Control Number:- DE-19111011541	
Submission Date:- 11/22/2010 2:35:52 PM	
PART-I Personal Details	
1. Name :-	Prof. Rajbir Singh
2. Designation :-	Director
3. Organisation Name :-	Consortium for Educational Communication
4. Postal Address :-	CEC, IUAC Campus, Aruna Asaf Ali Marg, New Delhi - 110067
5. City :-	New Delhi
6. State :-	Delhi
7. Phone :-	011 26896637, 011- 64673905, 011- 65645236
8. Fax :-	011 26897416
9. Email :-	director.cec@nic.in
10. Mobile :-	9871413322
11. Project Category :-	E-Content Development

PART-II Information relating to Department/Institute	
1. Name of Institute with complete address :	Consortium for Educational Communication, IUAC Campus, Aruna Asaf Ali Marg, New Delhi-110 067
2. Title of the Research Project	**Production of Courseware e-Content Development**
3. Department/ Broad Area	Hardware, Software & Multimedia
4. Major areas of research in the Department	Engaged in Education through ICT for the past 25 years.
5. Names & Designation of Principle Researchers in the major areas and list of publications during last 5 years based on work done in the Department:	

Name of Principal Investigator : Prof. Rajbir Singh, Director
Co-Principal Investigators   : Mr. Nageshwar Nath ME
                          Dr. Shatruddha, RS, &
                          Directors of Twenty One Media Centres	

6. Is it Inter-disciplinary Project?	Yes
7. Is it Inter-Institutional Project?	Yes
8. Is any Industry/User agency participating?	Yes
9. Brief of completed and or ongoing research projects supported by MHRD/ AICTE in the Department during last 5 years.	
Running of 24 hrs. Vyas Higher Education Channel since Jan.'04 Approved by MHRD. Production of Video progs., & Broadcast on Doordarshan since 1984. Programmes Broadcast on DD-Bharti, Gyan Darshan, Virtual Classroom Operations through EduSat, Development of e-modules for Internet Based Learning.	

PART-III Information relating to Department/Institute

10(a). Principal Investigator Details

PRINCIPAL INVESTIGATOR

  a. **Name :** Prof. Rajbir Singh

  b. **Designation :** Director, CEC

  c. **Age :** 49

d. Educational Qualification : Prof. (Dr.) Rajbir Singh, a double graduate in Law and Science, holds two masters degrees – one in English and another in Mass Communication. He is a doctorate in the area of Educational Communication ("Role of Mass Media in Educating Rural Masses") and has authored a book titled 'Development Communication: Mass Media and Public Policy' and also he has to his credit more than a dozen research papers published in reputed National and International Journals.

e. Areas of specialization: Public relation and Advertising, Developmental Communication and

Social Marketing, Media Laws and Communication Research.

f. Experience (Teaching & Research) : More than 21 years Teaching/Training/Research and/or Professional Experience in Mass Communication.

g. Selected list of papers published : The Institution (CEC) the PI is heading presently, has produced 20,000 video programmes about 6,661 e-content modules and 1500 LoRs by CEC and its media Centres till date. Perhaps, the largest collection of Educational Video Programmes.

10(b). Co-Principal Investigator Details

10B. Co-PRINCIPAL INVESTIGATORS
1. a. Name : Nageshwar Nath
   b. Designation : ME, CEC
   c. Age : 52
   d. Educational Qualification : B.E. (Electrical), MBA, PGDCA
   e, f, g, same as 10A & g

2. a. Name : Dr. Shatruddha
   b. Designation : RS, CEC
   c. Age : 33
   d. Educational Qualification : Ph.D in Mass Communication
   e, f, g, same as 10A & g

3. a. Director's of 21 Media Centres as per Annexure-I

11. In case it is a joint project with other Institution research labs and industries, :
a) Directors of 21 Media Centres - participating investigators name(s) of (EMMRC Ahmedabad, Chennai, Calicut, Kolkata, Pune, ELFU-Hyderabad, Osmania Hyderabad, Jodhpur, Madurai, JMI Delhi, Manipur, Indore, Mysore, Patiala, Roorkee, Srinagar, Sagar, Bodhgaya, Dibrugarh, Lucknow & Pondicherry) Details attached

b) Large number of academicians, subject expert (in-service, retired) from various universities, colleges and institutions across the country and names of such experts, if any, provided by MHRD will be engaged in development of Educational Content.

c) A large no. of production agencies engaged in production of e-content and educational material across the country will also be engaged in production of e-content programmes.

11. In case it is a joint project with other Institution, research labs and industries, names(s) of participating investigators

In case it is a joint project with other Institution research labs and industries, name(s) of participating investigators.	: a)	Directors of 21 Media Centres (EMMRC Ahmedabad, Chennai, Calicut, Kolkata, Pune, ELFU-Hyderabad, Osmania Hyderabad Jodhpur, Madurai, JMI Delhi, Manipur, Indore, Mysore, Patiala, Roorkee, Srinagar, Sagar, Bodhgaya, Dibrugarh, Lucknow & Pondicherry) Details *attached*
	: b)	Large number of academicians, subject expert (in-service, retired) from various universities, colleges and

		institutions across the country and names of such experts, if any, provided by MHRD will be engaged in development of Educational Content.
	: c)	a large no. of production agencies engaged in production of e-content and educational material across the country, will also be engaged in production of e-content programmes.

In case industry/user agency is participating, whether a MOU has been signed or letter of intent given.

12. In case industry/user agency is whether a MOU has been signed or letter of intent given.	:	Yes, Tripartite MoU have been singed by the Secy., UGC, Director, CEC & the Vice - Chancellor of the 21 Host University where the Media Centres, created by the UGC, are located.

13(a). Present commitments of the Principal Investigators

(a)	Teaching	:	YES
(b)	Ph.Ds registered under him/her	:	12
(c)	Sponsored research	:	Not Applicable
(d)	Consultancy	:	e-Education

13(b). Present commitments of the Co-Principal Investigators

(a)	Teaching	:	Industry Professional
(b)	Ph.Ds registered under him/her	:	Not Applicable
(c)	Sponsored research	:	Not Applicable
(d)	Consultancy	:	e-Education

14. Other members of the Research Group to work on proposed Projects:

14.   Other members of the Research Group to work on proposed Projects:

Name and Designation	:	Shri. Nageshwar Nath, ME
	:	Dr. Shatruddha , RS
	:	Smt. Rita Dhar, Producer
	:	Smt. Ritu Chawla, CPA
	:	21 Directors of EMMRCs
Area of Specialization	:	Broadcasting, Audio/ Video Content Production, e-content Production, Satellite Broadcasting, Terrestrial, IP Radio, Cable, DTH, etc. content Dissemination.
Experience (Teaching/ Professional)	:	Management, Production, Engineering, etc. ranging from 36 years to 12 years.
Papers Published	:	Produced large number of Educational Television Programmes, e-content & LORs, Published Research Papers and Books.

PART-IV About Research Project

15(a). Summary of the project (brief):

Innovation in teaching and learning through the use of ICT, for mass education. The specific areas are creation of courseware e-content, for undergraduate & Post Graduate subjects.

(b) Justification, importance of projects:

CEC and Media Centres have vast experience and expertise in producing e-content modules. They have experience of 25 years in producing video programmes. CEC and its 21 Media Centres are already engaged in producing e-content, video based programmes and LoR's.	

(c) Details of the work already done by Principal Investigator in this area:

Production of 20,000 video programmes, about 9,320 e-content modules and 1500 LoRs produced by CEC and its Media Centres till date.

16. Total amount required:

Phase I-Total 10295 modules for 29 subjects @ 355 modules per subject @ Rs. 17,500/- per modules

1. Expenditure for e-content modules Rs. 10295 X 17,500/- = Rs. 18,01,62,500/-
2. Workshops/training 10 nos. @ Rs. 2,00,000/- per workshop = Rs. 20,00,000/-

Total for Phase – I   **= Rs. 18,21,62,500/-**

Phase II   -   PAB, MHRD in its meeting held on 9th March, 2014 approved the rate of e-content production @ Rs. 31,000/- per module.

The budget projection under phase – II has been made on the basis of Rs. 31,000/- per module.

Average Expenditure per e-content and ETV programme May, 2014

S No	Description	Amount	Reference rates
1	Subject Co-ordinator	Rs. 1000/-	As per e-content DPR
2	Subject expert/ Resource person a. For Research (Background work for reference material field visits etc.)	Rs. 1000/-	Rs. 2000 - 5000/-
	b. For Subject Mapping, Module Designing, providing Objectives, Summary, FAQ`s, Assignments, Quiz, tutorial References, Glossary, case studies, Web References etc.	Rs. 2500/-	Rs. 2000 - 8000/-
	c. Payment to Subject Experts for Transcription, Downloadable (pdf) text (e-books)	Rs. 2000/-	Rs. 1000 - 2000/-
	d. Onscreen presentation by the subject expert	Rs. 2000/-	Rs. 1000 - 2000/-

3	For production of ETV programme/Video modules
	    a. Hiring /purchase of Equipment, facilities.
	
	    b. Hiring/engagement of Human resources on contract basis as permissible under project for timely and successful completion of the project.
	
	    c. Preproduction, Studio Recording, Music composition, Post production etc.
		Rs. 5000/-
		
		Rs. 3000/-
			As per UGC funding for production of ETV programme.

4	Freelance/hired Editors payment per e-content/ ETV programme for 4 shifts @ Rs.1000/- per shift	Rs. 4000/-	Rs. 500 – 1000/- Per shift
5	Freelance/hired Graphics artist per e-content for 4 shifts @ Rs.1000/- per shift	Rs. 4000/-	Rs. 1500 – 2000/- Per shift

6	Honorarium to PI, Co-PI and staff as permissible under project for timely and successful completion of the project as permissible under project.	Rs. 1500/-	Approx. 5% of Module cost
7	E-content certification and validation		The Honorarium being paid to experts for preview of programmes at CEC and Media Centres
			Rs. 1000/-
	(a) 1st stage at Media Centres by subject experts and production team	Rs. 1000/-	
			Rs. 1000/-
	(b) 2nd stage at CEC by Peer group	Rs. 1000/-	
8	Amount to be retained by CEC as coordinating and integrating agency for Hiring/purchase of Equipment, facilities and Hiring/engagement of Human resources on contract basis, Contingencies consumables, Integration activities, PRSG meeting, meta tagging and dissemination on web and social media.	Rs. 3000/-	Approximately 10% of the module cost
	Expenditure Per Module	**Rs. 31000/-**	

Total 20595 modules for 58 subjects @ 355 modules per subject @ Rs. 31,000/- per modules
1. Expenditure for e-content modules Rs. 20590 X 31,000/-   = Rs. 63,82,90,000/-
2. Workshops/training 58 subjects @ Rs. 2,00,000/- per subject   = Rs. 1,16,00,000/-

Total for Phase – II   **= Rs. 64,99,50,000/-**

Grand Total for Phase I & II   **= Rs. 83,21,12,500/-**

17(a) Recurring budget (not more than 30%) of the proposal along with item-wise breakup (Man power, Contingency, Consumable, Travel, Miscellaneous year wise breakup).

S. No.	Item	Amount per year (Rs. in Lakhs)	Duration (From date of Revision)	Duration (From date of Revision)	Total Amount (Rs. in Lakhs)
		Phase- I		**Phase –II**	
A. (i)	Development of Academic Content for e-learning	800.00	1Year	2 Years	3034.80
A. (ii)	Contingency, travel Aprox. 10%	133.625	1 Year	2 Years	711.60
	Sub Total A	**933.625**			**3746.40**
B. (i)	Recurring Expenses on account of engagement of Human Resource, material etc.	150.00	1 Year	2 Years	552.30
B. (ii)	Preview at Media Centre and CEC	78.00	1 Year	2 Years	426.45
	Sub Total B	**228.00**			**978.75**
C. (i)	ETV programme Production including Pre-Production, Recording, Music composition, Post Production,	**350**	1 Year	2 Years	855.70

S. No.	Item				Amount
C (ii)	Honorarium to PI, CO-PI and staff	**90**	1 Year	2 Years	422.65
	Sub Total C	**460.00**			**1278.35**
	TOTAL A + B + C	**1601.625**			**6003.50**

(b) Detailed breakup of non-recurring items (with the equipment to be procured along with cost).

S. No.	Item	Amount (lacs) Phase – I	Amount Phase - II
D	Purchase/hiring/engaging the services/equipment/software's, not available at CEC and Media Centres	200.00	380.00
E	Academic, Production, Technical and Research workshops/training numbering 10 and 58 in Phase I & II respectively.	20.00	116.00
	Total A + B + C + D +E	**1821.625**	**6499.50**

- Note : 1. Building construction is not permitted.
     2. The payment to subject coordinator shall be @ Rs. 1,000/- per module subject to maximum payment of Rs. 3,00,000/- per course.
     3. Out of total project cost 10% shall be retained by Consortium for Educational Communication for incurring expenditure towards hiring/purchase of equipment and hiring of manpower and Integration, Coordination, PRSG Meetings, Meta tagging, dissemination, outreach to the students as allowed under Para – 7(iii) of the guidelines issued by MHRD for e-content development and Para – 20 E of the e-content development proposal submitted by CEC to MHRD.
     4. The above by bifurcation is indicative only. Re-appropriation of funds from one expenditure head to another can be made by PI or Co-PI for timely completion of the project.

18. SUMMARY SHEET :

	NA
1. Name of the Institution:	Consortium For Educational Communication
2. Title of the Project:	**Production of Courseware e-Content Development, Video Programmes**
3. Name of the Department:	CEC and EMMRCs
4. Cost of the Project:	
	Rs. 83,21,12,500/-
5. Amount released earlier if any:	
	Phase – I = Rs.16.42 Crores + Phase – II = Rs. 17.80 Crores
6. Utilization position in respect of grants released earlier (upto-2013) for various projects (Details to have given project wise)	
	(i) Fully spent : Funds received under Phase – I - fully spent (UC Attached).
	(ii) Unspent, proposal to utilize it : NIL
7. Reasons for unspent balance	
	There have been over spending then the earlier released funds

8. Name of the Principal Investigator responsible for implementation of the Project:	
	Prof. Rajbir Singh

PART-V Detail Project Report

1. Objective

The objectives of the proposed programme are to:
(a) Promote generation of e-Content in all subjects;
(b) Develop teachers' and experts' resources in e-Content creation;
(c) Make available the e-Content to teachers and students through various delivery modes for formal and non-formal education, for supplementing and complementing the process of teaching and learning in higher education;
(d) Develop partnerships between educational institutions and the IT industry for the continuous development of new content and methodology taking into account contemporary technology.

2. Methodology

3. Deliverables year wise and its possible contribution to major objectives of mission.

The following content shall be delivered in two phases. In Phase I, production of e-content courseware for 29 subjects shall be produced and under Phase II, production of e-content courseware for additional 58 subjects shall be undertaken.

1. Production of e-Content Modules suitable for use in PC and internet.
2. To hold Academic, Production, Technical and Research workshops for successful development, upgradation and evaluation of the objectives of the project.

4. Time schedule (year wise)

Progress & Expected e-content Production (using Four Quadrant Approach) by CEC & its Media Centre under NME-ICT MHRD Project.

4.1 Subjects under Phase-I (29 Under UG Subjects)
  i. **CEC Media Centres has completed e-content in 08 subjects and these were uploaded on CEC website www.cec-ugc.nic.in and MHRD website www.sakshat.ac.in and launched and dedicated to nation on 28th January, 2014**

Sr. No.	Subject Allotted	Media Centres	E-content Developed
1.	B. A. History	Kolkata	356
2.	B.A. Botany	Srinagar	282
3.	B.A. / B.Sc. English Language	Hyderabad EFLU	131
4.	B.A. / B.Sc. Environmental Science	Indore	76
5.	B.A. Anthropology	Manipur	193
6.	B.A. (Hons.) Mathematics	Calicut	379
7.	B.A. / B. Sc. Hindi Language	Indore	147
8.	B.A. Vocational Studies (Photography)	Indore	27

ii)   **Production of e-content courseware in 11 subjects nearing completion**

Sr. No.	Subject Allotted	Media Centres	E-content Module proposed as per subject mapping by Centre
9.	B.A. Communication & Journalism	MCRC Jamia	312
10.	B.Com Commerce	Jodhpur	355
11.	B. Sc. Computer Science	Chennai	350
12.	B.A. Performing Arts	Patiala	290
13.	B.A. (Hons.) English Literature	Hyderabad EFLU	399
14.	B.A. Hindi Literature	Indore	325
15.	B.A. Sociology	Madurai	390
16.	B.A. Psychology	Hyderabad EFLU	305
17.	B.Sc. Applied Physical Sciences (Computer Science)	Patiala	230
18.	B.Ed.	Calicut	300
19.	B.A. Geography	Mysore	340

(iii)   Production of e-content courseware in remaining 10 subjects

Sr. No.	Subject Allotted	Media Centres	E-content Module proposed as per subject mapping by Centre
20.	B.A. Economics	Hyderabad Osmania	350
21.	B. Sc. Zoology	Ahmedabad	300
22.	B.A. Business Management	Pune	316
23.	B.Sc. Chemistry	Roorkee	350
24.	B.Sc. Geology	Sagar	281
25.	B.Sc. Applied Physical Sciences (Electronics)	Chennai	350
26.	B.Sc. Applied Life Science (Sericulture)	Mysore	350
27.	B.Sc. (Hons.) Microbiology	Kolkata	350
28.	B. A. Human Rights	Imphal	210
29.	B.Sc. (Hons.) Statistics	Mysore	300

4.2   Subjects under Phase – II

Production of e-content courseware in 58 UG subjects under Phase – II

Sr. No	Subject Allotted	Media Centres	E-content Module proposed as per subject mapping by Centre
30.	B.A. (Hons) Urdu (1st Year)	Srinagar	140
	B.A. (Hons) Urdu (2nd Year)	EFLU Hyderabad	100
	B.A. (Hons) Urdu (3rd Year)	MCRC, Jamia	100
31.	B.A. (Hons) Music (Ravindra Sangeet) (The primary language may be Bengali with English subtitle)	Kolkata	85
32.	B.A. (Hons) Political Science	Kolkata	350
33.	B.A. (Hons) Hindi Journalism	MCRC, Jamia	300
34.	B.A. (Hons) Philosophy (3 year)	Calicut	279

35.	B.A. (Hons) Business Economics	Ahmedabad	350
36.	B.A. (Hons) Sanskrit (1st and 2nd Year) (52+110)	Roorkee	162
	B.A. (Hons) Sanskrit (3rd & 4th Year)	Chennai	200
37.	B.A. (Hons) Music (Karnataki Sangeet) 3 year	Madurai	210
38.	B.A. (Hons) Music (Hindustani Classical)	Pune	375
39.	B.A. (Hons) Social Work	Hyderabad Osmania	300
40.	B.A. Management & Marketing of Insurance (1st & 2nd Year)	Jodhpur	350
	B.A. Management & Marketing of Insurance (3rd Year)	Hyderabad Osmania	120
41.	Foreign Language courses – German, Spanish, French & Russia (at the level of certificate course) 50X4	EFLU Hyderabad	200
42.	B.A. Fine Arts	MCRC Jamia	300
43.	B.A. in Film Studies	Kolkata	210
44.	B. A. Vocational Studies (Advertising papers)	Indore	34
45.	B. A. Vocational Studies (Financial Accounting papers)	Indore	25
46.	B. A. Vocational Studies (Computer & Networking papers)	Indore	72
47.	B.A. Tourism	Mysore	355
48.	B. A. Human Resources Management	Pune	105
49.	B.A. Social Welfare Administration – 3 year	Madurai	355
50.	B. A. Vocational Studies	Mysore	355
51.	B. A. Marketing Management & Retail Business	Jodhpur	350
52.	B.A. Office Administration & Secretarial Practice	Pune	310
53.	B.A. Public Administration	Hyderabad Osmania	200
54.	B.A. LLB (1st & 2nd Year)	Srinagar	300
	B.A. LLB (3rd, 4th & 5th Year)	EFLU Hyderabad	400
55.	B. A. Vocational Studies - Mass Communication Video Production	Kolkata	300
56.	B. A. Population Studies	Patiala	270
57.	B. A. Education	Srinagar	380
58.	B A. Criminology – 3 Year	Sagar	268
59.	B. Sc. Forensic Science – 3 Year	Sagar	271
60.	B.Sc. (Hons) Food Technology (1st Year)	Srinagar	221
	B.Sc. (Hons) Food Technology (2nd & 3rd Year)	Mysore	355
61.	B.Sc. Life Sciences (1st Year)	Ahmedabad	84
	B.Sc. Life Sciences (2nd & 3rd Year) (200+150)	Indore	350
62.	B.Sc. (Hons) Home Science (1st, 2nd, 3rd & 4th year)	EFLU Hyderabad	500
63.	B.Sc. (Hons.) Bio-Medical Sciences	Srinagar	380
64.	B.Sc. (Hons) Electronics	Jodhpur	350
65.	B.Sc. (Gen) Mathematical Science	Chennai	400
66.	B.Sc. Agriculture (1st and 4th Year)	Jodhpur	110
	B.Sc. Agriculture (2nd Year)	Madurai	280
	B.Sc. Agriculture (3rd Year)	Imphal	300
67.	B.Sc. (Hons) Polymer Science	Chennai	300
68.	B.Sc. Physics (Hons.)	Chennai	250
69.	B.Sc. Agro-Chemical and Pest Control	Jodhpur	50
70.	B. Sc Bio-Informatics	Calicut	183
71.	B.Sc. Applied Physical Sciences (Environmental Science)	Chennai	130
72.	B.Sc. Applied Physical Sciences (Industrial Chemistry)	Roorkee	250
73.	B.Sc. (Hons) Bio-Chemistry – 1st Yr.	Hyderabad Osmania	120

	B.Sc. (Hons) Bio-Chemistry – 2nd & 3rd Yr.	Madurai	175
74.	B.Sc. Physical Sciences	Hyderabad Osmania	300
75.	B. Arch.	Chennai	400
76.	B.Ed. (Special Education for Visually Impaired	Madurai	225
77.	B.Ed (English) (1 ½ year)	EFLU, Hyderabad	100
78.	B.El.Ed. (Elementary Education) (1st, 2nd, 3rd & 4th)	Madurai	500
79.	B.Library and Information Science – 1 year	Calicut	100
80.	B.P.Ed. (1st & 2nd Year)	Patiala	150
	B.P.Ed. (3rd Year)	Imphal	250
81.	B. Pharmacy	Sagar	524
82.	BFA Painting Applied Art Sculpture (core paper)	Calicut	80
83.	BFA Painting Applied Multimedia	Calicut	220
84.	Bachelor for Theatre Arts	Calicut	80
85.	Bachelor of Business Studies	MCRC, Jamia	300
86.	Manuscriptology (core papers)	Mysore	20
87.	Cyber Security/Information Security	Patiala	185

5. Details of permanent assets to be procured from the project with estimated cost.

Equipment list for Media Centres

S.N	Equipment	Qty.	Estimated Cost in Rs (Lakhs)
1	Broadcast Grade cameras with Tripode	2	15
2	Vision Mixer with Multi-viewer o/p	1	7
3	Audio Mixer	1	1.5
4	42" LCD Multi-viewer (HDMI ports)	1	0.90
5	Wireless & Lapel Microphones	5	2
6	HDD Recorder/Server	1	3
7	Scan converter VGA, HDMI-PAL	1	1
8	Animation/Graphic Workstation with Software	1	4
9	PC/Laptop	3	2
10	A-V NLE editing set up	1	5
11	Workstation for Integration into Flash template	1	3
12	8 Port LAN Sw	2	0.25
13	Amplispeaker & Head Phones	2	0.5
14	Cool Studio Lights & Fixtures	1 set	3
15	UPS/Inverter 5KW	1	1
16	DTH Reception and 40" LCD TV	1	0.35
17	Air conditioners	3	2

18	Acoustic Treatment for Studio and Control Room	1 set	3	
19	Civil and Electrical modifications/renovations , Earthing Modification Jobs	1	2.5	
20	Racks, Installation Kit, Intercom, Cables & Consumables	1 set	3	
Items to be provided by Institute				
21	Control Room/ equipment room size 12X15x10ft (wxlxh) or better, to be provided by the institute.	1		
22	Studio Size 20X35X12 ft., to be provided by the institute	1		
23	Tel Land lines (2) & Broadband Internet (2)	1 Set		
24	Fire detector, alarm, extinguishers.	1 set		
	TOTAL		60.00	

6. Details of financial outlay in year wise for recurring and non-recurring funds.

S. No.	Item	Amount per year (Rs. in Lakhs)	Duration (From date of Revision)	Duration (From date of Revision)	Total Amount (Rs. in Lakhs)
			Phase- I		Phase –II
A. (i)	Development of Academic Content for e-learning	800.00	1Year	2 Years	3034.80
A. (ii)	Contingency, travel Aprox. 10%	133.625	1 Year	2 Years	711.60
	Sub Total A	**933.625**			**3746.40**
B. (i)	Recurring Expenses on account of engagement of Human Resource, material etc.	150.00	1 Year	2 Years	552.30
B. (ii)	Preview at Media Centre and CEC	78.00	1 Year	2 Years	426.45
	Sub Total B	**228.00**			**978.75**
C. (i)	ETV programme Production including Pre-Production, Recording, Music composition, Post Production,	**350**	1 Year	2 Years	855.70
C (ii)	Honorarium to PI, CO-PI and staff	**90**	1 Year	2 Years	422.65
	Sub Total C	**460.00**			**1278.35**
	TOTAL A + B + C	**1601.625**			**6003.50**

S. No.	Item	Amount (lacs) Phase – I	Amount Phase - II
D	Purchase/hiring/engaging the services/equipment/software's, not available at CEC and Media Centres	200.00	380.00

	E	Academic, Production, Technical and Research workshops/training numbering 10 and 58 in Phase I & II respectively.	20.00	116.00	
		Total A + B + C + D +E	**1821.625**	**6499.50**	

7. Management of Deliverables & IPR etc.
The Project Coordination and Progress Review Committee constituted by the Director, CEC, comprising of a panel of subject experts, technical experts, media professionals, managers including officials from the CEC to monitor and review the progress of implementation of the e-content scheme. The Director, CEC or his/her nominee shall be the Member Secretary of the Committee.

8. Justification of the projection with clear cut statement about outcomes if the project contributing to mission objective.
The project will deliver complete e-content courseware for 87 subjects. The e-content, once developed, will form an integral part of "National Mission on Education through ICT" and will also be available at Consortium for Educational Communication (CEC) and MHRD designated Website/Servers. The content will be freely accessible by all teachers and students of the Indian University system throughout the country.

PART-VI Uploaded CV and DPR

Uploaded CV :- Click here to CV

Uploaded DPR :- Click here to DPR

Part-VII DPR Summary

1. Objective

The objectives of the proposed programme are to:
1. Promote generation of e-Content in all subjects;
2. Develop teachers' and experts' resources in e-Content creation;
3. Make available the e-Content to teachers and students through various delivery modes for formal and non-formal education, for supplementing and complementing the process of teaching and learning in higher education;

Develop partnerships between educational institutions and the IT industry for the continuous development of new content and methodology taking into account contemporary technology

2. Deliverables (Please give milestones with timelines linking with payments)

The following content shall be delivered in two phases. In Phase I, production of e-content courseware for 29 subjects shall be produced and under Phase II, production of e-content courseware for additional 58 subjects shall be undertaken.

1. Production of e-Content Modules suitable for use in PC and internet.
2. To hold Academic, Production, Technical and Research workshops for successful development, upgradation and evaluation of the objectives of the project.

3. Suggestions with respect to:
- **Arrangement for quality control:-**
  The content validity shall be ensured by the Production Agency and the CEC. Beside content validity, the production and technical quality control shall be ensured by the CEC.

  The final products in the form of e-content modules shall finally be previewed and approved before making it available to the public.

- **Accuracy:-**
  The accuracy of the content being developed will be given highest priority during the

development of the e-content. Levels of testing will be put in place to ensure utmost accuracy in the content.

- **Coverage:-**
  - The project is expected to fulfill the needs of those students who are unable to learn through regular stream of education.
  - The course materials will be of much use to the self-employed persons who prepare for civil service and competitive examinations.
  - The project will be a pioneering approach towards the setting up of CEC virtual university.

- **Updation Mechanism:-**
  As and when there are changes in the curriculum the same would be translated into the e-courses as well. Also, based on the constant feedback and testing the necessary updation would also be incorporated. For any updation a separate proposal including the budget required shall be submitted.

- **Testing by users:-**
  Formative and Summative Researches shall be carried out regularly in order to test the knowledge, understanding, aptitude and application level of the learners.

- **Testing by peer group:-**
  The support of senior academicians, technologists and Media Managers shall be sought in order to test the content developed in terms of its academic, production and technical quality. For this, an Academic Standing Committee has been constituted, which includes officers from CEC, Academicians, Technical and Production Experts.

4. Scaling up

- **Plan :-**
  Once the Development of e-content under Phase-I, picks up, the CEC shall implement the development of e-content under Phase-II, wherein additional 58 subjects shall be undertaken by outsourcing the production of e-content.

- **Strategy**
  Phase – I
  In-house :-All the content under phase – I for 29 subjects shall be prepared in-house and also be checked for accuracy and thereafter it would be suitably digitized to be put on Servers for access by students and general public, on the CEC and Shakshat Internet Clouds.
  Phase – II
  Out sourcing :-All the e-content development under Phase-II i.e. for 58 subjects shall be outsources. Production/development of e-content under Phase-II shall be outsourced.

In case of outsourcing please comment with regard to its acceptability with reference to Government Rules and Procedures.

5. Popularizing and extension activities and plans

- **Strategy for popularization :-**
  Various activities, events etc shall be organized to popularize and promote the project with the help of university and associated colleges

- **Extension activities and plans**
  Maintenance mechanism :-
  Maintenance of the content would also be done on a regular basis

User feedback mechanism, its execution procedure and corrective measures. :- Feedback would be constantly collected and a plan would be structured to make the necessary changes/modifications to better suit the end user. All corrective measures would immediately be put into action. This would constantly help us in improving the quality and efficiency of our e-content.

6. Review Mechanism

- **Frequency of review :-**
  Academic Standing Committee shall meet once in three months, however academic, production and technical review shall be done on regular basis.

- **List at least 10 Reviewers, who are eminent in fields of the projects :-**
1. Prof. Suranjan Das, Vice Chancellor, University of Kolkata
2. Lt. Gen Dr. D. D. S. Sandhu, Vice Chancellor, Kurukshetra University
3. Prof. Sunaina Singh, Vice Chancellor, Osmania Hyderabad
4. Prof. Ranbir Singh, National Law University, Delhi
5. Prof. Ajit K. Kembhavi, Director, IUACAA, Pune University, Pune
6. Prof. Anup Beniwal, Vice Chancellor, IP University, New Delhi
7. Prof. B. K. Kuthiala,Vice Chancellor, Makhanlal Chaturvedi Rastriya Patrakarita Evam Sanchar Vishwavidyalaya, Bhopal
8. Prof. Rajan Harshe, South Asian University, Delhi
9. Prof. Ravi Shanker, IIFT, Delhi
10. Prof. R. C. Kuhad (DUSC), University of Delhi
11. Prof. Arun Kumar Grover, Vice Chancellor, Panjab University
12. Dr. Talat Ahmad, Vice Chancellor, JMI, New Delhi
13. Dr. M. L. Ranga, Vice Chancellor, Hissar
14. Prof. M. C. Sharma, Professor, SOE, IGNOU, New Delhi
15. Mr. Pradeep Verma, Sr. Consultant, NME-ICT, Delhi
16. Dr. Sandeep Chopra, Sr. Scientist, IUAC New Delhi
17. Dr. Radhey Shyam Sharma, Vice Chancellor, CDLU, Sirsa
18. Prof. K. Mangal Sunder, IIT Madras
19. Prof. A. D. N. Bajpai, Vice Chancellor, H. P. University, Shimla
20. Prof. S. K. Sopory, Vice Chancellor, JNU, New Delhi
21. Prof. Dinesh Singh, Vice Chancellor, Delhi University, Delhi
22. Shri. R. S. Chahal, Vice Chancellor, MDU, Rothak
23. Prof. Uma Kanjila, Director, ACIIL IGNOU, New Delhi
24. Shri. Mohinder Singh, Vice Chancellor, Rewari
25. Dr. Dev Swarup, Vice Chancellor, Jaipur

7. Budget.

- **Capital Expenditure**
  Details to be captured item-wise :-
  Shall be put on the CEC website as and when applicable
  Focused comments on high cost equipment (More than Rs. 10 lakhs worth of items) (Specifications, reasonability of estimated cost) :-
  (More than Rs. 10 lakhs worth of items) (Specifications, reasonability of estimated cost) Not applicable.

- **Revenue Expenditure**
  Details to be captured item-wise :-
  Shall be put on the CEC website as and when applicable.
  Focused comments on :-
  total honorarium to be paid in the project:-

S. No.	Item	Amount per year (Rs. in Lakhs)	Duration (From date of Revision)	Duration (From date of Revision)	Total Amount (Rs. in Lakhs)
		Phase- I		Phase –II	
A. (i)	Development of Academic Content for e-learning	800.00	1Year	2 Years	3034.80
A. (ii)	Contingency, travel Aprox. 10%	133.625	1 Year	2 Years	711.60
	Sub Total A	**933.625**			**3746.40**
B. (i)	Recurring Expenses on account of engagement of Human Resource, material etc.	150.00	1 Year	2 Years	552.30
B. (ii)	Preview at Media Centre and CEC	78.00	1 Year	2 Years	426.45
	Sub Total B	**228.00**			**978.75**
C. (i)	ETV programme Production including Pre-Production, Recording, Music composition, Post Production,	**350**	1 Year	2 Years	855.70
C (ii)	Honorarium to PI, CO-PI and staff	**90**	1 Year	2 Years	422.65
	Sub Total C	**460.00**			**1278.35**
	TOTAL A + B + C	**1601.625**			**6003.50**

S. No.	Item	Amount (lacs) Phase – I	Amount Phase - II
D	Purchase/hiring/engaging the services/equipment/software's, not available at CEC and Media Centres	200.00	380.00
E	Academic, Production, Technical and Research workshops/training numbering 10 and 58 in Phase I & II respectively.	20.00	116.00
	Total A + B + C + D +E	**1821.625**	**6499.50**

Project Investigator (PI), Co-project Investigator (CO-PI), Media Centre and CEC Staff associated with the development of e-content etc., who work on the project, during time other than office hours and on holidays, would be entitled for incentives in form of consultancy fees/overtime allowance/honorarium, etc. The consultancy fees/honorarium may be paid to regular faculty/staff of Media Centre as is being paid to the faculty members of IIT's, IIM's, etc. on taking similar assignments.

- **Please indicate the Anchor Institution for disbursement of funds :-**
  Director, Consortium for Educational Communication

8. Cost benefit analysis including cost effectiveness approach viz-a-viz other alternatives

The produced e-content will be disseminated through various ICT modes to reach the learners across the country. It is felt that to increase the literacy of the masses in India, the cost of production of educational content electronically and making it to reach to the masses, shall be fractional to the cost of holding contact class or performing traditional teaching learning, to the same number of learners. The development of e-Contents shall help UGC and MHRD to address the issue of equity and access without compromising the quality.

9. Social Impact :-

The rural-urban and gender bias in higher learning can be overcome by the utilization of e-learning materials by the institutions situated in rural areas.

10. Outcome - Extent to which the project will realize the objectives of the Mission may be given explicitly :-
The Mission Statements "identifying Delivery Models with reference to Learner-Centric Goals" and also "Using generic content and creating methodology for any target, any audience and incorporating evaluation and assessment based alternative for multi-learning modes with multimedia support" shall be focused on and the project would ensure that the objectives based on the Mission Statement are realized.