall be capable of being exported and transmitted electronically in different formats (e.g., MS excel, PDF, etc).                                                                                           |                |                                |       |
| <b>6</b> | <b>System Integration</b>                                                                                                                                                                                                     |                |                                |       |
| 6.1      | Cause & effect matrix: Demonstrate activation of the perimeter flood lights on the user interface system by simulating a breach on either the physical perimeter fence or virtual perimeter fence by smart cameras/beams/etc. |                |                                |       |
| 6.2      | Cause & effect matrix: Demonstrate activation of the substation flood lights on the user interface system by simulating:                                                                                                      |                |                                |       |
|          | a) a breach on the physical perimeter fence or virtual perimeter fence by smart cameras/beams/etc.                                                                                                                            |                |                                |       |
|          | b) the outdoor sensor triggers.                                                                                                                                                                                               |                |                                |       |
|          | c)the camera outdoor protected area triggers                                                                                                                                                                                  |                |                                |       |
|          | d) the indoor sensor triggers                                                                                                                                                                                                 |                |                                |       |
| 6.3      | Cause & effect matrix: Demonstrate activation of the control room lights on the user interface system by simulating:                                                                                                          |                |                                |       |
|          | a) the indoor sensor triggers.                                                                                                                                                                                                |                |                                |       |

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|      |                                                                                                                                                                 | Part Compliant |                                |       |
|      |                                                                                                                                                                 | Non-compliant  |                                |       |
|      | b) camera indoor protected area triggers                                                                                                                        |                |                                |       |
| 6.4  | Cause & effect matrix: Demonstrate activation of the switch room lights on the user interface system by simulating:                                             |                |                                |       |
|      | a) the indoor sensor triggers.                                                                                                                                  |                |                                |       |
|      | b) camera indoor protected area triggers                                                                                                                        |                |                                |       |
| 6.5  | Cause & effect matrix: Demonstrate activation of any other room lights on the user interface system by simulating:                                              |                |                                |       |
|      | a) the indoor sensor triggers.                                                                                                                                  |                |                                |       |
|      | b) camera indoor protected area triggers                                                                                                                        |                |                                |       |
| 6.6  | Cause & effect matrix: Demonstrate activation of the DVR/NVR record footage on the user interface system by simulating:                                         |                |                                |       |
|      | a) a breach on the physical perimeter fence or virtual perimeter fence by smart cameras/beams/etc.                                                              |                |                                |       |
|      | b) the outdoor sensor triggers.                                                                                                                                 |                |                                |       |
|      | c)the camera outdoor protected area triggers                                                                                                                    |                |                                |       |
|      | d) the indoor sensor triggers                                                                                                                                   |                |                                |       |
|      | e) camera indoor protected area triggers                                                                                                                        |                |                                |       |
|      | f) authorised access                                                                                                                                            |                |                                |       |
| 6.7  | Cause & effect matrix: Demonstrate activation of the alarm signals (text and video) sent to Security Control Centre on the user interface system by simulating: |                |                                |       |
|      | a) a breach on the physical perimeter fence or virtual perimeter fence by smart cameras/beams/etc.                                                              |                |                                |       |
|      | b) the outdoor sensor triggers.                                                                                                                                 |                |                                |       |
|      | c)the camera outdoor protected area triggers                                                                                                                    |                |                                |       |
|      | d) the indoor sensor triggers                                                                                                                                   |                |                                |       |
|      | e) camera indoor protected area triggers                                                                                                                        |                |                                |       |
| 6.8  | Cause & effect matrix: Demonstrate activation of the PTZ tracking sent to Security Control Centre on the user interface system by simulating:                   |                |                                |       |
|      | a) a breach on the physical perimeter fence or virtual perimeter fence by smart cameras/beams/etc.                                                              |                |                                |       |
|      | b) the outdoor sensor triggers.                                                                                                                                 |                |                                |       |
|      | c)the camera outdoor protected area triggers                                                                                                                    |                |                                |       |
| 6.9  | Cause & effect matrix: Demonstrate activation of the recorded message on the PA System on the user interface system by simulating:                              |                |                                |       |
|      | a) a breach on the physical perimeter fence or virtual perimeter fence by smart cameras/beams/etc.                                                              |                |                                |       |
|      | b) the indoor sensor triggers                                                                                                                                   |                |                                |       |
|      | c) camera indoor protected area triggers                                                                                                                        |                |                                |       |

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|       |                                                                                                                                                                                      | Part Compliant |                                |       |
|       |                                                                                                                                                                                      | Non-compliant  |                                |       |
| 6.10. | Cause & effect matrix: Demonstrate that the PA System Security Control operated if the alarm was verified using the user interface system by simulating:                             |                |                                |       |
|       | a) a breach on the physical perimeter fence or virtual perimeter fence by smart cameras/beams/etc.                                                                                   |                |                                |       |
|       | b) the outdoor sensor triggers.                                                                                                                                                      |                |                                |       |
|       | c) the indoor sensor triggers                                                                                                                                                        |                |                                |       |
|       | d) camera indoor protected area triggers                                                                                                                                             |                |                                |       |
| 6.11  | Cause & effect matrix: Demonstrate activation of the triggered Alarm System Zones on the user interface system by simulating:                                                        |                |                                |       |
|       | a) a breach on the physical perimeter fence or virtual perimeter fence by smart cameras/beams/etc.                                                                                   |                |                                |       |
|       | b) the outdoor sensor triggers.                                                                                                                                                      |                |                                |       |
|       | c)the camera outdoor protected area triggers                                                                                                                                         |                |                                |       |
|       | d) the indoor sensor triggers                                                                                                                                                        |                |                                |       |
|       | e) camera indoor protected area triggers                                                                                                                                             |                |                                |       |
| 6.12  | Cause & effect matrix: Demonstrate activation of the Alarm Zone events sent to Security Control on the user interface system by simulating:                                          |                |                                |       |
|       | a) a breach on the physical perimeter fence or virtual perimeter fence by smart cameras/beams/etc.                                                                                   |                |                                |       |
|       | b) the outdoor sensor triggers.                                                                                                                                                      |                |                                |       |
|       | c)the camera outdoor protected area triggers                                                                                                                                         |                |                                |       |
|       | d) the indoor sensor triggers                                                                                                                                                        |                |                                |       |
|       | e) camera indoor protected area triggers                                                                                                                                             |                |                                |       |
| 6.13  | Cause & effect matrix: Demonstrate activation of the Indoor Siren on the user interface system by simulating:                                                                        |                |                                |       |
|       | a) the indoor sensor triggers                                                                                                                                                        |                |                                |       |
|       | Cause & effect matrix: Demonstrate activation of the Strobe light on the user interface system by simulating:                                                                        |                |                                |       |
|       | a) a breach on the physical perimeter fence or virtual perimeter fence by smart cameras/beams/etc.                                                                                   |                |                                |       |
|       | b) the outdoor sensor triggers.                                                                                                                                                      |                |                                |       |
|       | c)the camera outdoor protected area triggers                                                                                                                                         |                |                                |       |
|       | d) the indoor sensor triggers                                                                                                                                                        |                |                                |       |
|       | e) camera indoor protected area triggers                                                                                                                                             |                |                                |       |
| 6.14  | System Security                                                                                                                                                                      |                |                                |       |
|       | a) Demonstrate that access level can be set for user to only be able to perform operator tasks and prohibited from deleting footages, and prohibited from changing network settings. |                |                                |       |

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|          |                                                                                                                                                            | Part Compliant |                                |       |
|          |                                                                                                                                                            | Non-compliant  |                                |       |
|          | b) Demonstrate that the user with configured access rights can view a time and date stamped log of all logon events                                        |                |                                |       |
|          | c) Demonstrate that the user with configured access rights Can view a log of all administrative changes made on the system, including who made the change. |                |                                |       |
| 6.15     | Events Log                                                                                                                                                 |                |                                |       |
|          | a) Demonstrate that any alarm and fault triggered is logged in an easily viewable format that is date and time stamped.                                    |                |                                |       |
|          | b) Demonstrate that the events log can be sent electronically and in a Microsoft Excel format. format                                                      |                |                                |       |
| <b>7</b> | <b>Supplier Services &amp; Organisation Experience</b>                                                                                                     |                |                                |       |
|          | When the supplier is performing the practical/demonstration, are the supplier's people knowledgeable on the following systems/equipment:                   |                |                                |       |
| 7.1      |                                                                                                                                                            |                |                                |       |
| 7.1.1    | Alarm Systems/ Equipment                                                                                                                                   |                |                                |       |
| 7.1.2    | CCTV Systems/ Equipment                                                                                                                                    |                |                                |       |
| 7.1.3    | IACS Systems/ Equipment                                                                                                                                    |                |                                |       |
| 7.1.4    | PA Systems/ Equipment                                                                                                                                      |                |                                |       |
| 7.1.5    | Integrated Security Systems/ Equipment                                                                                                                     |                |                                |       |
| 7.1.6    | IT Infrastructure and PSIM Systems/ Equipment                                                                                                              |                |                                |       |