File no. AERA/20010/MYTP/AAI-Patna/CP-I/2018-19/ Airports Economic Regulatory Authority of India

AERA Building. Administrative Complex. Safdariung Airport. New Delhi - 110 003.

Date: 12th June, 2019

Public Notice No. 06/2019-20

To

State Govt./ All the Airport Operators/ All Independent Service Providers/ Registered Cargo trade bodies/ Airlines/ Oil companies and other stakeholders.

Sub: Extension of time for submission of written comments.

- 1. Attention is invited to AERA Public Notice No. 04/2019-20 dated 22.05.2019 regarding Stakeholder Consultation Meeting on 07.06.2019 on the Consultation Paper no. 03/2019-20 dated 08.05.2019 regarding Determination of aeronautical tariffs in respect of Jay Prakash Narayan International Airport, Patna for the first control period (01.04.2018-31.03.2023) uploaded on AERA website.
- 2. The Stakeholder Consultation Meeting was held as per schedule. As per laid down procedures, the Airport Operator, AAI Airport Director, Patna, made the MYTP Presentation. However, the Authority noted that there was a scant representation from among the Stakeholders Group.
- 3. In view of the above, the Authority, has decided that a copy of the Presentation made by Airport Director Patna, during the meeting, be shared with the Stakeholders, in order to enable them to furnish their comments to AERA. Accordingly, the said PPT is attached with this Public Notice.

4. For the above purpose, all the stakeholders are also informed that, accordingly, the Competent Authority has extended the last date for submission of written comments on the above mentioned Consultation Paper from 14.06.2019 to 21.06.2019.

End: PPT attached;

(Geetha Sahu)

AGM (F)

Tel.: 24695043



जय प्रकाश नारायण अंतरराष्ट्रीय हवाईअड्डा पटना JAI PRAKASH INTERNATIONAL AIRPORT, PATNA



MULTI YEAR TARIFF PROPOSAL FOR 1ST CONTROL PERIOD

01.04.2018 TO 31.03.2023



APPRECIATION

AAI THANKS AERA FOR THE GUIDANCE AND SUPPORT IN FINALIZATION OF MYTP FOR THE 1ST CONTROL PERIOD OF PATNA AIRPORT.

AGENDA

- Brief on Patna Airport.
- Traffic Forecast.
- Major Capex projected for the First Control Period.
- Submissions of AAI on CP
- Annual Tariff Proposal (ATP) for the First Control period.

PATNA

- ❖ Patna Airport was previously the Golf Course of Maharaja Darbhanga & Airport has evolved after number of expansion and extension works at both air and city side.
- Long back this was the land of all the great empire namely Mauryas & Guptas. This was the land of eminent scholar Chanakaya & Lord Budha.
- ❖ This the land of Birth of Shri Govind Singh Maharaj, the tenth Guru of Sikhism.

PATNA-CONTD.

- This was the place which has taught democratic value to entire world i.e. Vaishali 70.k.m from Patna was the oldest known republic in global history.
- This Airport provides connectivity for various tourist destinations i.e Nalanda, Vaishali, Pawapuri & Rajgir.
- Patna is the only major Airport catering to entire state of Bihar.
- ❖ Patna airport is located in the heart of the city, 3 KM from Secretariat, 5 KM from railway station and 7 KM from city center (Gandhi Maidan)

PATNA-CONTD.

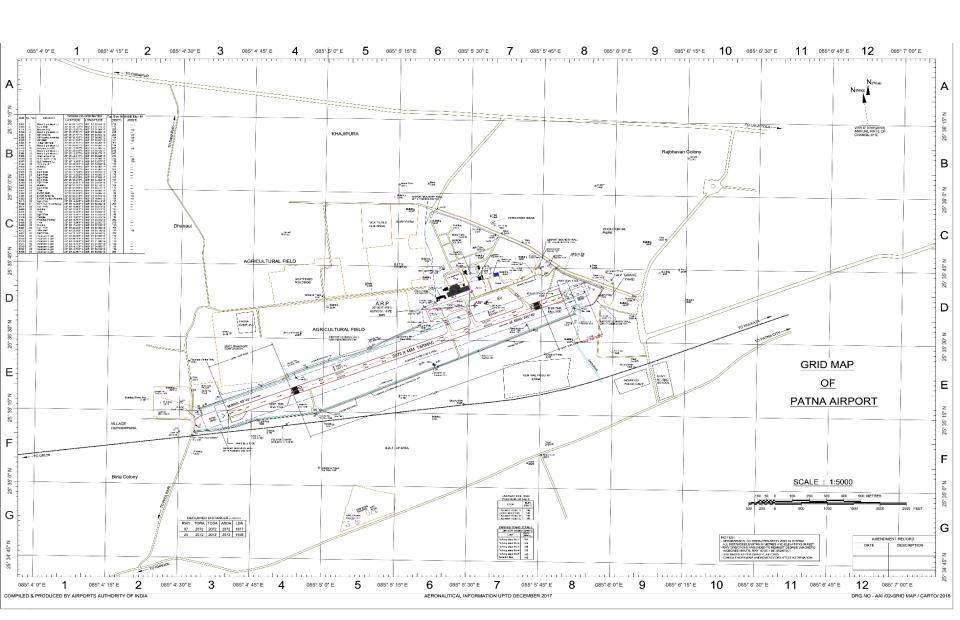
❖ The airport is having 247.16 acres of land surrounded by serene environment of Zoological Garden, heritage monument of Central secretariat at one side and Phulwarisharif shrine on another side.

DEVELOPMENT OF JOINT USE AIRPORT FOR AAI AND IAF AT BIHTA

- Bihta Airport in the state of Bihar belongs to IAF.
 Due to operational constrains at Patna, it was decided to develop a Joint Use Airport at Bihta in addition to new terminal building at Patna for handling annual capacity of 2.5 mppa in Ph-1.
- State Govt. is under process of acquiring 150 acres of land for extension of Runway to accommodate Code E Aircraft.
- Bihta Airport likely to be commissioned in the last year of 1st control period of Patna Airport.



GRID MAP OF PATNA AIRPORT



OPERATIONAL CONSTRAINTS

Runway Constraints

Parking Bay Constraints

Terminal
Building
Constraints



TECHNICAL DATA

APRON AREA	22440 Sqm
APRON CAPACITY	TOTAL BAYS :- 06 (all for
	A320/B737)
SUITABILITY	Code – C aircraft
RUNWAY ORIENTATION/	07/25
DIMENSION	2072M X 45M

TIME OF TURN AROUND (30-40 MIN FOR DOMESTIC)
NUMBER OF ARRIVALS IN PEAK HOURS 05
Declared Capacity: 05 arrival & 05 departure

SCHEDULED AIRLINES



CONNECTIVITY



- **★Delhi**
- **★ Kolkata**
- **★Mumbai**
- **★Chennai**
- ★ Ranchi
- **★**Hyderabad
- **★**Bangalore
- **★Guwahati**
- **≯Lucknow**
- **★ Varanasi**
- **★Ahmedabad**

TOTAL 43 FLIGHTS/DAY

TERMINAL CAPACITY (EXISTING)

EXISTING TERMINAL AREA

DOMESTIC

8589 **SQMT**

PEAK HOUR CAPACITY

DOMESTIC

400 PAX

ACTUAL THROUGHPUT PAX PEAK HOUR

DOMESTIC

1750 PAX

TERMINAL BUILDING DATA (EXISTING)

Sl. No.	Particulars	T1
1	TERMINAL BUILDING BUILT UP AREA IN SQM	8589
2	ANNUAL DESIGN CAPACITY IN MILLION	0.7 MPPA
3	PEAK HOUR CAPACITY	400
4	ENTRY / EXIT GATES	02
5	CONVEYOR BELTS (Arrival)	02
6	ESCALATORS	NIL
7	ELEVATORS	NIL
8	AEROBRIDGE	NIL
9	NO. OF TROLLEYS	500
10	CHECK- IN COUNTERS	15

PASSENGER FACILITIES

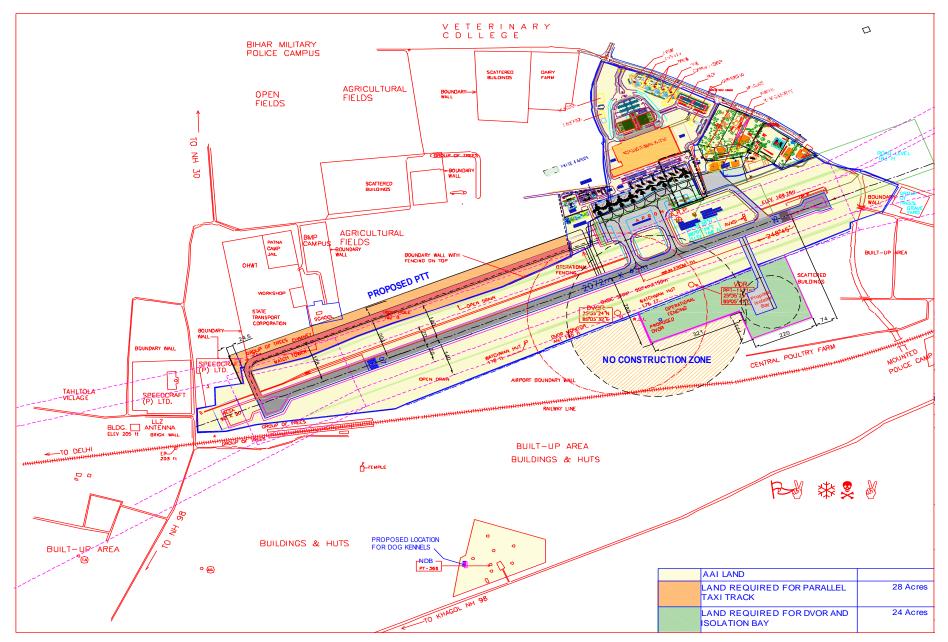
S. No.	Particulars	No.
1	Lifts	01
2	Drinking water facilities	6
3	Child Care Room	02
4	VIP Lounges	02
5	F&B Outlets	10
6	Retail Outlets	10

PASSENGER FACILITIES -CONTD

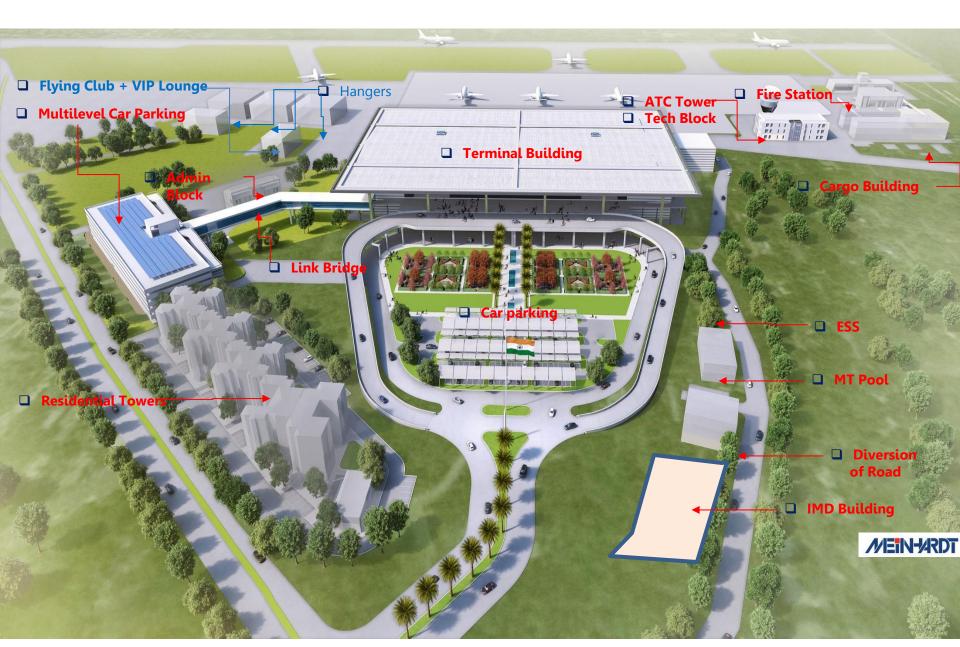
S.No.	Particulars	No.
7	ATMs	2
8	Money Exchange Counter	1
9	Post Office	1
10	CUTE Counters	15
11	CUSS Counters	5
12	Chairs	700
13	Boarding Gates	5
14	Trolleys	500



PATNA AIRPORT MASTER PLAN



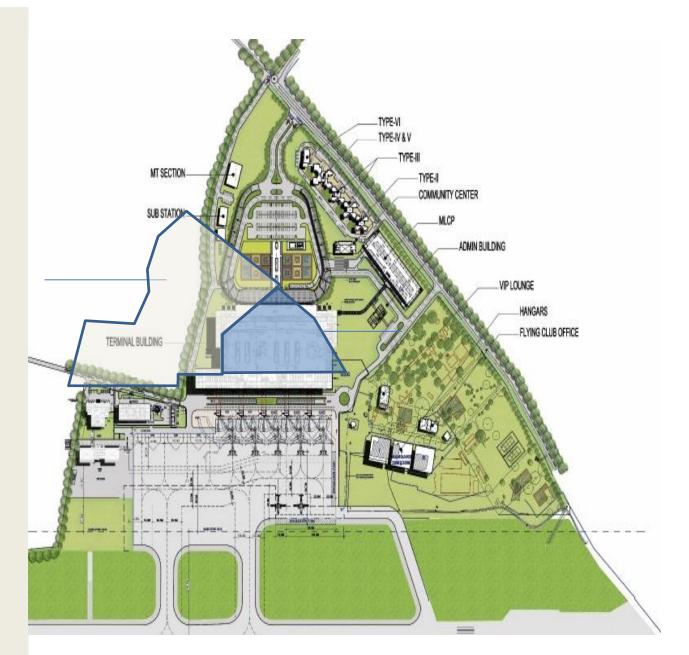
AERIAL VIEW - NEW TERMINAL



SCOPE OF WORK-NEW PROJECT

AAI Works

- Terminal Building
- ATC Tower
- Technical Block
- Fire Station
- MT Pool Building
- Administration Block
- Multilevel Car parking
- Link Bridge
- Elevated Road
- Residential Towers
- Community centre
- IMD Building
- Parking
- Cargo Building
- High Side InfrastructureService



TRAFFIC DATA & PROJECTIONS

Basis of Projections:

Forecast for Passenger & Aircraft Traffic based on:

- Past trends.
- **Econometric analysis & Regression analysis.**
- Considering various economic factors & policy framework etc.

TREND AND PROJECTIONS (PAX)

F.Y	Domesti C	Internati onal	Total Passengers	Growth Rate		
				Domestic	International	Total
2012-13	1003169	Nil	1003169		Nil	
2013-14	1045237	Nil	1045237	4.2%	Nil	4.2%
2014-15	1196540	Nil	1196540	14.5%	Nil	14.5%
2015-16	1584013	Nil	1584013	32.4%	Nil	32.4%
2016-17	2112150	Nil	2112150	33.3%	Nil	33.3%
2017-18	3111273	Nil	3111273	47.3%	Nil	47.3%
2018-19	4061990	Nil	4061990	30.6%	Nil	30.6%
2019-20	5199347	Nil	5199347	28.0%	Nil	28.0%
2020-21	5979249	Nil	5979249	15.0%	Nil	15.0%
2021-22	6876136	Nil	6876136	15.0%	Nil	15.0%
2022-23	8801454	Nil	8801454	28.0%	Nil	28.0%

TREND AND PROJECTIONS - AIRCRAFTS MOVEMENT

TRAFFIC EXCLUDING DEFENCE & PARA MILITARY MOVEMENTS							
Growth Rate							
Year	Dom.	Intl.	Total	Dom.	Intl.	Combined Total	
2012-13	9956	Nil	9956		Nil		
2013-14	9900	Nil	9900	-0.6%	Nil	-0.6%	
2014-15	11054	Nil	11054	11.7%	Nil	11.7%	

13944

15508

21916

28087

33143

39109

46149

54456

26.1%

11.2%

41.3%

28.2%

18.0%

18.0%

18.0%

18.0%

Nil

Nil

Nil

Nil

Nil

Nil

Nil

Nil

26.1%

11.2%

41.3%

28.2%

18.0%

18.0%

18.0%

18.0%

Nil

Nil

Nil

Nil

Nil

Nil

Nil

Nil

2015-16

2016-17

2017-18

2018-19

2019-20

2020-21

2021-22

2022-23

13944

15508

21916

28087

33143

39109

46149

54456

ACI/ASQ RATING

- **❖** ASQ Survey is carried out by ACI on 34 parameters on quarterly basis
- **❖** Patna Airport is falling under 2 to 5 million category
- **❖** ASQ rating for 2017 and 2018 is as given below

Year	2017	2018
Q1	4.28	4.51
Q2	4.53	4.55
Q3	4.60	4.23
Q4	4.55	4.35
Average	4.49	4.41

TERMINAL BUILDING RATIO -AERO VS NON-AERO

Particulars	Total Area	Aero Area	Ratio (%)	Non- Aero Area	Ratio (%)
Terminal Building FY18-19	8589 Sqm	7379.82 Sqm	85.92%	1209.18 Sqm	14.08%

PROPOSED TERMINAL BUILDING RATIO - AERO VS NON-AERO

Particulars	Total	Aero	Ratio	Non-Aero	Ratio
	Area	Area	(%)	Area (Sqm)	(%)
Proposed Terminal Building	65155	58010	89.03	Arrival -4270 Departure-2875 Total 7145	10.97

MAJOR CAPITAL WORKS

S.NO.	Name of the Project	Cost (In Crores)	Remarks
1	Construction of Apron Ph-1 9800 sqm	7.60	PDC:- DECEMBER 2019
2	Expansion of existing terminal building	13.66	PDC:- DECEMBER 2019
3	Construction of Residential Qtrs Area 13780 Sqm (For Operational staff)	50.24	PDC:- MARCH 2020
4	Construction of Fire Station Area 1665 sqm	13.25	PDC:- OCTOBER 2020
5	Construction of Terminal Building Area 65155 sqm	761.89	PDC:- OCTOBER 2022
6	Construction of Admin Block Area 1720 sqm	18.21	

MAJOR CAPITAL WORKS

S. NO	Name of the Project	Cost (In Cr.)	Completion Period
7	Construction of Community Hall Area 1390 sqm	7.91	PDC:- OCTOBER 2022
8	Construction of Elevated six lanes road and two lane ramp	76.28	PDC:- OCTOBER 2022
9	Construction of Link Bridge- MLCP to Terminal Building	6.14	PDC:- OCTOBER 2022
10	Construction of MT Pool Area 1500 sqm	12.51	PDC:- OCTOBER 2022
11	Construction of New Apron Area 7650 sqm (After demolishing the existing Terminal Building)	4.47	PDC:- JANUARY 2023 (8 nos additional Bays will be constructed totaling to 14 nos Bays after expansion.)
	Total	972.16	

SUBMISSIONS OF AAI ON CP

COST PER SQM OF NEW TERMINAL BUILDING UNDER NORMATIVE APPROACH

AERA has considered normative cost of Rs.100000 per SQM for Proposed Terminal Building (65155 Sqm).

AERA is requested to consider total cost of Terminal Building of Rs. 723.80 Cr. as proposed by AAI against Rs.580.07 Cr. due to following factors:-

- ➤ The Patna Terminal Building has an area of 65155 sqm. The limitation of repetition of activities in a defined time span, due to comparatively smaller size of Patna, adds to the cost component of the work.
- ➤ Patna Terminal Building has large span ranging from 18 mtr. To 36 mtr compared to normal span of 12 mtr. To 25 mtr.

MAJOR ITEM WISE REASONS FOR EXTRA COST OF TERMINAL BUILDING

S. NO	Description	Cost (Rs. In Cr.)	Rate(per sqm)
1	Extra Cost due to Superior finishes		
1a	Aluminum insulated PVDF Roofing system including structure	36.95	5670.57
1b	Curtain wall / stone cladding on outer envelope of TB	14.47	2220.62
1c	Superior flooring like granite	13.88	2129.86
2	Cost of PMC fee (5.69%+ 18% GST)	39.81	6113.11
3	Cost of Contingency @ 3%	22.19	3405.72
4	Difference of Tax on work-12% (GST18%-S.Tax6%)	71.17	10923.18
	Total	198.47	30463.08

After considering the above the cost of Terminal Building works out to Rs.85540/- per sqm.(1,16000-30460).

AERA is requested to consider Rs.1,16,000 per sqm for Patna.

COST PER SQM OF APRON UNDER NORMATIVE APPROACH

AERA has considered Rs.9 Cr. for Proposed Apron (15350 Sqm).

AERA is requested to consider total cost of Apron of Rs. 12.08 Cr. due to following factors:-

- The area of Apron is 17450. The area of GSE (2100 sqm) was inadvertently left out earlier.
- Impact of Tax rate & Contingency as under:-

S. NO	Description	Cost (Rs. In Cr.)	Rate(per sqm)
1	Cost of Contingency @ 3%	0.35	201.63
2	Difference of Tax on work-12% (GST18%-S.Tax6%)	1.61	921.74
	Total	1.96	1123.37

After considering the above the cost of Apron works out to Rs.5800/-per sqm. AERA is requested to consider Rs.6,922/- per sqm for Patna.

COST PER SQM OF SEMI PERMANENT EXPANSION OF TERMINAL BUILDING

AERA has considered Rs.18.50 Cr. for Proposed semi permanent expansion of Terminal Building (1850 Sqm) against the Rs. 35.23 Cr. Proposed by AAI.

AAI has finalized the modification plan of existing building at a revised cost of Rs.13.66 Cr. With a total area addition of aprox 2000 sqm.(1850 sqm in departure+150 sqm arrival). This include the following cost:-

• Cost of Expansion Rs.12.30 Cr.

Cost of equipments: Baggage claim conveyor & CCTV

SHIFTING/CONSTRUCTION OF MET BUILDING

- Existing MET building has to be re-located at a new location because of the construction of the New Terminal Building at the existing location.
- AAI has charged off the expenditure of Rs.10.14 Cr. towards MET re-location as the asset proposed to be constructed does not belong to AAI and will be handed over to MET.
- AERA is requested to consider expenditure of shifting/construction of MET building of Rs. 10.14 Cr. as this will not form part of AAI Assets.

REDUCTION IN REVENUE DUE TO NEW CAR PARKING POLICY

- JPNIA, Patna now operates 43 flights with an average passenger footfall of over 5000 departing pax per day, to cater to this average daily vehicle entry(over 4000 nos.) based on the pick time survey report conducted. From the total figure 36%(1440) are commercial, 50%(2000) are private and another 5%(200) are Govt. vehicle and rest is AAI staff and Partner vehicles.
- More than 40% avail free time facility of 10 mins as per existing policy.
- In new car parking policy, parking fee will be charged only from those vehicle which will enter the designated parking area. Being city based Airport, Very Few vehicles will park in designated parking area.

REDUCTION IN REVENUE DUE TO NEW CAR PARKING POLICY - CONTD

- The existing Car parking contract has been discontinued w.e.f. 9th April 2019. Presently AAI is managing car parking by deploying own manpower.
- New car parking tender will be called with new MRLF Rs.3.83 lacs p.m. specifically for JPNIA, Patna in view of the space constraints and related project construction factors.
- AERA is requested to consider New MRLF Rs.3.83 lacs per month against Rs.26.66 lacs per month as per the old contract for calculating projected revenue from car parking.
- The above will increase ARR to the tune of Rs.1.89 Cr.

CAGR OF PAST 2 YEARS (2015-16 TO 2017-18) FOR CARGO

- AERA in the Consultation paper has considered 62% growth for calculating future projection of Cargo revenue considering 2 year CAGR.
- AERA is requested to consider 5 year CAGR for calculating projected cargo revenue which works out to 13%.
- The above will increase ARR to the tune of Rs.1.79 Cr.

CARGO REVENUE FOR PAST 5 YEARS					(In	crores)
Particulars	2014-15	2014-15	2015-16	2016-17	2017-18	2018-19
REVENUE	0.16	0.21	0.17	0.12	0.43	0.31

DIFFERENCE IN SHORTFALL

		(Rs.in Cr.)
Particulars	AERA (CP)	AAI(Revised)
Date of Implementation	1 st May 2019	1st July 2019
PV of ARR (Inc.prior period)	390.3	428.46
PV of Projected Revenue	390.3	428.29
Shortfall	NIL	0.18

CONSIDERATION FOR AERA

- While projecting revenue for FY 18-19 an amount of Rs.6.25 lac in FY 17-18 pertaining to prior period income wrongly considered resulting in higher projection of aeronatutical revenue to the tune of Rs 0.31 Cr.
- An amount of Rs. 0.29 lac in TR stall considered twice FY 19-20 resulting in higher projection of non aeronatutical revenue to the tune of Rs1.14 Cr.
- AERA has considered growth rate for cargo projected revenue 62% while AAI is requested AERA to consider 13% considering 5 year CAGR.
- Implementation of New Car Parking Policy revenue likely to go down by 5 times. The new MRLF is 3.83 lac per months as compared to Rs.26.66 lac as per old contract.
- The cost of Cons. Of Staff Qtr has been reviewed and the revised cost is 50.24 cr. (Aeronauctical-Rs.32.30 cr.)
- All the above have a consequential impact on Depreciation and Tax.

Revised UDF of Rs.205/-(Dom) may be considered leaving a shortfall of Rs.0.18 Cr.

PROPOSED RATE CARD FOR W.E.F 01.07.2019

EXISTING LANDING CHARGES – DOMESTIC FLIGHTS FOR F.Y. 2018-19

Weight of the Aircraft	Rate Per Landing (In INR)
Upto 10000 Kgs	Rs.67.10 Per 1000 Kgs
10000 Kgs to 20000 Kgs	Rs.671/- Plus Rs.117.70 Per 1000 Kgs in excess of 10000 Kgs
Over 20000 Kgs	Rs.1848/- Plus Rs.231.00 Per 1000 Kgs in excess of 20000 Kgs

PROPOSED LANDING CHARGES – DOMESTIC FLIGHTS FOR F.Y. 2019-20

Weight of the Aircraft	Rate Per Landing (In INR)
Upto 25 MT	160 Per MT
Above 25 MT up to 50 MT	4000+280 per MT in excess of 25 MT
Above 50 MT up to 100	11000+320 per MT in excess of 50 MT
Above 100 MT to 200 MT	27000+390 per MT in excess of 100 MT
Above 200 MT	66000+440 per MT in excess of 200 MT

An increase of 31% is proposed on existing landing charges and 4% thereafter on year basis.

COMPARISON OF LANDING CHARGES (A320 ALL UP WEIGHT-74 MT)

Particulars	Existing Landing Charges (In Rs.)	Proposed Landing Charges(In Rs.)	%
Domestic	Rs. 14322/- per Aircraft	Rs. 18680/- per Aircraft	30.4%

EXISTING PARKING & HOUSING CHARGES

	Parking Charges Rates per Hour	Housing Charges Rates per Hour
Upto 40000 Kgs	Rs.1.80 Per Hour Per 1000 Kgs	Rs.3.50 Per Hour Per 1000 Kgs
40001 Kgs to 100000 Kgs	Rs.72+Rs.3.40 per Hour per 1000 Kgs in excess of 40000 Kgs	Rs.140+Rs.6.80 per Hour per 1000 Kgs in excess of 40000 Kgs
Over 100000 Kgs	•	Rs.548+Rs.10.30 per Hour per 1000 Kgs in excess of 100000 Kgs

PARKING CHARGES-PROPOSED

Weight of the Aircraft	Parking Charges Rates per Hour (First two hours after free parking period)	Parking Charges Rates per Hour (Beyond four hours)
Upto 25 MT	3.00 Per Hour Per MT	6.00 Per Hour Per MT
Above 25 MT up to 50 MT	75.00+4.00 per Hour per MT in excess of 25 MT	150.00+8.00 per Hour per MT in excess of 25 MT
Above 50 MT up to 100	175.00+8.00 per MT per Hour in excess of 50 MT	350.00+16.00 per MT per Hour in excess of 50 MT
Above 100 MT to 200 MT	575.00+10.00 per MT per Hours in excess of 100 MT	1150.00+20.00 per MT per Hours in excess of 100 MT
Above 200 MT	1575.00+11.00 per MT per Hours in excess of 200 MT	3150.00+22.00 per MT per Hours in excess of 200 MT

An increase of 114% is proposed on existing charges and 4% thereafter year on year basis.

USER DEVELOPMENT FEE (UDF)

Particulars	Existing	Proposed	As per AERA	Proposed
	PSF (F)	Earlier	CP	now
	(in Rs.)	(in Rs.)	(in Rs.)	(in Rs.)
Domestic Passenger	Rs. 77 per embarking passenger	Rs. 275 per embarking passenger	Rs. 197 per embarking passenger	Rs. 205 per embarking passenger

Presently no UDF

Existing PSF(F) is proposed to be subsumed.

FUEL THROUGHPUT CHARGES

Particulars	Existing (in Rs.)	Proposed (in Rs.)
Rate Per KL	143.08	171.70

An increase of 20% is proposed on existing charges for the 1st control period.

