

Tanaji Satre I.A.S.

Vice Chairman & Managing Director



D.O. No. CIDCO/M.D./NMIA/2011/

June 29, 2011

Sub : **Development of Navi Mumbai International Airport (NMIA) Project**
– **Minutes of 1st Meeting of High Level Advisory and Monitoring Committee (HLAMC) to advise and monitor environmental issues.**

Ref.: 1) Environmental and CRZ Clearance issued by MoEF vide
F. No. 10-53/2009-IA.III dated 22nd November 2010
2) G.R. No.CID-3311/Proj.No.203/Navi-10 dated 13/05/2011

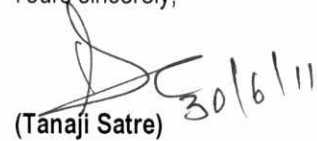
Dear Sir,

As advised by Ministry, Government of Maharashtra (GoM) has constituted a High Level Advisory and Monitoring Committee (HLAMC) to monitor and advise on the environmental issues pertaining to NMIA project. A copy of the G.R. of GoM is enclosed. The 1st meeting of HLAMC has been held on 7th June, 2011 and a copy of the Minutes of the Meeting is being forwarded for your kind perusal and record.

With regards,

Encl. : 1) G.R. for HLAMC
2) Minutes of the 1st Meeting.

Yours sincerely,


(Tanaji Satre) 30/6/11

Dr. Bharat Bhushan,
Director (IA),
Ministry of Environment and Forests,
Paryavaran Bhavan, CGO Complex,
Lodi Road, New Delhi

City & Industrial Development Corporation of Maharashtra Ltd.

(A Government of Maharashtra Undertaking)

Regd. Office: Nirmal, 2nd Floor, Nariman Point, Mumbai - 400 021. Tel: +91.22.2202 6665, 2202 1155 • Fax: +91.22.2202 2509.

Head Office: CIDCO Bhavan, CBD Belapur, Navi Mumbai - 400 614. Tel: +91.22.6791 8211, 2757 1547 • Fax: +91.22.2756 2129 • E-mail: md@cidcoindia.com

FAX TO ACTE

नवी मुंबई आंतरराष्ट्रीय विमानतळ
प्रकल्पासाठी उच्चस्तरीय सल्लागार व
सनियंत्रण समिती गठीत करण्याबाबत.....

महाराष्ट्र शासन
नगर विकास विभाग

शासन निर्णय क्रमांक : सिआयडी-३३११/प्र.क्र.२०३/नवि-१०,
मंत्रालय, मुंबई - ४०० ०३२,
दिनांक : १३ मे, २०११.

CIDCO MRMAL		
Inw. No.	G/NT/0/10	
No.	H.H.2	
Date	01/05/11	
Marked To	ACTE	
S.M.	J.M.D	M.D.

पहा : सिडकोचे पत्र क्रमांक : सिडको/टिअॅन्डसी/एसीटीई/एनएमआयए/ईसी: २२-११-२०१०
/७.I.xxxiv/००४/८७३(एफ), दि. ८ फेब्रुवारी, २०११.

प्रस्तावना :-

नवी मुंबई येथे आंतरराष्ट्रीय विमानतळ विकसित करण्यात येत असून त्यासाठी केंद्र शासनाच्या वने व पर्यावरण मंत्रालयाने पर्यावरणविषयक व सीआरझेड मंजूरी दिली आहे. सदर मंजूरी प्रदानातील अटी / शर्तीनुसार उच्चस्तरीय सल्लागार व सनियंत्रण समिती गठीत करण्याची बाब शासनाच्या विचाराधीन होती.

शासन निर्णय :-

नवी मुंबई आंतरराष्ट्रीय विमानतळ प्रकल्पासाठी उच्चस्तरीय सल्लागार व सनियंत्रण समिती गठीत करण्यात येत आहे. या समितीत खालीलप्रमाणे सदस्य राहतील :-

- | | | |
|---|---|------------|
| १. प्रधान सचिव, नगर विकास | - | अध्यक्ष |
| २. व्यवस्थापकीय संचालक, सिडको | - | सदस्य |
| ३. संचालक, नॅशनल एन्व्हायरमेंटल इंजिनियरिंग रिसर्च इन्स्टिट्यूट (NEERI) | - | सदस्य |
| ४. डायरेक्टर जनरल, द एनर्जी अॅन्ड रिसोर्सेस इन्स्टिट्यूट (TERI) | - | सदस्य |
| ५. सचिव, पर्यावरण विभाग, मंत्रालय | - | सदस्य |
| ६. प्रधान सचिव (वने), महसूल व वन विभाग, मंत्रालय | - | सदस्य |
| ७. संचालक, बी.एन.एच.एस. | - | सदस्य |
| ८. सहव्यवस्थापकीय संचालक, सिडको | - | सदस्य सचिव |

(कृ.मा.प.)

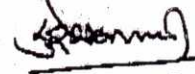
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सदर समितीची कार्यकक्षा पुढीलप्रमाणे राहिल :-

१. केंद्र शासनाच्या वने व पर्यावरण मंत्रालयाने दिलेल्या मंजूरीनुसार पर्यावरण विषयक बाबींचा आढावा घेणे
२. वने व पर्यावरण मंत्रालयाने दिलेल्या मंजूरीनुसार पुर्तता करण्यासाठी नियोजन, बांधकाम व अंमलबजावणीसाठी शिफारशी करणे.

सदर समितीची बैठक सिडको कार्यालयात व सिडको महामंडळ आयोजित करेल अशा अन्य ठिकाणी ३ महिन्यातून एकदा वा आवश्यकतेनुसार आयोजित करण्यात येईल.

महाराष्ट्राचे राज्यपाल यांच्या आदेशानुसार व नावाने,



(सुरेश काकाणी)

उप सचिव, महाराष्ट्र शासन

प्रति,

- १) मा. मुख्यमंत्री सचिवालय, मंत्रालय, मुंबई ४०० ०३२.
- २) प्रधान सचिव (१), नगर विकास विभाग, मंत्रालय, मुंबई - ४०० ०३२.
- ३) प्रधान सचिव (वने), महसूल व वन विभाग, मंत्रालय, मुंबई-४०० ०३२.
- ४) सचिव, पर्यावरण, मंत्रालय, मुंबई - ४०० ०३२.
- ५) व्यवस्थापकीय संचालक, सिडको लि., निर्मल, नरिमन पॉइन्ट, मुंबई - ४०० ०२१.
- ६) सहव्यवस्थापकीय संचालक, सिडको लि., निर्मल, नरिमन पॉइन्ट, मुंबई - ४०० ०२१.
- ७) संचालक, नॅशनल एन्व्हायरमेंटल इंजिनियरिंग रिसर्च इन्स्टिट्यूट (NEERI).
- ८) डायरेक्टर जनरल, द एनर्जी अँड रिसोर्सेस इन्स्टिट्यूट (TERI).
- ९) संचालक, बी.एन.एच.एस.
- १०) निवडनस्ती (नवि-१०).

CITY AND INDUSTRIAL DEVELOPMENT CORPORATION OF MAHARASHTRA LIMITED

REGD. OFFICE:

"NIRMAL", 2nd Floor, Nariman Point,
Mumbai - 400 021.

PHONE : (Reception) +91-22-6650 0900 / 6650 0928

FAX : +91-22-2202 2509 / 6650 0933

HEAD OFFICE:

CIDCO Bhavan, CBD Belapur,
Navi Mumbai - 400 614.

PHONE : +91-22-6791 8100

FAX : +91-22-6791 8166

Ref. No.

CIDCO/CGM(Tpt. & Airport)/NMIA/2011/

Date : June 29, 2011

To,

1. Shri. **T. C. Benjamin**, IAS
Principal Secretary,
Urban Development Dept. (I)
Government of Maharashtra,
Mantralaya, Mumbai – 400 032

2. Managing Director,
CIDCO, CIDCO Bhavan,
CBD Belapur,
Navi Mumbai- 40 614

3. Director, NEERI,
National Environmental Engineering
Research Institute,
Nehru Marg, Nagpur
Pin: 440 020

4. Director General, TERI,
The Energy and Resources
Institute, Darbari Seth Block,
IHC Complex, Lodhi Road,
New Delhi - 110 003

5. Secretary (Environment)
Government of Maharashtra,
Mantralaya, Mumbai – 400 032

6. Principal Secretary (R and F),
Government of Maharashtra,
Mantralaya, Madam Cama Road,
Mumbai – 400 032

7. Director, BNHS,
Hornbill House,
Opp.Lion Gate,
Shaheed Bhagat Singh Road,
Mumbai 400 001.

Sub : **Development of Navi Mumbai International Airport (NMIA) Project**
– **Minutes of 1st Meeting of High Level Advisory and Monitoring Committee (HLAMC) to advise and monitor environment issues.**

Ref.: 1) Environmental and CRZ Clearance issued by MoEF vide

F. No. 10-53/2009–IA.III dated 22nd November 2010

2) G.R. No.CID-3311/Proj.No.203/Navi-10 dated 13/05/2011

Respected Sir,

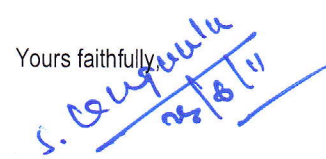
As advised by Ministry of Environment & Forest, Government of Maharashtra (GoM) has constituted a High Level Advisory and Monitoring Committee (HLAMC) to monitor and advise on the environmental issues pertaining to NMIA project (Refer-1). I am directed to forward a copy of minutes of the 1st meeting duly approved by the Principal Secretary, Urban Development Dept., GoM and Chairman, HLAMC for your kind perusal.

Thanking you,

Encl. : 1) G.R. for HLAMC

2) Minutes of the HLAMC Meeting.

Yours faithfully,


(S. Vijayakumar)

Chief General Manager (Tpt. & Airport)

cc to : The Managing Director, CIDCO

Minutes of the First Meeting of "High Level Advisory & Monitoring Committee for Navi Mumbai International Airport (NMIA)" held at CIDCO Conference Room at Nirmal, Nariman Point on 07-06-2011 at 16.00 Hrs.

The Environment and CRZ Clearance (EC) received for NMIA from MoEF stipulates that a High Level Advisory and Monitoring (HLAM) Committee shall be constituted by CIDCO Ltd. to monitor the compliance of specific environmental related issues/recommendations during planning, construction and operation stages of the project. The Committee is expected to meet once in three months and decisions taken to be put on the website.

Accordingly, the Government of Maharashtra (GoM) has constituted a High Level Advisory and Monitoring Committee to monitor various compliances, vide GR No. CID-311/Proj. No. 203/Navi-10 dated 13th May 2011, with following composition:

1. Principal Secretary, UD Department, GoM, - Chairman

Members :

2. Managing Director, CIDCO Ltd.
3. Director, National Environmental Engineering Research Institute (NEERI)
4. Director General, The Energy and Resources Institute (TERI)
5. Secretary, Environment, GoM
6. Principal Secretary (Forests), GoM
7. Director, BNHS
8. Jt. Managing Director, CIDCO Ltd. – Member Secretary

Following Committee Members were present for the 1st meeting:

- | | | |
|--|---|----------|
| i) Shri T.C. Benjamin, IAS
Principal Secretary, UD Dept.,
Government of Maharashtra | - | Chairman |
| ii) Shri Tanaji Satre, IAS
MD, CIDCO Ltd. | - | Member |
| iii) The Secretary, Environment, GoM
Represented By: Dr. B.N. Patil,
Member Secretary, MCZMA | - | Member |

- | | | |
|--|---|--------|
| iv) Principal Secretary (Forest),
Revenue and Forest Department, GoM
Represented By: Mr. Pradeep Kumar,
Jt. Secretary | - | Member |
| v) The Director, BNHS
Represented By: Mr. Sujit Narwade, | - | Member |

Following members were unable to attend the meeting

- i. Director, NEERI
- ii. Director General, TERI

CIDCO Invitees:

- i. Shri S. Vijayakumar, ACTE
- ii. Shri J.R. Kulkarni, GM(Airport)

CIDCO circulated copies of the relevant approvals received for the NMIA project, including the EC received from MoEF, to all the members.

1. At the outset, the Chairman welcomed all the Members of the **"High Level Advisory & Monitoring Committee"** and explained the background for formation of the Committee based on the conditions of Environmental Clearance for NMIA issued by MoEF and briefly outlined the role of the Committee to monitor the compliance of specific environmental related issues during planning, construction and operation stages of the project. Chairman then requested ACTE, CIDCO to make a presentation to the Committee.
2. ACTE, CIDCO gave presentation regarding the progress of NMIA and CIDCO's compliance of various EC conditions. Out of 66 conditions specified in the EC, 53 conditions pertain to the construction stage of NMIA, of which around 12 conditions pertain to environment issues/recommendations in pre-construction stage and which are being actively complied/monitored by CIDCO. The deliberations on these pertinent environmental issues are given below:

Sl. No.	EC Condition	EC Condition (Pre Construction Stage) – Environment Related Issue/Recommendation	Discussions on Item	Committee's Recommendations
1.	7(l) – iv	<p><i>The plantation and protection of mangroves over an area of 615 ha (245 hectares of good quality Mangroves Park shall be developed at Vaghivli on the north of the airport area + 60 hectare area located on the west side of the airport site around Moha creek and Panvel Creek + 310 hectares area on the northeast of the airport site between Gadhi River, Mankhurd Panvel Rail corridor and National Highway 4B shall be declared as No-development zone and CIDCO shall under take the development as Mangroves park/green area) would be developed and maintained in the shape of Biodiversity Mangrove Parks well before the airport project is initiated and its progress reported to the high level committee mentioned below at (xxxiii).</i></p> <p><i>CIDCO shall formally amend the land use in the sectioned development plan of Navi Mumbai following the due procedure under MRTP Act to achieve this objective.</i></p>	<ul style="list-style-type: none"> • CIDCO appointed M/s. Lewis Environmental Services (LES), USA as Expert Review Consultant (ERC) to study site conditions and provide design guidelines for the development of mangrove park on 245 Ha. in Vaghivali island and for regeneration of mangroves in the No Development Zone (NDZ) areas. • Mr. Roy Lewis of M/s LES, USA visited the sites for mangrove park as well as the NDZ areas in the month of May 2011 and submitted the concept for undertaking the development of mangrove park and regeneration of mangroves in NDZ areas along with Department of Life Sciences, Mumbai University. 	<p>Committee noted the progress of work on the development of mangrove park as well as regeneration of mangroves in NDZ areas and found it in compliance with the condition of MoEF.</p> <p>As per the statutory process of MR&TP Act for the amendment of land use for protection of mangroves, CIDCO has commenced the work and proposal submitted to GoM for approval, which will be completed by end of June 2011.</p>

Sl. No.	EC Condition	EC Condition (Pre Construction Stage) – Environment Related Issue/Recommendation	Discussions on Item	Committee's Recommendations
2.	7(l) - v	<p><i>The proposed re-coursing of tidally influenced water body outlets from Ulwe river has a large cross sectional area at the middle with the river/creek on either end remaining unchanged with its natural course. The whole system should function as was functioning earlier without airport project. Surface runoff should not be let into the channel just because the area of cross section is large. The whole airport area will be reclaimed and the level raised to 7m whereas the existing level all around the airport will continue to be low in its natural state. There will be flow all around due to surface runoff. This additional quantity must be collected by appropriate drainage system and let into Gadhi River and not into the re-coursing channel. The recourse channel may be able to take it but not the river or creek on either side of the channel.</i></p> <p><i>This aspect shall be examined by CIDCO in details to avoid the flooding of the low-lying areas besides inducting other hydrological and environmental studies.</i></p>	<ul style="list-style-type: none"> • CW&PRS, Pune assigned work of the revision of 1D & 2D mathematical and physical model studies. • Revised 1D mathematical study report submitted in May 2011. Revised 2D mathematical study report and the physical model study report expected to be submitted by June 2011. • Preparation of revised master drainage plan for airport and its surrounding areas is underway 	<p>Committee noted progress of work and found it in compliance with the condition of MoEF.</p> <p>Final report and its findings to be placed before the committee soon after receipt.</p>
3.	7(l) - vi	<p><i>The entire system shall be studied as one composite system with appropriate boundary conditions to reflect the worst conditions – minimum 100 years to be specified and</i></p>	<p>Pertains to Compliance activities in Sr. No. 2</p>	<p>Committee noted progress of work and found it in compliance with the condition of MoEF.</p>

Sl. No.	EC Condition	EC Condition (Pre Construction Stage) – Environment Related Issue/Recommendation	Discussions on Item	Committee's Recommendations
		<i>compliance ensured such as -flooding, surface runoff not only from the airport but also from surrounding areas as well, normal flow, tidal flow due to tidal surge having a long return period, possible obstructions to flow, tributaries joining the main river etc so as to take appropriate protection and remedial measures. Due to construction of recourse Channels and also due to tail end of the Gadhi & Ulwe Rivers into Panvel Creek, there is a need to prepare a Comprehensive Master Plan for Surface drainage and Flood protection, keeping in view the proposed developments. CIDCO shall submit the above Master Plan to the Ministry.</i>		Final report and its findings to be placed before the committee soon after receipt.
4.	7(l) - viii	<i>CIDCO shall prepare a Management Plan to handle the runoff from the airport and to ensure that runoff associated risks/ impacts such as siltation in receiving water body are avoided and are taken care within airport area during monsoons.</i>	<ul style="list-style-type: none"> M/s Louis Berger Group (LBG), USA, Prime Consultant for NMIA is preparing the drainage plan for the airport area which will be finalized by July 2011 	Final report and its findings to be placed before the committee soon after receipt.
5.	7(l) - ix	<i>On the northern part of the airport there is a secondary channel of the Gadhi River which will be filled up for the airport runway construction. This will be replaced by a shorter channel along the northern boundary of the airport.</i>	Pertains to Compliance activities in Sr. No. 2	Final report and its findings to be placed before the committee soon after receipt.

Sl. No.	EC Condition	EC Condition (Pre Construction Stage) – Environment Related Issue/Recommendation	Discussions on Item	Committee's Recommendations
		<p><i>The channel shall be designed appropriately through overall modeling study so that the channel provides tidal water to the mangrove park and moderate tidal flows under worst environmental conditions.</i></p> <p><i>Need for widening and deepening of Gadhi River may also be studied simultaneously, if required.</i></p> <p><i>The revised widths and depths of recourse channels shall be determined with modified drainage and worst rainfall/tide conditions including appropriate factor of safety.</i></p>		
6.	7(l) - xi	<p><i>A detailed map shall be submitted by CIDCO to the Ministry with quantification of affected mangrove area with density i.e. initial proposal & modified proposal and proposed mangrove forestation with species.</i></p> <p><i>The work on the proposed compensatory mangrove park should commence well before the construction of the airport is undertaken.</i></p> <p><i>The mangrove irrigation systems and diverse species selections for all the four areas may be scientifically made.</i></p> <p><i>The river front development in all the areas not protected by adequate mangrove buffer along the Panvel creek and Gadhi river may be considered through studies.</i></p>	Pertains to Compliance activities in Sr. No. 1	<p>Committee noted the progress of work on the development of mangrove park as well as regeneration of mangroves in NDZ areas and found it in compliance with the condition of MoEF.</p> <p>Periodic reports and its findings submitted by Consultants to be placed before the Committee.</p>

Sl. No.	EC Condition	EC Condition (Pre Construction Stage) – Environment Related Issue/Recommendation	Discussions on Item	Committee's Recommendations
7.	7(l) - xxii	<p><i>To avoid accidental damage (fire, hazardous material waste handling, oil spills, wastewater disposal) in the adjacent ecologically fragile surroundings and mangrove area – a risk assessment plan and disaster management plan should be prepared and with periodic compliance of safety measures in place to avoid loss due accidental damage that could have been otherwise avoided. Further CIDCO shall appoint a dedicated professional team/cell to handle disaster and associated risks.</i></p>	<ul style="list-style-type: none"> • National Institute for Disaster Management (NIDM), New Delhi has been contacted for preparing the Risk Assessment and Disaster Management plan. • Their team visited the NMIA site in the month of April 2011 and discussed about the comprehensive scope of work. • NIDM shall prepare the Risk Assessment and Disaster Management Plan which will be implemented by CIDCO 	<p>Committee noted progress of work and found it in compliance with the condition of MoEF.</p> <p>Periodic reports and its findings submitted by Consultants to be placed before the Committee.</p>
8.	7(l) - xxiii	<p><i>In addition to the above –CIDCO shall ensure that all the risks (such as fire, hazardous material waste handling, oil spills, waste – both liquid/solid wastes) associated/ resultant risk during various stages of development (like planning, construction, operation) are managed within the airport area.</i></p> <p><i>In case of any unforeseen event as stated above the liability – environmental and social will rest with the developer/CIDCO, the decision of the high level Committee, stipulated below will be full and final for liability fixations.</i></p>	<ul style="list-style-type: none"> • This condition pertains to Disaster Management for NMIA which shall be comprehensively looked after by the airport Developer and suitable conditions are being incorporated in the bid document to ensure compliance. 	<p>Committee noted the observations.</p>

Sl. No.	EC Condition	EC Condition (Pre Construction Stage) – Environment Related Issue/Recommendation	Discussions on Item	Committee's Recommendations
9.	7(l) - xxiv	<i>The compliance report of the monitoring committee shall be made 'public' (put online and/or also displayed for wider dissemination of compliance) at all stages (planning, construction, operation) to ensure effective monitoring and compliance of conditions.</i>	<ul style="list-style-type: none"> Minutes of the Committee's meetings will be uploaded on the website 	
10.	7(l) - xxix	<i>CRZ provisions shall be applicable on the tidally influenced diverted channels of Ulwe and Gadhi Rivers and CIDCO shall finalise the Airport plans accordingly.</i>	<ul style="list-style-type: none"> Proposal for Environment and CRZ Clearance for diverted channels of Ulwe and Gadhi rivers was approved by MCZMA in Dec 2010 In light of CRZ Notification 2011, a fresh proposal is to be submitted. 	CIDCO to submit a fresh proposal to MCZMA in next meeting.
11.	7(l) - xxxi	<i>CIDCO shall conduct the baseline survey of avian fauna before the start of construction and the details shall be put up every 3 months on the website in association with BNHS.</i>	<ul style="list-style-type: none"> CIDCO contacted Bombay Natural History Society (BNHS) to carry out the comprehensive Avian Fauna Study, as recommended by MoEF. The scientists of BNHS visited NMIA site and comprehensive study will be commenced. 	<p>Committee noted progress of work and found it in compliance with the condition of MoEF.</p> <p>Periodic reports and its findings submitted by Consultants to be placed before the Committee.</p>
12.	7(l) - xxxii	<i>The Environmental Clearance/ CRZ Clearance is recommended below is only for the Navi Mumbai Airport project. CIDCO shall obtain the Environmental and CRZ clearance separately for off airport facilities and other off infrastructure projects after finalising the locations and details</i>	<ul style="list-style-type: none"> Proposal for Environment and CRZ Clearance for offsite physical infrastructure was approved by MCZMA in Dec 2010 In light of CRZ Notification 2011, a fresh proposal is to be submitted. 	<p>Committee noted progress of work and found it in compliance with the condition of MoEF.</p> <p>CIDCO to submit a fresh proposal to MCZMA in next meeting.</p>

Sl. No.	EC Condition	EC Condition (Pre Construction Stage) – Environment Related Issue/Recommendation	Discussions on Item	Committee's Recommendations
		<i>as may be required under the EIA Notification 2006 and the CRZ Notification.</i>	<ul style="list-style-type: none"> • Environment clearance for all offsite airport facilities will be taken at appropriate times during course of airport development. 	

The meeting concluded with vote of thanks to the Chair.

