

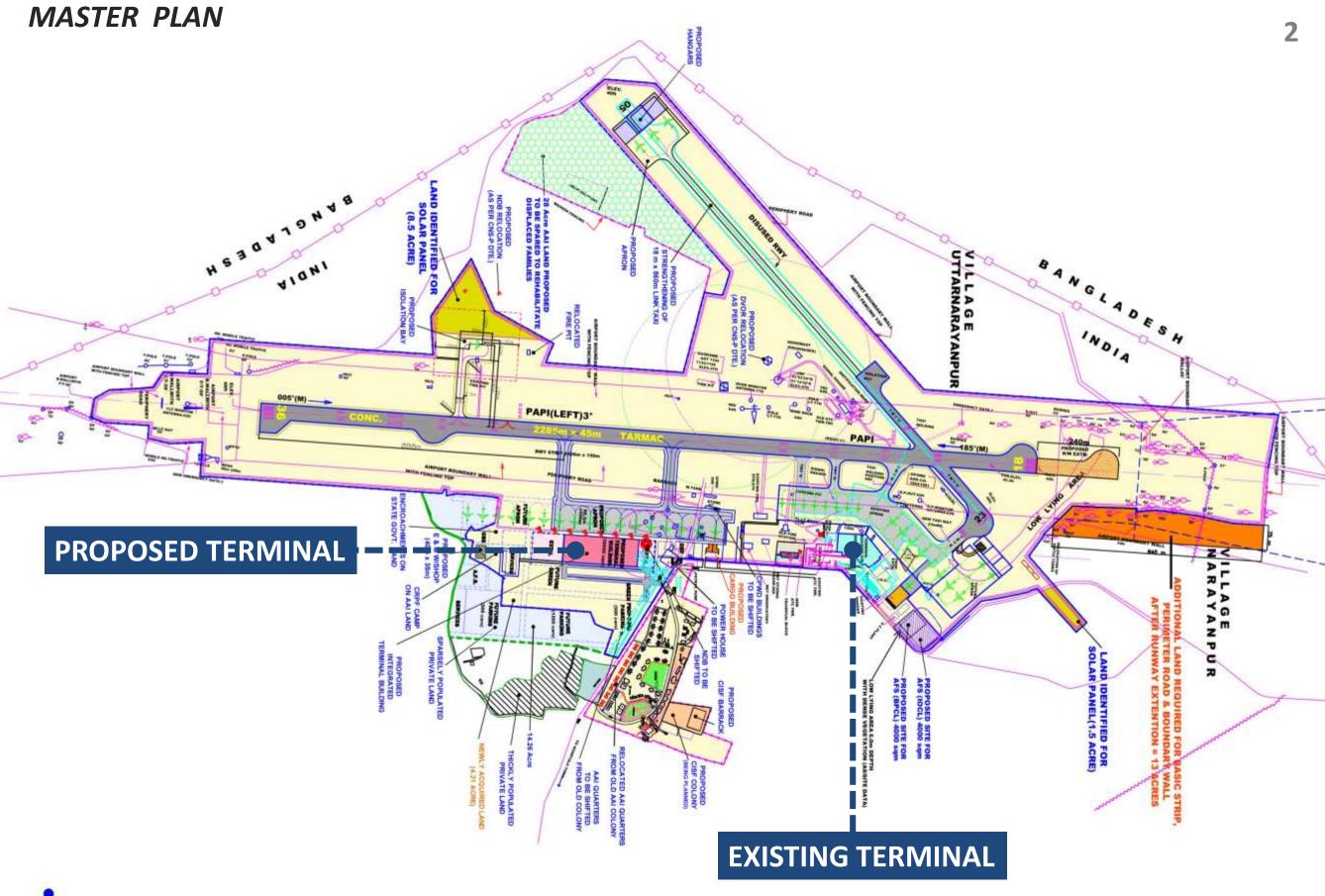
DESIGN FOR PROPOSED NEW INTEGRATED TERMINAL AND ASSOCIATED WORKS AT AGARTALA AIRPORT

PMC:

SGS



ARCHITECTS:







EXTENSIVE GREEN & FOREST COVER LOCALLY USED BAMBOO MATERIAL LOCAL TRIBAL STONE SCULPTURES



FORESTS IN TRIPURA



FORESTS NEAR AGARTALA



BAMBOO PLANTATIONS IN TRIPURA



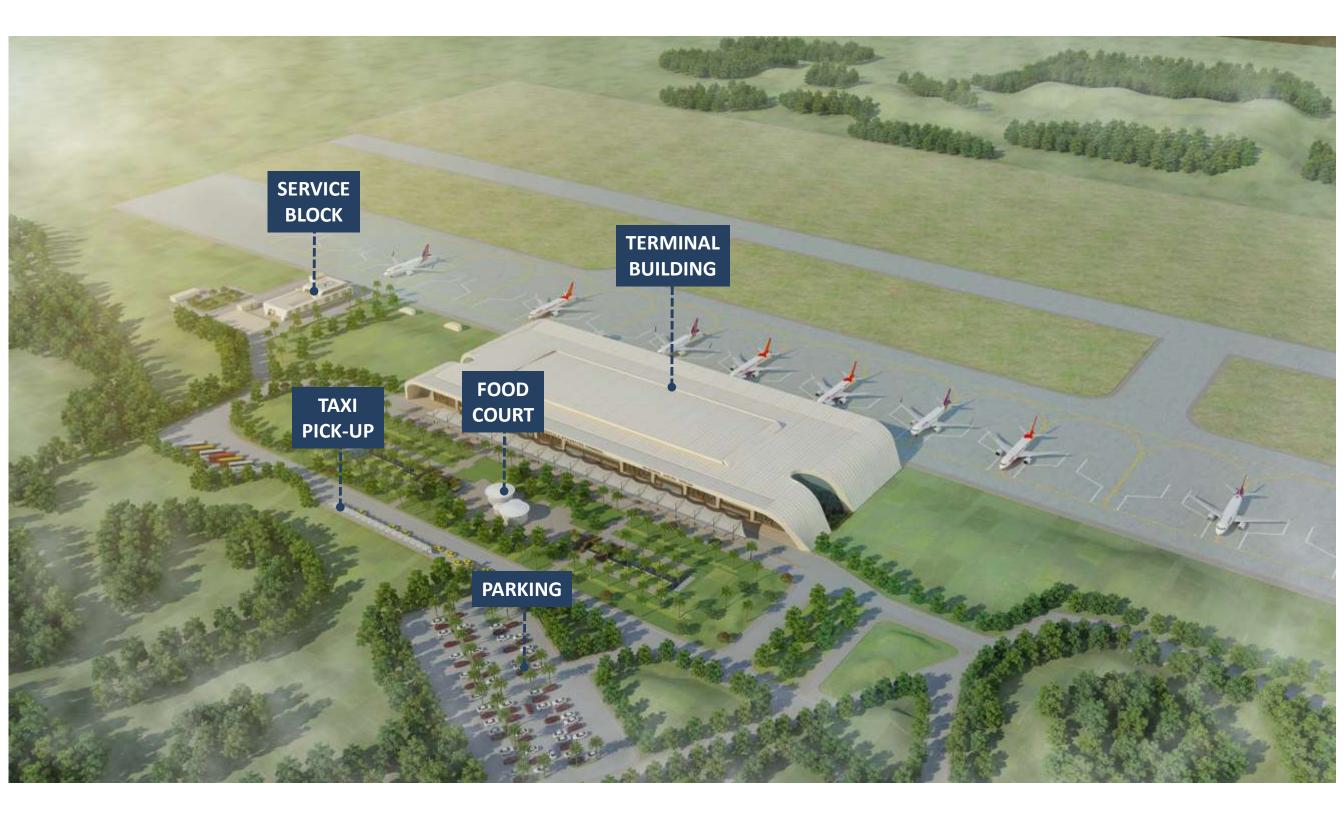
BAMBOO HANDICRAFTS MADE IN AGARTALA



UNAKOTI HILL, AGARTALA



TRIPURA STATE REPRESENTATION ON REPUBLIC DAY







LOCAL FORESTS AND GREENARY DEPICTED IN FACADE JAALI



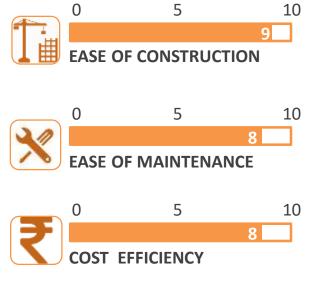
MATERIALS:- CANOPY - 16 CELL POLYCARBONATE SHEETS FACADE - LAMINATED GLAZING + GFRC IN BAMBOO FINISH ROOF - INSULATED STANDING SEAM ROOF CLADDING







FLORAL PATTERN JAALI DEPICTING LOCAL FORESTS & GREENS











EXTERIOR VIEW









- ENTRY & EXIT
- DRIVEWAY
- 3 PATHWAY
- 4 ENTRANCE MOUND WITH SIGNAGE 👩
- TRIBES OF TRIPURA

- 6 CONNECTING CROSS-WAY
- OUTDOOR CAFE
- 8 PAVED PLAZA
- CENTRAL WATER FEATURE
- 10 TREE COURT

- 11 LAWN WITH ROCKS
- 12 PAVED AREA
- 13 ROW OF PALM PLANTING
- 4 ARTISTIC HEDGES
- 15 MOUND WITH TRADITIONAL ROCK ART



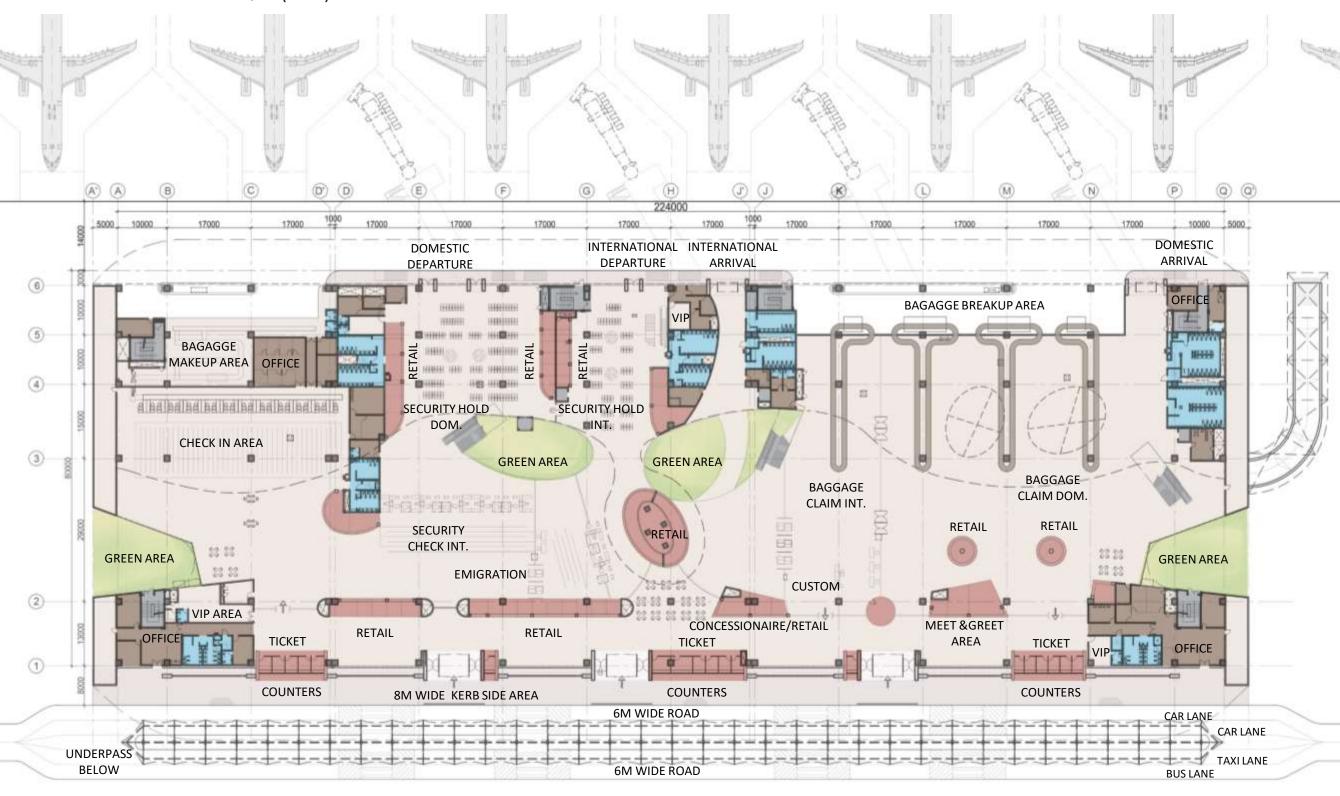
PAGODA STRUCTURE

GREEN ISLAND

PLANTING ALONG DRIVEWAY

FLOOR AREA = 18300 SQ.M

RETAIL AREA = 2000 SQ.M (11%)

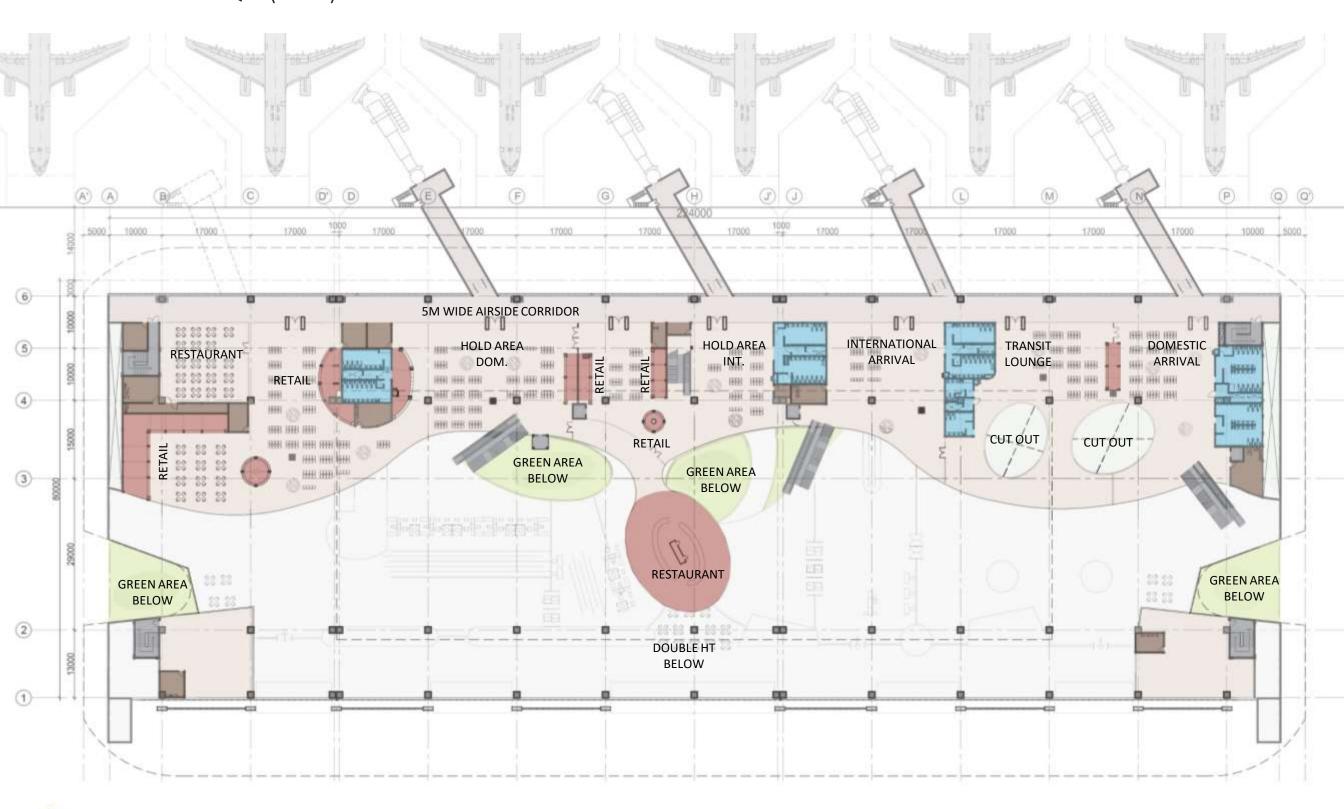






FLOOR AREA = 8500 SQ.M

RETAIL AREA = 1050 SQ.M (12.5%)



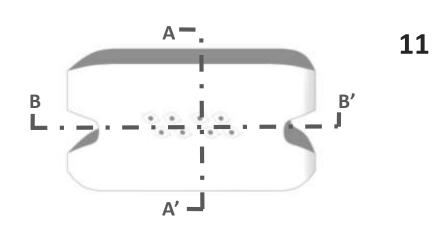


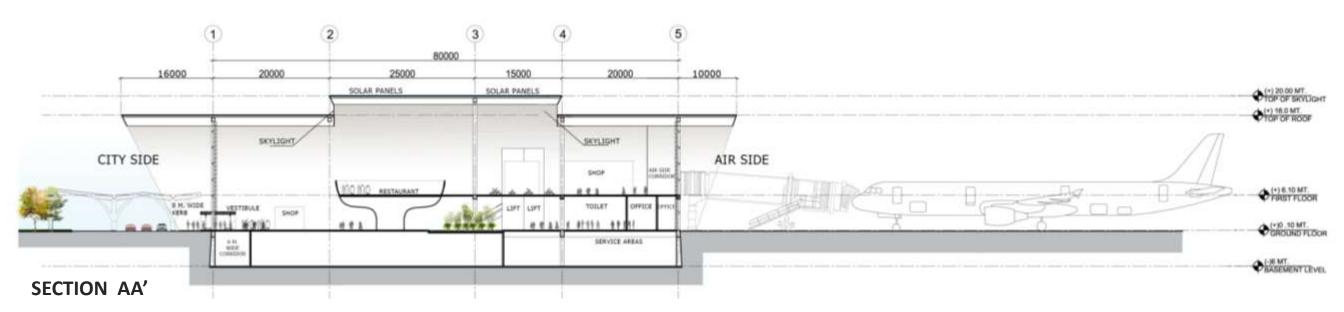
FLOOR AREA = 5,500 SQ.M

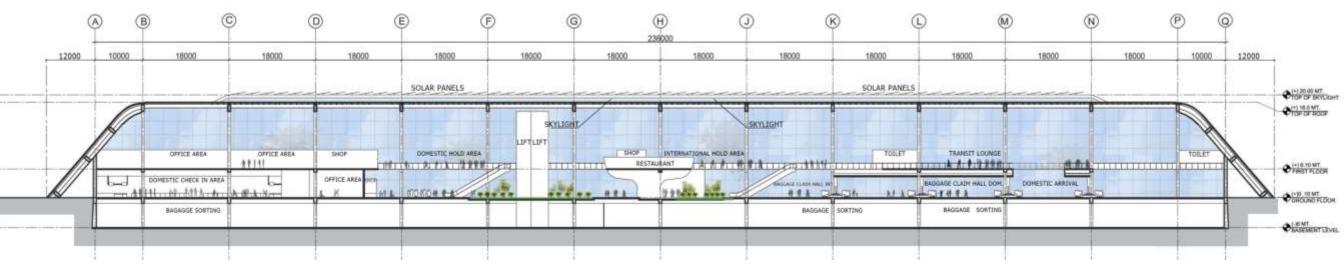












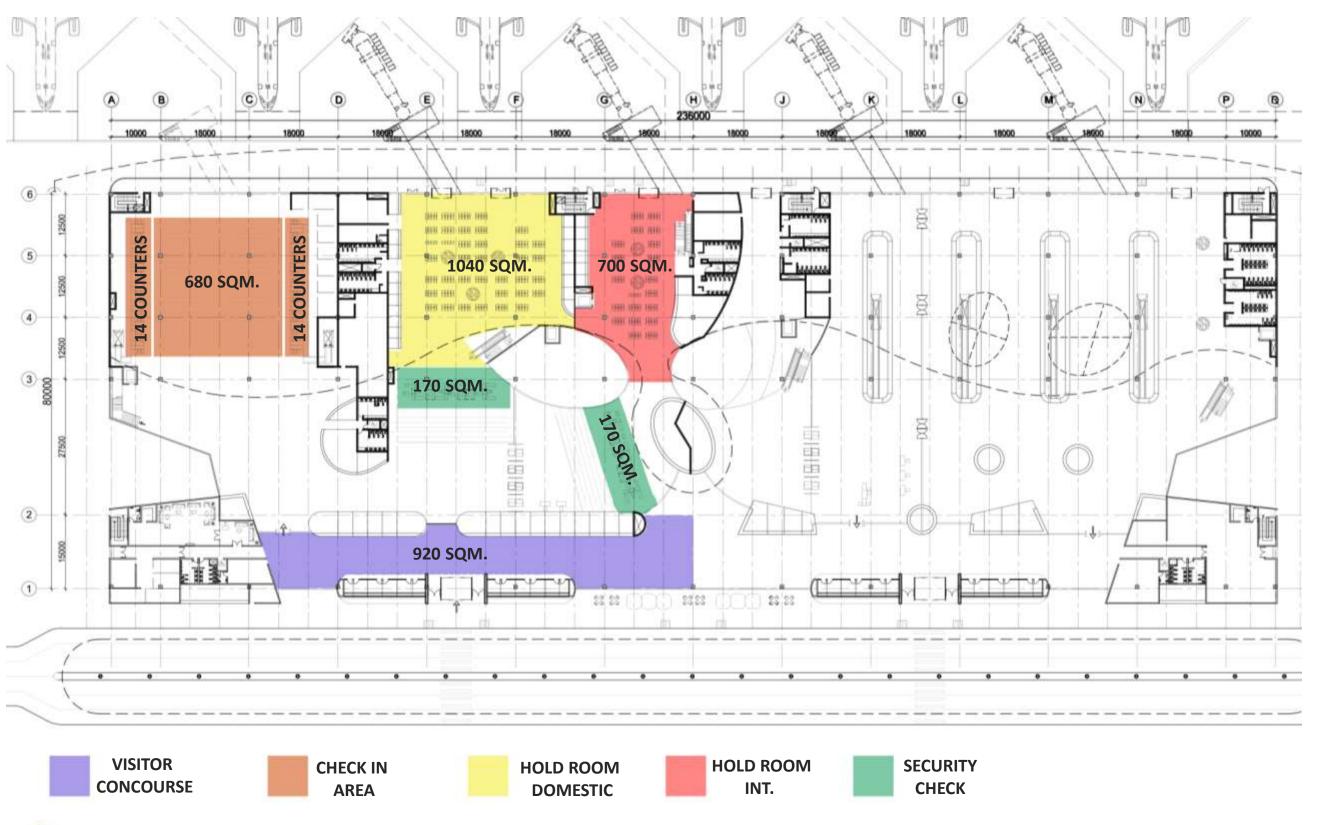
SECTION BB'



Proposed Areas for Primary Processing and Waiting				
DEPARTURE				
Visitors Concourse Area	660 sq m			
Check-in-counters (Domestic) No. of Counters	22 nos.	16 required + 5 future expansion		
Check-in-counters (International) No. of Counters	6 nos.	5 required + 3 future expansion		
Check-in Queue Area	400 sq m			
Security Checkpoint No. of Lanes (Domestic)	3 nos.	2 required + 1 future expansion		
Security Checkpoint Screening Area (Domestic)	200 sq m			
Security Checkpoint Queue Area (Domestic)	250 sq m			
Security Checkpoint No. of Lanes (International)	3 nos.	2 required + 1 future expansion		
Security Checkpoint Screening Area (International)	110 sq m			
Security Checkpoint Queue Area (International)	150 sq m			
Outbound Baggage Screening Devices	6 nos.	5 required + 1 future expansion		
Holdrooms (Domestic) Area	1040 sq m			
Holdrooms (International) Area	700 sq m			

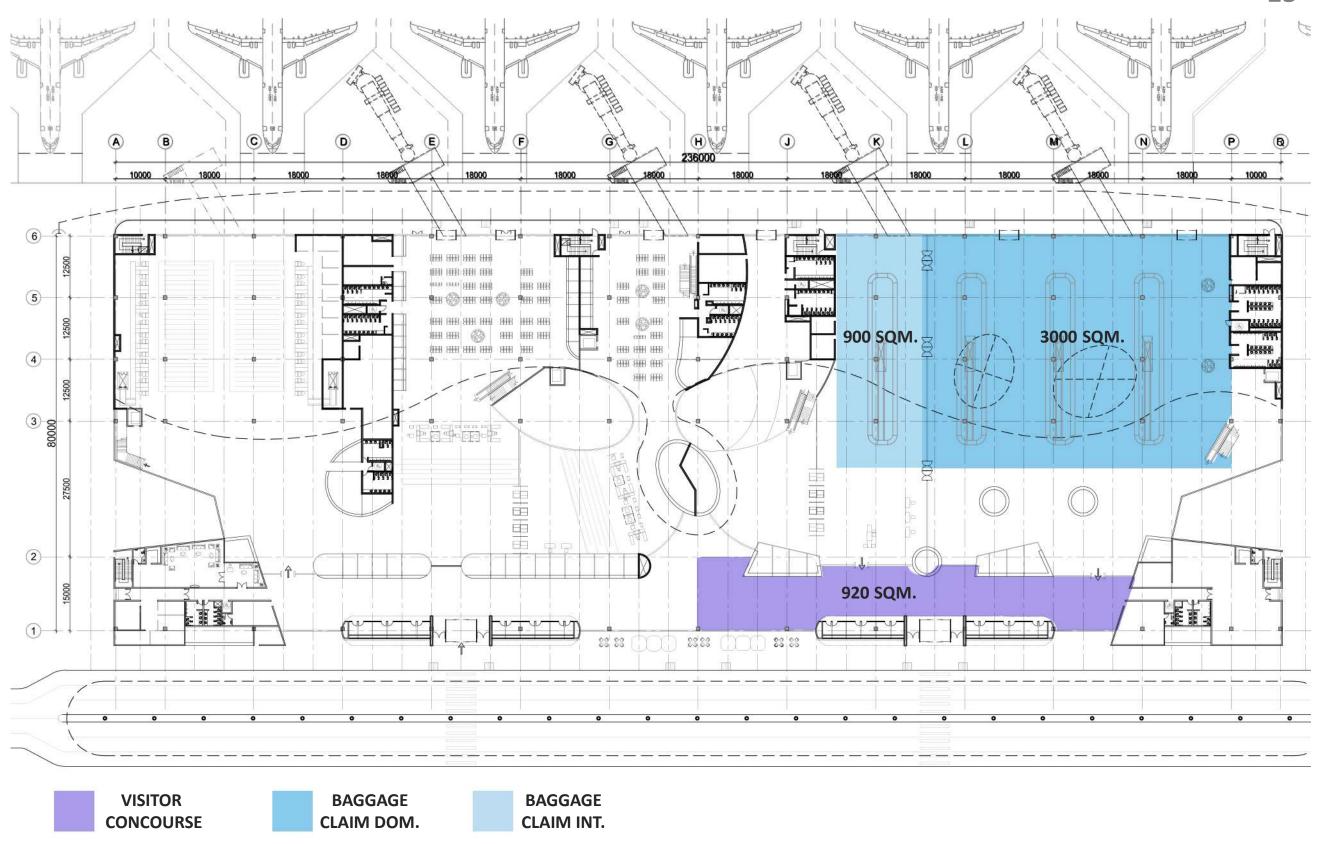


ARRIVAL				
Baggage Claim Devices (Domestic) No. of Belts	3 nos.	2 required + 1 future expansion		
Baggage Claim Devices (International) No. of Belts	1 no.	1 required		
Positive baggage Claim area (Domestic)	3000 sq m			
Positive baggage Claim area (International)	900 sq m			
Visitors Concourse Area	920 sq m			













Normative Planning Data for Primary Processing and Waiting Areas				
	Input values	Units	Remarks	Formula
DEPARTURE AREAS				
Visitors Concourse	Peak hour Departing passengers	600	Given	600 x 2 = No. of visitors = 1200
	No. of visitors per passenger	2	Assumption	1200 x .33 dwell time in minutes = number of visitors in area = 396
	Dwell time of the visitors in minutes	15	Based on 60 minutes total dept dwell time	396 x 1.7 sm per passenger= area required for visitors concourse
	Area per visitor (sq.m)	1.70	IATA Standards	Visitor concourse = 673.2 sq.m
(domestic) p	Peak hour Departing passengers	500	Given	IATA Formula
	Check-in processing rate in minutes	2	Industry Std for Domestic	500 pax X (2 mins per pax/60 mins)
				No. of Check-in Counters = 16
Check-in-counters (international)	Peak hour Departing passengers	100	Given	IATA Formula
	Check-in processing rate in minutes	3	Industry Standard for International	100 pax X (3 mins per pax/60 mins)
				No. of Check-in Counters = 5
				TOTAL No. OF CHECK-IN COUNTERS = 21
Check-in Counters	Linear meter per counter width (lm)	1.52	Industry Standard	Area required for the Check-in Counter and Queue
	Lm per counter and work area depth	3.65	Industry Standard	Length of counter/work area X width of counter X no. of counters
				(3.65 x 1.52) x 21 = area(excluding circulation area)
				CHECK-IN COUNTERS Area requirement = 116.5 sq.m
Check-in Queue	Sq.m per passenger	1.7	IATA	1.7 sq.m per person x 140 persons
	25 minutes max waiting time	140	Design for 10 minutes queue	CHECK-IN Queue area = 238 sq.m







	Input values	Units	Remarks	Formula
Security Checkpoint Lanes (Domestic)	Peak hour Departing Pax	500	Given	500 divided by 250pax per hour per lane = 2
	Screening Processing Rate	250	IATA	TOTAL No. OF SECURITY SCREENING CHECKPOINTS = 2
Security Checkpoint area (Domestic)	Linear meter width of lane	5		5m x 14m x 2 lanes=140 sm
	Depth of lane	14		SECURUTY Screening area = 140 sq.m
Security Checkpoint queue (Domestic)	Sq.m per passenger	1.7	IATA	1.7 sq.m / person x 125
	Max 25% of peak hour	125	Design for 10 minutes	SECURITY Queue area = 212.5 say 210 sq.m
	passengers assumed		queue in queue as per	
Security Checkpoint Lanes (International)	Peak hour Departing Pax	100	Given	100 divided by 250pax per hour per lane = 1
	Screening Processing Rate	250	IATA	TOTAL No. OF SECURITY SCREENING CHECKPOINTS = 1
Security Checkpoint area (International)	Linear meter width of lane	5		5m x 14m x 1 lanes=70 sq.m
	Depth of lane	14		SECURITY Screening area = 70 sq.m
Security Checkpoint queue (International)	Sm per passenger	1.7	IATA	1.7 sq.m / person x 25
	Max 25% of peak hour passengers assumed	25	Design for 10 minutes queue in queue as per IATA	SECURITY Queue area = 42.5 say 45 sq.m
Outbound Baggage Screening Devices	Peak hour Departing Pax	600	Given	600 pax X 2 bags per pax/250 bags per hr
	Baggage Screening rate per device	250	Design for 10 minutes queue in queue as per IATA	No. of EDS in-line screening devices = 4.8 say 5 machines
	Bags per pax	2		
Holdrooms	Maximum no. of departing	500	Given	Number of passengers x area per pax =
(Domestic)	passengers at a given time.			500 x 1.7 = 850
	Area per pax (sq.m)	1.7	IATA	HOLDROOM - Area of I holdroom = 850 sq.m
Holdrooms	Maximum no. of departing	100	Given	Number of passengers x area per pax=
(International)	passengers at a given time.	14.7	1070	100 x 1.7 = 170
	Area per pax (sq.m)	1.7	IATA	HOLDROOM - Area of I holdroom = 170 sq.m





	Input values	Units	Remarks	
ARRIVAL AREAS		•		
Baggage Claim Devices	Peak hour Arriving	500	Given	70% of 500 = 350
(Domestic)	passengers			
	Percentage pax in the claim hall	70	At one time	350 pax / 4 pax per meter = 87.5 m of claim frontage
	Number of pax per metre of claim	4	In queue around the belt	Yields .8 belt at 55 meters
				Number of baggage claim devices = 2
Paggaga Claim Davisos	Dook hour Arriving	100	Given	70% of 100 = 70
Baggage Claim Devices (International)	Peak hour Arriving passengers	100	Given	70% 01 100 = 70
	Percentage pax in the claim hall	70	At one time	70 pax/ 4 pax per meter= 17.5 m of claim frontage
	Number of pax per metre of claim	4	In queue around the belt	Yields .3 belt at 55 meters
				Number of baggage claim devices = 1
Positive baggage claim area (Domestic)	Area per unit of 55m belt (sq.m)	585	Actual	585 sq.m per belt x 2 belt=1170 sq.m
	Area per Pax (sq.m)	1.7	IATA Standards	350 x 1.7 = 5955 sq.m
				1170 + 595 = 1765 sq.m
				Area Required = 1765 sq.m
Positive baggage claim area (International)	Area per unit of 55m belt (sq.m)	585	Actual	585 sq.m per belt x 1 belt = 585 sq.m
	Area per Pax (sq.m)	1.7	IATA Standards	70 x 1.7 = 119 sq.m
				585 + 120 = 705 sq.m
				Area Required = 705 sq.m
Visitors Concourse	Peak hour arriving pax	600	Given	600 x 1 = 600
	Visitor per pax	1	Assumption	600 x 20min/60min = 200 visitors
	Dwell time in minutes	20	Per Industry Standards	200 x 1.7 per pax = area required for the visior concourse
	Area per Visitor (sq.m)	1.7	IATA	Visitor Concourse= 340 sq.m

INTERIOR VIEW - FLUIDITY IN PLAN FOR EASE OF PASSENGER MOVEMENT & VIEW 01 **DEFINATION OF BULK HEADS TO ENHANCE RETAIL**



MATERIALS:- 1. CEILING-PERFORATED METAL CEILING BAMBOO FINISH, TENSILE MEMBRANE 2. FLOORING - WHITE GRANITE, RUBY RED (POLISHED/FLAMED), BLACK GRANITE









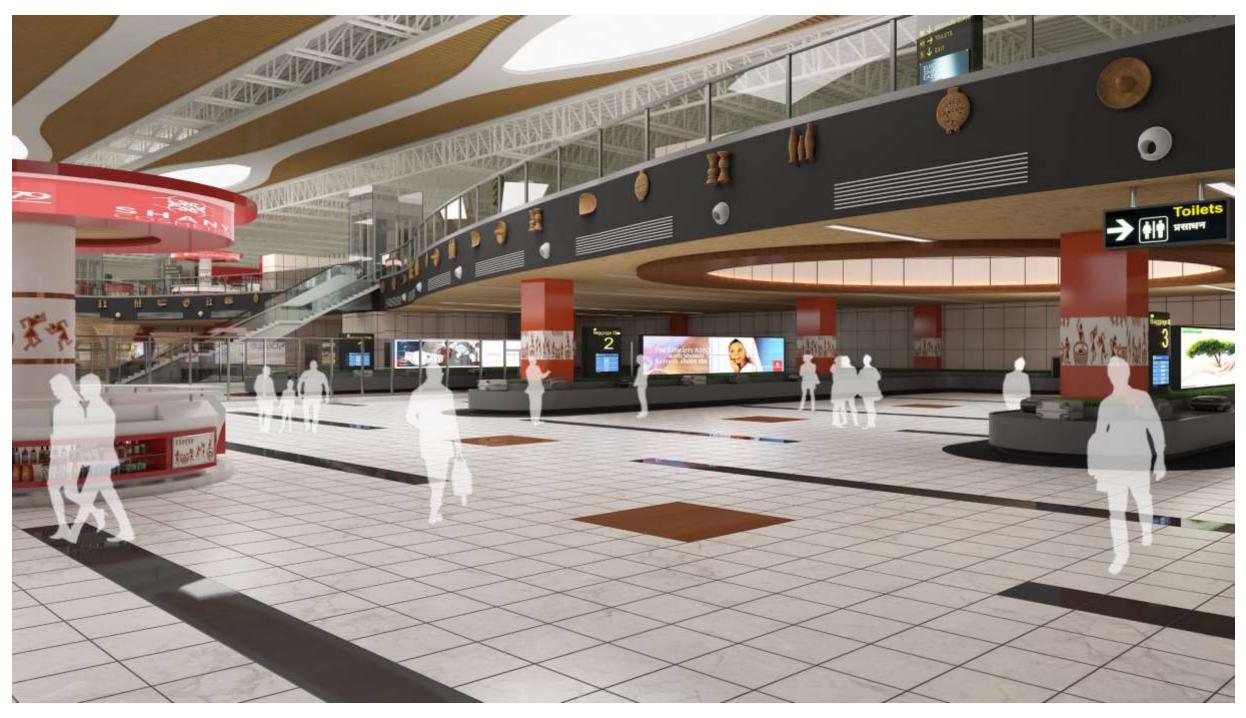


- MODERN DEPICTION OF LOCAL ART
- UNAKOTI HILLS IN AGARTALA









MATERIALS: 1. CEILING -PERFORATED METAL CEILING

BAMBOO FINISH, TENSILE MEMBRANE

2. FLOORING- WHITE GRANITE, BLACK GRANITE

RUBY RED (POLISHED/FLAMED),

3. BULKHEAD- ACP PANELS WITH MOTIF INLAY



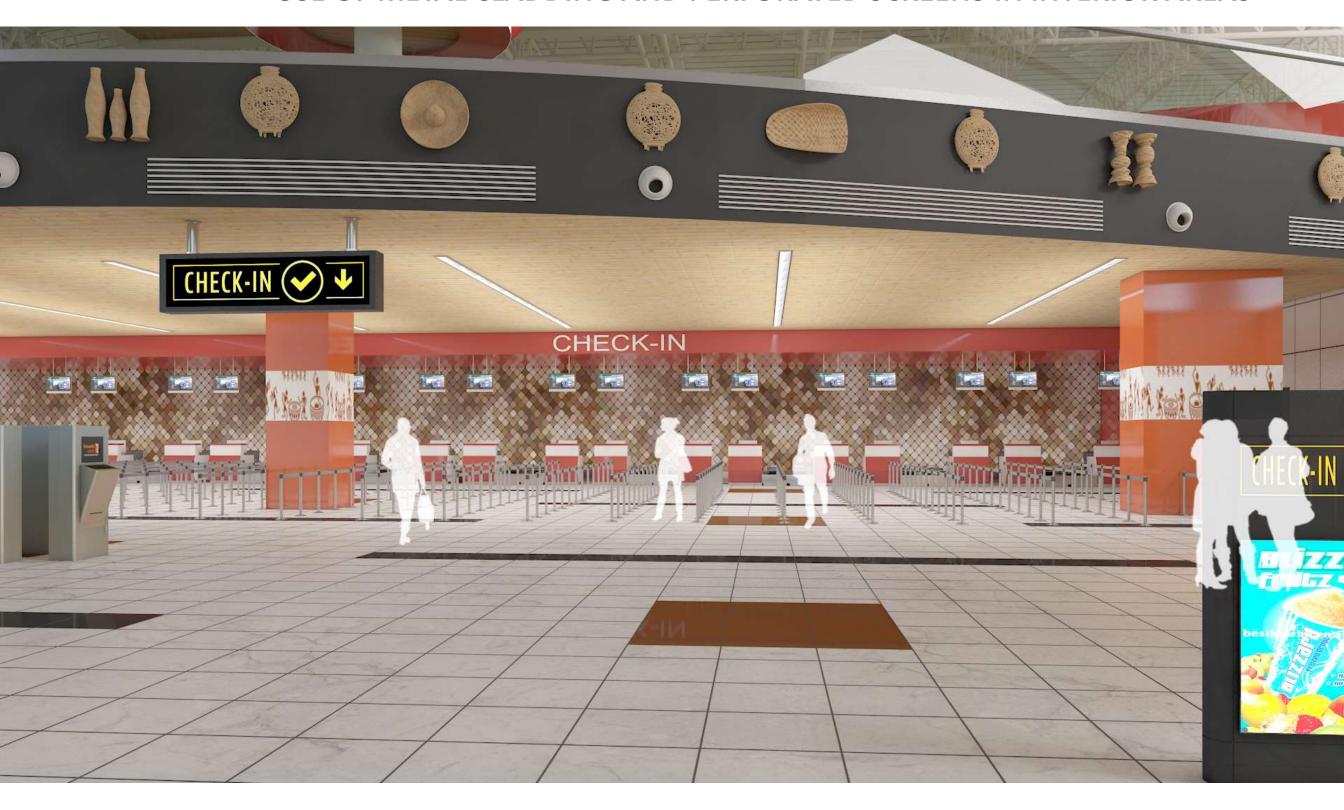








INTERIOR VIEW - LOCAL MOTIF DEPICTED IN METAL CLADDING TO CREATE VIBERANCY VIEW 04 - USE OF METAL CLADDING AND PERFORATED SCREENS IN INTERIOR AREAS





VIEW 05



VIEW 05



MATERIALS: 1. CEILING - PERFORATED METAL CEILING BAMBOO TEXTURE, MINERAL FIBRE BOARD CEILING 2. BAMBOO LANDSCAPE FEATURE IN GLASS CASING

