**Action Plan**

**Pavement works:- (To be done by the State Govt.)**

- Extension of apron by 797 Sqm) (overall size 70mX35m= 2450 Sqm.)
  
  On the west edge a dilapidated single storey structure, a hand pump and a raised platform exist which need to be removed.

  Necessary drawings/specifications shall be provided by AAI. Monitoring by RED, NR.

  Approx. Cost: Rs 8 Crore

  PDC: June 2018

- Basic strip grading
- Construction of RESA 60X30 mtr
- Fire CFT Holding position road 5.0 mtr wide
- Connection roads from fire station & ATC tower
- Runway and Apron Marking
- Car park area – 40X20 mtrs.

**Terminal Building: (To be done by the State Govt.)**

The existing VVIP building is proposed to be used as Terminal Building with extension. There is a working plan available with the State Govt.. The State Govt. shall take up and complete the terminal building work along with required furniture, provision for CCTV, FIDS, PA System etc. Any guidance required shall be provided by RED,NR, AAI.

Approx. Cost: Rs.4 Crores

PDC: June 2018

**Action: State Govt. / RED, NR, AAI**

**Operational Boundary Wall: (To be done by State Govt.)**

- The boundary wall of 2.4m height with 0.6 m barbed wire fencing is available. However concertina coil is required to be installed as overhang.
- The boundary wall is broken at two places and is used as a throughfare by villagers. This needs to be closed.
- The operational boundary wall is also needed to segregate City side and airside for security clearance.
• Provision of fire crash gates on both ends of boundary wall.

Approx. Cost: Rs. 3 Crores.

PDC: June 2018.  

Action: State Govt. / BCAS/RED, NR, AAI

Runway Strength (PCN) – Pavement classification number is not available / not known. For PCN evaluation, action has been initiated by AAI, CHQ Structure directorate.

PDC: June, 2018

Action: AAI, CHQ Structure Dte.

Other Misc. Civil works:-(To be done by State Govt.)

Cooling pit, windsock, ARP, Car Park etc. The location for these works identified and action for completion shall be taken up by Uttar Pradesh State Govt.

Approx. Cost: Rs. 50 Lakhs.

PDC: June 2018.

Action: State Govt. / AAI Plg. Dte./ RED, NR, AAI

Access Control/ Approach Road:-(To be done by State Govt.)

2 lane Approach road from highway is available. Boom barriers needs to be installed at the airport entrance and properly illuminated. Necessary signage’s from highway also to be provided. Shelter covers/ booths to be provided for checking security staff.

Action: State Govt.

Control Tower:-(To be done by AAI)

Pre-engineered/Pre-fabricated ATC tower with control room size of 5.40 mtrx5.40 mtr. at a height of 6.30 mtr. with lightening /surge protection ,earthing ,RF/Data cable ducts etc. is in process of procurement. Space to be earmarked by AAI, necessary fixing drawings are available.

Approx. Cost: Rs. 5 Crores.

PDC: August 2018

Action: Engg. Dte., CHQ/ ED (CNS)/ ED(Plg.)
**Documentation:- (To be done by the State Govt. as operator)**

The necessary documentation like security manual, quality control manual, aerodrome manual, emergency procedure and contingency plans, safety management manual etc. to be prepared by State Govt. in co-ordination with AAI Ops. Dte.

**Action:** State Govt.

**CNS Works:- (To be done by AAI)**

- Availability of Power supply: Power source is available in all the places which can be utilized to energize UPS for CNS equipments subject to adequacy of its capacity/rating.

- Provision of Air Conditioning: It is required to install two ACs in the equipment room for VHF, DVR and other CNS equipments.

- Provision of Earthing and lightning arrestor: Provision of new Earthing and lightning arrestor is required before installation of CNS equipment for protection of CNS/ATM equipments and officials.

- Availability of Telephone line: Telephone line (land line) is NOT available inside airport premises. Local administration has to take up the issue with BSNL/Other service provider to terminate few lines inside airport premises.

- Availability of DG Set as back up: One DG set is available as back-up for mains supply. It needs to check up for its capacity to cater the additional load of ATC tower & CNS equipments.

- Provision of Furniture for ATC & CNS equipment room: Furniture for ATC, equipment and officers is also required to be provided.

**CNS Requirements for VFR operation:-**

Following essential facilities are required to be provided by CNS Dte in order to provide Air Traffic Control Service under RCS at AAI and non AAI airports.

1. VHF for Control Tower (Main & Standby Frequency) with associated equipment’s recording facility (DVR) etc.
2. GPS Clock.
3. UPS -05KVA (Dual)
4. Direct Telephone line with STD with broadband facility and Fax machine.
5. Intercom facilities with CNS units, fire stations etc.
6. Direct Hot Lines (VAS) with City fire brigade and nearest ATC.
7. Walky-Talky with base station along with 06 handheld sets.
8. Crash Fire Alarm and PA systems.
9. Mobile Phone with dual SIM (One from BSNL and other having good coverage)
11. RWS terminal for AMSS, if feasible.

Remarks for CNS Equipment's/facilities:

- CNS-P, CHQ is taking action to procure facilities at Sl. No: 1 wherever not available.
- CNS-OM, CHQ/RHQ, NR are required to take action to provide facilities from Sl. No. 2 to 11 wherever required.

An approved proposal for Pre-engineered/Pre-fabricated ATC Tower for Moradabad Airport is included in the list.

In case of requirement Equipment Room shall also serve as Anti Hijacking control room.

Approx. Cost: Rs. 1.0 Crore

PDC: Jun 2018

- **Action:** State Govt. / CNS Dte.AAI, CHQ/RED-NR

**Security Equipment and services:** (To be done by the State Govt.)

The security services are to be provided by State Govt. The number of police personnel to be deputed shall be communicated to State Govt. by BCAS after inspection for training and deployment.

Security equipment required are assessed as below:

- XBIS (RB)-1 No.
- X-BIS(HB)-1 No.
- DFMD-4Nos. (SHA-2 Nos., Entrygate-1 No., Stop Gate- 1 No.)
- HHMD- 8 Nos.
- CCTV
- ETD-2 Nos.
- FIDS

PDC: June, 2018.

- **Action:** State Govt.

**Airspace Management perspective and removal of obstacles** -

- WGS coordinates of Moradabad Airport may be plotted on ATS routes map, and Air space requirement in terms of vertical and lateral limit may be examined.
- OLS survey work has been awarded by AAI.
The identified obstacles from survey, Trees, HT Lines, Buildings, Towers etc. shall be removed before commencement of operations.

PDC: April, 2018

Action: State Govt. / ED(ATM), CHQ, AAI

Fire Services:-(To be done by state Govt.)

In order to help commencement of operation immediately at the Airport by provisioning below mentioned facilities immediately:

a. 01 CFT and 01 Ambulance to be commissioned.
b. 01 CFT 01 Ambulance to be kept stand-by.

Fire store requirements:

I. At least 700 liters of foam compound should be kept in reserve.
II. At least 135 kg of DCP should be kept in reserve.

CFTs shall be provided by AAI. The necessary Fire personnel shall be deputed by State Govt. and duly trained by AAI.

CFT shade needs to be constructed (dimension: 10mx6m). approx. cost: Rs. 0.7 Cr.

PDC: June 2018

Action: State Govt./ RED, NR, AAI

Electrical works:- (To be done by State Govt.)

Over Head Electric Lines:- Electrical Overhead lines are passing through Operational area. All Electrical Overhead lines will be underground or shifted away from Operational area.

Transformer:- Transformer installed in open space & in operational area same may be shifted towards city side/ State Govt. side. Capacity of transformer should also enhance as per new load.

DG sets:- At present only 1 no, 28KVA DG set is available. DG sets of adequate capacity should be installed.

UPS System:- UPS system of adequate capacity should be installed.

CCR / Switch Room: At present no room /space available for CCR / Switch Room therefore same shall be allocated.

Passenger facilitation:- For the facilitation of passenger Baggage Handling System, Airlines counters, Weighing Scale, AC System, water purifier, water cooler, hand dryer, emergency lights etc. shall be provided.
Automatic Boom Barrier: Automatic Boom Barrier shall be provided.

Sign Boards: - Sign boards for Emergency exit, Operational Area, City side area shall be provided.

Fire detection & Fire fighting system: - Fire detection & Fire fighting system (If required), same shall be provided as per NBCC code 2016 with up to date amendments.

Advance lightening system: - At present lightening protection is not available therefore same shall be installed.

PDC: June 2018.

Action: RED, NR, AAI/State Govt.

Meteorology - Met observatory and the trained Met. Officials may be required before commencement of commercial flights. Necessary coordination with Met. Department to be taken up by State Govt. of UP.

Action: State Govt.

Status of Airport Licence - (To be taken by the State Govt. as operator) Presently Airport licence is not available. Action for taking Airport Licence from DGCA to be taken by State Govt.

PDC: August 2018.

Action: State Govt.

Protection of airspace: State Government shall issue NOC for construction of Buildings/Structures as per the provisions of GSR 751(E) - the Ministry of Civil Aviation (Height Restrictions for Safeguarding of Aircraft Operations) Rules, 2015 available on the website of Ministry of Civil Aviation. Alternately the State Govt can provide the details of existing layout/masterplan of airports to AAI for processing the requests in NOCAS.

Suitability of Airport - Presently, Aerodrome is not fit for commercial flights, however, after actions as above and obtaining aerodrome licence, the commercial flight operations may be commenced.

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(Himanshu Soni) Mgr. (Arch.), CHQ
(Deepit Bhatnagar) AGM (Plg), CHQ
(Anil Kumhar) AGM (ATM), CHQ
(V. K. Sharma) Jt.GM (Structure)
(T. K. Gupta) DGM (CNS), NR
(Sunil Prasad) DGM (Engg.-C), CHQ
Annexure-I

List of Participants (Moradabad Airport Visit on 20.02.2018)

### AAI Side

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### State Govt. / District Administration Side

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