MoES/Exh-Fairs/21/2014 PC-V Ministry of Earth Sciences, "Prithvi Bhawan", Lodhi Road, New Delhi – 110003

MINUTES OF THE PRE-BID MEETING

On the discussions in pre-bid meeting held on 05/12/2014 towards for designing and fabrication of Ministry's pavilion during (i) Indian Science Congress 2015 from 3-7 January 2015 at Mumbai and (ii) "7th Vibrant Gujarat Global Trade Show-2015" from 08-13 January, 2015 at Gandhinagar, Gujarat. The following clarifications have been provided for various aspects of Tender document. The amendments are lists below:

S.	Page No., Section &	Items in tender document	Clarifications
No	Point no.		
			2
1 1	Point no. of tender document Page no. 02 Section B (Specification and Ancillary Requirements) Point no. 4, (i)	Designing and fabrication of Dioramas - should depict Agro Meteorology, Desalination plant, Arctic & Antarctica or on any other activity and achievements in an area of about 175 sq. mtrs widely spaced. - The major other recommended depictions are: (a) Aviation Sector (IMD activity) (b) Geosciences (c) Climate Science (d) Earthquake/Seismology (e) other diorama on Ministry's activities and achievements along with working models (models should be in approx. proportion, colour and made of fibre glass) All the diorama's should have separate LCD provisions to	Designing and fabrication of Dioramas should depict Agro Meteorology, Desalination plant, Arctic & Antarctica or on any other activity and achievements. - The major other recommended depictions are: (a) Aviation Sector (IMD activity) (b) Climate Science (c) Earthquake/Seismology (models should be in approx. proportion, colour and made of fibre glass) All the diorama's should have separate LCD provisions to shows the respective movies. (Dismantle the stand-alone models should be packed and transported to the Ministry for erection if needed at different sites in future) 1. Dimensions of Arctic & Antarctica – 5.0x4.0 sq. mtrs.
16		shows the respective movies. (Dismantle the stand-alone models should be packed and transported to the Ministry for erection if needed at different sites in future)	2. Dimensions of the following 5 diorama's will be 4.0x2.0 sq.mtrs a. Agro Meteorology, b. Desalination plant c. Aviation Sector (IMD activity) d. Climate Science e. Earthquake/Seismology

(Dr. Vijay Kumar)

(Dr. S.C. Bhan)

al)

(Ashok K Saha)

(Shri. R K Sharma)

(Dr. M Sudhakar)

(Dr. E.N Rajagopal)

(Dr. M Rajeevan)

	T	0 100	
2	Pa no. 04	One LCD seamless Screen	One 72" TV of dimension 5.5' x 3.5'
	Section B	of 6' x 4' (length x height)	(length x height)
	(Specification and	or above are required to be	
	Ancillary Requirements)	put up.	
_	Point no. 4, (ii)		
3	Page no. 04	Innovative means of	1. Thirty nos (Hindi & English-15 nos.
	Section B	displaying posters on the	each)of the backlit posters of 3'x5'
	(Specification and	activities and achievement	dimension (width x height)
	Ancillary Requirements)	of the Ministry may be	2. 30-40 nos of posters material in English,
	point no 4, (iv)	presented and displays	Hindi and local dialect in LCD Touch
		numbers shall be 25-30 nos.	Screen of 42"
			3. Four nos. of LCD touch screens of 42"
			each in each the two exhibitions ("Indian
			Science Congress" at Mumbai and "7 th
			Vibrant Gujarat Global Trade Show-2015"
		A STATE OF THE STA	at Gandhinagar, Gujarat) has to be put-up
4	Page no. 04	Preparation of displaying	1. No murals are required
	Section B	two 6'x 4' murals on	2. Four nos. of LCD touch screens of 42"
	(Specification and	Ministry's activities for both	30-40 nos of posters material in English,
	Ancillary Requirements)	the exhibitions separately.	Hindi and local dialect may be
	point no (viii)	C50 W	accommodated in place of murals
5	Page no. 05	Scaled 3 D models	1. One Scaled 3-D model for ISc 2015
	Section C	(separately for both	exhibition should be deposited in person to
	(Guidelines for	exhibitions) should be	the tender processing section of the
	submitting of the tender)	deposited in person to the	Ministry latest by the last date and time of
22	a. Technical bid	tender processing section of	bid submission. No delay will be
	point no c	the Ministry latest by the	considered. The bidders needs to upload
S		last date and time of bid	the photographs of model as part of
	2	submission. No delay will	technical bid document.
		be considered. The bidders	2. Graphical presentation of layout may be
		needs to upload the	produced for exhibition "Vibrant Gujarat"
		photographs of model as	
	~	part of technical bid	-
		document.	
6		5. TT 1	High resolution pictures for backdrops etc.
	¥		has to be arranged by the successful bidder.
7			Photographs/presentation of the following
	a a		dioramas has uploaded
			1. Arctic & Antarctica
		e e	2. Agro Meteorology,
			3. Desalination plant
		er 5	4. Aviation Sector (IMD activity)
			5. Earthquake/Seismology

(Shri. R K Sharma)

(Dr. M Sudhakar)-

(Dr. S.C. Bhan)

(Dr. E.N Rajagopal)

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DESALINATION



Desalination

Ministry of Earth Sciences has successfully commissioned the Low Temperature Thermal Desalination Plant (LTTD) at Kavaratti, Minicoy & Agadi which is supplying drinking water with a capacity of 0.1 million liters per day to the local community in Lakshadweep Islands since 2005. The surface sea water at about 28-30 degrees Celsius is sent to a low pressure flash chamber where it instantaneously evaporates under vacuum. The generated vapour is then sent to a condenser where it condenses to water using colder deep sea water at about 12-13 degree Celsius drawn from a depth of 1000 m.

DESALINATION



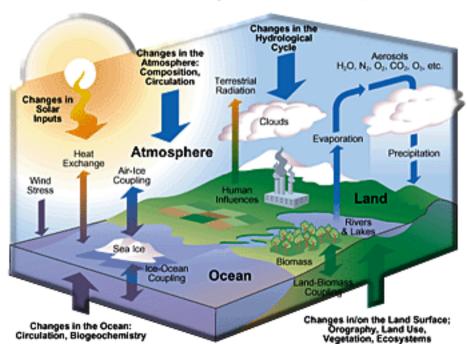
Desalination

Ministry of Earth Sciences has successfully commissioned the Low Temperature Thermal Desalination Plant (LTTD) at Kavaratti, Minicoy & Agati which

is supplying drinking water with a capacity of 0.1 million liners per day to the local corn



Global Climate System Components



Modeling the Climate System Includes the Atmosphe d. Oceans, Ice, and Biosph Incoming Solar Energy Transition from Evaporative not Heat Energy Comulus Stratus Clouds GCM Snow Cover Precipitation Stratus Clouds Heat & Salinit Ocean (Currents, Temperature, and Salinity) and Wasses



EARTHSYSTEMSCIENCEORGANIZATION MINISTRY OF EARTH SCIENCES

INDIA METEOROLOGICAL DEPARTMENT WEATHER SERVICES FOR AVIATION





AVIATION METEOROLOGY





























AGRO METEOROLOGY



AGROMETEOROLOGY



Manager 1

