



MINUTES OF THE TWENTY SEVENTH MEETING OF THE BOARD OF MANAGEMENT HELD ON 07 FEBRUARY 2018 AT 10:30 HRS AT THE CONFERENCE ROOM

The twenty seventh meeting of the Board of Management was held on 07 February 2018 at 10:30 hours at the Conference Room.

The following were present:

Dr Leena Srivastava	Chairperson
Dr Rajiv Seth	
Prof Dipankar Gupta	
Ms Anita Arjundas (through teleconf)	
Mr Ishteyaque Amjad	
Air Marshal K K Nohwar (Retd.)	
Dr Prateek Sharma	
Dr Arun Kansal	
Dr Anandita Singh	
Dr Smriti Das	
Dr Soumendu Sarkar	
Dr Seema Sangita	Special Invitee
Dr Sapna Narula	Special Invitee
Dr Suresh Jain	Special Invitee
Dr Sudipta Chatterjee	Special Invitee
Dr Atul Kumar	Special Invitee
Dr Deepty Jain	Special Invitee
Ms Ranjana Saikia	Special Invitee
Mr Anandajit Goswami	Special Invitee
Capt Pradeep Kumar Padhy (Retd.)	Secretary

Dr Alok Adholeya, Mr Inder Walia, Mr Tulsi Tanti, and Dr Ashok Khosla, were unable to attend the meeting.

ITEM NO. 1. To confirm the minutes of the 26th meeting of the Board of Management held on 24 October 2017. The Chairperson informed that the minutes of 26th meeting of the Board of Management held on 24 October 2017 were circulated to the members of the Board. No comments on the minutes have been received.

TS/BM/27.1.1.The Board discussed and confirmed the minutes of 26th meeting of BoM held on 24 October 2017.

Matters for Information:

ITEM NO. 2(a). Progress on the status of setting up of Off-Campus Centre at Hyderabad:

The Registrar apprised the Board of the construction activities of Phase-1 of the off campus. He stated that the civil work had started in mid July 2017 and the work was progressing as per planned timeline. While presenting the latest photographs of the construction work he informed that 50-80% civil work up to the plinth beam and first slab level had been completed in various blocks and the structural works were expected to be completed by October 2018. He informed the members that this green campus would be GRIHA compliant with 5 stars rating. The VC stated that 5-star GRIHA compliance was recommended by the Board and the same was being implemented.

The Board noted the matter.

ITEM NO. 2(b). MoU signed with University of Strathclyde: The Registrar informed that a MoU had been signed between TERI SAS and University of Strathclyde on 05 Dec 2017. He informed that Under the MoU, the two parties had agreed to work together for mutual benefit to assist and build capacity for the sustainable development of cities and city systems and develop relationships for joint research as well as knowledge exchange on sustainable city related issues. He stated that the form of cooperation would also involve exchange of staff and reciprocal visits. Mr Ishteyaq wanted to know whether the institution is interested in the smart city initiatives of India. Dr Leena explained that the University has been in touch with other government agencies with regards to this.

The Board noted the matter.

ITEM NO. 2(c). Agreement with Department of Industrial Engineering and Innovation Sciences Eindhoven, Netherlands: The Registrar informed the Board that an agreement had been signed between TERI SAS and Technische Universiteit Eindhoven on 21 Dec 17 to define the general conditions related to educational and scientific cooperation between both the institutions. Dr Seth mentioned that through the arrangement an opportunity for setting up an incubator on innovation has opened up. He stated that the scope of cooperation would include student and staff exchanges. Air Marshal Nohwar wanted to know the standing of the Technische Universiteit and suggested that TERI SAS should aim to engage with Institutions of good standing and benefit from the cooperation. Dr Seth informed that the particular department of the University has a good rating in the field of innovation.

The Board noted the matter.

ITEM NO. 2(d). Accreditation by NAAC: The Registrar informed that TERI SAS would be due for its 2nd cycle NAAC accreditation in March 2018. He stated that as required by NAAC a comprehensive ‘Self Study Report’ had been submitted on 16 Jan 18 to NAAC for purpose of the accreditation. The Chair stated that a number of processes had undergone change on the part of NAAC and they had completely transformed their evaluation system. She informed that NAAC had made the system much more

transparent and data oriented and TERI SAS were amongst the first few universities who were coming up for evaluation after these changes had taken place. She informed that the University was able to complete all the paper works despite a strict timeline given by NAAC.

The Board noted the matter.

ITEM NO2(e). Setting up of Solar Energy Lab: The Registrar informed that an outdoor solar energy lab had been established in the campus. He stated that the lab has experimentation facility for solar radiation measurement, sunshine duration recording, testing and standardization of box type solar cooker, testing and standardization of concentrator solar cooker, performance analysis of basin type solar still, solar greenhouse and solar dryer.

The Board noted the matter.

ITEM NO2(f). Setting up of Analytical Geochemistry Lab: The Registrar informed that an analytical and geochemistry lab had been setup in the campus to cater to the needs for research in understanding the earth sciences problems and providing solutions to these problems. He stated that the laboratory was engaged in understanding the natural occurrence of Arsenic, Fluoride and Uranium in groundwater. Prof Dipankar enquired about the specific role the lab intended to play. Dr Arun Kansal informed that the lab had been set up purely as part of curriculum and researchers would be monitoring and provide precautionary advice. Air Marshal Nowhar wanted know whether the lab was going to target areas and do ground studies on the presence of arsenic, fluoride or uranium etc. in areas close to nuclear reactor, power plant, factory etc and share the adverse findings with Govt agencies. The Chair stated that the lab was set up as a consequence of a research project that some of the faculty members were involved in, and they used the resources from that particular project to set up the lab. She mentioned that the lab was not so sophisticated, and efforts were on to look for additional resources that could be used to upgrade its quality. She stated that the research carried out in collaboration with some of the US Universities preceded the setting up of the lab and its findings were shared with the Govt of Punjab. Air Marshal Nohwar enquired about the credibility of the testers used for the studies and gave the example of Sriram Labs who provided quality check on various testers and wanted to know whether such tie ups with any established lab had been worked out. The VC explained that eventually the University would be looking for national level accreditation once an appropriate level of competency is reached and informed that all the testers used were available in the market and were calibrated.

The Board noted the matter. Air Marshal Nowhar suggested that since this particular kind of lab had been set up, hence specific goal might be set for the facility which could include examining 10 specific districts of identified areas which were known to have these kinds of issues.

Action – Dean (Research & Relationship)

ITEM NO2(g). Revised Pay scale for employees of TERI SAS: The Registrar stated that the pay and allowances of faculty and administrative staff had been revised in line with 7th CPC recommendations and the revised scales effective wef 01 Jan 2016 were implemented on 30 Nov 2017. He informed that 40% of the arrears would be paid in March'2018 and the remaining 60% in two equal instalments in July'18 and January'2019.

The Board noted the matter.

ITEM NO2(h). Acceptance of resignation of Prof Ashok Gulati: The Registrar informed that Prof Ashok Gulati had resigned from the membership of the Board of Management.

TS/BM/27.2(h).1 The Board accepted the resignation.

ITEM NO. 3. Change of Name of the Deemed University. The Registrar stated that the Hon'ble Supreme Court vide an order in Nov 2017 had directed the UGC to ensure that Deemed to be Universities be restrained from using the word "University" and following this, the UGC in a letter dated November 10th had communicated to take necessary action within 15 days. He informed that an emergency resolution was thereafter circulated amongst the Board members on 22 Nov 2017 for consideration and subsequently 'TERI School of Advanced Studies' was adopted as the new name. He requested the Board to confirm the resolution.

TS/BM/27.3.1. The Board resolved to:-

- a) confirm the resolution dated 23 Nov 2017 and approve the change in name of the TERI University to TERI School of Advanced Studies.
- b) authorise the Vice Chancellor/ Pro Vice Chancellor/Registrar severally/jointly for making applications for change of name & to do all such acts, deeds, things and matters as may be required or necessary in this matter on behalf of the Deemed to be University.

ITEM NO.4. Presentation by Department of Business and Sustainability (DBS). Head of Department of Business and Sustainability, Dr Sapna Narula gave a presentation highlighting research activities carried out in DBS and its future growth plans. She presented about the faculty, academic programmes, research activities, MDP, placement activities and functions of the Department. Mr Ishteyaque suggested that the Department could provide leadership in investigating industry problems related to sustainability such as packaging, waste, e-waste and water management. Prof Gupta suggested that the Dept might focus on agribusiness as it offered promising potential and also carryout comparative studies in water sustainability in corporate houses. He suggested that Department should focus on sustainable entrepreneurship and nurturing core competencies. Ms Arjundas suggested that subjects like zero liquid discharge etc. might be included in the curriculum to this the Chair responded that courses on such subjects are offered as electives. Ms Arjundas suggested that the Dept might approach a few reputed firms for placement to which the Chair assured that that the university would explore approaching larger companies on sustainability as advised. Air Marshal Nohwar stated that certain corporate houses in the Punjab have bought large chunks of land and changed the agricultural pattern which contributed to the pollution level in Delhi; he suggested that the university might therefore set a goal on organic farming

Board of Management –27/07.02.2018

towards sustainable agriculture. The Chair stated that the University had approached few partners and looking for focused programme on agriculture and land issues.

Action:- HoD (Dept of Business and Sustainability)

ITEM NO.5 To report the decisions taken by the Chairperson on behalf of the Board of Management.

TS/BM/27.5.1. The Board resolved that the actions taken by Chairperson, BoM, be reported and recorded as per details given below, be approved: -

Ser	Name	Designation	Wef	Type of appointment
(a)	Dr Shaleen Singhal	Professor	01 Jan 2018	Re-designation
(b)	Dr Atul Kumar	Professor	01 Jan 2018	Re-designation
(c)	Dr VK Konoorillam,	Associate Prof	01 Feb 2018	Direct Appointment
(d)	Mr Anandajit Goswami,	MDP Coordinator	01 Feb 2018	Direct Appointment

ITEM NO.6 To appoint Auditor for Financial Year 2017-18. The Dy Finance Officer, Mr Dhanraj Singh submitted that M/s Rajan K Gupta & Co., be appointed as the Statutory Auditor for the Financial Year 2017-18. He presented the details about the firm to the Board.

TS/BM/27.6.1 The Board resolved that M/s Rajan K Gupta & Co be appointed as the statutory auditor for the FY 2017-18.

ITEM NO.7 Approval to apply to AICTE for providing technical education. The Registrar informed that on 03 Nov 2017 the Hon'ble Supreme Court while perusing a case related to open and distance learning, directed that all technical programmes offered by Deemed Universities would require AICTE approval. He stated that based on the court directive the AICTE had urged Deemed Universities to apply as new Institutes (new user ID & Password) for taking approval for all the technical programmes conducted by them. The VC stated that she and the Registrar met the Chairperson and Director e-Governance, AICTE on 01 Feb 18 and held discussions wrt waiver on various mandatory requirements for library, drawing hall, language lab and workshop. She stated that the AICTE regulations were applicable for all the universities and not for specialised institutions like TERI SAS and therefore in the application a few items were being shown as non-compliance with the knowledge of Chairman, AICTE and Director e-Governance and as advised by them additional rooms provisioned for library. The Registrar presented that the preliminary application for approval of the five technical programmes conducted at TERI SAS had been submitted in the online

portal of the AICTE on 02 Feb 18. He intimated that as required by AICTE, the Board is required to approve submission of the application and other resources required to operationalize the technical programmes.

TS/BM/27.7.1 The Board resolved to:-

- (a) approve that the TERI School of Advanced Studies trust shall apply to AICTE for approval to offer technical Education in MTech (Renewable Energy Engineering and Management), MTech (Urban Development and Management), MTech (Water Resource Engineering and Management), MBA (Business Sustainability) and MBA (Infrastructure) and shall allocate land at 10 Institutional Area, Vasant Kunj measuring 2.0 acre earmarked for the TERI School of Advanced Studies.
- (b) allocate the required funds for creation of carpet and built-up area in TERI School of Advanced Studies at 10 Institutional Area, Vasant Kunj as required for proposed institution TERI School of Advanced Studies and for procurement of equipment and other required entities for the smooth functioning of the same.
- (c) authorise the Vice Chancellor/ Pro Vice Chancellor/Registrar severally/jointly for signing the applications on behalf of the trust.

ITEM NO.8 Action Taken Report on Discussion on Fund raising Strategy. The Registrar informed that in the 26th meeting of the BoM held on 24 Oct 2017, the members were assured that new developments in fund raising aspects would be brought to the notice of the Board. Following presentations on concrete developments on the subject were placed before the members for their information: -

- (a) **Centre of Excellence in Environment and Urban Health.** Dr Suresh Jain informed that a concept to set up a world-class Centre of Excellence in Urban Health and Environment had been mooted. He stated that the Centre would nurture expert knowledge in environment sciences, research and data analysis, together with specialist facilities and knowledge of its partners in medical sciences (especially vector borne diseases and diarrheal diseases) and epidemiology. He stated that the Centre would cost around 40 crores. He informed that the Centre would build an observatory to aggregate, monitor, map environmental and health data to prevent and mitigate rapid rises of these diseases and have the following objectives:
 - (i) provide specialist treatment for Vector Borne diseases and Diarrheal diseases;
 - (ii) build national capacity in Environment and Urban Health mapping and tracking;
 - (iii) build a body of knowledge and advance Education in Environment and Health.

Prof Gupta congratulated Dr Jain for the idea and enquired as to which all diseases would fall under environmentally caused disease and whether the

service provided would be of curative, preventive or advisory nature. Dr Leena stated that the Centre would provide advisory and curative services for limited number of environmental diseases and doctors registered elsewhere would be hired for the Centre. She stated that a graduated approach would be taken and as a starting point air pollution based, water borne and vector borne diseases would be handled by the Centre. Prof Gupta suggested that to be more specific the Centre should focus on vector borne and diarrheal diseases to build national capacity. Air Marshal Nohwar enquired whether the Centre aimed to become the sole advisor to the Govt on these areas and suggested that the Centre should aim to function as an advisory body to govt hospitals which attract many patients. The Chair stated that the Centre was not seeking to become the sole agency on the area of environmental diseases, but it aimed to become a nodal point to help develop a system to collate and analyze data related to these diseases. Air Marshal Nohwar suggested that a review of the role of the Centre could be carried out after five years

Action:- Dr Suresh Jain

- (b) **Coal India & other initiatives.** Dr Sudipto Chatterjee presented, the fund-raising strategy for Department of Natural Resources, TERI SAS. He spoke on the research priorities shaping up in the Department and efforts being made to garner financial resources for the same. He presented to the BOM, the project on Forest Landscape Restoration and Livelihood to local communities implemented by the Department in partnership with CMPDI, Ranchi and BCCL, Dhanbad and supported by Ministry of Coal, Govt. of India. He apprised the members of the potential of scaling up of restoration of 6 ha of open cast mines to 30 ha in future through further support of Ministry of Coal. Air Marshal Nohwar suggested that in the reclaimed lands using drip irrigation might be considered. Dr Chatterjee stated that a company had been hired to provision drip irrigation. The Chair stated that there is a regulatory requirement of reverting these areas to original state, further, the quality of water and contaminants etc. posed a serious challenge in implementation of the project.
- (c) **Sustainable Energy Research & Innovation Centre.** The proposal on Sustainable Energy Research and Innovation Centre was presented by Prof Atul Kumar. The proposal aimed at setting up an innovation centre to work in close collaboration with the industry to come up with novel ideas to reduce their energy footprint, integration of renewable technologies, environmental protection and eco-system sustainability. He stated that it would be based on four primary pillars of technical research, manpower training, socio-economic sustainability initiatives and publication of articles in form of research papers, popular article, policy brief etc. He apprised the members that the concept was presented earlier to the CTO of Indus Towers Pvt. Ltd., Mr. Manoj Singh, who had expressed that the concept was in line with their thought process. Dr Atul mentioned that based on the inputs received, the concept was being modified and formulated as a proposal to be submitted to Indus Towers for approval. The Chair informed that the whole initiative was based on the idea of research on energy solution working with waste heat, batteries and to see that the infrastructure of M/s Indus tower could be put to better social use.

- (d) **Behavioural Research Laboratory.** Dr Deepty Jain presenting the contours of the laboratory stated that globally cities were facing challenges of deteriorating infrastructure supply and quality, environmental conditions and quality of life. She explained that there was wide gap between the perceived impacts of decision made to address these issues. She further stated that the behavioral research laboratory was proposed at TERI-SAS to enable the systematic study and analysis of the behavior of the identified three stakeholders, that capitalize on existing resources and extends to include sociology, anthropology and cognitive behavioral sciences. She mentioned that initially the proposed lab would contribute to two key sectors - transport and energy – in unturned decision making, policy designing, designing systems to achieve the target of sustainable development. The presentation also defined key budget of INR 14 crores required to support this kind of lab for initial five years. Air Marshal Nohwar enquired about the feedback received from faculty on students who had already gone to various districts and are engaged in such studies. Dr Soumendu mentioned that a group of students were working on the field of sustainable consumption behavior in the University to look at waste segregation habits of people. He stated that the sample involved was very small and the University intended to reach out to corporates and policy makers for big data. Air Marshal Nohwar stated that projects like Swachh Bharat have specific goals and advisors on ground are helping in achieving the objectives, in similar manner, for nudging behavior initiatives a large force and more funds would be required. Dr Jain stated that existing fund would be used to start the activities in the NCR area. Air Marshal Nohwar suggested that innovative concepts like quadcopter could be used for dropping material, particularly in hilly areas where road travel takes long, and also to those living in areas that are virtually inaccessible. Prof Gupta suggested that people who could be nudged easily behaviorally could be identified for study so as to begin with people who were more susceptible to environmental issues.

Action:- Dr Deepty Jain

- (e) **Climate Jamboree.** A presentation on a proposed mega event on climate action titled - "Climate Jamboree" was given by Ms. Ranjana Saikia. She stated that the whole ideas was to mobilize students towards sustainability. She stated that the three day jamboree would have multiple activities like talks, hand on demonstration, innovative labs etc. She stated that a footfall of 10000 students were being planned and the students will be from the age group of 15 yrs to 24 yrs from various schools and colleges across the country.

Members welcomed the idea of the event and requested to start the work on it immediately for its successful implementation. Prof Dipankar suggested that the students who would participate in the event could be made part of the proposed behavioural lab of TERI School of Advanced Studies. Air Marshal Nohwar suggested that participants might be asked to develop ideas on sustainable development of their localities and the best idea could be rewarded after the event at a opportune time. He stated that if motivated earnestly this

Board of Management –27/07.02.2018

might fetch very innovative concepts. Air Marshal Nohwar also suggested that help of organizers of Surajkund mela could be sought who could provide leads for organizing an event of such magnitude. Prof Gupta suggested that participants could be segregated to different groups with one group being all age group.

Action:- Ms Ranjana Saikia

ITEM No.9: To finalise dates of meetings of BoM. The Registrar stated that the UGC required meetings of the BoM to take place at least four times a year. He informed that three additional meetings are required to be held in the calendar year and proposed the following dates for the same:

- | | | | |
|-----|----------------------|---|--|
| (a) | 28th BoM | : | 23 rd -25 th May 2018 |
| (b) | 29th BoM | : | 22 nd -24 th August 2018 |
| (c) | 30 th BoM | : | 14 th -16 th November 2018 |

TS/BM/27.9.1 The Board resolved that the dates be circulated to the members for a final decision.

There being no other items for discussion the meeting came to an end at 13:00 hrs.

Sd/
Capt Pradeep Kumar Padhy (retd.)
Registrar

Annexure: –

1. Resolution dated 23 Nov 17

Distribution: -

Electronic Copy:

1. Chancellor, TERI School of Advanced Studies
2. Vice Chancellor, TERI School of Advanced Studies
3. All members of Board of Management
4. Website

Printed Copy:

5. Registrar, TERI School of Advanced Studies

