

B.M.S.COLLEGE OF ENGINEERING, BANGALORE-560 019

TECHNICAL EDUCATION QUALITY IMPROVEMENT PROGRAMME, PHASE-II

TENTH MEETING OF THE SUB-COMMITTEE OF BOG



MINUTES

DATE : 26.05.2014

VENUE: BOARD ROOM

B.M.S.COLLEGE OF ENGINEERING, BANGALORE-560 019

TECHNICAL EDUCATION QUALITY IMPROVEMENT PROGRAMME, PHASE-II

TENTH MEETING |26.5.2014|SUB-COMMITTEE OF BOG|MINUTES

MEMBERS PRESENT:

1. Prof. D. Thukaram, Chairman
2. Sri. M. Krishnaswamy, Member
3. Dr. K. Mallikharjuna Babu, Principal & Convenor

NODAL OFFICERS/CO-ORDINATORS/PRINCIPAL INVESTIGATORS PRESENT:

1. Dr. G. N. Sekhar, TEQIP Co-ordinator I
2. Dr. L. Ravikumar, TEQIP Co-ordinator-II
3. Dr. K. R. Suresh, Nodal Officer – Financial Aspect
4. Dr. H. S. Guruprasad, Nodal Officer - Academic Activities
5. Dr. S. Gowrishankar, Nodal Officer - Academic Activities
6. Dr.M.S.Dharmaprakash, Nodal Officer-Procurement
7. Dr. K. Guruprasad , Nodal Officer - Equity Assurance Plan Implementation
8. Dr. C. Lakshminarayana, Nodal Officer - Equity Assurance Plan Implementation
9. Dr.M.Indiramma, Co-ordinator-IIIC
10. Dr.M.C.Sampath Kumar, Nodal Officer- CVEM
11. Dr. M. Ramachandra, Principal Investigator & Co-ordinator, CoE
12. Dr.S.Srinivas, Principal Investigator, CoE
13. Dr. Chandashree Das, Principal Investigator, CoE
14. Dr.M.Murugendrappa, Principal Investigator, CoE

MEMBER PRESENT ON INVITATION:

1. Dr.Martin Jebaraj, Director-R&D

The Principal and the convenor of the sub-committee of BOG welcomed the members for the meeting.



1. Ratification of Minutes of 9th Meeting of BOG sub-committee by the BOG

The convenor of the sub-committee informed the members that the Minutes of the 9th Meeting of BOG sub-committee are ratified and approved by the BOG in its 55th meeting held on 7.4.2014.

2. Appointment of staff to TEQIP Office

The committee approved the appointment of Smt. H. Roopa as office assistant to look after the accounts of TEQIP II & COE with a consolidated salary of Rs.10,000/- pm with applicable PF and ratified the OM [Annexure-1]. The committee also noted that she has reported to duty on 16.4.2014.

The committee approved the appointment of Smt. S. Rekha as office assistant for COE with a consolidated salary of Rs.10,000/- pm with applicable PF and ratified the OM [Annexure-2]. The committee also noted that she has reported to duty on 19.5.2014.

3. Approval to the faculty/staff attending programs.

- a) The committee took a note of the consolidated list of approvals of the sub-committee obtained by circulation for deputing faculty/students and for conducting workshop/symposium/training programs under TEQIP II/COE and approved the same [Annexure-3].
- b) The committee took a note of the details of faculty/staff members seeking approval for attending various programs under TEQIP II/COE and approved the same. [Annexure-4], While on the subject, the Chairman of the committee opined that the theme of conference/workshop/training program shall be relevant to the participating faculty's domain (area of specialization) to achieve better outcomes.
- c) The committee took a note of the representation of Sri. Abhishek M.Appaji seeking financial assistance to present his paper in the 2014 IEEE EMBS International Student Conference to be held at Malaysia on 5.6.2014 and informed to process the same as per norms under college account since the same is not permissible under TEQIP-II as per the earlier SPFU's Communication received.

4. NPIU Initiative for Academic collaboration between TEQIP institutions and IITs:

The committee noted the communication from the Professor-In-Charge, KIC, IIT-H regarding the NPIU's initiative for Knowledge Incubation under TEQIP [KIT] and the letter of intent for academic collaboration for quality enhancement sent by the TEQIP Co-ordinator- I vide Mail dated 29.4.2014[Annexure- 5] was approved and ratified.

5. 3rd edition of survey on Industry – Academia collaboration in Technical institutes:

The committee noted that the College is participating in the 3rd edition of mandatory survey on Industry – Academia collaboration in Technical institutes in collaboration with Confederation of Indian Industries (CII) by filling the necessary entries online through AICTE web portal and the last date for submitting entries is 30th June 2014.

The committee further noted that the TEQIP Co-ordinator-II, Dr.L.Ravikumar and Dr.Indiramma, Co-ordinator, IIC are entrusted with the responsibility of facilitating and completing the online entries.

6. Institutional Performance Assessment

The committee noted that as per the details available on NPIU website, the college has complied all the 10 performance indicators set for TEQIP II institutions and further the institutions are asked to meet another set of 10 additional indicators latest by 31st October 2014[Annexure-6].

7. Exhibition of projects of eighth semester BE students under TEQIP II activities

The committee noted that an exhibition of final year student projects was conducted in respective departments of the college on 21.5.2014 and the departments have invited one professional from the industry and one from academia as judges. The TEQIP Co-ordinator-I informed the committee that the three best projects from each department identified by the judges would be invited to compete at the institution level and three best projects among them would be felicitated. The committee appreciated and ratified the actions initiated and further expressed that the conduction of project exhibition should be a regular feature.



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The Principal informed the committee that henceforth, the conduction of student project exhibition for two days [second day as open house to the public] would be included in the 'Calendar of events' of the academic year.

8. Procurement:

Permission for change of items in the approved list and cost escalation from the initially estimated costs:

After detailed deliberations, the committee accorded approval to the change of items in the approved list and the cost escalation from the initial estimate as mentioned below:

Sl. No.	Item	Current Estimated Cost (Rs.)	Approved Mode of Procurement	Permission sought for	Justification
1	PMSM Drive (Department of Electrical & Electronics Department)	5,10,000/-	Shopping	Inclusion of the item in place of the cancelled package [Package Ref: BM/EE/G/13 P-Spice Software & BM/EE/G/14 and AC & DC Programmable Electronic load with the total estimated cost of Rs.5,05,000/-]	The current priority of PMSM Drive over the cancelled packages and departmental budgetary status
2	Package Ref: BM/EE/G/8 - Oscilloscopes, Probes and Application module (Department of Electrical & Electronics Department)	8,15,575/-	Shopping	Cost escalation of 17% on the estimated cost of Rs.6,98,000/- ascertained	Due to technological improvements and general price rise since the initial proposal

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Sl. No.	Item	Current Estimated Cost (Rs.)	Approved Mode of Procurement	Permission sought for	Justification
3	License of Up-gradation of LIBSYS7 Software (Department of Library & Information Centre)	6,61,000/-	Direct Contracting	Inclusion of the item in place of the cancelled package [Package Ref:BM/LIB/G/6 Library Software, BM/LIB/G/7 Library Resources and BM/LIB/G/3 & 4 for E-Journals with the total estimated cost of Rs.5,91,000/-]	The release of enhanced versions of Software LIBSYS Software and general price rise from since the initial proposal
4	Solid Works Software (Department of Mechanical Engineering)	9,91,000/-	Direct Contracting	Inclusion of the item in place of the cancelled package [Package Ref: BM/ME/G 18 Scanning electron microscope with the estimated cost of Rs.15,00,000/-]	Need for state-of-art Design & Analysis software for PG Students and Proposed procurement of SEM under Centre of Excellence (COE) has facilitated the change in proposal
5	TEQIP-II/2013/KA/KA2G0 4/197 Solar Irrigation System (Department of Civil Engineering)	4,96,500/-	Shopping	Cost escalation of 24% on the estimated cost of Rs.4,00,000/-	Due to technological improvements and general price rise since submission of the initial proposal

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Permission to cancel the NCB process and reinitiate retendering process:

The committee accorded approval for cancelling the previously called NCBs for the following packages and to reinitiate a fresh NCB process for the same with necessary modification in the specification [Annexure 7].

Sl. No.	Item	Estimated cost (Rs.)
1	VIBRATION LAB EQUIPMENT [Ref: BM/ME/G/1 Department of Mechanical Engineering]	Rs.32,41,000/-
2	Workstations [Ref:BM/CS/G/1- Workstation] Department of Computer Science]	Rs.24,00,000/-

Status of procurement:

The committee took a note of the status of procurement as mentioned below.

Description	Value (Rs)
Total Allotment under Procurement	Rs.560 Lakhs
Procurement completed	Rs.224 Lakhs
Purchase orders released & waiting for delivery	Rs.128 Lakhs
Initiated and In process (Pre Order level)	Rs.79 Lakhs
Initiated and In process (Quotation Receiving Level)	Rs.21 Lakhs
Packages to be initiated	Rs.108 Lakhs

9. Status of Expenditure incurred under TEQIP II as on 30.4.2014

The committee took a note of the expenditure incurred noted below, under TEQIP II as on 30.4.2014 out of the grants of Rs.700 Lakhs received so far. The committee noted the gap between the allocation and expenditure made under the heads of 'R&D, Reforms and student Support' and informed the Nodal officers concerned to initiate more

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concrete proposals under these heads.

Head of Expenditure	Allocation (Rs. In lakhs)	Amount spent (Rs. In lakhs)
Procurement	562.5	223.78
Assistantships	250	105.48
R&D	62.5	5.27
Faculty & Staff Development	125	78.18
III Cells	62.5	28
Capacity Development	25	17.62
Reforms	12.5	2
Student Support	25	3.42
Incremental Operating Cost	125	28.08
TOTAL	1250	491.83

10. CENTER OF EXCELLENCE IN ADVANCED MATERIALS RESEARCH

a) Status of Expenditure incurred under COE as on 30.4.2014

The committee noted that first instalment grants of Rs.333.33 lakhs has been received by the college on 7.5.2014 and the expenditure incurred under COE as on 30.4.2014 is as below:

Head of Expenditure	Allocation (Rs. In lakhs)	Amount spent (Rs. In lakhs)
Procurement	275	0
Assistantships	50	0
R&D	50	3.94
Faculty & Staff Development	50	0
III Cells	25	0
Incremental Operating Cost	50	2.31
TOTAL	500	6.25



b) Review meeting at NPIU on 30.5.2014:

The committee noted that Dr.Rita Goyal, Sr. Consultant[Academics] has convened a meeting to review the activities of COE under the Chairpersonship of Additional secretary (T), MHRD and in the august presence of experts from IITs on 30th May 2014 at New Delhi.

The committee accorded approval for deputing Prof.Martin Jebaraj, Director-R&D, Dr.M.Ramachandra, Co-ordinator-COE and Dr.S.Srinivas, Principal Investigator to the said review meeting.

c) Procurement for the Centre of Excellence in Advanced Materials Research

i) Award of contracts for successful bidders of the NCBs :

The committee accorded approval for placing the purchase orders for procuring the following equipment after noting the recommendations of the Procurement Committee for COE that (a) the NCB processes to procure the following four packages are in line with TEQIP II norms (b) the technical evaluation has been carried as per the standard norms (c) Technical Experts advices are affirmative about the technical evaluation carried out and short listing of the successful bidders and (d) successful bids are well within the budget allocated[Annexure 8] .

Sl. No	Item	Contract Value (Rs.)
1	Abrasive Water Jet Cutting Machine	Rs.89,51,570/-
2	Dual Sputtering Equipment	Rs.15,61,000/-
3	FTIR Spectroscopy Equipment	Rs.11,25,000/-
4	Precision Impedance Analyser	Rs.12,15,000/-

ii)Permission to change the mode of procurement:

The committee discussed in detail the minutes of the Procurement Committee for COE held on 19.5.2014[Annexure-9] and noted the observations that (a) the NCB process to procure the following two packages did not result in commercially viable bids (b) the equipment are technologically complex (c) only few manufacturers are available (d) all the manufacturers are out of India and (e) the possibility of the customs duty exemption on imported goods for the institution.

The committee accorded approval to re-initiate the process of procurement for the following equipment through LIB (Limited International Bidding)

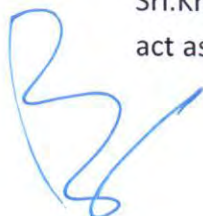
Sl.No	Item	Estimated Cost (Rs.)
1	Scanning Electron Microscope	1,00,00,000/-
2	XRD Equipment	80,00,000/-

11. Any other items

- a) The TEQIP Co-ordinator-I submitted the copies of the observations and remarks of Dr.Martin Jebaraj, Director-R&D, while evaluating the sole bid received towards the NCB called for procurement of 3D Printer based on the proposal submitted by Dr.Rathan Raj .

As per the directions of the committee, Dr.K.J.Rathanraj was invited to the meeting and heard his presentation on the justification for seeking such a high end 3D printer. The committee also perused his earlier submission on the remarks of Dr.Martin Jebaraj[Annexure-10]

After detailed deliberations, the BOG sub-committee constituted an expert committee consisting of Dr.U.Chandrashekar, Scientist-G[Former], DRDO & Sri.Krishna Swamy, Member, Sub-committee of BOG and authorised the Principal to act as per the directions of the said committee.




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- b) The committee considered a few requests of the faculty members seeking permission to procure consumables for their R&D work both under TEQIP 1.2 and 1.2.1 and permitted the TEQIP Co-ordinator-I for payment towards the expenses incurred in this regard[Annexure-11].
- c) The TEQIP Co-ordinator- I informed the committee that data regarding the names, mobile No., email ID of all the staff members and students have been provided to M/s Infova Consultancy Services Ltd identified by NPIU for conducting web-based student & faculty satisfaction survey.
- d) The BOG sub-committee noted the proposal of the Director-R&D and accorded permission for initiating the activities under the heads, 'Collaboration with industries for applicable research and product development' and 'national/international collaboration for research and development activities with academic institutions and R&D organisations'.


Dr. K. Mallikharjuna Babu
Principal & Convenor


Prof. D. Thukaram
CHAIRMAN

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BMS COLLEGE OF ENGINEERING, BANGALORE-19
(Autonomous College under VTU)

No: BMS TEQIP 2013-14

Date: 15.04.2014

OFFICIAL MEMORANDUM

Sub: Appointment of Smt.H.Roopa as Office Asst under TEQIP-II .
Ref : Orders of the Chairman, BOG dated 15.04.2014.


In accordance with the orders dated 15.04.2014 referred above, Smt.H.Roopa residing at Vasanthapura, B'lore is appointed as Office Assistant under TEQIP - II , on a consolidated salary of Rs.10,000/-PM (Rupees Ten Thousand only) with applicable PF subject to the following conditions.

1. In case the offer is accepted she is required to report to the undersigned on or before 21.4.2014 and submit proformas A & B enclosed, failing which the appointment order will be cancelled without any further notice.
2. The order will take effect from the actual date of reporting to duty.
3. The appointment is on contract basis till the end of TEQIP-II Project period, with one month's notice period on either side. Her salary shall be met out of TEQIP-II funds.
4. In addition to assigned duties, she has to attend to any other work assigned to her by TEQIP Coordinator/Principal/Management without prejudice to her normal assigned duties.
5. The candidate is eligible for one day casual leave on completion of every month.
6. The appointment may however be terminated with a month's notice any time, without assigning any reason, depending on the exigencies of service.
7. The candidate appointed shall abide by the rules and norms of the college.

Looking forward to your positive contribution towards professional as well as institutional growth.

Distribution:

- ✓ 1. Smt.H.Roopa
2. Vice Principal
3. Teqip Office
4. EST Section
5. Office Copy.


PRINCIPAL
B.M.S. College of Engineering
Bangalore - 19.



BMS COLLEGE OF ENGINEERING, BANGALORE-19
(Autonomous College under VTU)

No: BMS/TEQIP/COE/ 2014-15

Date: 15.05.2014

OFFICIAL MEMORANDUM

Sub: Appointment of Smt.S.Rekha as Office Asst under TEQIP-II-COE.
Ref : Orders of the Chairman, BOG dated 14.05.2014.

In accordance with the orders dated 14.05.2014 referred above, Smt.S.Rekha residing at No.141/3, II Cross, 24th Main, J.P.Nagar, II Phase, B'lore is appointed as Office Assistant under TEQIP - II-COE, on a consolidated salary of Rs.10,000/-PM (Rupees Ten Thousand only) with applicable PF subject to the following conditions.

1. In case the offer is accepted she is required to report to the undersigned on or before 22.5.2014 and submit proformas A & B enclosed, failing which the appointment order will be cancelled without any further notice.
2. The order will take effect from the actual date of reporting to duty.
3. The appointment is on contract basis till the end of TEQIP-II(COE) Project period, with one month's notice period on either side. Her salary shall be met out of TEQIP-II-COE funds.
4. In addition to assigned duties, she has to attend to any other work assigned to her by TEQIP Coordinator/Principal/Management without prejudice to her normal assigned duties.
5. The candidate is eligible for one day casual leave on completion of every month.
6. The appointment may however be terminated with a month's notice any time, without assigning any reason, depending on the exigencies of service.
7. The candidate appointed shall abide by the rules and norms of the college.

Looking forward to your positive contribution towards professional as well as institutional growth.


PRINCIPAL

Distribution:

1. Smt.S.Rekha
2. Vice Principal
3. Teqip Office
4. EST Section
5. Office Copy.

THE DETAILS OF FACULTY MEMBERS WHO HAVE ATTENDED/PROPOSED TO ATTEND THE PROGRAMS OUTSIDE THE COLLEGE UNDER TEQIP- II/ COE WHICH WERE APPROVED BY THE SUB-COMMITTEE BY CIRCULATION

Sl. No.	Name of the Faculty, Designation & Dept.	Details of Program	Place	Workshop/Conf. Dates
01.	Dr. Maya Naik Professor Civil Engg	" Low Carbon Materials & Building Systems"	IISC, Bangalore	March17-22, 2014 (Postponed dates are yet to be announced)
02.	Dr.C.R. Ramakrishnaiah Assoc Professor Civil Engg			
03.	Dr. G. Varaprasad Assoc Professor Computer Science & Engg	" IEEE International Conference on Communication and Signal Processing "	Melmavathur	April 03-05, 2014
04.	Dr. P. Meena Assoc Professor Electrical & Electronics Engg	Workshop on" Short Term Course on Control of Magnet AC Machines"	IIT, Madras	April03-05, 2014
05.	Dr K.Narasimha Rao Professor & HOD Instrumentation Engg	SARC International conference	New Delhi	April 08-12, 2014
06.	Sri Santhosh R Desai Asst Professor Instrumentation Engg			
07.	Sri V.S. Muddukapanavar Asst Professor Mechanical Engg	Workshop on " Advances in Composite & Nano Materials"	BVBCE, Hubli	April 10-12, 2014
08.	Dr. G.N. Rameshaiah Assoc Professor Chemical Engg	" International Conference on Textile Technology"	NIT, Jalandhar	April 11-12, 2014
09.	Dr. K.R. Suresh Professor Civil Engg	"Further Education Leadership Development Programme"	NITTR, Chennai & Chandigarh	April 28-30, June 02-04, December 01-02,2014 & March 05-06, 2015
10.	Sri.Harsha R Gudi Asst Professor Mechanical Engg	"International Mechanical Engineering Congress"	NIT, Tiruchirappalli	June 13-15, 2014
11.	Smt Nirupama Mohan Asst Professor Mechanical Engg			
12.	Smt Anusha Lalitha.T Asst Professor, Tele Communication Engg	"IETE Conference on RF & Wireless & Microwave"	H.K.B.KCollege of Engg Bangalore	May 09-10, 2014
13.	Sri Manjunatha.P.S. Asst Professor Telecommunication Engg			
14.	Sri E.Suresh Asst Professor Mechanical Engineering	"International Conference on Advances in Engineering & Technology	Rorkee Institute of Technology	May 24-25, 2014
15.	Sri R.Shivakumar Asst Professor Chemical Engg	Workshop on " Nano fabrication technologies"	IIT, Bombay	May 24-28, 2014

THE DETAILS OF STUDENTS WHO HAVE ATTENDED THE TRAINING/WORKSHOP THAT WERE APPROVED BY THE SUB-COMMITTEE BY CIRCULATION

Sl. No.	Name of the Student, Designation & Dept.	Details of Program	Place	Workshop/Conf. Dates
01.	Sri Hariharan.R Electrical & Electronics Engineering	"International Workshop on Emerging Trends in Energy Systems management"	Chidamabaram	March 15, 2014
02.	Sri Ajay.R. Electrical & Electronics Engineering			
03.	Smt Anusha. S.B. Civil Engg	"National Conference on Recent Research and Development in Civil Engineering"	Dr AIT, Bangalore	March 27-28, 2014
04.	Smt Deepa M Naik Civil Engg			
05.	Sri G. Niranjan Reddy Civil Engg			
06.	Smt Jhansi Rama Priya. G. Civil Engg			
07.	Sri Niranjan .N. Civil Engg			
08.	Sri Pavan .J. Civil Engg			
09.	Sri Pramod B.V Civil Engg			
10.	Sri Praveen Gongachi Civil Engg			
11.	Sri Rajesh. A. Civil Engg			
12.	Sri Salman Pasha Civil Engg			
13.	Sri Sharath.R. Civil Engg			
14.	Sri Shrinath Hogade Civil Engg			
15.	Smt Sowmya H.V. Civil Engg			
16.	Sri Sunil Kumara B.M Civil Engg			
17.	Sri Vikram C.G. Civil Engg			
18.	Sri Vilar Kumar S Lorinath Civil Engg			
19.	Sri Vikas P. Attigeri Civil Engg			
20.	Smt Ashwini.v. Civil Engg	"Transportation Young Researchers"	NIT, Warangal	March 27-29, 2014
21.	Smt Shubhashree Harista Medical Electronics	International Conference on "Communication and Signal Processing"	Melamavathur	April03-05, 2014
22.	Sri B.J. Sreeneidhi Medical Electronics			
23.	Smt Vidhya. Y.J Biotechnology	Conference on "Symbiot 14, The National Technical Symposium of I.E. Biotechnology"	MIT, Mani pal University	April 11-12, 2014

24.	Sri Shivaraj Ashok Pattar Information Science & Engg	Workshop on "National Network Security "	IIT, Delhi	April 27, 2014
25.	Smt Sowmyashree.T Civil Engg	"Innovations & Developments in civil Engineering"	NITK, Surathkal	May 19-20, 2014
26.	Smt Rohinikrishna Civil Engg			
27.	Smt Jitha.P.T Civil Engg			

DETAILS OF INHOUSE PROGRAMS CONDUCTED/TO BE CONDUCTED WHICH WERE APPROVED BY THE SUB-COMMITTEE BY CIRCULATION

Sl. No.	Name of the Department	Title of the Program	Program Dates	Approx. Expenditure (Rs.)
01.	Civil Engineering	One day workshop on "Drought Assessment using Scientific and advance Tools"	May 09, 2014	47,000/-
02.	Chemical Engineering	"Finishing School on Safe Industrial Practices"	May 05-07, 2014	45,625/-
03.	Electrical & Electronics Engineering	Two days' Workshop on "Classical Control Theory & Design Using Matlab Simulink"	May 22-25, 2014	69,800/-
04.	Chemical Engineering	Three Days Workshop on "Hands on workshop on Modelling and UNISIM Design Simulation Software"	June 30-July 02, 2014	92,000/-
05.	Civil Engineering	Two days' Workshop on "Application of Modelling Techniques in Environmental Engineering"	July 04-05, 2014	1,13,500/-
06.	TEQIP	One day Training Program on "Communication Skills"	May 10, 2014	10,000/-
07.	Electronics & Communication Engineering	One day Symposium on "Embedded Systems"	May 21, 2014	1,55,000/-
08.	TEQIP	"Training Programme on Communication skills for Engineering faculty"	May 24, 2014	10,000/-

**THE DETAILS OF FACULTY MEMBERS WHO HAVE PROPOSED TO ATTEND
PROGRAMS OUTSIDE THE COLLEGE UNDER TEQIP- II/ COE**

Sl. No.	Name of the Faculty, Designation & Dept.	Details of Program	Place	Workshop/Conf. Dates
01.	Smt Tripti Pachori Asst Professor Mechanical Engg	"Formulation of Research & Development Initiatives for Women Scientist and Technologies"	Engineering staff college of India, Hyderabad	May 29-June 01, 2014
02.	Sri Harsha R Gudi Asst Professor Mechanical Engg	"Single point diamond turning"	CMTI, Bangalore	May 30 th 2014
03.	Smt Nirupama Mohan Asst Professor Mechanical Engg			
04.	Dr Rathan Raj.K.J Professor & HOD Industrial Engg	" Stress & Time Management"	Mussoorie	June 02-06, 2014
05.	Sri RamRohit.V Asst Professor Mechanical Engg	"International Mechanical Engineering Congress"	NIT, Tiruchinapalli	June 13-15, 2014
06.	Sri Narendra Babu Asst Professor Mechanical Engg			
07.	Sri RamRohit.V Asst Professor Mechanical Engg	"Research Methodology in fluid mechanics and fluid power"	NITK , Suratkal	July 10-12, 2014
08.	Sri N. Jayanth Assoc Professor Mechanical Engg			
09.	Dr .V. Uma Devi Assoc Professor Computer Science & Engg	"International Conference on ERCICA-2014"	NMIT Bangalore	August 01-02, 2014
10.	Smt K.P .Lakshmi Assoc Professor, Electronics & Communication Engg			

STAFF MEMBER WHO HAVE PROPOSED TO ATTEND PROGRAMS OUTSIDE THE COLLEGE

Sl. No	Name of the Staff & Dept	Workshop / Conference Details		
		Name	Place	Workshop/Conf. Dates
01.	Sri .P.Bhaktavatsala Instructor, Datacenter	"Effective System Administration in Engineering"	ESCI, Hyderabad	June 16-18, 2014

From: **Teqip IIT Hyderabad** <teqip@iith.ac.in>
Date: Mon, Apr 21, 2014 at 4:03 PM
Subject: TEQIP-II - Letter of Intent for Academic Collaboration towards Quality Enhancement
To:

To
All TEQIP-II Institutions in AP & Karnataka

Dear Professors,

As you are aware, under the MHRD's Knowledge Incubation under TEQIP (KIT) Programme, all Project institutions under TEQIP-II have been mapped with different IITs for holistic institutional quality enhancement through activities such as faculty development, virtual training sessions, student and faculty research mobility, among others. The MHRD now wishes to formalize this initiative through a **Letter of Intent** between each of the IITs involved in KIT and the Project institutions in the respective Quality Circles (QCs). Enclosed for your perusal is a **Draft Letter of Intent** (LoI) proposed to sign by IIT Hyderabad and its QC institutions that outlines the areas of quality enhancement to be covered and activities the Programme should entail, namely:

- i. Faculty Development
- ii. Curriculum enhancement
- iii. Student Development through internships, semester exchange programmes and joint research
- iv. International student and faculty research mobility with MITACS Canada
- v. Development of Industry-Academia Collaboration strategy

In addition to the above, the LoI may also include specific details regarding the term of the Programme, the stakeholders involved, roles and responsibilities and the financial model, among others. Please note that the enclosed draft is only indicative and is open to customization as per the specific requirements of your institute.

As directed by NPIU/MHRD/GOI, Signing of Letter of Intent is a mandatory and we therefore request you to send us your consensus on the specific terms and conditions of the agreement you proposed, a formal MoU will be signed by IIT Hyderabad & Your Institution. The last date for receipt of your consent is **April 30, 2014**.

Please note that we are sending this email as per the contacts available with us, if you have received inadvertently, we request you to forward to your Principal or TEQIP Coordinator for further course of action by the Institute.

With regards,

Yours sincerely,

Professor-In-Charge
TEQIP KIC
IIT Hyderabad

LETTER OF INTENT (LoI) FOR ACADEMIC COLLABORATION

Between
TEQIP Knowledge Incubation Centre, INDIAN INSTITUTE OF TECHNOLOGY HYDERABAD
And
Technical Institutions in the Quality Circle of IIT Hyderabad

Whereas the above named institutions recognize that academic collaboration would be of mutual benefit and would provide strength in research and education and their mutual interest in engaging themselves in academic cooperation with the TKIC, Indian Institute of Technology Hyderabad and the Institutions in the Quality Circle of IIT Hyderabad (as identified by the NPIU or MHRD), it is agreed that:

Faculty

- 1.01 Each institution will promote the exchange of faculty for teaching and/or for collaborative research program in the areas of Science and Engineering.
- 1.02 The institutions agree to allow their faculty to participate in quality enhancement through participation in quality improvement activities organized by TKIC, post-doctoral and other short-term and long-term research engagements at IITs, which are promoted by the TKIC.
- 1.03 The institutions agree to encourage the non-doctoral degree holder faculty to pursue a PhD program at a participating IIT, as sponsored candidates.
- 1.04 Leave (short term, long term or study leave) to the faculty participating in any of these programs will be provided by these institutions. The institutions will allow upto 2 of the faculty strength in each department to be on leave for these activities. The TEQIP cell of the host institute will provide for travel. TKIC will take care of study and local hospitalities.
- 1.05 The interested faculty will make an application the TEQIP Cell of the host institute with a copy to the coordinator or faculty-in-charge of TKIC. Applications could be made against announcements made by TKIC. Denial of permission to the recommended applicant has to be explained by the host institute.

Students

- 2.01 The institutions will promote internship or/and semester exchange of qualified undergraduate and/or graduate students to the academic programs of IIT Hyderabad.
 - a. **Internship:** Students will participate in summer internship activities at IIT Hyderabad, with support from TKIC, IIT Hyderabad. Application for the internship, against an announcement made by TKIC, should be submitted to the faculty-in-charge of TKIC, IIT Hyderabad, through the TEQIP Coordinator of the respective institution.
 - b. **Credit transfer:** TKIC will facilitate offering of e-courses (e.g. MOOCs based interactive course-ware), and limited enrollment in specific courses at IIT Hyderabad, for good students from the Quality Circle institutions. Credits earned through these courses will be recognized by the institutions. Appropriate changes in the local academic rules and regulations will be made to enable earning of credits from outside.
 - c. **Joint research:** The institutions will encourage their faculty and graduate students to participate in joint research with IIT Hyderabad, or within the Quality Circle, as initiated by the TKIC. Possibility of joint supervision of doctoral thesis will also be encouraged. Towards this, the coordinators of the TEQIP cells will interact closely with the professor-in-charge of TKIC.
- 2.02 Students will be provided leave and support for travel from the parent institution.

Curriculum

- 3.01 The institutions agree to share with TKIC, the details of implementation of their academic curriculum. This is required to evolve a uniform curriculum for all the institutions in the Quality Circle.
- 3.02 The institutions agree to participate in periodic reviews of their academic curriculum, by a team of evaluators chosen by the TKIC, in consultation with NPIU, towards effective implementation of the uniform curriculum.
- 3.03 The TKIC, in collaboration with the institutions in the Quality Circle, will evolve changes to the curriculum at the undergraduate and graduate levels. The institutions agree to incorporate these changes in their curriculum, following sanctioned local processes.
- 3.04 The institutions agree to allow their faculty to participate in the process of new content development, resource generation and other knowledge repository creation activities initiated by TKIC. For this, faculty member from these institutions will be deputed for the period of the activity. The institutions will grant timely leave for such activities and the cell coordinators of the host institutions will interact closely with TKIC.

Term

- 4.01 This will become effective on the final date of signing and will have a duration of five years, or the period of funding under TEQIP grant – whichever is the shortest.
- 4.02 This Letter of Intent may be terminated by TKIC, MHRD or individual Quality Circle institutions by providing 180 days written notice to coordinator / in-charge of NPIU, TKIC and the respective institution.

Designation of Coordinators

- 5.01 Each party designates the following officials to serve as Coordinators under this Letter of Intent. Individuals designated as Coordinators may be revised by either party by providing written notice to the current Coordinators.

General

- 6.01 The TKIC, Indian Institute of Technology Hyderabad and the Quality Circle institutions may work to develop a viable and sustainable model for the financing of this collaboration.
- 6.02 All activities conducted under this Letter of Intent will be in accordance with all applicable rules, as outlined under the TEQIP grant clauses.

The parties have executed this Letter of Intent on the date, month and year last specified below.

National Project Implementation Unit

**TEQIP Knowledge Incubation Cell,
Indian Institute of Technology Hyderabad**

Dr. A. U. Digraskar

Professor-in-Charge, TKIC

Date: _____

Date: _____

**Director/TEQIP Coordinator of the
Quality Circle Institution**

**State Project Advisor/Project Coordinator
State of Andhra Pradesh**

Date: _____

Date: _____

Dear Sir,

In response to your mail, we express our consent for signing the letter of intent more or less in its current form.

We may seek your opinion for customization of the following:

i) Clause 1.04 with reference to number of faculty to be deputed for the activities

ii) Clause 2.01b, the college intends to use the e-courses and implement blended learning for the students in the curriculum to be implemented during the academic year 2014-15.

With best wishes...

Dr. G. N. SEKHAR, PhD

Vice Principal & TEQIP Co-ordinator-I
BMS College of Engineering,
Bangalore - 560 019.

Phone/Fax: +91 080 26603963

Mobile: +91 98451 84215

Mail dated 16.5.2014

Dear Sir/Madam,

The **3rd Review Mission** was held on 28th April – 2nd May 2014 for assessing the institutions' performance. The institutions were required to meet a set of 10 performance indicators by 31st March 2014 to benchmark themselves. However, only 94 institutions were able to comply with the requirement.

2. The updated details of Institutional Performance Assessment are available at the NPIU website (www.npiu.nic.in).

3. As per the decisions of the 3rd Review Mission, all institutions are required to essentially meet all 10 indicators as early as possible latest by 30th June 2014. Please note that further release of funds will only be made after all 10 indicators are achieved.

4. A further set of following additional indicators is required to be met latest **by 31st October 2014**:

(i) *Minutes of Board of Governors (BoG) meetings taking place in the last four months published on the Institution's website. The BoG meetings are required to be held after every quarter with minutes published on the Institution's website.*

(ii) *Statutory Audit completed (2013-14)*

(iii) *Completion of a 2nd Performance Audit along with Data Audit*

(iv) *Completion of an initial Governance Development Plan*

(v) *Commitment of 100% of total funds received by the institution*

(vi) *Expenditure of atleast 50% of the total funds received*

(vii) *Procurement plan to cover 100% of the procurement expenditures*

(viii) *Completion of all data input into the MIS for 2013-14 (Data entry for the previous 3 years i.e. 2010-11, 2011-12 & 2012-13 has to be completed by 30th June 2014).*

(ix) *Mandatory Participation in CII-AICTE survey*

(x) *Participation in TEQIP Faculty, Staff and Students Satisfaction Survey*

Implementation of the above will be closely monitored by NPIU.

5. It may kindly be noted that the **4th JRM** is tentatively scheduled in December 2014. **SPFU** is requested to undertake follow-up actions for the institutions so that all the above indicators are achieved.

Yours faithfully,

Dr Rita Goyal

Senior Consultant (Academic)

National Project Implementation Unit (NPIU)
EDCIL House, 4th Floor, Plot No. 18-A, Sector 16-A

NOIDA-201 301, Uttar Pradesh

Phone: 0120-2513928,

EPABX No. 0120-2513921, 2513946

Fax Nos. 0120-2513926, 2512485

Email : npiuwb@hotmail.com



BMS COLLEGE OF ENGINEERING, BANGALORE
 Technical Education Quality Improvement Programme-II (TEQIP-II)

Minutes of Bid Opening Meeting of Package TEQIP II/KA/KA2G04/140 (Vibration Lab Equipment) held on 10 April 2014 at 10.30 AM at TEQIP Seminar Hall, BMSCE

Dr M S Dharmaprakash, Professor- Department of Chemistry & Nodal Officer – Procurement welcomed the DPC Members of Department of Mechanical Engineering and Bidders. The Committee considered the sole Bid submitted and noted the following:

M/s. Aimil Limited., the sole bidder has not complied with technical specification as well as the commercial terms of the bid document and is considered to be technically and commercially non-responsive. Hence kind permission is sought from the Central Procurement Committee to cancel the bid process and initiate the retendering process.

Sl.	Name of the Member	Designation	Signature
1	Dr.M.S.Dharmaprakash Nodal Officer -Procurement	Chairman	
2	Dr K Guruprasad Member	HOD-Mechanical Engineering	
3	Prof. H K Rangavittal Member	Asso. Professor – Mechanical Engineering	
4	Prof. V S Mudakappanavar Member	Asso. Professor – Mechanical Engineering	
5	Prof. G Saravanakumar Member	Asso. Professor – Mechanical Engineering	
6	Dr. B S Suresh Member	Professor – Mechanical Engineering	

Submitted to the Central Procurement Committee]



BMS COLLEGE OF ENGINEERING, BANGALORE
Technical Education Quality Improvement Programme-II (TEQIP-II)

Center of Excellence

Minutes of CPC Meeting for procurement of Package TEQIP-II/KA/KA2G04/189
Precision Impedance Analyser held on 24 May 2014
at 12:30 PM in TEQIP Seminar Hall, BMSCE

Dr. K. Mallikharjuna Babu, Principal & Chairman of the Committee welcomed the CPC Members of Centre of Excellence. The Committee reviewed the recommendations of the DPC held on 15-04-2014 and recommendations of the technical evaluation by the experts held on 20-05-2014. The following are the observations made by the committee:

SI No	Date	Particulars	Recommendation/Approval
1	18-02-2014	Approval for Procurement	Approved by BOG
2	10-03-2014	PMSS upload	Uploaded digitally generated bid document to SPFU/NPIU
3	10-03-2014	Invitation of Bids	NA
4	26-03-2014	Pre-Bid Meeting	Provided clarification
5	15-04-2014	Bid opening & Technical Evaluation	Bid opening meeting held and bids opened Nos. of bids received: 03 Bidders: 1. M/s. Sartech Intl 2. M/s. Sourcetronics India Pvt Ltd 3. M/s. Wayne Kerr Electronics Pvt Ltd Minutes: Bid Opening & Bid Evaluation Forms filled-in, Prices read out to bidders who were present and evaluation process initiated
6	20-05-2014	Meeting of Technical Expert committee	Review of technical evaluation carried out and recommendation provided.

Observations:

1. The recommendations by the technical committee comprising of an external technical expert Dr. Angadi Basavaraj, Professor, Department of Physics, Bangalore University, Bangalore, Dr. M V Murugendrappa, Proposer, and DPC members, is that the bid submitted by M/s. Sartech Intl and M/s. Sourcetronics India Pvt Ltd are technically non-responsive and the bid submitted by M/s. Wayne Kerr Electronics Pvt Ltd is technically responsive.

Recommendations:



BMS COLLEGE OF ENGINEERING, BANGALORE
Technical Education Quality Improvement Programme-II (TEQIP-II)

Considering the above fact that M/s. Wayne Kerr Electronics Pvt Ltd is the technically and commercially responsive bidder, the Central Procurement Committee recommends to place order with the responsive bidder, M/s. Wayne Kerr Electronics Pvt. Ltd, for Rs.12,15,100/- (Rupees Twelve lakhs fifteen thousand and one hundred only) exclusive of sales taxes for 1 Nos. of (Precision Impedance Analyser) as per the terms and conditions of the bid document.

The meeting concluded with thanks to the chair.

Sl.	Name of the Member & Role	Designation	Signature
1	Dr. K. Mallikharjuna Babu, Chairman	Principal, BMSCE	
2	Dr Martin Jebaraj, Member	Director – R & D, BMSCE	
3	Dr L Ravikumar, Member	TEQIP Coordinator II	
4	Dr.M.S.Dharmaprakash, Member	TEQIP Nodal Officer - Procurement	
5	Dr K R Suresh, Member	TEQIP Nodal Officer - Finance	
6	Dr. Murugendrappa M V Invitee (Proposer)	Principal Investigator – COE	
7	Dr. M Ramachandra, Member Convenor	Coordinator – COE	



BMS COLLEGE OF ENGINEERING, BANGALORE
Technical Education Quality Improvement Programme-II (TEQIP-II)

Center of Excellence

Minutes of CPC Meeting for procurement of Package TEQIP-II/KA/KA2G04/174
FTIR Spectroscope held on 24 May 2014 at 12:00 PM in TEQIP Seminar Hall, BMSCE

Dr. K. Mallikharjuna Babu, Principal & Chairman of the Committee welcomed the CPC Members of Centre of Excellence. The Committee reviewed the recommendations of the DPC held on 15-04-2014 and recommendations of the technical evaluation by the experts held on 20-05-2014. The following are the observations made by the committee:

SI No	Date	Particulars	Recommendation/Approval
1	18-02-2014	Approval for Procurement	Approved by BOG
2	10-03-2014	PMSS upload	Uploaded digitally generated bid document to SPFU/NPIU
3	10-03-2014	Invitation of Bids	NA
4	26-03-2014	Pre-Bid Meeting	Provided clarification
5	15-04-2014	Bid opening & Technical Evaluation	Bid opening meeting held and bids opened Nos. of bids received: 02 Bidders: 1. M/s. Analytical Technologies Limited; 2. M/s. PerkinElmer India Pvt Ltd Minutes: Bid Opening & Bid Evaluation Forms filled-in, Prices read out to bidders who were present and evaluation process initiated
6	20-05-2014	Meeting of Technical Expert committee	Review of technical evaluation carried out and recommendation provided.

Observations:

1. The recommendations by the technical committee comprising of an external technical expert Dr. Angadi Basavaraj, Professor, Department of Physics, Bangalore University, Bangalore, Dr. M V Murugendrappa, Proposer, and DPC members, is that the bid submitted by M/s. Analytical Technologies Limited is technically non-responsive and the bid submitted by M/s. PerkinElmer India Pvt Ltd is technically responsive.



BMS COLLEGE OF ENGINEERING, BANGALORE
Technical Education Quality Improvement Programme-II (TEQIP-II)

Recommendations:

Considering the above fact that M/s. PerkinElmer India Pvt Ltd is the technically and commercially responsive bidder, the Central Procurement Committee recommends to place order with M/s. PerkinElmer India Pvt Ltd for Rs.11,25,000/- (Rupees Eleven lakhs twenty five thousand only) exclusive of 14.5% VAT on basic equipment for FTIR Spectroscope – 1 Nos. as per the terms and conditions of the bid document.

The meeting concluded with thanks to the chair.

Sl.	Name of the Member & Role	Designation	Signature
1	Dr. K. Mallikharjuna Babu, Chairman	Principal, BMSCE	
2	Dr Martin Jebaraj, Member	Director – R & D, BMSCE	
3	Dr L Ravikumar, Member	TEQIP Coordinator II	
4	Dr.M.S.Dharmaprakash, Member	TEQIP Nodal Officer -Procurement	
5	Dr K R Suresh, Member	TEQIP Nodal Officer - Finance	
6	Dr. Murugendrappa M V Invitee (Proposer)	Principal Investigator – COE	
7	Dr. M Ramachandra, Member Convenor	Coordinator – COE	



BMS COLLEGE OF ENGINEERING, BANGALORE
Technical Education Quality Improvement Programme-II (TEQIP-II)

Center of Excellence

Minutes of CPC Meeting for procurement of Package TEQIP-II/KA/KA2G04/194
[Abrasive H₂O Jet Cutting Machine] held on 24 May 2014
at 11:00 AM in TEQIP Seminar Hall, BMSCE

Dr. K. Mallikharjuna Babu, Principal & Chairman of the Committee welcomed the CPC Members of Centre of Excellence. The Committee reviewed the recommendations of the DPC held on 12-04-2014 and recommendations of the technical evaluation by the experts held on 22-05-2014. The following are the observations made by the committee:

SI No	Date	Particulars	Recommendation/Approval
1	18-02-2014	Approval for Procurement	Approved by BOG
2	10-03-2014	PMSS upload	Uploaded digitally generated bid document to SPFU/NPIU
3	10-03-2014	Invitation of Bids	NA
4	26-03-2014	Pre-Bid Meeting	Provided clarification
5	12-04-2014	Bid opening & Technical Evaluation	Bid opening meeting held and bids opened Nos. of bids received: 02 Bidders: 1. Ainnovative International Ltd, Ahmedabad; 2. MD Corporation, New Delhi Minutes: Bid Opening & Bid Evaluation Forms filled-in, Prices read out to bidders who were present and evaluation process initiated
6	16-04-2014	Clarifications sought from the bidder 1, over phone	No clear response
7	16-05-2014	Clarifications sought from the bidder 1 by emails regarding the compliance of eligibility conditions stipulated in the bid document	Clarifications received were not satisfactory with reference to 5 axis cutting head and the terms to meet the requirement of supply of 80% of similar equipment.
8	17-05-2014	Clarification sought from end user BARC, Mumbai regarding 5 axis cutting head	Received reply through e-mail indicating the bidder 1 has not supplied a 5 axis machine
9	17-05-2014	Meeting of Industry Experts Committee	Evaluation of technical specifications of the bids carried out
10	22-05-2014	Meeting of Technical Expert committee	Review of technical evaluation carried out and recommendation provided.



BMS COLLEGE OF ENGINEERING, BANGALORE
Technical Education Quality Improvement Programme-II (TEQIP-II)

Observations:

1. The recommendations by the technical committee comprising Dr. M. Ramachandra, COE Coordinator, Dr. S. Srinivas, Proposer, Industry experts Shri Halaswamy Magod, and Shri Aza Mohanty indicates that M/s. Ainnovative International Ltd is technically non-responsive and M/s. MD Corporation is technically responsive.
2. The recommendation of the Technical Committee comprising the CPC members and technical expert, Dr.M.Subba Rao, Scientist (Retd) National Aerospace Laboratories, Bangalore, M/s. Ainnovative International Ltd is technically non-responsive and M/s. MD Corporation is technically responsive.

Recommendations:

Considering the above facts that M/s. MD Corporation is the technically and commercially responsive bidder, the Central Procurement Committee recommends to place order with the responsive bidder, M/s. MD Corporation, for Rs.89,51,570/- (Rupees Eighty nine lakhs fifty one thousand five hundred and seventy only) all inclusive for 1 Nos. of Abrasive Water Jet Cutting Machine as per the terms and conditions of the bid document.

The meeting concluded with thanks to the chair.

Sl.	Name of the Member & Role	Designation	Signature
1	Dr. K. Mallikharjuna Babu, Chairman	Principal, BMSCE	
2	Dr Martin Jebaraj, Member	Director – R & D, BMSCE	LOA
3	Dr L Ravikumar, Member	TEQIP Coordinator II	
4	Dr.M.S.Dharmaprakash, Member	TEQIP Nodal Officer -Procurement	
5	Dr K R Suresh, Member	TEQIP Nodal Officer - Finance	
6	Dr. S Srinivas, Invitee (Proposer)	Principal Investigator – COE	
7	Dr. M Ramachandra, Member Convenor	Coordinator – COE	



BMS COLLEGE OF ENGINEERING, BANGALORE
Technical Education Quality Improvement Programme-II (TEQIP-II)

Center of Excellence

Minutes of CPC Meeting for procurement of Package TEQIP II/KA/KA2G04/193 (Dual Sputtering Equipment) held on 24 May 2014 by 1:00 PM at TEQIP Seminar Hall, BMSCE

Dr. K. Mallikharjuna Babu, Principal & Chairman of the Committee welcomed the Members of Procurement Committee for Centre of Excellence.

Sl No	Date	Particulars	Recommendation/Approval
1	18-02-2014	Approval for Procurement	Approved by BOG
2	10-03-2014	PMSS upload	Uploaded digitally generated bid document to SPFU/NPIU
3	10-03-2014	Invitation of Bids	NA
4	27-03-2014	Pre-Bid Meeting	Provided clarification
5	11-04-2014	Bid opening & Technical Evaluation	Bid opening meeting held and bids opened Nos. of bids received: 04 Bidders: 1. M/s. Indian High Vacuum Pumps 2. M/s. Advanced Process Tech Pvt Ltd 3. M/s. VR Technologies 4. M/s. Mansha Equipment Pvt Ltd Minutes: Bid Opening & Bid Evaluation Forms filled-in, Prices read out to bidders who were present and evaluation process initiated
6	21-05-2014	Meeting of Technical Expert committee	Review of technical evaluation carried out and recommendation provided.

Observations:

1. The recommendations by the DPC is that the bid submitted by M/s. Indian High Vacuum Pumps is commercially non-responsive for further consideration as the bidder had not submitted the bid security along with bid document.
2. The recommendations by the DPC indicates that the bid submitted by M/s. Advanced Process Tech Pvt Ltd is commercially non-responsive for further consideration as the bidder has not submitted the cost of the bid document and bid security along with bid document.
3. The recommendation by the DPC is that the bid submitted by M/s. Mansha Equipment Pvt Ltd has been considered for evaluation as the bid security and cost of



A no. 8

BMS COLLEGE OF ENGINEERING, BANGALORE
Technical Education Quality Improvement Programme-II (TEQIP-II)

the bid document has been submitted. But bid submitted by M/s.Mansha Equipment Pvt Ltd is technically and commercially non-responsive due to non-compliance with the specification and stipulated commercial terms of the bid document.

4. The recommendation by the DPC is that the bid submitted by M/s. VR Technologies is commercially and technically responsive as the bid is in compliance with stipulated commercial terms of the bid document.
5. The recommendations of the DPC and the technical expert, Prof.S.Asokan, Department of Instrumentation & Applied Physics, Indian Institute of Science, Bangalore clearly is that the bid submitted by M/s. VR Technologies is technically and commercially responsive to place order with.

Considering the above facts that M/s. VR Technologies is the technically and commercially responsive bidder and the recommendation of technical expert, the Procurement Committee recommends to place order with the responsive bidder, M/s. M/s. VR Technologies, for Rs.15,61,000/- (Rupees Fifteen lakhs and sixty one thousand only) exclusive of 14.5% VAT for 1 Nos. of Dual Sputtering Equipment as per the terms and conditions of the bid document.

The meeting concluded with thanks to the chair.

Sl.	Name of the Member & Role	Designation	Signature
1	Dr. K. Mallikharjuna Babu, Chairman	Principal, BMSCE	
2	Dr Martin Jebaraj, Member	Director – R & D, BMSCE	
3	Dr L Ravikumar, Member	TEQIP Coordinator II	
4	Dr.M.S.Dharmaprakash, Member	TEQIP Nodal Officer - Procurement	
5	Dr K R Suresh, Member	TEQIP Nodal Officer - Finance	
6	Dr Chandasree Das, Invitee (Proposer)	Principal Investigator – COE	
7	Dr. M Ramachandra, Member Convenor	Coordinator – COE	

BMS COLLEGE OF ENGINEERING, BANGALORE**Technical Education Quality improvement Programme-II[TEQIP]**Centre of ExcellenceMinutes of meeting held on 19th May 2014 at 3:30 PM at TEQIP Seminar Hall, BMSCE**NODAL OFFICERS/CO-ORDINATORS PRESENT:**

Sl.	Name of the Member & Role	Designation	Signature
1	Dr.K.Mallikharjuna Babu, Chairman	Principal, BMSCE	
2	Dr Martin jebaraj, Member	Director-R & D, BMSCE	
3	Dr L Ravikumar, Member	TEQIP Coordinator II	
4	Dr.K R Suresh, Member	TEQIP Nodal officer-Finance	
5	Dr.M.S.Dharmaprakash, Member	TEQIP Nodal officer-Procurement	
6	Dr.S Srinivas, Invitee(Proposer)	Principal Investigator-COE	
7	Dr Chandasree Das, Invitee (Proposer)	Principal Investigator-COE	
8	Dr.M Ramachandra, Member Convenor	Coordinator-COE	

NODAL OFFICERS/CO-ORDINATORS ABSENT:

Sl.	Name of the Member & Role	Designation	Signature
1	Dr.Murugendrappa M V, Invitee (Proposer)	Principal Investigator-COE	

Dr.K.Mallikharjuna Babu, Principal, BMSCE & Chairman of the Committee Welcomed the Procurement committee Member of Centre of Excellence. The committee noted the following:

1. Review the status of procurement of the following packages:

S.L no	Package
1	TEQIP II/KA/KA2GO4/194 Water Jet Cutting Machine
2	TEQIP II/KA/KA2GO4/193 Dual Sputtering Equipment
3	TEQIP II/KA/KA2GO4/189 Precision impedance Analyzer
4	TEQIP II/KA/KA2GO4/174 FTIR Spectroscope

The Committee decided to convene along with the external technical experts to review and recommend.

2. To Change the mode of procurement from I C B (International Competitive Bidding) to L I B (Limited International Bidding) in respect of the following packages:

Sl no	Package
1	BM/COE/Scanning Electron Microscope
2	BM/COE/XRD/5-XRD Equipment

The Committee reviewed the mode and recommended the change in the mode of procurement to be placed for the approval of sub-committee of BOG (Board of Governor).

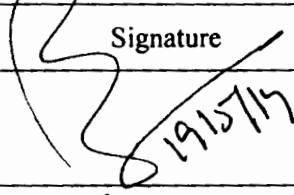
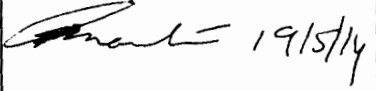
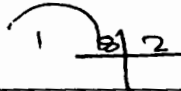
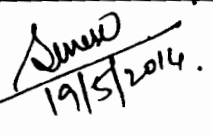
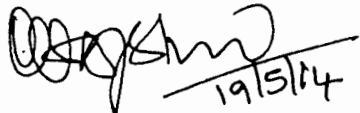
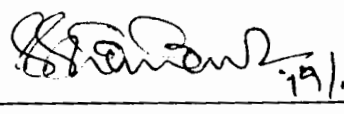
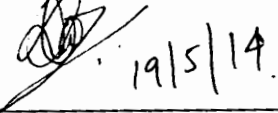
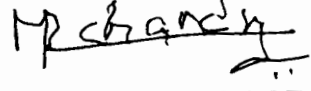
The same will be placed before the next meeting of B O G which is scheduled on 26th May.



BMS COLLEGE OF ENGINEERING, BANGALORE
Technical Education Quality Improvement Programme-II (TEQIP-II)

Center of Excellence

Meeting of Procurement Committee for Centre of Excellence (COE)
held on 19 May 2014 by 3:30 PM at TEQIP Seminar Hall, BMSCE

Sl.	Name of the Member & Role	Designation	Signature
1	Dr. K. Mallikharjuna Babu, Chairman	Principal, BMSCE	 19/5/14.
2	Dr Martin Jebaraj, Member	Director – R & D, BMSCE	 19/5/14
3	Dr L Ravikumar, Member	TEQIP Coordinator II	 19/5/14
4	Dr K R Suresh, Member	TEQIP Nodal Officer – Finance	 19/5/2014.
5	Dr.M.S.Dharmaprakash, Member	TEQIP Nodal Officer – Procurement	 19/5/14
6	Dr. S Srinivas, Invitee (Proposer)	Principal Investigator – COE	 19/5/14
7	Dr. Murugendrappa M V Invitee (Proposer)	Principal Investigator – COE	
8	Dr Chandasree Das, Invitee (Proposer)	Principal Investigator – COE	 19/5/14.
9	Dr. M Ramachandra, Member Convenor	Coordinator – COE	 M Ramachandra

B.M.S. College of Engineering, Bangalore-19
Research and Development Centre

BMS/R&D/Gen/307/ 2014

25th April 2014.

To
The Vice Principal, and *TEQIP Coordinator 1*
BMSCE.

Sub: Procuring Rapid Prototyping 3D Printing Machine.
Ref: BID Reference No. TEQIP/KA/KA2G04/26.

I would like to bring the following observations and recommendations regarding purchase finalisation of 3D Printing Machine. For clarity I bring to focus discussion had with the supplier, M/s. SARTO Electro Equipment's Private Limited, during the pre-bid meeting which was held on 8.4.14.

1. The supplier representative was asked about the technical details of the equipment. He mentioned that the sintering process adopted in this machine is patented process and hence it is proprietary. The size of the table is 10.5'X7'X7.6' (266X177.8X193).
2. The resolution in X and Y direction is 0.004' (100 um)
3. The Z axis resolution is 0.001' to 0.004' (25 to 100 um).
4. Data handling is by STL.
5. For ABS Plastic white the cost per kg of coated ABS material is Rs.50,000/-
6. Minimum quantity of ABS is 23 kgs to operate the machine. In other words the total cost of ABS Plastic required to operate the machine at any given point of time is $50,000 \times 23 = 11,50,000/-$
7. Shelf life of UV synterable ABS Powder material is one year. Hence every year (even if the machine is not at all used) one has to buy 23 kgs of raw material which will cost annually a minimum of Rs.11,50,000/-.
8. Transparent material printing capability: the manufacturer sent one sample which was very flexible and not transparent.

From the above discussions it is clear that in this 3D Printing Machine the recurring expenditure (resin coated ABS Plastic) will cost annually a minimum amount of Rs.11, 50,000/-. Further the table size is also normal and is not big.

The same functionality is possible to obtain from the ABS wire type 3D Printing Machine whose material cost is 18 times cheaper than the above machine. Further the shelf life of the wire is almost infinite. There is no need for stocking 23 kgs of ABS Plastic for machine operation.

To have a comparison with a another 3D Machine that may give better understanding the following table is presented.

TABLE – COMPARISON OF UV CURABLE MACHINE WITH THERMAL WIRE DEPOSITION 3D PRINTER.

Sl.No	Specification	ULTRA 3SP	AHA 3D
1	Table size	10.5'X7'X7.5'	9'X9'X9'
2	Material	ABS Plastic	ABS Plastic
3	Resolution X Direction	100 µm	100 µm
4	Resolution Y Direction	100 µm	100 µm
5	Resolution Z Direction	40-100 µm	100 µm
6	Minimum stock of raw material required to operate the machine	23 kgs	No minimum quantity requirement

P.T.O.

7	Bench life of raw material	1 year	Infinite
8	Cost of raw material	50,000 per kg	2800 per kg
9	Minimum annual recurring cost	11,50,000	NIL
10	Cost of consumables	UV bulb	NIL
11	Machine cost	65,14,470	1,80,000

Recommendations:

From the above observations it is clear that there is no difference between these two machines. But the ULTRA 3SP has the disadvantage of minimum quantity of raw material, cost of raw material and cost of machine which are a disadvantage. Hence I strongly feel that ^{there is} no need to procure this machine (which exactly performs like some of the low cost machines).

 26/4/14
Director, BMS R&D Centre

BMS R & D Centre
BMS College of Engineering
BANGALORE - 560 019

I would like to bring to your kind notice the following clarifications/ justifications why our institute need to go for Envisiontec 3D printer. Reply to R&D- Director's query submitting this for your kind perusal.

Technical clarification:

Point No. 1 to 4 is as per our tender specifications and according to product catalog.

Point No. 5 – according to the Company, cost of import of ABS Flexible (AB10) or ABS Stiff (AB20) will be around euros 410 i.e. around Rs. 34,000/- inclusive of duty Custom duty, freight and Insurance. They have not quoted Rs. 50,000/- per Kg in their tender.

Point No. 6. Please note initial fill of 23 Kg resin is part of Machine cost. We have to top up 1 kg resin, after we make our parts weighing 1 Kg. This means the operating cost of resin is not 11,50,000/- but weight of the part in grams multiplied by Rs. 34/- only. Calculation shown by Director, BMS R & D centre is misleading.

Point No. 7. The company has liquid resin and not synterable powder. The respected director has not seen the machine working. If we are not using machine then we have to store the resin in it's original container and keep it in cool dry place away from sunlight. This will extend the resin life much beyond it's expiry period. And if we are using this machine regularly to provide services to the industry around Bengaluru, then this question will not arise at all. We have planned to use the machine to full capacity and run it for 365 days.

Point No.8 In our tender specifications we have not asked for any specific resin. Company submitted a sample, which we thought, will be useful to us.

As mentioned in point no. 5 – they do have transparent stiff resin.

General: According the Mr. Rohil Mehta, recurring cost per year is not Rs. 11,55,000/- at all. Comparing the 3 SP machine with AHA 3 D - is like comparing apple to pineapple. Accuracy of the parts produced is 18 times better. Resolution in Z axis is selectable from 25 to 100 microns – again 4 times better. Minimum quantity of resin to be stocked is as per our consumption and not 23 Kgs. The Machine cost is Rs. 44,25,000/- as per the tender document (latest version machine) and not Rs.65,14,470/-

The director should have commented at the stage when the tender documents were being prepared - which took 3 months. Even at the pre tender meet, these points were not spelled out.

It is really surprising to look at the letter tendered by the R&D Director as a comparison of 3D printer. It is like comparing to nano car to a high end car. I would like to bring to his notice that, Bangalore based entrepreneurs, Nikhil Velapur and Arvind nadig built

their own cost effective 3D printer, Brahma 3, which has a large build volume (240*240*240 mm), resolution of 50 microns per layer costing around 1 lakh only.

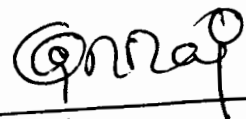
Sir, as I remember our beloved donour trustee late Sri. B.S.Narayan always wanted to have the best, reliable and durable product to be purchased by the institute. As an example, institute has purchased FUNAC CNC machine and DELL computers during 90's which are considered the best on those days. We are still proud of having these machines in our campus.

Before deciding on this 3D printing machine, I and Prof. Chandra babu, Associate Professor had visited RV College of Engineering (TEQIP partner) and seen the strasys product which is working on principle of Fusion Deposition Methods(FDM). After having the discussion with Dr. Krupashankar M S, Professor and the research assistant working, detailed us about the maintenance problems like cleaning the jet, clogging and other issues. The professor suggested this machine which works under different working principle (UV light) so that we can have collaborative activity with them. The students will have the opportunity to see both the machines.

After having through thinking and reasoning we had arrived at this machine which is maintenance free and suggested to procure.

Our effort is to move towards and trying to be in par with premier institutes like IISc, IIT.

By: Chandra Babu


DR. RAMESH BABU

B.M.S.COLLEGE OF ENGINEERING, BANGALORE-560 019

THE LIST OF CONSUMABLES APPROVED BY THE SUB-COMMITTEE OF BOG FOR
 PROCURING UNDER TEQIP-II & COE FOR RESEARCH ACTIVITIES BASED ON THE
 REQUISITION BY THE FACULTY MEMBERS

SI No	Items	Estimated Total Cost (Rs.)	Approved Mode of Procurement	Requisitioned by the faculty of the department of
Sub-component 1.2				
1.	Xylan from Beech wood, D-Xylose, D-Galactose, D Arabinose, D-Mannose, D-Glucose	40,000/-	Shopping	Chemical Engg
2.	RNA isolation Kit, DNase and RNase free water, First strand cDNA synthesis kit, PCR primers fro mouse SFRP 5, PCR primers for mouse PPAR-gamma:mouse, Beta actin Primers, PCR primers for mouse adiponectin, Trizol reagent, free glycerol reagent, Real time RT PCR kit	1,00,000/-	Shopping	Biotechnology

Sub-component 1.2.1				
SI No	Items	Estimated Total Cost (Rs.)	Approved Mode of Procurement	
1.	Al6061, SiC particles, Al6061 slabs, stainless steel slabs	1,40,000/-	Shopping	
2.	Die to manufacture MMC	60,000/-	Shopping	
3.	Germanium, Silicon, Aluminium, Acetone, Tellurium, silicon wafers and other consumables	1,50,000/-	Shopping	
4.	Magneto Rheological Fluid, Basonetic 2040 MR Fluid from Basf, Simarubha oil, Carbonyl iron particles, Mahaue oil & Surfactant, Glassware, Burette and utensils	3,00,000/-	Shopping	