

**AIRFIELD ENVIRONMENT MANAGEMENT**

**COMMITTEE (AEMC) MEETING**  
**Conference Hall No. 3, 2nd level**  
**Delhi Secretariat**  
**IP Estate, New Delhi-02.**

**31 Jul 2019**



- AEMC was established to adopt measures for discouraging the presence of birds on or in the vicinity of an Airport.
- Constituted by the Lt. Governor of Delhi in 1980.
- Reconstituted as a Result of 20th High Level Bird Strike (HLBS) Meeting held on 30.4.1992 by Ministry of Civil Aviation.
- Chief Secretary/Secretary (Environment), GNCT Delhi – Chairperson.
- Helps in Strict Compliance of Rule 91 of A/C Rules of 1937 & Compliance with Aircraft Act of 1934 against dumping bird attractants within 10 km radius of Aerodrome Reference Point.
- Airfield Environment Management Sub-Committee is being constituted on direction issued by Secretary Environment, Govt. of NCT in AEMC meeting held in Delhi Secretariat on 20<sup>th</sup> September 2016.
- Main causes of bird hazard is due to presence of solid wastes, injudicious dumping of garbage/carcass, open sewerage etc. near the airfields.
- Last AEMC meeting was held on **08 Jan 2019**.

# Bird strike effect on aircraft at IGI airport in the year 18 Apr 2019



Vistara A-320 (UK 611) had bird hit en-route and suffered dent on radome, landed back at IGIA. Aircraft made a precautionary landing

# Recent Bird strike effect on aircraft (Airbus-320) at IGIA 20 Jun 2019,



**An Indigo Airbus 320 6E-846 had bird hit on final approach while approaching to land, in which the radome of the aircraft got damaged. Pariah Kite broke the radome and entered inside.**

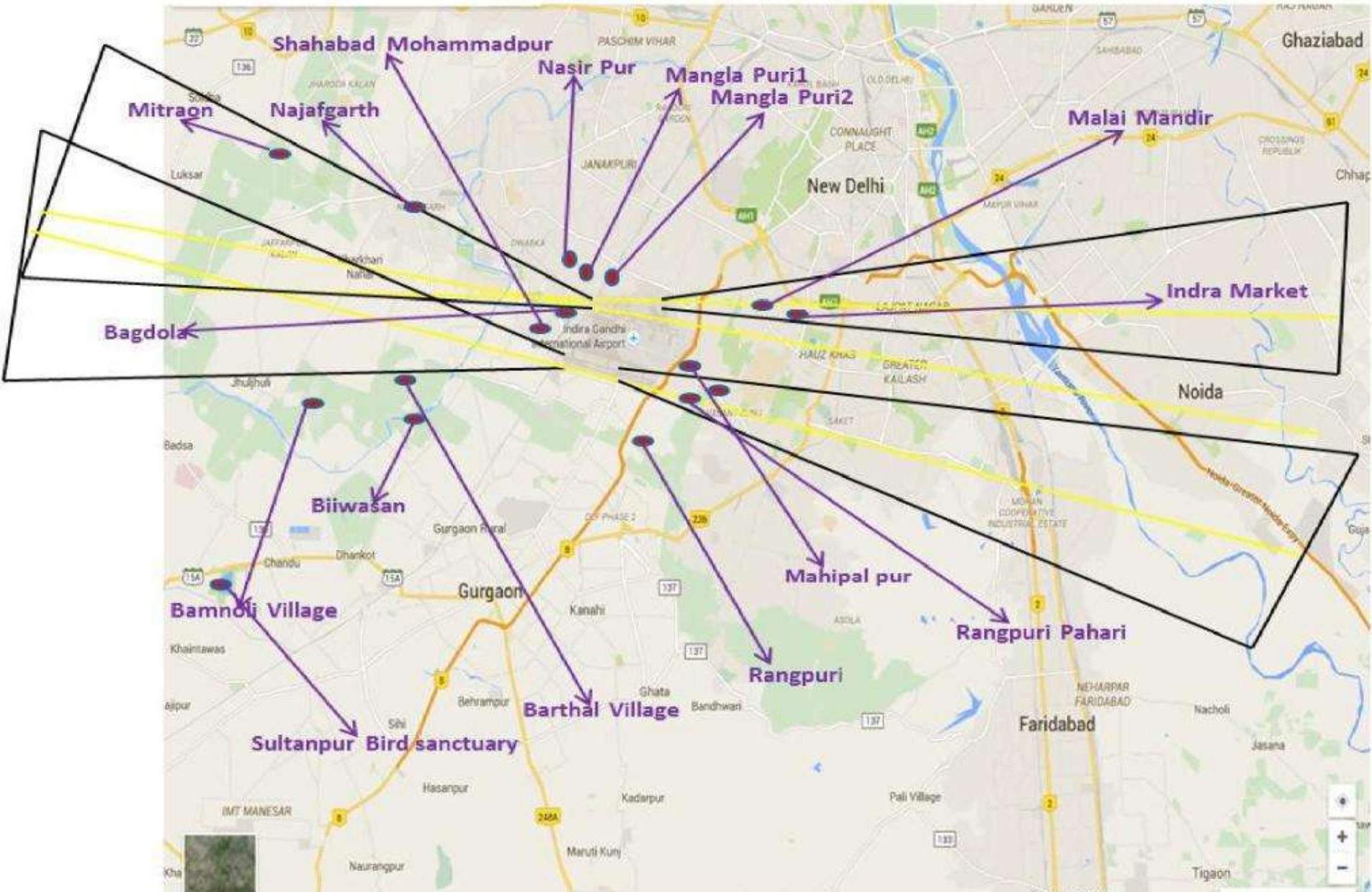
**Species in concern- Pariah Kite**



Go Air G8-221 had bird hit during take off roll. Aircraft returned back due PIC experienced high engine vibrations. Fan blades of engine got damaged.

**Species in concern- Pariah Kite**

# AREA OF CONCERN





# IMPROVEMENT IN CLEANING BUT SEWAGE WATER ACCUMULATION IS MAJOR SOURCE OF BIRD ATTRACATION

Rangpuri Pahadi lies in approach path of runway 29 and any garbage accumulation in this area increases bird activity and poses threat to aircraft safety. Removal of garbage and sewage water flow in open area will support safe aircraft operations approaching on Runway 29.





# ILLEGAL WASTE DUMPING & DE-SKINNING OF ANIMALS AT RANGPURI



ACTION POINTS	ATR
<p>DDA has constructed the wall around the concern area, which has significantly reduced the activity of garbage dumping in this area. However sewage drain water of unauthorized colony Mahipal Pur 'K' block is diverted to this area which contributes to significant bird movements. This is observed during each survey visit.</p> <p>Chairman had directed that till the proper sewerage is provided in the colony, land owning agency (DDA) to ensure the water is collected from the site and sent to sewerage treatment plant on regular basis.</p> <ul style="list-style-type: none"> <li>▪ <b>Action: DDA, Delhi Police</b></li> </ul>	<ul style="list-style-type: none"> <li>➤ Joint survey is carried out with DDA EE and DIAL official.</li> <li>➤ Area leveled and cleaning has improved. There is need of dhalo and flow of sewage drain water in open area need to be addressed and viable solution need to be worked upon.</li> <li>➤ Significant decrease in de-skinning &amp; dead animals observed in the area</li> <li>➤ Sewage waste drain water of unauthorized 'K' block is diverted to this open area.</li> <li>➤ Area remains neglected on pretext of ownership of land and no clear information from DDA land allotment department.</li> <li>➤ Pariah kite activity is observed in every monthly inspection of Rangpuri area which falls in the flight path of runway 29.</li> <li>➤ DDA expressed inability to remove the water.</li> <li>➤ Area is leveled and there is improvement in cleanliness.</li> <li>➤ DDA expressed inability to remove the water</li> </ul>

# INDRA MARKET – RK PURAM - REGULAR REMOVAL OF GARBAGE SLAUGHTER WASTE FROM DRAIN/AREA BY MCD

Indira Market lies in the approach path of Runway 27 and 28 and people operating illegal meat shop have re-encroached the market due delay in wall erection decision on the part of DDA. Even old wall is developing cracks and fall anytime. Such unsafe environment on flight path is a compromise to flight safety.



# INDRA MARKET – R. K. PURAM --REGULAR REMOVAL OF GARBAGE /SLAUGHTER WASTE FROM DRAIN/AREA BY MCD



ACTION POINTS	ATR
<p>Chairman had directed DDA to barricade entire market by erecting wall to safe guard their land and avoid re-encroachment by illegal meat seller. SDMC was also directed to provide extra garbage bin and ensure garbage collection is done in confined area. Chairman instructed that regular inspection/enforcement to be conducted at every 15 days by South MCD veterinary wing and Delhi Police. It was also instructed that a Beat constable to keep watch on illegal activity on the above said area. DDA was asked to complete the construction of wall to barricade the entire area.</p> <p>It was requested to SDMC to look into re-modification of existing Dhalao structure, so that it becomes accessible to user. Chairman also suggested that a Pilot project for underground Dhalao be explored by DIAL under CSR.</p> <p><b>Action: SDMC, DDA, Delhi Police</b></p>	<ul style="list-style-type: none"> <li>➤ Monthly site visit are carried out with MCDard DDA official for review.Wall is constructed on only front side of market and adjacent drain.</li> <li>➤ Meat shop demolished but boundary wall still not erected and meat sellers have re-encroached the area.</li> <li>➤ Irregular inspections conducted by SDMC veterinary wing.</li> <li>➤ Major Pariah Kite activity is observed in every monthly inspection visit.</li> <li>➤ Garbage bins provided out side the market are not sufficient and garbage collection is done in open area.</li> <li>➤ Meat/ fruit remains thrown in adjacent drain is main cause of increased bird activity in area, which need to be cleaned on regularbasis.</li> <li>➤ The Market was demolished in 2017 and subsequently on 06 Sep 18 and10 Oct 18 due to re-encroachment by illegal meat sellers</li> <li>➤ Wall has not been erected by DDA along the market to barricade the area as decided in previous AEMC meetings and there is no presence of police patrol (Beat Constable) to dissuade illegal meat seller.</li> </ul>

# CONCERN AREAS IN THE VICINITY OF AIRPORT SHAHBAD MOHAMMADPUR/ BAGDOLA

Shahabad Mohammadpur, and Bagdola village are very important as they are in close proximity of airport perimeter and lie on Runway 11 /10 approach and Runway 29/28 take off path. Any bird concentration in this area increases threat to aircraft safety. Huge garbage is generated on day to day basis and is being dumped in open area.



ACTION POINTS	ATR
<p>It was instructed by Chairman to SDMC that the frequency of garbage removal to be increased for proper disposal of garbage and to conduct awareness program for educating people of nearby areas about risk involvement in aviation due to open dumping of waste/garbage. Senior officials to carry out inspection at least once in 15 days. It was also agreed that Dhalao to be constructed in that area. SDMC and DIAL to jointly identify area for the same.</p> <p><b>(Action: SDMC/DDA)</b></p>	<ul style="list-style-type: none"> <li>➤ Team conducted monthly site visit for review of area with AE MCD and DDA but EE MCD is not part of survey.</li> <li>➤ Social awareness meetings are carried and out on regular basis.</li> <li>➤ Bins/large bins are not provided and requisite cleaning take place on the day of surveys</li> <li>➤ Large amount of garbage is generated on daily basis and garbage is thrown in open area. There is urgent need for large waste container to be placed in the said area so that garbage gets collected in a confined way.</li> <li>➤ Need for dedicated man power and increased frequency of garbage removal to support waste management.</li> <li>➤ MCD official informed no suitable place in Shahbad for Dhalao. Small tippers will be deployed for collection of garbage.</li> <li>➤ There is no development for hiring the private agency for collection of garbage</li> </ul>
<p style="text-align: center; font-size: small;">Humility   Entrepreneurship   Teamwork and Relationships   Deliver the Promise   Learning   Social Responsibility   Respect for Individual</p>	

Bharthal village is very critical as it lies very near to Runway 11 approach and Runway 29 take off path. Any bird concentration in this area increases threat to aircraft safety. Huge garbage is generated on day to day basis and is being dumped in open area.



# GARBAGE DUMP AT VARIOUS LOCATION IN BHARTHAL VILLAGE



ACTION POINTS	ATR
<p>There is an urgent need of constructing 2-3 dhalao in Bharthal village for accumulated on daily basis. One of the garbage dump is on railways land</p> <p>It was informed by EE SDMC that tendering process for the construction of two new Dhalao has been initiated and same is under process. The Dhalaos will be constructed shortly.</p> <p><b>Action: SDMC/ DDA</b></p>	<ul style="list-style-type: none"> <li>➤ Team carry out regular inspection and 02 site have been identified in the area for dhalao construction in co- ordination with DDA and MCD official</li> <li>➤ Garbage is scattered in open area and cleaning takes place only on day of inspection.</li> <li>➤ Area has been identified in coordination with DDA and MCD for dhalao .Site map is handed over by DDA to MCD but now construction of two new Dhalao has been postponed by SDMC.</li> <li>➤ In previous meetings SDMC officials informed that private vendor is hired and garbage collection will be done by them, but no improvement.</li> <li>➤ 03 sites were identified and shortlisted in coordination with DDA and MCD for dhalao construction in Bharthal village. Only one dhalao has been constructed. The proposal for remaining two dhalaos is presently pending with DDA..</li> <li>➤ It is long pending issue for more than two year.</li> </ul>

# GARBAGE DISPOSAL ON BOTH SIDE OF RAILWAY TRACK RWY 09, 10 & 11 APPROACH

Waste is being dumped on the railway land on the both the side of railway line which lies in approach path of all three runways i.e 09/10 and 11.  
Garbage dumped in this area is main reason of heavy bird activity which is not safe for aircraft operations. Construction of wall on either side of railway track is in progress. However area needs to be cleaned by Railway/SDMC on regular basis.





# GARBAGE DISPOSAL ON BOTH SIDE OF RAILWAY TRACK



ACTION POINTS	ATR
<p>It was informed by official from DIAL that waste is being dumped on Railway land either side. Secretary (Environment) directed SDMC to lift the garbage from Railway land as the area lies in approach of runway 09, 10 and 11. Chairman clarified irrespective of ownership of land the garbage/waste material has to be cleared by Municipal Corporation as per instructions issued by Honorable Lieutenant Governor Delhi.</p> <ul style="list-style-type: none"> <li>▪ (Action: Indian Railways SDMC /DOE GNCT Delhi)</li> </ul>	<ul style="list-style-type: none"> <li>➤ Area is cleaned many times by DIAL to avoid bird concentration in the approach path.</li> <li>➤ Some of the portion is cleaned only once by SDMC, though cleaning required on both side of Railway track close to all three runways i.e 09/10/11.</li> <li>➤ Waste is being dumped on the railway land on the both the side of railway line which lies in approach path of all three runways i.e 09/10 and 11.</li> <li>➤ There is urgent need for improvement in waste collection as the area is located on runway 10 approach path. side of IGI airport.</li> <li>➤ Erection of wall on either side of track has commenced from Shahbad Mohmmadpur towards runway 10 approach area.</li> </ul>

Old Dhalao is demolished at this site and construction of new has not completed yet. Garbage is scattered all over leading to attraction of birds. Heavy bird activity over this area.



# GARBAGE DUMPING IN OPEN NEAR MANGLAPURI BUS TERMINAL AND ILLEGAL MEAT SHOPS IN MANGLAPURI



ACTION POINTS	ATR
<p>It was informed that though there has been considerable improvement however the frequency of cleaning needs to be increased. Chairman directed to increase frequency of waste removal and not to keep waste dump in open area.</p> <p><b>Action: SDMC</b></p>	<ul style="list-style-type: none"> <li>➤ Joint survey is carried out with MCD AE. and DIAL official.</li> <li>➤ Site visit report Communicated to Police, DDA ,MCD &amp; Dept. Environment &amp; DGCA</li> <li>➤ Old Dhalao was demolished and construction of new has not completed yet.</li> <li>➤ Garbage is scattered all over leading to attraction of birds.</li> </ul>

Service road adjacent to Dwarka sector 8 drain need to be maintained otherwise there is high possibility of garbage accumulation in this Area. There is requirement of raising the kerbstone and footpath to avoid the entry of vehicle for dropping the garbage. Removal of silt from drain TD -2 is required.



ACTION POINTS	ATR
<p>It was informed that service road adjacent to Dwarka Sector 8 drain needs to be maintained otherwise there is high possibility of garbage accumulation in this area as it also adds to dust pollution. Necessary greening of the area was advised.</p> <p>Chairman directed DDA to repair the service road and SDMC was instructed to clear the garbage/construction material from the site.</p> <p><b>(Action: SDMC, DDA)</b></p>	<ul style="list-style-type: none"> <li>➤ Joint survey is carried out with DDA ,MCD and DIAL official.</li> <li>➤ Site visit report Communicated to Police, DDA ,MCD &amp; Dept. Environment &amp; DGCA</li> <li>➤ Service road adjacent to Dwarka sector 8 drain need to be maintained otherwise there is high possibility of garbage accumulation in this Area.</li> <li>➤ Old Dhalao was demolished for construction of new compactor compatible but construction has not completed yet.</li> <li>➤ Garbage is thrown in open.</li> </ul>

## POCHAN PUR



# GARBAGE DISPOSAL AROUND POCHAN PUR AREA

ACTION POINTS	ATR
<ul style="list-style-type: none"><li>It was informed that Pochan Pur area needs immediate attention as there is huge amount of garbage has been accumulated with no proper garbage disposal system. SDMC was advised to ensure the cleanliness of the area.</li><li><b>Action: SDMC</b></li></ul>	<ul style="list-style-type: none"><li>➤ Joint survey is carried out with SDMC and DIAL official.</li><li>➤ Site visit report Communicated to Police, DDA, MCD</li><li>➤ The wall is constructed by DDA along the drain and significant dumping of garbage stopped.</li></ul>

# JAI HIND COLONY: GARBAGE/CONSTRUCTION WASTE DUMPING IN OPEN AREA IN JAI HIND CAMP OPPOSITE VASANT SQUARE MALL VASANT KUNJ.

The area needs immediate attention as there is no garbage collection system in place. The portion of land belongs to DDA where garbage is thrown openly in huge quantity. There is urgent need to stop waste dumping as the area is located on runway 29 approach path.





ACTION POINTS	STATUS
<p>It was informed that Jai Hind colony area needs immediate attention as there is huge amount of garbage has been accumulated by hutments with no proper garbage disposal system. It was informed that area needs immediate attention as there is no proper garbage disposal system. It was agreed that DDA officials along with DIAL would carry out joint inspection of the said area.</p> <p><b>Action: SDMC</b></p>	<ul style="list-style-type: none"> <li>➤ EE SDMC informed the demolition of these hutments will be carried out shortly.</li> <li>➤ Main entry and rear side boundary wall is broken, which are giving way to unauthorized activity.</li> <li>➤ Joint survey is carried out with DDA EE. and DIAL official.</li> <li>➤ Site visit report Communicated to Police, DDA, MCD &amp; Dept. Environment &amp; DGCA</li> <li>➤ DDA official informed the cleaning of the area has been carried out and a security guard has been posted to ensure there is no further littering.</li> </ul>

# NEW POINT - GARBAGE DISPOSAL AROUND MAHIPAL PUR AREA RADISSON HOTEL ROUNDNEL



# NEW POINT - GARBAGE DISPOSAL AROUND MAHIPAL PUR AREA RADISSON HOTEL ROUNDAL



ACTION POINTS	ATR
<p>Area near Radisson hotel roundel has been beautified by SDMC but no improvement in garbage collection in the area of Rajokri.</p> <ul style="list-style-type: none"> <li>▪ <b>Action: SDMC</b></li> </ul>	<ul style="list-style-type: none"> <li>➤ Committee has been monitoring Mahipal Pur and areas in vicinity of airport and surveyed along with MCD staff.</li> <li>➤ There is no improvement in that area despite challans being issued to NHAI by MCD.</li> <li>➤ Bird activity is observed during site inspection.</li> <li>➤ Bins are required to be placed at various locations to cater garbage generated on daily basis.</li> </ul>

THANK YOU

- **Aircraft Rule, 1937, Sec 91, Prohibition of slaughtering and flaying of animals, depositing of rubbish and other polluted or obnoxious matter in the vicinity of aerodrome (10 KM)**. - No person shall slaughter or flay any animal or deposit or drop any rubbish, filth, garbage or any other polluted or obnoxious matter including such material from hotels, meat shops, fish shops and bone-processing mills which attracts or is likely to attract vultures or other birds and animals within a radius of ten kilometers from the aerodrome reference point.
- And, Penalty for violation of Rule 91 as mentioned in **Sec-10 (1A)** of the **Aircraft Act 1934** which says that “If any person contravenes any provision of any rule made under clause, (qq) of sub-section (2) of section 5 prohibiting the slaughter and flaying of animals and of depositing rubbish, filth and other polluted and obnoxious matter within a radius of ten kilometers from the aerodrome reference point, **he shall be punishable with imprisonment which may extend to three years, or with fine which may extend to ten lakh rupees or with both**”.