

AIRPORTS AUTHORITY OF INDIA

Revised proposal for levy of UDF At Ahmedabad Airport

FINANCE & ACCOUNTS DIRECTORATE

CONTEXT

Airports Authority of India manages 128 airports including Civil Enclaves. AAI also manages the Indian airspace covering an area of 2.8 million square nautical miles of land mass and the adjoining oceanic area as accepted by International Civil Aviation Organization (ICAO). However, very few of these airports are profit making. The airports are being provided and managed to meet the Socio-economic objectives of the Govt. and also to provide connectivity.

AAI has set an ambitious targets of over Rs. 12000 crores for modernization/up-gradation of the airports infrastructure and air navigational services across the country during 11th Five Year plan which includes modernization / up gradation of Non-Metro airports and two mega projects at Kolkata & Chennai airports, besides modernizing Air Traffic facilities.

As many of these airports are loss making, it is imperative that UDF is levied to attain a reasonable rate of return.

PROJECT BRIEF

1. INTRODUCTION

- 1.1 Ahmedabad is a city with a rich blend of Hindu and Islamic architecture. It is regarded as a major centre for textile, pharmaceutical industries and reputed for the country's premier institute of management. Local stalwart in the creation of the India of today was Sardar Vallabh Bhai Patel known as Iron Man of India and remembered in the very name of airport Sardar Vallabh Bhai Patel International Airport, which is about 8 kms outside Ahmedabad main railway station.
- Ahmedabad Airport having Aerodrome Reference Code of 4E and oriented runway 05-23 of 3505m length. Presently Indian Airlines, Singapore airlines and Malaysian Airlines are operating their schedule service with A-320, A-310, B-772 and A-331 type of aircrafts in international Sector. With the commissioning of new terminal building, more foreign airlines are expected to operate from Ahmedabad Airport.
- 1.3 The two existing terminals have a total capacity of 7.76 lacs passengers per annum (domestic 6.40 lacs international 1.36 lacs) Both the existing Domestic and International Terminals have saturated. The existing apron has space for 13 aircraft stands. Along the existing apron airline maintenance facilities and cargo facilities are operating. The technical buildings like control tower, fire station and other necessary ancillary buildings do exist.

2 BACKGROUND

2.1 Since the International passenger terminal building had already saturated AAI had decided to hold an Architectural competition for design and complete engineering services of a New International passenger Terminal building for Ahmedabad Airport. M/s Kothari & Associates, CPG Consultants Singapore & EIL were declared as the winner of the competition.

3. PROJECT DETAILS

3.1 Govt. of India vide letter no. AV.20036/017/2002-AAI dated 09/01/2007 (copy enclosed) had approved the construction of new International Terminal building at an estimated Project Cost of Rs. 290.92 crores. (Phase-I Rs. 195.92 crores + Phase-II Rs. 95 crores). The new international terminal building will have a total area of 41000 sqm (Phase-I 27331 Sqm & Phase-II - 13669), an increase of 33616 Sqm as compared to existing international terminal building.

The assets-wise breakup of new terminal building project as per approved project cost is enclosed at Annexure-A.

Earlier it was planned that the new international terminal building being constructed under Phase–I would be further expanded under Phase-II in 2013-14 to meet the future traffic growth. However, considering the rapid growth in passenger traffic, the project work under Phase-II has been taken simultaneously along with the work under Phase-I.

The likely project cost has now been worked out at Rs. 296.37 crores, which includes the cost of 4 aerobridges, travellator approach road, car park etc.

- 3.2 It also includes Apron and Taxi Link for 6 aircraft bays.
- 3.3 The inter-terminal connectivity between international and domestic terminals has also been provided.

4. SALIENT FEATURES OF THE PROJECT

4.1 With the commissioning of new international terminal building, the peak hour international passenger handling capacity would increase from 500 (Arrival-250 & Departure-250) to 1400

(Arrival-600 & Departure-800.)

- 4.1 Centrally air-conditioned International Passenger Terminal Building having plinth area of 41000 sqm including all passenger facilities.
- 4.2 Construction of 4 in contact and 2 remote bays for wide body aircrafts.
- 4.3 Approach Road and car parking.
- 4.4 Bulk services, sewerage, drainage water and power supply.
- 4.5 Sewerage Treatment Plant.

5 PERIOD OF CONSTRUCTION

The new international terminal is nearing completion and is now expected to be commissioned during the month of May, 2010. Though the new terminal was envisaged to be used as International terminal building, however it is now proposed to be used as Domestic Terminal and the existing domestic terminal would be used as International Terminal. The usage of existing international terminal after commissioning of new terminal building has not yet been firmed up.

6 INTERNAL RATE OF RETURN

- 6.1 The project IRR which was worked out at the time of approval of the Project by the AAI Board was only 6.2% Post tax.
- 6.2 The subject work has been taken up for up-gradation of passenger facilitation. Although the

projected IRR is less than 12% required, the proposal was cleared by PIB considering the prevailing requirements.

7. ESSENTIALITY OF THE PROJECT

In pursuit of the corporate mission of AAI "To provide utmost satisfaction to the passengers" and constantly work towards upgradation of the passenger facilities to International standards, the project is being taken up. The guide lines and directives given by Ministry of Civil Aviation to enhance the International passenger facilities at Ahmedabad Airport shall also be met by the implementation of the project. The construction of the new International terminal building will enhance passenger facilities in tune with the International standards. The facilities will attract International tourist, promote tourism, IT professionals and help towards growth of the region.

LEGAL FRAMEWORK FOR LEVY OF UDF

I AAI Act:

As per Section 22A of AAI Act, the Authority may, after the previous approval of the Central Government in this behalf, levy on, and collect from, the embarking passengers at an airport, the development fees at the rate as may be prescribed and such fees shall be credited to the Authority and shall be regulated and utilized in the prescribed manner, for the purposes of:-

- (a) funding or financing the costs of up gradation, expansion or development of the airport at which the fee is collected; or
- (b) establishment or development of a new airport in lieu of the airport referred to in clause (a); or
- (c) investment in the equity in respect of shares to be subscribed by the Authority in companies engaged in establishing, owning, developing, operating or maintaining a private airport in lieu of the airport referred to in clause (a) or advancement of loans to such companies or other persons engaged in such activities.

II Aircraft Rules, 1937

As per Section 89 of the Aircraft Rules, 1937, The licensee may, -

- (i) levy and collect at a major airport the User Development Fee at such rate as may be determined under clause (b) of sub-section (1) of section 13 of the Airports Economic Regulatory Authority of India Act, 2008;
- (ii) levy and collect at any other airport the User Development Fees at such rate as the Central Government may specify.

III ICAO Guidelines

Section 29 of ICAO's Policies on Airport Charges (Doc 9082, 2009 edition) states that "...where an airport is provided for international use, the users shall ultimately bear their full and fair share of the cost of providing the airport..."

Section 30 of the above-mentioned document, among other things, states that:

- a) "...The cost to be shared is the full cost of providing the airport and its essential ancillary services, including appropriate amounts for cost of capital and depreciation of assets, as well as the costs of maintenance, operation, management and administration, but allowing for all aeronautical revenues plus contributions from non-aeronautical revenues accruing from the operation of the airport to its operators
- b) "...airports may produce sufficient revenues to exceed all direct and indirect operating costs (including general administration, etc.) and so provide for a reasonable return on assets at a sufficient level to secure financing on favorable terms in capital markets for the purpose of investing in new or

expanded airport infrastructure and, where relevant, to remunerate adequately holders of airport equity.'

The proposal for levy of UDF is fully compliant with the provision of Section 89 of Aircraft Rules, 1937 and within the ambit of AAI Act & ICAO guidelines on airport charges.

SOME OF THE FOREIGN AIRPORTS WHERE UDF IS BEING CHARGED

S No	Airport	UDF per passenger	UDF per passenger
		Domestic	International
1	London –	GBP 11.50	GBP 19.65
	Heathrow		
2	London –	GBP 7.11	GBP 10.83
	Gatwick		
3	Frankfurt	EUR 13.65	• EUR 9.80 -transfer and
			transit passengers
			• EUR 15.20 – EU flights
			• EUR 16.75 – Non EU
			European flights
			• EUR 18.80 –
			intercontinental flights
4	Sydney	• AUD 4.95 –flights	AUD 26.06
		within NSW	
		• AUD 8.15 – others	
5	Singapore		• SGD 15 – Budget terminal
			• SGD 28 – Main terminal
6	Kuala Lumpur	RM 6	• RM 45 – Main Terminal
			• RM 25 – Low cost terminal

MAJOR INDIAN AIRPORTS WHERE UDF HAS BEEN LEVIED

[AMT. IN RS.]

S No	Airport	UDF per passenger	UDF per passenger
		Domestic	International
1.	BANGALORE	260	1070
2.	HYDERABAD	375	1000

CALCULATION OF AD-HOC UDF

The expected date of commencement of New Terminal Building is 15th May, 2010 and the levy of UDF has been assumed to be effective from 15.05.2010.

- 1. Value of total asset base of the airport for the purpose of ad-hoc UDF calculation is computed as Rs 426.39 cr. This comprises Rs 296.37 crores of capital expenditure for the New International Terminal Building and Rs 130.02 crores as book value of existing assets and it includes new Domestic terminals. The computation of return on regulated asset base is shown in Annex-I. Details of existing assets pertaining to airport are presented in Annex-II.
- 2. The weighted average depreciation rate of the new assets is taken as 10 percent. For calculation purposes, the useful life of the new assets is assumed to be 10 years. The target revenue requirement has, therefore, been projected for a 10 year period.
- 3. Though apart from the new terminal, Capital investments are likely to be made year to year, the same has not been projected.
- 4. The revenues from Route Navigation Facility Charge (RNFC) & TNLC for incoming flights at Ahmedabad have not been considered in the calculations as the same forms part of a different nationwide service (Air Navigation

Service), the charges for which would be regulated separately by AERA. Since the revenue from RNFC has not been considered, the corresponding expenses attributed to RNFC have also been excluded.

- 5. The discount factor for calculating the NPV of net profit and return on capital employed has been taken as 12 percent.
- 6. The corporate tax rate has been assumed as 33.99 percent and service tax as 10.3 percent. In addition, a collection charge of Rs 5 per departing passenger has been assumed to arrive at the ad-hoc UDF levy.
- 7. 'Going Concern' approach has been adopted for computation of ad-hoc levy of UDF.
 - (i) An airport is a going concern and it needs to develop airport infrastructure to cater to future demand.
 - (ii) As a going concern for recovery of capital employed at airport, it should take into account book value of existing assets and incremental capital expenditure for new assets being created for users over a period of time.
- 8. The ad-hoc UDF has been calculated such that Net Present Value(NPV) of the profit after tax equals the NPV of the expected post tax return on the capital employed. The Targeted Rate(TR) has been computed as: TR= (EA+NA)* 12%

ER= Existing Assets, NR= New Project Assets

UDF = TR- Projected Revenue.

The UDF is calculated such that the NPV of the profit after tax(PAT) from aeronautical revenues equals the NPV of the expected returns on capital employed.

- 9. The other key assumptions employed in the calculations are as per Annex. III
- 10. AAI request that a UDF of Rs. 270/- per domestic embarking pax and Rs. 1000/- per international embarking pax may be levied at Ahmedabad airport for a period of 10 years. Alternately, UDF may be levied at Ahmedabad Airport @ 150/- per domestic embarking passenger and Rs. 755/- per international embarking passenger for 15 years.

No At. 20036/017/2002-AAI O vernment of India heartry of Civil Aviation (AAI Section)

"B" Block, Rapy Gandhi Bhawar, Safdarjung Airport, New Delhi 110 003

Dated: 09/01/2017

* * The Chairman (Dr. K. Ramalingam) *Airports Authority of India Rajiv Gandhi Bhawan, "A" : ock, darjung Airport, No et et 10 003

> Construction of New International Terminal Building . 1 Ahmedabad ripport at an estimated cost of Rs. 290.92 Crops (Phase I - Rs. 195.92 Crores + Phase II - Rs. 95,00 Crores)-Regarding NOTE FOR THE CABINET COMMITTEE ON ECONOMIC

II am directed to rese to various communications of even number of this Ministry on the above-in a med subject and to say that the competent authority has accorded approval for construction of New International Terminal Building at Ahmedabad Airport at in estimated cost of Rs. 290.92 Crores (Phase I -F.). 195.92 Crores + Phase II - K . 95.00 Crores).

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Teletax No. 246 40 2.7

Subject:

ANNEXURE-A

CONSTRUCTION OF PROPOSED INTERNATIONAL PASSENGER TERMINAL BUILDING AT AHMEDABAD

SUMMARY

	SUMMARY		
	17510		amount in crores
	ITEMS		crores
1A	MAIN TERMINAL BUILDING	Rs.	123.96
1B	SERVICE AND ANCILLARY BUILDING	Rs.	12.52
1C	FURNISHING	Rs.	2.32
1D	SITE DEVELOPMENT	Rs.	5.59
1E	WORKS RELATED TO EQUIPMENT DIRECTORATE	Rs.	6.38
1F	WORKS RELATED TO COMMUNICATION DIRECTORATE	Rs.	0.15
1	TOTAL COST OF BUILDING (i/c- aerobridges, carpark, approach road)	Rs.	150.92
2	APRON, TAXI LINK	Rs.	15.00
3	EXPENDITURE ON PRE PROJECT ACTIVITIES	Rs.	10.00
4	SEMI GROUND COVERED PARTHWAY-INTER TERMINAL LINK WITH WALKATHONS	Rs.	20.00
	SUB TOTAL OF THE PROJECT IN PHASE-1	Rs.	195.92
5	EXPENDITURE ON LINEAR EXPANSION OF TERMINAL BUILDING IN 2013-14 IN PHASE-II	Rs.	95.00
	TOTAL COST OF THE ULTIMATE PROJECT	Rs.	290.92

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		Snapsh	Snapshot of Ad-hoc UDF	I-hoc U		Computation	_				
(For 10 years period)											
Particulars	Unit	2010-11	2011-12	2012-13	2013-14	2014-15		2015-16 2016-17	-	2017-18 2018-19	2019-20
ROCE (Aero)	Rs. Cr										
RB*WACC (Aero ROCE)	#	47.05	41.93	36.82	31.70	26.58	21.47	16.35	11.23	6.12	1.78
Discount Factor	Rs. Cr	1.00	0.89	08.0	0.71	0.64	0.57	0.51	0.45	0.40	0.36
PV of Aero ROCE	Rs. Cr	47.05	37.44	29.35	22.56	16.89	12.18	8.28	5.08	3 2.47	0.64
NPV of Aero ROCE		181.95									
PAT (Aero)	Rs. Cr										
LHPC	Rs. Cr	40.66	44.08	47.78	51.79	56.14	60.86	65.97	72 83	3 80.40	88.77
PSF- only px facilitation	Rs. Cr	13.16	14.48	16.00	17.68	19.53	21.59	23 85	26 84	30.20	33.99
Total Revenue	Rs. Cr	53.82	58.56	63.78	69.47	75.68	82.44	89.82	99.67	110.61	122.75
ADD:30% of Non-Aero Revenu	ueRs. Cr	14.26	15.68	17.23	18.94	20.83	22.90	25.17	27 68	30.44	33.48
ADD: UDF (10 yr Stdream)	Rs. Cr	59.81	75.19	83.53	92.80	103.12	114.58	127.33	144 06	163.00	184.45
Projected Revenue	Rs. Cr	127.89	149.42	164.54	181.22	199.62	219.92	242 33	3 271.42	304.05	340.68
Projected Expenses	Rs. Cr	83.74	90.68	98.24	105.03	112.56	120.90	130.15	5 151.75	5 165.28	180.03
EBITD	Rs. Cr	44.15	58.74	66.30	76.19	87.05	99.02	112.18	119.67	7 138.77	160.64
Less Depreciation	Rs. Cr	42.64	42.64	45.64	42.64	42.64	42.64	42.64	4 42.64	4 42.66	29.64
PBT	Rs. Cr	1.52	16.11	23.66	33.55	44.42	56.38	69.54	1 77.03	3 96.12	131.01
Less: Income Tax	Rs. Cr	0.51	5.46	8.02	11.37	15.06	19.11	23.58	3 26.11	1 32.58	3 44.41
Less: income tax - condition	Rs. Cr	0.51	5.46	8.02	11.37	15.06	19.11	23.58	3 26.11	1 32 58	3 44.41
PAT	Rs. Cr	1.00	10.65	15.64	22.18	29.36	37.27	45.97	7 50.92	2 63.53	3 86.60
Discount Factor	#	1.00	0.89	0.80	0.71	0.64	0.57	0.51	0.45	5 0.40	0.36
PV of PAT	Rs. Cr	1.00	9.51	12.47	15.79	18.66	21.15	23 29	9 23.03	3 25.66	31.23
NPV of PAT	Rs. Cr	181.77									

		(Say Rs. 270/-)	(Say Rs. 1000/-)	
Amt. in Rs	GROSS UDF (UDF+ST+COLL CHARGE Rs. 5)	269	1001	
Coll. Ch.)	NET UDF NET UDF+ S.TAX @ 10.30%	264	966	
nce tax and	NET UDF	239.00	903.00	
GROSS UDF(inclusive of Service tax and Coll. Ch.)	UDF CALCULATION	DOMESTIC	INTERNATIONAL	

AHMEDABAD AIRPORT

Snapshot of the ad-hoc UDF computation (15 years period)

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(15 years period)		The second secon											The second second			-
Particulars	Units	2010-11	2010-11 2011-12 2012-13 2013-14 2014-15 2015-16 2016-17 2017-18 2018-19 2019-20 2020-21 2021-22 2022-23 2023-24 2024-25	2012-13	2013-14	2014-15	2015-16	2016-17	2017-18	2018-19	2019-20	2020-21	2021-22	2022-23	2023-242	024-25
10 Year UDF Stream	Rs. Cr	59.81	75.19	83 53	92 80	103.12	114.58	127 33	144.06	163 00	184.45					
Discounting Factor		1.00	0.89	0.80	0.71	0 64	0.57	0.51	0.45	0.40	0.36					
PV of UDV	Rs Cr	59.81	67.13	66.59	66.06	65.53	65.02	64.51	65.17	65.83	56 51					
NPV of 10 Year UDF	Rs. Cr	652.16														
Domestic Passengers	# in million	1.30	1.43	1.57	1.72	1.ອົນ	2.09	2.30	2.57	2.88	3.22	3.55	3.50	4 29	4.72	5.19
International Passengers # in million	# in million	0.41	0.46	0.51	0.57	0.64	0.72	0.80	0.91	1.04	1.19	1.33	1.49	1.67	1.87	2 10
Total Passengers	# in million	1.71	1.58	2.03	2.30	2.54	2 80	3.10	3.49	3.92	4.41	4 88	5 39	5.96	69 9	7.29
15 yr UDF - Dom	per pax	132														
15 yr UDF - Int'l	рег рах	680														
UDF Collection -Dom	Rs. Cr	14.97	18.81	20.69	22.76	25.04	27.54	30.30	33.93	38.01	42.57	46 82	51.51	56 66	62 32	68 56
UDF Collection -Int'l	Rs. Cr	24.63	30.97	34.68	38.85	43.51	48.73	54 56	62.22	70.93	80.86	99 06	101.43	113 60	127.23	142 50
Total UDF		39.60	49.78	55.38	61.61	68 55	76.27	84.88	96.15	108.94	123 43	137 39	152 94	170.26	189.56	211.06
Discounting Factor		1.00	0.89	0.80	0.71	0.64	0.57	0.51	0.45	0.40	0.36	0.32	0.29	0.26	0.23	0.20
PV of 15 yr UDF	Rs. Cr	39 60	44.45	44.15	43.85	43.56	43.28	43.00	43.49	44.00	44.51	44 23	43.97	43.70	43 44	43.19
NPV of 15 yr UDF	Rs. Cr	652.42														

[Amt. in Rs]	
GROSS UDF(After service tax and colln. charges)	

			(Say Rs. 150/-)	
GROSS	UDF(UDF+ST+COLL	CHARGE Rs. 5)	151	755
UDF + Service	Tax@10.3	%	146	750
		NET UDF	132.00	680.00
		UDF CALCULATION	DOMESTIC	INTERNATIONAL

AHMEDABAD AIRPORT
Computation of UDF at Varving Rates

Particulars	Unit	2010-11 2011-12 2012-13 2013-14 2014-15 2015-16 2016-17 2017-18 2018-19 2019-20	2011-12	2012-13	2013-14	2014-15	2015-16	2016-17	2017-18	2018-19	2019-20
Domestic Passengers	#	1295674	1425241	1567766	1724542	1856596	208695	2295366	2570809	2879307	3224823
Rate of UDF	Rs.	239.00	239 00	239.00	239.00	239.00	239 00	239.00	239.00	239 00	239 00
Total UDF (D)	Rs. in Crs	30.97	34.06	37.47	41.22	45 34	49.87	54.86	61.44	68 82	77 07
International Passengers #	#	414020	455422	510073	571281	639835	716615	832609	914974	1043071	1189101
Rate of UDF	Rs.	903.00	903.00	903 00	903.00	903.00	903 00	903 00	903.00	903 00	903.00
Total UDF (I)	Rs in Crs	37.39	41.12	46.06	51.59	57.78	64.71	72.48	82.62	94.19	107 38
Grand Total of UDF (D + I)	(î	59.81	75.19	83.53	92.80	103.12	114.58	127.33	144.06	163.00	184.45

Note: UDF in FY 10-11 considered from 15 May 2010 coinciding with likely date of commissioning of new terminal building

33.59

30.20

26 84

23.85

21 59

19 53

17.68

16.00

14.48

13.16

Calculation of PSF (Facilitation)

				ALM	LUADAI	AHIMEDABAD AIRFOR	בּצ					,
		5	Somput	ation of	Return	on Cap	computation of Return on Capital Employed	loyed				
	_		(Re	(Regulated Asset Base*WACC)	set Base*W	(ACC)						
Particulars	Cnit	Unit 2009-10	2010-11	2011-12	2012-13	2013-14	2010-11 2011-12 2012-13 2013-14 2014-15 2015-16	2015-16	2016-17	2017-18	2016-17 2017-18 2018-19 2019-20	2019-20
Old Assets												
Opening Balance	Rs. Cr	r 130.02	117.02	104.02	2 91.02	2 78.02	65.02	52.02	39.02	26.02	13.02	00.00
Depreciation @ 10% (D1)	Rs. Cr	13.00	13.00	13.00	13.00	13.00	13.00	13.00	13.00	13.00	13.02	00.00
Closing Balance	Rs. Cr	117.02	104.02	2 91.02	2 78.02	2 65.02	52.02	39.02	26.02	13.02	00.00	00.0
Average Block A	Rs. Cr	ir 123.52	110.52	2 97.52	2 84.52	2 71.52	2 58.52	45.52	32.52	19.52	6.51	00 0
New Assets												
Opening Balance	Rs. Cr	00.00	296.37	7 266.73	3 237.10	0 207.46	5 177.82	148.19	118.55	88 91	1 59.27	29.64
Depreciation @ 10% (D2)	Rs. Cr	00.00	29.64	4 29.64	4 29.64	4 29.64	1 29.64	29.64	29.64	29.64	1 29.64	29.64
Closing Balance	Rs. Cr	r 0.00	266.73	3 237.10	0 207.46	3 177.82	148.19	118.55	88.91	59.27	7 29.64	00.00
Average Block B	Rs. Cr	cr 0.00	281.55	5 251.91	1 222.28	192.64	163.00	133.37	103.73	74.09	9 44.46	14.82
Regulated Asset Base - (RB	100											
Average Block (A + B)	Rs. Cr	r 123.52	392.07	7 349.43	3 306.80	0 264.16	3 221.52	178.89	136.25	93.61	1 50.97	14.82
Post Tax WACCC	%	12.00	12.00	0 12.00	0 12.00	0 12.00	12.00	12.00	12.00	12.00	0 12 00	12.00
RB*WACC = (A+B)*C	Rs. Cr	3r 14.82	47.05	5 41.93	3 36.82	31.70	0 26.58	21.47	16.35	11.23	3 6.12	1.78
TOTAL DEP (D1+D2)	Rs. Cr	r 13.00	45.64	4 42.64	4 42.64	4 42.64	4 42.64	45.64	42.64	42.64	4 42.66	29.64

AHMEDABAD AIRPORT

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Particulars	Unit	2009-10	2010-11 2011-12	2011-12	2012-13 2013-14	2013-14	2014-15	2014-15 2015-16	2016-17	2017-18	2018-19	2019-20
Pay & Allowances	Rs. Cr	15.43	19.29	20.83	22.50	24.30	26.24	28.34	30.61	39.79	42.97	46.41
Other Staff Benefits	Rs. Cr	5.41	6.76	7.30	7.88	8.51	9.20	6.93	10.73	13.94	15.06	16.26
Repair & Maintenance	Rs. Cr	9.67	16.92	18.61	20.48	22.52	24.78	27.25	29.98	32.98	36.27	39.90
Consumption of Stores&Spares	Rs. Cr	0.63	1.09	1.17	1.25	1.34	1.43	1.53	1.64	1.76	1.88	2.01
Financing charges	Rs. Cr	0.00	5.85	5.85	5.35	4.39	2.93	1,46	0.00	00.0	0.00	0.00
Electricity & Water Charges	Rs. Cr	8.38	14.25	15.67	17.24	18.96	20.86	22.94	25.24	27.76	30.54	33.59
Other Exp (other than Dep & Security)	Rs. Cr	6.09	7.61	8.37	9.20	10.12	11.14	12.25	13.47	14.82	16.30	17.94
Apportionment of Expenses provided at CHQ for Ahmedabad Rs. Cr Airport	Rs. Cr	11.14	11.98	12.87	13.84	14.88	15.99	17.19	18.48	20.70	22.25	23.92
Grand Total	Rs. Cr	56.74	83.74	90.68	98.24	105.03	112.56	120.90	130.15	151.75	165.28	180.03
Depreciation		13.00	42.64	42.64	42.64	42.64	45.64	45.64	42.64	42.64	42.66	29.64

Particulars Unit 2009-10 2010-11 2011-12 2012-13 2013-14 2011-13 2013-14 2011-13 2013-14 2011-13 2013-14 2011-13 2013-14 2011-13 2013-14 2011-13 2013-14 2011-14 201						
Concessions Unit 2009-10 2010-11 2011-12 2012-13 2013-15 Concessions Rs. Cr	FFIC REVENUE					
Concessions		1E 201E 1E	2046 47	07 400		040 00
Concessions Rs. Cr 1.50 2.70 2.97 3.27 1.39 1.20 1.27 1.39 1.20 1.27 1.39 1.20	41-5107	_		1	7 61-0107	07-6107
& Display Rs. Cr 1.50 2.70 2.97 3.29 4.20 1.27 1.39 1.20 1.20 1.20 1.20 1.20 1.20 1.20 1.20 1.20 1.20 1.20 1.20 1.20 1.20 1.20 1.20 1.20 1.20 2.17 2.17 2.17 2.17 2.17 2.17 2.17 2.17 2.17 3.28 3.54 4.33 4.76 3.58 3.54 4.33 4.76 3.58 3.54 4.33 4.76 3.58 3.54 4.33 4.76 3.58 3.54 4.34 1.44 1 4.44 1 4.44 1 4.44 1 4.44 1 4.44 1 4.44 1 4.44 1.44 1 4.44						
& Display Rs. Cr 0.64 1.15 1.27 1.39 & Display Rs. Cr 5.53 9.95 10.95 12.04 11 Shop Rs. Cr 1.53 2.75 3.03 3.33 1.204 11 Total Rs. Cr 0.00 0.00 0.00 0.00 0.00 Residential) Rs. Cr 3.58 3.94 4.33 4.76 Residential) Rs. Cr 0.02 0.02 0.02 0.02 Non-Residential) Rs. Cr 0.63 11.93 13.13 14.44 1 Non-Residential) Rs. Cr 0.02 0.02 0.02 0.02 0.02 Non-Residential) Rs. Cr 1.57 1.79 1.97 2.17 Non-Residential) Rs. Cr 1.60 1.94 4.94 1.44 1 Ing Rs. Cr 1.60 0.02 0.02 0.02 0.02 0.02 And Rs. Cr 4.00 4.08<	3.59	3.95 4.35	4.78	5.26	5.79	6.37
Rs. Cr 1.53 2.75 3.03 3.33 3.33 3.33 3.33 3.33 3.33 3.33 3.33 3.33 3.33 3.33 3.34 3.27 3.05 3.04 2.2 2.0.04 2.2 2.0.04 2.2 2.0.04 2.2 2.0.04 2.2 2.0.04 2.2 2.0.04 2.2 2.0.04 2.2 2.0.04 2.2 2.0.04 2.2 2.0.04 2.2 2.0.04 2.2 2.0.04 2.2 2.0.04 2.2 2.0.04 2.2 2.0.04 2.2 2.0.04 2.2 2.0.05 2.0.02	9 1.53	1.69 1.86	2.04	2.24	2.47	2.72
Rs. Cr 1.53 2.75 3.03 3.33 3.35	13.25	14.57 16.03	17.63	19.40	21.34	23.47
otal Rs. Cr 0.00 0.00 0.00 0.00 otal 9.20 16.56 18.22 20.04 2. rvices Rs. Cr 3.58 3.94 4.33 4.76 ential) Rs. Cr 3.58 3.94 4.33 4.76 ential) Rs. Cr 0.02 0.02 0.02 estidential) Rs. Cr 1.57 1.79 13.13 14.44 1 her Services Rs. Cr 1.57 1.79 1.37 2.17 cotal 1.57 1.79 1.37 2.17 us Rs. Cr 4.00 4.08 4.94 4.94 Rs. Cr 0.57 0.64 0.70 0.77 0.89 1.08 g Rs. Cr 0.79 0.89 0.98 1.08 gs. Cr 0.65 0.70 0.76 0.83 Rs. Cr 0.42 0.70 0.76 0.83 Rs. Cr 0.43 0.70	3 3.67	4.03 4.44	4.88	5.37	5.90	6.49
Total 9.20 16.56 18.22 20.04 2. and Services Rs. Cr 3.58 3.94 4.33 4.76 g (Residential) Rs. Cr 0.02 0.02 0.02 0.02 g (Non-Residential) Rs. Cr 1.57 1.79 13.13 14.44 1 g (Non-Residential) Rs. Cr 6.63 11.93 13.13 14.44 1 g (Non-Residential) Rs. Cr 1.57 1.79 1.3.13 14.44 1 g (Non-Residential) Rs. Cr 1.57 1.79 1.3.13 14.44 1 I from Other Services Rs. Cr 1.57 1.58 1.54 1 1.44 1 I laneous Rs. Cr 4.00 4.08 4.49 4.94 <td< td=""><td>00.00</td><td>00.0 00.00</td><td>00.00</td><td>00.00</td><td>00 0</td><td>00.00</td></td<>	00.00	00.0 00.00	00.00	00.00	00 0	00.00
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Section Other Services Section Other Services Rs. Cr 1.57 1.79 1.97 2.17 1.18 1.444 1.18 1.444 1.18 1.444 1.18 1.444 1.18 1.444 1.18 1.444 1.18	2 0.02	0.02 0.03	0.03	0.03	0.03	0.03
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Total 11.80 17.68 19.45 21.39 2 Islaneous rking Rs. Cr 4.00 4.08 4.49 4.94 age Rs. Cr 0.57 0.64 0.70 0.77 sion Tickets Rs. Cr 0.79 0.89 1.08 I handling Rs. Cr 1.36 1.50 1.65 1.81 I hput Charges Rs. Cr 0.65 0.70 0.76 0.83 Rs. Cr 0.42 0.44 0.46 0.49 Rs. Cr 4.39 5.04 5.54 6.10 Total 12.18 13.29 14.59 16.01 1	7 2.38	2.62 2.88	3 17	3.49	3.84	4.22
Ilaneous Rs. Cr 4.00 4.08 4.49 4.94 rking Rs. Cr 0.57 0.64 0.70 0.77 sion Tickets Rs. Cr 0.79 0.89 0.98 1.08 I handling Rs. Cr 1.36 1.50 1.65 1.81 I hput Charges Rs. Cr 0.65 0.70 0.76 0.83 Rs. Cr 0.42 0.44 0.46 0.49 Rs. Cr 4.39 5.04 5.54 6.10 Total 12.18 13.29 14.59 16.01 1	9 23.53	25.88 28.47	31.32	34.45	37.89	41.68
rking Rs. Cr 4.00 4.08 4.49 4.94 age Rs. Cr 0.57 0.64 0.70 0.77 sion Tickets Rs. Cr 0.79 0.89 0.98 1.08 I handling Rs. Cr 1.36 1.50 1.65 1.81 I hput Charges Rs. Cr 0.65 0.70 0.76 0.83 Rs. Cr 4.39 5.04 5.54 6.10 Rs. Cr 4.39 5.04 5.54 6.10 Total 12.18 13.29 14.59 16.01 1						
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thandling Rs. Cr 1.36 1.50 1.65 1.81 hput Charges Rs. Cr 0.65 0.70 0.76 0.83 Rs. Cr 0.42 0.44 0.46 0.49 Rs. Cr 4.39 5.04 5.54 6.10 Total 12.18 13.29 14.59 16.01 1	8 1.18	1.30 1.43	1.58	1.73	191	2.10
hput Charges Rs. Cr 0.65 0.70 0.76 0.83 Rs. Cr 0.42 0.44 0.46 0.49 Rs. Cr 4.39 5.04 5.54 6.10 Total 12.18 13.29 14.59 16.01 1	1.99	2.19 2.41	1 2.65	2 92	3.21	3.53
Rs. Cr 0.42 0.44 0.46 0.49 Rs. Cr 4.39 5.04 5.54 6.10 Total 12.18 13.29 14.59 16.01 1	3 0.90	0.97 1.05	1.14	1.26	1.39	1.54
Rs. Cr 4.39 5.04 5.54 6.10 12.18 13.29 14.59 16.01 1	9 0.51	0.54 0.56	5 0.59	0.62	0.65	0.68
12.18 13.29 14.59 16.01	0 6.71	7.38 8.12	2 8.93	9.82	10.80	11.88
	17.57	19.29 21.18	3 23.25	25.55	28.08	30.86
Total Non-Aero Revenues Rs. Cr 33.18 47.53 52.25 57.44 63	63.15	69.42 76.32	83.90	92.27	101.47	111.59

BOOK VALUE OF OLD ASSETS - AHMEDABAD AIRPORT (as on 31st March, 2009)

S. NO.	PARTICULARS	Net Block (Rs. In Crores)
1	Runways	0.53
2	Taxiways	3.15
3	Apron	20.33
4	Roads, Bridges & Culverts	1.91
5	Building -Terminal & Others	53.25
6	Computers & IT Hardwares	0.29
7	Machinery & Equipments	8.98
8	Tools & Plant	0.21
9	Office Furnitures & Fixtures	0.13
10	Vehicles - Others	0.64
11	Vehicles - Motor Cars/Jeeps	0.1
12	Electrical Installations	27.55
13	X-Baggage Inspection Sys.	9.89
14	Office Equipments	0.07
15	Typewriters & Other Office Appliances	0.8
16	Crash Fire Tenders/Fire fighting Eqpt.	0.05
17	Boundary Wall	1.92
18	Computer Softwares	0.22
	TOTAL	130.02

Key Assumptions (Ahmedabad)

SIno	Parameters	Assumptions	Basis of assumption
1	Traffic		
i	Passenger growth rate per annum	Domestic: 10% in 10-11 to 16-17 & 12% thereafter	Adopted forecast made by CPMS
	(as per Forecast made by CPMS)	International 10% in 10-11,11-12 & 12% in 12-13 to 16-17 & 14% thereafter	Adopted forecast made by CPMS
ii	Compined growth rate (Dom+Intl.) of aircraft momements per annum (as per Forecast made by CPMS)	5 5% in 10-11, 8.4% in 11-12 to 16-17 then 10.4% thereafter	Adopted forecast made by CPMS
iii	Date of commencement of operation for new terminal	May/June, 2010	
iv	Percentage of departing passengers	50% total passengers handled at the airport	
2	Revenue		
i.	Growth rate of Landing, housing & Parking Revenue	8.4% in 11-12 to 16-17 then 10 4% thereafter	As per the aircraft movements projected by CPMS
ii	Growth rate of passenger service fee	Same as passenger growth rate mentioned above	As per the passenger movements projected by CPMS
iii	Passenger service fee (Security)	Security component of PSF not considered similarly security expenses not included in the calculations	
3	Non-Traffic Revenue		
i	Trading Concessions including Restaurant, Hoarding & display, Duty Free shop	80% increase in 2010-11 on commissioning of new terminal building. 10% increase afterwards	Higher initial increase in 10-11 due to increase in area available for commercial activities. Further, Built-in escalation in the commercial agreements vary from 7.5% to 10%. Hence a uniform rate of 10% assumed from 11-12 onwards.
i	Rent and Services including Land lease and building non-residential	80% increase in Building rent(Non-Residential) in 2010-11 on commissioning of new terminal building, 10% growth rate assumed thereafter.	Higher initial increase in 10-11 due to increase in area available for commercial activities. Further, Built-in escalation in the commercial agreements vary from 7.5% to 10% Hence a uniform rate of 10% assumed from 11-12 onwards.
ii	Miscellaneous revenue including Car Parking, Throughput charges, Ground handling, Cargo etc.	parking, Admission Tickets, Porterage, Ground handling. 8.4% increase in throughput charges, 5% in Cargo	Misc. revenue during 2009-10 estimated to decrease by 5.9% over preivious year. However, taking a longer term view 10% growth rate has been adopted for the most of the revenue sources. Growth rate in throughput charges assumed to be same as that of aircraft movements mentioned above.
V	Revenue from City Side Development	considered.	Ahmedabad airport is among the first lot of 10 airports where city side development has been planned, however no concreate plan has been firmed up and no time frame is available for accrual of revenue on this account. Hence no revenue from it has been considered in the calculations.
,			AAI is maintaining a number of aircorts which are loss making and not self sustaining. Following of Hybrid Till will help in cross subsidy of these airports.
		1	

İ	Growth rate of pay and allowances FY11 onwards	25% increase in pay & allownaces in 2010-11, 3% from FY 11-12 to FY 19-20, except FY 17-18, where it is 30%.	The effect of increments, increase in DA and promotions comes to approx. 8% Increase in staff expenses on commission of new terminal building by 25% takes care of the regular increase as well as deployment of manpower comensurate with size and operation of new terminal building. 30% increase in FY17-18 is estimated due to likely revision of pay scales wie f. 2017.
ii	Growth rate of repairs and maintenance FY 11 onwards	75% in the year of commissioning and thereafter regular growth rate of 10%	Higher initial expenditure estimated due to increase in terminal building area from 36806 Sqm to 77806 Sqm (old+new) involving larger area for upkeep and maintenance and more civil & electrical repairs and new equipments & systems under R&M
iii	Growth rate of consumption of stores	75 % increase in year of commissioning and thereafter regular growth rate of 7%	As above.
iv	Electricity & Water Charges	70% increase in the year of commissioning thereafter flat growth rate of 10%	Higher initial expenditure estimated due to increase in terminal building area from 36806 Sqm to 77806 Sqm Increase in air-conditioning expenses, lighting and electrical & electronic equipments.
v	Interest on Borrowings	9% on loan of Rs. 55 crores (09-10) & Rs. 10 crores (10-11) with 25% repayment of loan amount from 13-14 onwards	as per the action plan of AAI
vi	Security expenses	Not considered	
vii	Other miscellaneous expenditure	25% in first year of commission thereafter flat growth rate of 10%	Higher initial expenditure estimated due to increase in terminal building area from 36806 Sqm to 77806 Sqm and increase in operations
	Apportionment of Expenses provided at CHQ	2017-18 where 12% growth is considered.	The expenses provided at CHQ for the airports have been apportioned over the airports based on the number of employees which is, as per the existing methodology and policy of AAI
5	Tax rates		
i	Corporate tax	33.99%	
ii	Service tax	10.30%	
6			
6	Assets		
•	Value of the new International Terminal Building to be capitalised		The project cost was approved by Govt. at an estimated cost of Rs. 290.92 crores. It inter alia, includes the cost of inter Terminal link, Apron etc. The fikely expenditure is estimated at Rs. 296.37 crores.
11	Opening balance for old assets	Rs. 130.02 crores (09-10)	Depresiation at fall and the Add
ii i	Depreciation rate		Depreciation rate followed by AAI is as per accounting policy approved by AAI Board considering the useful life of the assets. However, in the instant proposal depriciation has been considered on straight line method at weighted avg rate of 10%

7	Post tax nominal WACC	,	The post fax nominal WACC has been kept at 12% which is the minimum requirement for any project for approval by the PIB/GoI.
8	Ad-hoc UDF Assumption		
	UDF collection charge per passenger	Rs. 5	
9	Borrowings		
i	Loan for the Project	Rs 65 crores	
ii	Rate of interest	9%	
iii	Schedule of repayment	25% repayment from FY 13-14 onwards	



भारतीय विमानपत्तन प्राधिकरण AIRPORTS AUTHORITY OF INDIA

फैक्स : ११-११-२४६३२९९०

Fax: 91-11 24632990

दुरभाष : २४६३२९५०

Phone: 24632950

ANNEXURE-II

Dated: 19.4.2010

No.AAI/CHQ/REV/AERA/UDF/2010

To

The Secretary,
Airports Economic Regulatory Authority of India,
Room No. 58, B Block,
Rajiv Gandhi Bhawan,
New Delhi- 110 003.

19/4

SM (Shai Saxwa

Subject: Levy of UDF at Ahmedabad- regarding

Sir,

In continuation our discussions on 19.4.2010, the following points are clarified:

1. Through put charges:

It is confirmed that 'growth in Throughput Charges have been maintained at the same level as that of combined aircraft movements growth (i.e. 5.5% in 2010,11, 8.4% in 2011-12 to 2016-17 and 10.4% thereafter). This has already been indicated in column 3 (iii) – Basis of assumptions. However in the second column – Assumptions, only 8.4% have been shown which is for longer duration.

2. Traffic Forecast:

The traffic forecast was done by our Corporate Planning Directorate using econometric modeling. A copy of the forecast given by them is enclosed for information.

Cargo Revenue:

The Cargo handled at Ahmedabad Airport during the last 3 years is given below:

YEAR		MT
2007-08	-	23576
2008-09	-	23033
2009-10	-	18196 (upto Jan '10)

It may be seen that during 2008-09 Cargo had a negative growth of 2% and during 2009-10 the growth was -8.8%. However, taking the long term growth in view, a growth of 5% is adopted.

4. AREA

The increases in Area at Ahmedabad Airport is 111% as given below:

	Existing	After Commissioning (in sq.mtrs)
International Domestic New Terminal	7384 29422 -	738 4 29 422 41000
Total	36806	77806

Increase % = 111%

Against the increase in area by 111% the non traffic revenue has been increased by 80% in the year of commissioning.

Hope this clarifies the position.

Yours faithfully,

(M.Ravi Varma) General Manager (F&A)

Encls: As above

AHMEDBAD AIRPORT TRAFFIC FORECAST

	IKAFFICE	UNLUASI	
YEAR	PA	SSENGERS(I	N NOS.)
TEAR	INT'L	DOM	TOTAL
2008-09	Marie Til		,
(BASE YEAR)	684330	2141609	2825939
GROWTH RATE	10.0%	10.0%	10.0%
2009-10	752763	2355770	3108533
GROWTH RATE	10.0%	10.0%	10.0%
2010-11	828039	2591347	3419386
GROWTH RATE	10.0%	10.0%	10.0%
2011-12	910843	2850482	3761325
GROWTH RATE	12.0%	10.0%	10.5%
2012-13	1020144	3135530	4155674
2013-14	1142562	3449083	4591644
2014-15	1279669	3793991	5073660
2015-16	1433229	4173390	5606620
2016-17	1605217	4590729	6195946
GROWTH RATE	14.0%	12.0%	12.5%
2017-18	1829947	5141617	6971564
2018-19	2086140	5758611	7844751
2019-20	2378200	6449644	8827843
2020-21	2711148	7223601	9934749
2021-22	3090708	8090433	11181141

Updated 30/03/2010

AHMEDBAD AIRPORT TRAFFIC FORECAST

		IRCRAFT(IN	NOS)
YEAR	INT'L	DOM	TOTAL
2008-09			
(BASE YEAR)	5635	26043	31678
GROWTH RATE	5.0%	3.0%	3.4%
2009-10	5917	26824	32741
GROWTH RATE	8.0%	5.0%	5.5%
2010-11	6390	28166	34556
GROWTH RATE	10.0%	8.0%	8.4%
2011-12	7029	30419	37448
GROWTH RATE	10.0%	8.0%	8.4%
2012-13	7732	32852	40584
2013-14	8505	35480	43986
2014-15	9356	38319	47675
2015-16	10291	41384	51676
2016-17	11320	44695	56016
GROWTH RATE	12.0%	10.0%	10.4%
2017-18	12679	49165	61844
2018-19	14200	54081	68281
2019-20	15904	59489	75394
2020-21	17813	65438	83251
2021-22	19950	71982	91932

UDF Calculation

All numbers are in Million Rs		2009-10	2010-11 2011-12		2012-13	2013-14	2014-15	73 2013-14 2014-15 2015-16 2016-17 2017-18 2018-19	2016-17	2017-18	2018-19	2019-20
		Yr, 0	Yr.1	Yr. 2	Yr. 3	Yr. 4	Yr. 5	Yr: 6 - Yr. 7	*Yr. 7	Yr. 8	Yr. 9	Yr. 10
Aeronautical Revenue	AR	525	874	955	1,047	1,149	1,261	1,384	1,520	1,699	1,899	1
Non Aeronautical Revenues	NAR	312	453	499	548	603	663	729	108	881	969	
Admissible Capital Base	C	1,235	2,513	3,642	3,216	2,790	2,363	1,937	1,511	1,084	658	基基
O&M cost	AMO	. 568	779	848	924	1,007	1,097	1,195	1,302	1,518	1,653	
Depreciation	d l	130	278	426	426	426	426	426	426	426	426	
Tax payable	-	47	92	61	83	108	136	167	202	216	268	1.00
WACC		12.00%	12.00%	12.00%	12.00%	12.00%	12.00%	12.00%	12.00%	12.00%	12.00%	12.00%
Admissible Expenditure E = CXROCE + OMA + OMNA + D + T	+D+T	* 893	1,451	1,773	1,820	1,876	1,943	2,021	2,111	2,291	2,427	2,582
Target Revenue R = AR+NAR		837	1,327	1,453	1,595	1,752	1,924	2,113	128,2	2,580	2,868	3,189
Target Deficit TD = E - R		56	123	319	224	124	19	(92)	(210)	(290)	(442)	711
NPV of target deficit	(0)	56	123	285	179	88	12	(52)	1000	(107) (131)	(178)	11/24 11/24 15/34
Domestic departing Pax			1.30	1.43	1.57	1.72	1.90	2.09	2.30	2.57	2.88	
International departing Pax			0.41	0.46	0.51	0.57	0.64	0.72	0.80	0.91	1.04	
UDF Incremental Revenue - Domestic			144	158	174	191	210	232	255	285	319	
UDF Incremental Revenue - International			170	187	209	235	263	294	330	376	428	
Net Incremental revenue - UDF			314	345	383	426	473	526	584	661	748	

	Existing UDF	Existing UDF UDF after Increase
Domestic UDF in Rs.	-	111
International UDF in Rs.		411

6-17 2017-18 2018-19 2019-20 2020-21 2021-22 2022-23 2023-24 7.7 Yr. 8 Yr. 9 Yr. 10 Yr. 11 Yr. 12 Yr. 13 Yr. 14 1,186 1,232 1,473 1,642 1,830 2,041 2,776 2,538 801 881 969 1,066 1,172 1,289 1,477 1,559 1,511 1,084 658 2,31 9
2017-18 Yr. 8 1,322 881 1,084 1,518 426
017-18 2018-19 2019-20 2020-21 2021-72 2022-71 Yr. 8 Yr. 9 Yr. 10 Yr. 11 Yr. 12 Yr. 1 1,322 1,473 1,642 1,830 2,041 2,21 881 969 1,066 1,172 1,289 1,4 1,084 658 231 9 - - 1,518 1,653 1,801 1,962 2,137 2,31 426 426 426 18 - - 88 123 163 348 405 4
2019-20 2020-21 2021-22 2022- Yr.10 Yr.11 Yr.12 Yr.1 1,642 1,830 2,041 2,2 1,066 1,172 1,289 1,4 231 9 1,801 1,962 2,137 2,33 426 18
2021-22 2022- Yr.12 Yr.1 2,041 2,2 1,289 1,4 - 2,137 2,33 405 44
THE RESERVE AND DESCRIPTION OF THE PERSON OF
2024-25 Yr. 15 2,831 1,714 2,766

	Existing UDF	Existing UDF UDF after Increase
Domestic UDF in Rs.		40
International UDF in Rs.		199