AIRPORTS AUTHORITY OF INDIA

Site Inspection Report of Airport Infrastructure at Azamgarh Airport, UP for operationalization under Regional Connectivity Scheme (RCS)

Date of Visit-23.02.2018

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Development of Azamgarh Airport (UP) for operation of flights under RCS – UDAN

(M 28, DO228-200, Beech craft 200 type - 19 Seater aircraft-Runway codes 1B)

AAI team consisting of officials from CNS Dte., ATM (FPD). Structure, Electrical Engg., Civil Engg. ,Planning,Arch.,Fire Services visited Azamgarh Airport on 23.02.2018 along with officials from U.P. State Govt. (Annexure I) to study existing infrastructure and recommend action plan for works required to be carried out for operation of flights under RCS-UDAN.

Existing infrastructure : -

- Runway : 1400mX23m, Designation 32/14
- Turn Pad : Available
- VFR/IFR : VFR
- Apron : 30mX60m
- No.of Parking bays : 2 Nos.
- Taxiway : (75.00m X 15.00m)
- Guest house : 30X14.50 =435.00 sq.mtr. Available
- Residential Quarters : 01No. -Type-I Available
- Boundary Wall : 2.10mtr.ht. With Barbed wire- Available
  (410 mtr. Boundary wall missing right side of RWY 14)
- Availability of Electric supply : State electricity supply is available and stand by Generator is also available
- Availability of Water Supply : Yes (Only Bore well)
- Availability of Approach road to Airport : Available
- Availability of Car Parking : Land available for car Park

1. Terminal Building:
   At Azamgarh Airport, One guest house having two rooms with two lobbies, toilets and one VIP room is available. The design/layout and covered area of existing guest house is not sufficient even to cater the passengers of small aircraft. Re-design & conversion of existing guest house into Terminal building or construction of porta cabin with necessary Departure, Security check area and Arrival area along with the other infrastructure including furniture etc. are suggested to expedite the aircraft operation from Azamgarh.

2. Runway & Runway Strip:
   - The dimension of “Runway 14-32” is 1400 m X 23 m. The entire runway surface is made of bitumen which is good but PCN value and coefficient of friction of the existing runway is not determined/available.
   - Surface condition of runway seems bitumen hungry but good, aggregates are intact and no visible cracks are observed.
• Section of Runway, taxiway and apron is as following-

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<tr>
<td>BC</td>
<td>45 mm</td>
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<tr>
<td>DBM</td>
<td>75 mm</td>
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<td>WMM</td>
<td>175 mm</td>
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<td>GSBC</td>
<td>225 mm</td>
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<tr>
<td>Sub-grade CBR</td>
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Resurfacing / strengthening requirement can be decided after PCN evaluation.

• Width of runway strip is 57 m on either side from the runway centre line is available except in the area of 410 m near to threshold of runway 14. Land is required to provide a full length runway strip. Available runway strip is also not maintained as per CAR as it’s full of wild growth, which require cleaning & grading.

• Low laying area is observed throughout the runway strip and in the operational area which need to be levelled.

• Runway End Safety Area (RESA) is not provided at both the end of runway strip. Land for RESA is available at the aerodrome which is required to be maintained as per CAR.

• Drainage system is available but need to be maintained as per the provision of CAR.

3. Runway marking
   • Runway marking are faded which needs to be repainted.

4. Taxiways, Taxiway Strip & Taxiway Markings
   • Only one taxiway is available which is connected from the apron to beginning of runway ‘14’ having a length 75 m and width 15 m. PCN value of Taxiway is also need to be determined for the proposed aircraft operation.

5. Apron & Apron Markings
   • Apron is available with dimension 60 m X 30 m and markings for parking of one helicopter and one for B-200 aircraft are available. The standard size of apron is required to be developed for the proposed aircraft operation with a sufficient PCN value.

6. Boundary Wall
   • Avg. Height of existing compound wall is 2.10 m with no barbed wire fencing over the top.
   • Boundary wall (length 410 m approx.) is missing at right side of Runway 14 which need to be constructed.
   • Boundary wall need to be raised as per the requirement of BCAS

7. Water Supply System
   • Only one bore-well is available. However, one additional bore-well with overhead/underground tank is required to fulfill the requirement of water supply system.
Note – Uttar Pradesh Government Nirman Ltd., Azamgarh unit, Azamgarh has prepared a preliminary estimate amounting to Rs. 1149.64 lacs for proposed construction of No-Frill airport under regional connectivity scheme.

8. Existing Infrastructure for Electrical System

- **Availability of Power Supply:** The 11 KV HT Supply with 11 KV / 415 V transformer is available with LT metering connection from UPPCL. The 63 KVA DG Set is also available for standby power supply. The approximate 8 mtr x 10 mtr covered hall to be required for installation of AMF Panel, LT Panel and Sub-station equipments.

- **Availability of Internal Electrification:** The internal electrical wiring work with fitting and fixtures is available in existing terminal building.

- **Availability of Water supply:** One No. Bore Well with single phase submersible pump and underground water storage tank is available to cater the water supply requirement.

- **Availability of Air Conditioning:** Air-Conditioning is not available in existing terminal building except VIP rooms.

**Electrical Requirements for VFR operation**-

- The standby power supply source i.e. DG set with AMF Panel and LT Panel.
- Internal & External electrification as per operational requirement.
- Electrical fitting and fixtures i.e. Fan, LED Light fitting in existing terminal building.
- Air-Conditioning of existing terminal building for passenger facilitation and operational equipments.
- Water Coolers and RO System for drinking water supply.
- Electronic Weighing Machine for checking counters.
- Signages for passenger facilitation in existing terminal building.
- Signages for operational area i.e. runway, taxiway etc.
- Electrical Installation in signaling area i.e. Windcone, Landing T etc.
- Electrical fitting & fixtures for new proposals / requirements by CNS, ATC, Civil etc.

Note: The Runway Lights, Taxiway Lights, PAPI Lights, Approach Lights, Apron High Mast Lights, Perimeter Lights are not considered for VFR operation.

9. Existing Infrastructure for CNS Equipment

Terminal building/Tower/space for CNS equipment are not available at present. One building is available with VIP lounge set up. A proposal is under process by local administration to develop a terminal building & ATC tower.

- **Availability of CNS Equipment:** NIL.

- **Availability of Power supply:** Power source is available inside the airport premises which can be utilized to energize UPS for equipment after proper cabling.
- **Availability of Air Conditioning:** No AC is available at present. It is required to install two ACs for VHF AND DVR equipment.

- **Availability of Earthing:** No Earthing is available. A new Earthing is required to make before installation of CNS equipment.

- **Availability of Telephone line:** Telephone line is not terminated 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:** DG set is not provided as back-up for mains supply. It needs to be provided as back-up.

- **Availability of Furniture for CNS equipment:** No furniture available for CNS equipment. Needs to provide few basic furniture for equipment and officers.

**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.

- VHF for Control Tower (Main & Standby Frequency) with associated equipment’s recording facility (DVR) etc.
- Digital Clock.
- Direct Telephone line with STD facilities and Fax machine.
- Intercom facilities with CNS units, fire stations etc.
- Direct Hot Line with City fire brigade.
- At least two sets of Walky-Talky equipment’s.
- Crash Fire Alarm and PA systems.
- Mobile Phone with dual SIM (One from BSNL and other having good coverage)
- Computer with internet facility and Printer.

**Remarks for CNS Equipment’s/facilities:**

- CHQ (CNS-P) is taking action to procure facilities at Sl. No: 1 wherever not available.
- RHQ’s are required to take action to provide facilities from Sl. No. 2 to 9 wherever required.
- An approved proposal for Pre-engineered/Pre-fabricated ATC Towers Azamgarh, is included in the list.

**10. Existing Infrastructure for ATM Services:-**

**OBSTACLES OBSERVED DURING INSPECTION:**

During the inspection the following natural/man made obstacles were observed and these needs to be assessed/removed as per DGCA CAR section 4 series B part 1 dated 26 AUG 2015 para 4 for the proposed operations and OLS survey must carried out before commencing & to check the viability of operations.

- One mobile tower is observed in the approach path runway 32.
- Group of trees are observed in the approach path of runway 14.
- HT line is passing from north of runway.
Azamgarh airport is lying in restricted area VER75A which belongs to Gorakhpur. Before commencing operations at Azamgarh airport, coordination procedure may be established with Gorakhpur ATC.

11. Existing Infrastructure for Fire Services:-

It was found that no aviation fire service is available at the aerodrome. The fire service/fire section building does not exist, and it is required to be built according to the Fire Safety Manual-15 (AAI). Fire extinguishing media and appliances required according to Cat-IV is not available. Communication facility as required for fire service/fire section according to category-IV is also not available. Static tank was found available but the overhead tank does not exist. Furthermore, the crash gate at both the ends of the runway is not provisioned which is a mandatory factor. **Considering these facts into account, a Fire Service Manual-15 (AAI) extract is attached.**
Photographs

Existing Guest House

DG Set & Pump Room
Unavailable Patch of Boundary Wall

Runway 14 End and Unavailable Boundary Wall
(Land needs to be acquired)
Requirements for operation of RCS Airport Code-1B

1. Minimum Length of Runway -800 mtr.
2. Minimum Basic Strip -30 Mtr. on either side
3. Shoulder required –Nil
4. RESA-(2xwidth of runway)x 30 mtr.
5. Apron Size-70X35
6. Taxiway width-10.5 mtr.
7. Terminal Building – Covered area 525 sqm.
8. Car Park for 25 cars @ 20 sqm. per car = 500 sqm.
9. Lateral Transition slope 20%
10. Longitudinal Transition slope 5%

M 28 Aircraft Technical Information (M 28 Twin Turboprop Aircraft)

- **Passenger Capacity** - 19 passengers + 2 Crew
- **Cabin Length** - 5.26 mtrs.
- **Cabin Height** - 1.70 mtrs.
- **Cabin Width** - 1.73 mtrs.
- **Cabin Volume** - 13.7 m$^3$
- **External Luggage Pod Volume** - 1.3 m$^3$
- **Rear door length** - 2.6 mtrs.
- **Rear door width** - 0.9 – 1.2 mtrs.
- **Wing Span** - 22.06 mtr.
- **Length** - 13.10 mtr.
- **Tail height** - 4.90 mtr.

Specifications

**Performance (estimated)**
Sea level, standard day, maximum takeoff gross weight unless otherwise noted

- **Maximum Takeoff Gross Weight** - 7500 Kg.
- **Takeoff Distance** - 548 m
- **Landing Distance** - 499 m
- **VMO** - 355 km/h
- **Maximum Cruise Speed** - 355 km/h
- **Long Range Cruise Speed** - 244 km/h
- **Range (10,000 ft, 45 minute reserve)** - 1592 km
- **Range with Auxiliary Fuel Tanks (10,000 ft, 45 minute reserve)** - 2444 km
- **Average Fuel Flow (10,000 ft.)** - 268 kg./hr
- **Endurance Standard Tanks (10,000 ft., 45 minute reserve)** - 6.2 hours
- **Endurance Auxiliary Tanks (10,000 ft., 45 minute reserve)** - 11 hours
- **Stall Speed** - 118 km/h
- **Rate of Climb** - 12.29 m/s
- **Service Ceiling** - 7620 m
- **OEI Service Ceiling** - 3901 m
Weights

Maximum Takeoff Gross Weight - 7500 kg.
Empty Weight - 4354 kg.
Useful Load - 3145 kg.
Maximum Payload - 2300 kg.
Maximum Fuel Weight - 1766 kg (2278 I)

Fuel System

Normal Capacity - 2278 I
Auxiliary Ferry Tank - 2090 I

Dimensions

Propeller Diameter - 2.82 m
Wheelbase - 3.39 m
Wing Tip to Wing Tip turn radius - 14.73 m

Engines

Manufacturer/ Type - (2) PRATT & WHITNEY, CANADA PT6A-65 B
Max. take-off power (per engine) - 820 kw
Max. continuous power (per engine) - 820 kw
Max. cruise power (per engine) - 745 kw
Max. climbing power (per engine) - 745 kw

Dornier 228-212
- Wing Span (Over Winglets) - 16.97 m
- Wheel Base - 6.29 m
- Passanger Capacity - 19 Seats

Beechcraft 1900 D

Aircraft Range - 1500 nm
Fuel Capacity - 2022 kg.
Main Gear - Dual
Passenger Capacity - 19 seats

A. Maximum Aircraft Ramp Weight - 7736 kg.
B. Maximum Aircraft Landing Weight - 7530 kg.
C. Maximum Aircraft Takeoff Weight - 7688 kg.
D. Minimum Turning Radius - Not Available
E. Length (Overall) - 17.63 m
F. Wing Span (Over Winglets) - 17.67 m
G. Tall Span - 5.63 m
H. Wheel Base - 7.25 m
I. Wheel Track - 5.23 m
J. Tail Height - 4.72 m
**Action Plan**

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

- Extension of apron by 850 Sqm) (overall size 70mX35m= 2450 Sqm.)
- Basic strip grading
- Construction of RESA 46X30 mtr
- Fire CFT Holding position road 5.0 mtr wide
- Connection roads from fire station & ATC tower
- Runway and Apron Markings
- Car park area – 25X20 mtrs.

Necessary drawings/specifications shall be provided by AAI.

Monitoring by RED, NR.

Approx. Cost: Rs. 3.0 Crore

PDC: June 2018

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

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

Existing guest house building (Area 435.00 sqm.) is proposed to be modified with minimum covered area as 525 Sqm. with kerb area 275 Sqm. to be used as Terminal Building. The modification of existing guest house to be used as terminal building drawings and estimates will be sent to AAI by state govt. for approval, work shall be executed by UPRNNL, funds for modifications etc. are to be released by AAI as decided vide Under Secretary MOCA’s letter no. AV 20036/49/2017-AD dated 24.11.2017. 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.2.50 Crores

PDC: June 2018

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

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

- The present boundary wall is 2.10 mtr. high brick wall with barbed wire fencing which needs to be raised to 8 feet + 1.5 feet concertina coil. In the stretch of 410.00 mtrs the boundary wall is not available. SDM Azamgarh informed that the land acquisition for construction of boundary wall is in advance stage & the same will be completed soon.

- Provision of fire crash gates on both ends of boundary wall.

Approx. Cost: Rs.1.50 Crore

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: April, 2018

**Action:** AAI, CHQ Structure Dte.
Other Misc. Civil works:- (To be done by State Govt.)

Cooling pit, windsock, ARP, etc. The location for these works identified and action for completion shall be taken up by UP State govt.

Approx. Cost: Rs.0.50 Crore

PDC: June 2018.

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

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

Approach road from highway to be widened to two lane road with boom barriers 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. Alternatively over proposed terminal building one Room for CNS infrastructure and over it one room for ATC to use as ATC tower may be provided.

PDC: June 2018

**Action:** Engg. Dte.,CHQ/ ED (CNS)

**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.)**

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.- **CHQ (CNS-P) is taking action to procure facilities**
2) Digital Clock.
3) Direct Telephone line with STD facilities and Fax machine.
4) Intercom facilities with CNS units, fire stations etc.
5) Direct Hot Line with City fire brigade.
6) At least two sets of Walky-Talky equipment’s.
7) Crash Fire Alarm and PA systems.
8) Mobile Phone with dual SIM (One from BSNL and other having good coverage)
9) Computer with internet facility and Printer.
   - RHQ’s is required to take action to provide facilities from Sl. No. 2 to 9
   - It is required to install two ACs for VHF AND DVR equipment.
   - A new Earthling is required to make before installation of CNS equipment.
   - **Local administration has to take up the issue with BSNL/Other service provider to terminate few lines inside airport premises.**
   - DG set is not provided as back-up for mains supply. It needs to be provided as back-up.
   - No furniture available for CNS equipment. Needs to provide few basic furniture for equipment and officers.

Approx. Cost: Rs. 1.0 Crore

PDC: June 2018

- **Action:** State Govt. / CNS dte.AAI,CHQ

**Security Equipment:** (To be done by AAI)

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

All security equipments shall be procured /provided by AAI to Govt. of UP on rental basis

PDC : June,2018.

- **Action:** State Govt.

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

Azamgarh airport is lying in restricted area VER75A which belongs to Gorakhpur. Before commencing operations at Azamgarh airport, coordination procedure may be established with Gorakhpur ATC. OLS Survey needs to be carried out before commencement of operations. For survey and OLS charting Award letter has already been placed by CHQ vide letter No. AAI//9-3/RCS/2018(Survey) dated 23.02.2018. After survey / OLS study, the identified obstacles will be marked by State Govt. and action for removal shall be taken by State Govt. of UP.

PDC: April ,2018

- **Action:** State Govt. / ED(ATM), CHQ, AAI
Fire Services:- (To be done by AAI./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.-To be provided by AAI on rental basis to state govt.
b. 01 CFT 01 Ambulance to be kept stand-by. - To be provided by AAI on rental basis to state govt.

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.

(To be provided by AAI on rental basis to state govt.)

- Before commencement of operation static tank and over head tank should be constructed so as to avoid water supply shortage. –To be constructed by State Govt.

- ARFF competent firefighting crew along with fire extinguishing media for category-IV is required to be commissioned before commencement of operation.

- The necessary Fire personnel shall be identified / deputed by State Govt. and duly trained by AAI.

PDC: June 2018

Action: State Govt./ RED, NR, AAI

Security Services:-

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.

Action: State Govt. / BCAS

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

- The approximate 8 mtr x 10 mtr covered hall to be required for installation of AMF Panel, LT Panel and Sub-station equipments, same shall be made available by state govt.
  - The standby power supply source i.e. DG set with AMF Panel and LT Panel.
  - Internal & External electrification as per operational requirement.
  - Electrical fitting and fixtures i.e. Fan, LED Light Fitting in existing terminal building.
  - Air-Conditioning of existing terminal building for passenger facilitation and operational equipments.
  - Water Coolers and RO System for drinking water supply.
  - Electronic Weighing Machine for checking counters.
  - Signages for passenger facilitation in existing terminal building.
  - Signages for operational area i.e. runway, taxiway etc.
- Electrical Installation in signaling area i.e. Windcone, Landing T etc.
- Electrical fitting & fixtures for new proposals / requirements by CNS, ATC, Civil etc.

**NOTE**: The Runway Lights, Taxiway Lights, PAPI Lights, Approach Lights, Apron High Mast Lights, Perimeter Lights are not considered for VFR operation.

Approx. Cost: Rs.2.0 crore

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.
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.

(Bharat Bhushan)  (C.B. Jain)  (I.R. Mishra)  (Rameshwar Gahtani)
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(Sandeep Sharma)  (A.S. Tripathi)  (Gaurav Karnwal)  (Rajesh Sinha)
AGM (ATM-IPD)  AGM (C)-Lucknow  DGM (Structure)  Jt. GM (CNS)
Annexure-I

List of Participants (Azamgarh Airport Visit on 23.02.2018)

### AAI Side

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<th>S.No.</th>
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### State Govt. / District Administration Side

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<td><a href="mailto:pdpwdazamgarh@gmail.com">pdpwdazamgarh@gmail.com</a></td>
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<td>7.</td>
<td>S.P. Singh</td>
<td>S.E.</td>
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<td><a href="mailto:gmaldd.jkenu@gmail.com">gmaldd.jkenu@gmail.com</a></td>
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