

2. 調査日程

2. 調査日程

(1) 基本設計調査

日順	月 日 (曜)	内 容	
		官 団 員	コンサルタント
1	7/ 1 (日)	東京～ニューデリー移動 (AZ787)	
2	7/ 2 (月)	日本大使館, JICA事務所表敬訪問	
3	7/ 3 (火)	ジャミア・ミリア大学学長表敬訪問, MCRC打合せ	
4	7/ 4 (水)	団内打合せ, 調査準備	
5	7/ 5 (木)	MCRC打合せ, および施設調査 人的資源省(教育課)敬訪問	
6	7/ 6 (金)	MCRC打合せ, インデラガンジー放送大学視察 大蔵省(日本セクション)表敬訪問	
7	7/ 7 (土)	市場調査	
8	7/ 8 (日)	団内打合せ	
9	7/ 9 (月)	DDI (国営TV局), AIR (国営ラジオ局)視察	
10	7/10 (火)	MCRC打合せ < 議事録(案) >	
11	7/11 (水)	議事録調印	
12	7/12 (木)	日本大使館, JICA事務所表敬訪問	
13	7/13 (金)	ニューデリー～東京移動(AZ780)	MCRC打合せ
14	7/14 (土)		資料収集
15	7/15 (日)		MCRC詳細調査 { 教育, マスメディア, 国家計画, マンパワー計画, 輸送, 資機材費, 労務費, 光熱費 等
16	7/16 (月)		〃
17	7/17 (火)		〃
18	7/18 (水)		〃
19	7/19 (木)		〃 日本大使館, JICA事務所報告
20	7/20 (金)		ニューデリー～東京移動(AZ780)

(2) ドラフト説明

日順	月 日 (曜)	内 容
1	10/21 (日)	東京～ニューデリー移動 (AZ787)
2	10/22 (月)	日本大使館表敬打合せ, 大蔵省(日本セクション)表敬訪問, MCRC打合せ
3	10/23 (火)	MCRC打合せ, 人的資源省教育部表敬訪問
4	10/24 (水)	MCRC打合せ, 建物改修工事について確認
5	10/25 (木)	JICA表敬打合せ, MCRC打合せ, DDI (国営TV局)調査
6	10/26 (金)	MCRC打合せ, 議事録(案)作成協議
7	10/27 (土)	議事録調印, 日本大使館, JICA事務所報告
8	10/28 (日)	調査内容整理, 団内打合せ
9	10/29 (月)	ニューデリー～シンガポール移動 (AI432)
10	10/30 (火)	シンガポール～東京移動 (JL712)

3. 面会者リスト

3. 面会者リスト

Ministry of Human Resources (Department of Education)

Mr. S. G. Mankad Joint Secretary

Mr. Abhimanyu Singh Director

Ministry of Finance (Japan Section)

Mr. D. Subbarao Joint Secretary

Mr. A. P. Kulshreshth Director

Jamia Millia Islamia (Central University)

Dr. S. Z. Qasim Vice-Chancellor

Mass Communication Research Centre (MCRC)

Mr. A. J. Kidwai Hony Director

Mr. Prem Chandra Engineer-in-Charge

Mr. H. R. Kidwai Prof. Distance Educaiton

Mr. M. B. Mughal Administrative Officer

Mr. Aftab Yusuf Maintenance Engineer

Mr. Rajeev Lochan Lecturere in Graphics & Fine Arts

All India Radio (AIR)

Mr. Amrit Rao Shinde Director General

Mr. N. J. Nair Chief Engineer

Mr. M. P. Lele Deputy Director General

(Coordination)

Mr. C. R. Ramasiany Deputy Director General

(Inspection)

Mr. J. R. Mazakar

Deputy Director General

(Programme Production & Development)

Ms. Noreen Nadvi

Deputy Director

(Liaison)

Mr. V. P. Vachaspati

Sub-Engineer

Mr. K. C. Sharma

Assit. Station Director

Doordarshan India (DDI)

Miss Jaichandiram

Director, CPC

Mr. S. S. Swani

Superintending Engineer

Mrs. Palsamni

Assistant Engineer

日本大使館

寺西達弥

一等書記官

桜井孝

一等書記官

西郷正道

一等書記官

JICAニューデリー事務所

樋田俊雄

所長

4. 打合議事錄

4. 打合議事錄

MINUTES OF DISCUSSIONS
ON
THE PROJECT
FOR
PROVISION OF PROGRAMME PRODUCTION EQUIPMENT
FOR
MASS COMMUNICATION RESEARCH CENTRE
IN
THE JAMIA MILLIA ISLAMIA (CENTRAL UNIVERSITY)
IN
THE REPUBLIC OF INDIA

In response to the request of the Government of the Republic of India, the Government of Japan decided to conduct a Basic Design Study on the Project for Provision of Programme Production Equipment for Mass Communication Research Centre (MCRC) in the Jamia Millia Islamia (Central University) (hereinafter referred to as "the Project") and entrusted the study to the Japan International Cooperation Agency (JICA).

JICA sent to India the study team headed by Mr. Kohsaku Tanaka, Technical Official, Engineering Division, Broadcasting Bureau, Ministry of Posts and Telecommunications, from July 1 to July 20, 1990.

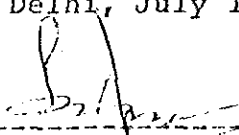
The team had a series of discussions with the authorities of the Project headed by Dr. S.Z. Qasim, Vice-Chancellor of the University (shown in ANNEX I) and also with the concerned authorities of the Government of the Republic of India. The team also conducted a site study on the facilities of MCRC.

As a result of the study, both parties agreed to recommend to their respective Governments that the major points of understanding reached between them, attached herewith, should be examined towards the realization of the Project.

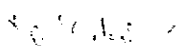
New Delhi, July 11, 1990

田中耕作

Mr. Kohsaku Tanaka
Leader of the
Basic Design Study Team
Japan International
Cooperation Agency



Dr. S.Z. Qasim
Vice-Chancellor
Jamia Millia Islamia
(Central University)



Mr. A.J. Kidwai
Hony Director
Mass Communication
Research Centre
Jamia Millia Islamia
(Central University)

1. The objective of the Project

The objective of the Project is to upgrade the programme production and training functions of the MCRC in order to reinforce its activities.

2. Major Items of Requested Equipment

- 1) Video Programme Production Equipment
- 2) Audio Programme Production/Dubbing Equipment
- 3) Post Production Equipment
- 4) Master Control Equipment
- 5) Editing Equipment
- 6) Outdoor Coverage Equipment
- 7) Still Photography Equipment
- 8) Presentation Facilities
- 9) Power Supply Equipment
- 10) Measuring Equipment

3. The Project site

The above mentioned equipment is to be installed/set in the new MCRC studio building which had been constructed by Indian side. (Shown in ANNEX II)


4. The Executing Agency

The Mass Communication Research Centre in the Jamia Millia Islamia (Central University) is responsible for the administration and execution of the Project.

5. The Japanese Team will convey to the Government of Japan the desire of the Government of India that the former takes necessary measures to cooperate by providing the above mentioned equipment within the scope of Japanese Economic Cooperation Programme in Grant Aid Form.

6. The Indian side has understood Japan's Grant Aid System explained by the Team which includes a principle of use of a Japanese Consultant Firm and a Japanese Contractor for the implementation of the Project.

7. The Government of India will take necessary measures listed in ANNEX III on condition that the Grant Aid would be extended to the Project.


A. G. K. S. K.

ATTENDANCE LIST

* JAMIA MILLIA ISLAMIA (CENTRAL UNIVERSITY)

Dr. S.Z. Qasim	Vice-Chancellor
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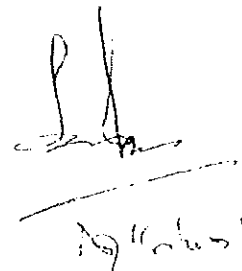
* MCRC

Dr. S.Z. Qasim	Chairman
Mr. A.J. Kidwai	Hony. Director
Mr. Prem Chandra	Engineer in charge
Mr. M.B. Mughal	Administrative Officer
Mr. H.R. Kidwai	Professor Distance Education
Mr. Aftab Yusuf	Maintenance Engineer

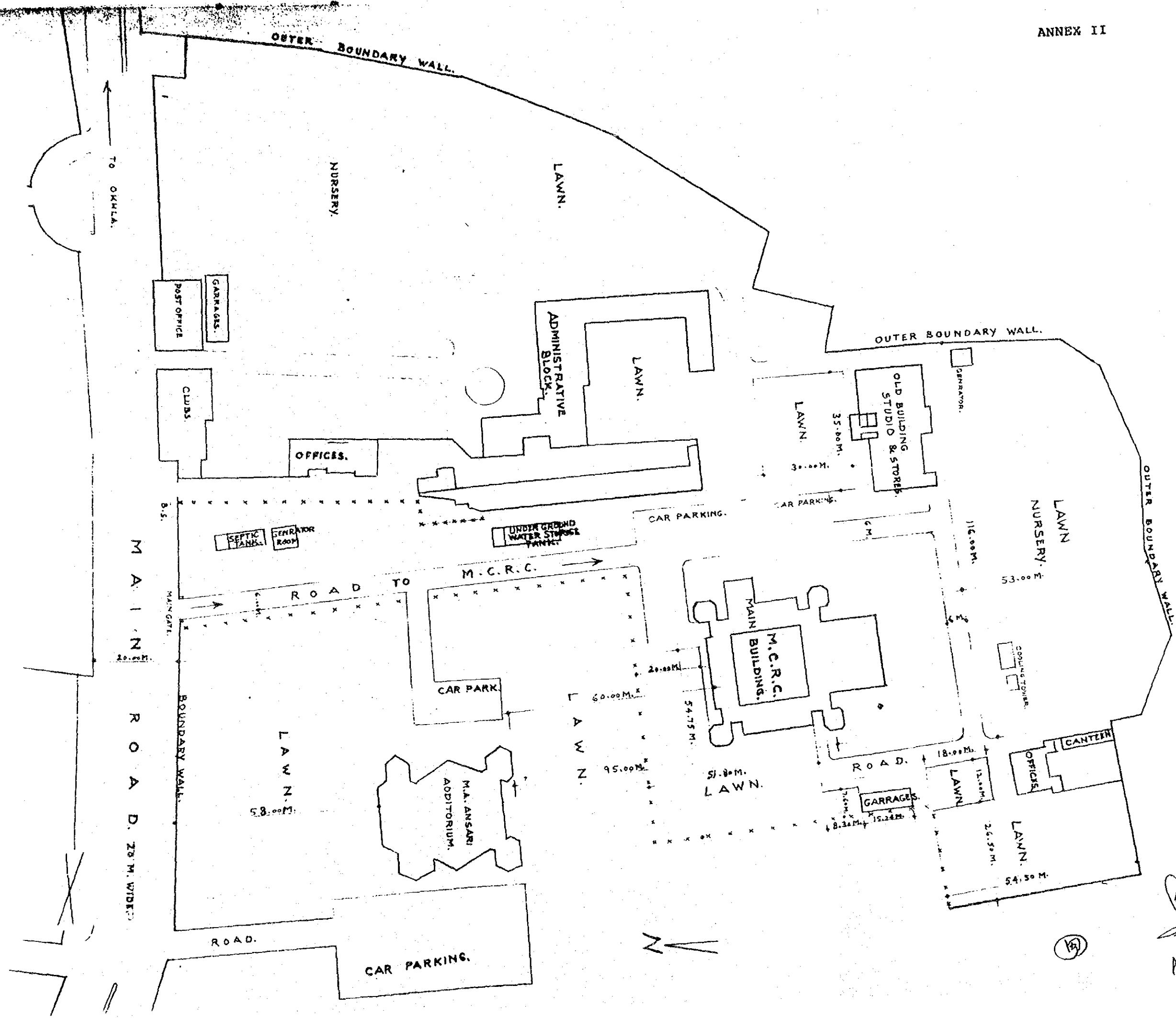
* JICA TEAM

Mr. Kohsaku Tanaka	Leader
Mr. Akimichi Nagasawa	Member
Mr. Toshimichi Aoki	- do -
Mr. Naohiko Shimada	- do -
Mr. Jira Ohno	- do -
Mr. Akira Nagase	- do -

(15)



Handwritten signature and date: 19/10/85

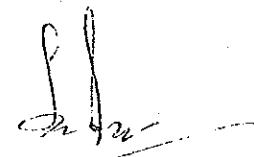


[Handwritten Signature]
 11

Undertakings of Indian Side are:

1. To provide facilities for distribution of electricity, water supply, telephone, drainage, sewage and other incidental facilities to the Project site.
 - 1) Electricity distributing line to the site.
 - 2) City water distribution main to the site.
 - 3) Drainage city main to the site with deep consideration of environmental pollution.
 - 4) Telephone trunk line to the main distribution panel of building.
 - 5) General furniture such as carpets, curtains, tables, chairs and others.
 - 6) Modification of building, if necessary.
 - 7) Suitable space for equipment.
2. To bear commissions to the Japanese foreign exchange bank for the banking services based upon the Banking Arrangement (B/A).
3. To exempt taxes and to take necessary measures for custom clearance of the materials and equipment brought for the Project at the port of disembarkation.
4. To accord Japanese Nationals whose services may be required in connection with the Project under the verified contract such facilities as may be necessary for their entry into India and stay therein for the performance of their work.
5. To maintain and use properly and effectively those equipment purchased under the Grant.
6. To bear all the expenses other than those to be borne by the Grant, necessary for the transportation and the installation of the equipment.

(17)


Ag/16/16

MINUTES OF MEETING
ON
THE DRAFT FINAL REPORT ON THE BASIC DESIGN STUDY
ON
THE PROJECT FOR PROVISION OF PROGRAMME PRODUCTION EQUIPMENT
FOR
MASS COMMUNICATION RESEARCH CENTER
IN
JAMIA MILLIA ISLAMIA (CENTRAL UNIVERSITY)
IN
INDIA

In response to the request of the Government of India on the Project for Provision of Programme Production Equipment for Mass Communication Research Centre in Jamia Millia Islamia (Central University) in India (hereinafter referred to as the "Project"), the Government of Japan decided to conduct a basic design study on the Project and entrusted the study to the Japan International Cooperation Agency (JICA). JICA sent to India the study team headed by Mr. Kohsaku TANAKA, Technical Official, Engineering Division, Broadcasting Bureau, Ministry of Posts and Telecommunications, from July 1 to July 20, 1990.

As a result of the study, JICA prepared a draft final report and dispatched a team headed by Mr. Kohsaku TANAKA, Technical Official, Engineering Division, Broadcasting Bureau, Ministry of Posts and Telecommunications, to explain and discuss it from October 21 to October 29, 1990.

Both parties had a series of discussions on the report and agreed to recommend to their respective Governments that the major points of understanding reached between them, attached herewith, should be examined towards the realization of the Project.

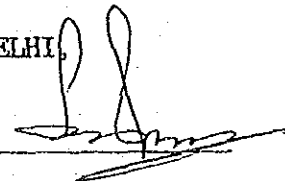
The Team express its sincere thanks for the undertakings given to the Team by Indian side during the study period, and Indian side express its sincere thanks for technical cooperation made by JICA to execute the Basic Design Study.

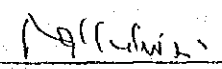
October 27th, 1990

NEW DELHI,

田中耕作

Mr. Kohsaku TANAKA
Leader,
Draft Final Report
Explanation Team,
JICA


Dr. S.Z. Qasim
Vice-Chancellor
Jamia Millia Islamia
(Central University)


Mr. A.J. Kidwai
Hony. Director
Mass Communication
Research Center
Jamia Millia Islamia
(Central University)

ATTACHMENT

1. As a result of a series of discussion, the Draft Final Report was accepted in principle and agreed upon by both parties to prepare the Final Report in line with the basic concept mutually agreed on, a careful check of the contents of the Draft Final Report in accordance with the result of the supplementary study carried out on this occasion.

2. The Indian side has understood Japan's Grant Aid System and confirmed that the necessary measures will be taken by the Indian side as shown in Annex III of the Minutes of Discussions on the Project signed on July 11, 1990 on condition that the Grant Aid by the Government of Japan be extended to the Project.

3. The Final Report on the Project will be submitted to the Indian side by the middle of January, 1991.



(12)

ATTENDANCE LIST

JAMIA MILLIA ISLAMIA (CENTRAL UNIVERSITY)

Dr. S. Z. Qasim Vice-Chancellor

MCRC

Dr. S. Z. Qasim Chairman

Mr. A. J. Kidwai Hony. Director

Mr. Prem Chandra Engineer in charge

Mr. M. B. Mughal Administrative Officer

Mr. H. R. Kidwai Professor Distance Education


Mr. Aftab Yusuf Maintenance Engineer

JICA TEAM

Mr. Kohsaku Tanaka Leader

Mr. Naohiko Shimada Member

Mr. Jiro Ohno Member



(13)

5. 収集資料リスト

5. 収集資料リスト

1. Statistical Outline of India (1989-90)

TATA SERVICES LIMITED (Dept. of Economics & Statistics)

2. Pocket Book of Labour Statistics 1989
3. National Account Statistics
4. Statistical Abstract India 1987
5. Eighth Plan Perspective
6. Information India 1989
7. India Economic Information Year Book 1989-90
8. Education & Manpower Planning
9. Adult Education
10. Educational Technology
11. Management of Higher Education in India
12. Educational Administration, Supervision and School Management
13. Universities Handbook
14. Labour Bureau's Labour
15. Mass Communication Research Centre Catalogue (84~88)
16. Mass Communication Research Centre Prospectus (1990~91)
17. A Brief Review of Jamia Millia Islamia Univ.
18. Stricking a Golden Chord by AIR
19. India Calling (1990) by AIR
20. IGNOU (Opening New Horizons in Education)
21. IGNOU (Backelor's Degree Programme)
22. IGNOU
23. IGNOU (School of Management Studies)
24. IGNOU (Diploma Programme in Rural Development)
25. IGNOU (Quest for Learning Knows No Bounds)

26. Country Wide Class Room Educational Video Programme
27. UGC (ACWCR, a window in the world)
28. UGC (CWCR, Video Festival)
29. MCRC List of Produced Programmes
30. Script for MCRC Programme (Sample)

6. インド国データ

- (1) インド国主要データ
- (2) 新聞の発行部数および使用言語
- (3) MCRCにおける停電回数
- (4) MCRC制作番組リスト

6. インド国データ

(1) インド国主要データ

- 独立年月日 1947年8月15日
- 面積 328万7263平方キロメートル(日本の約9倍)
- 人口 8億1000万人(1988年推定)
- 主要言語 ヒンディー語(連邦公用語)の他に憲法で14の言語を州において使用することが認められている。
- 主な宗教 ヒンズー教(82.6%)、イスラム教(11.4%)
キリスト教(2.4%)、シーク教(2.0%)
- 政体 共和制(連邦制)
- 国会 二院制、連邦議会(上院244議席、下院544議席)
- 主要政党 コングレス党、共産党、ジャナタ党など
- 元首 ラマスワーミー ベンカタラマン大統領
- GNP 2714億4000万ドル(1988年)
- 一人当たりのGNP 330ドル(1988年)
- 主要産業 農業(小麦、米、砂糖、綿花、紅茶)
- 輸出額 89億5600万ドル
(1986年) [主要輸出品目] 繊維製品、宝石、貴石、紅茶
[主要相手国] アメリカ、ソ連、日本、イギリス
- 輸入額 160億6600万ドル
(1986年) [主要輸入品目] 石油製品、資本財、肥料、鉄鋼
[主要相手国] アメリカ、日本、ソ連、西ドイツ

(2) 新聞の発行部数および使用言語

(単位：千枚)

年	種別	日刊紙	週刊紙	隔週紙	月刊紙	年刊紙	その他	合計
1981		10,672	10,148	3,019	11,404	360	1,834	37,407
1982		11,242	11,413	3,465	12,456	380	1,892	40,150
1983		13,033	12,924	4,499	13,428	418	2,147	46,449
1984		14,531	14,303	4,989	14,792	357	1,949	50,921
1985		15,255	15,320	4,627	14,061	245	1,594	51,102
1986		14,847	14,387	4,712	13,960	407	1,781	50,094
1987		16,731	15,372	4,955	15,807	399	2,127	55,391
1988		18,727	18,078	5,645	16,083	424	2,190	61,147
言語別発行部数 (1988年)								
	ヒンズー語	5,424	5,407	1,850	4,498	2	227	17,408
	英語	3,582	1,883	1,271	3,886	141	1,101	11,864
	アッサム語	123	94	40	63	-	15	335
	ベンガル語	1,197	968	555	698	2	233	3,653
	グジャラティ語	1,226	893	211	567	38	87	3,022
	カンナダ語	627	785	71	619	37	16	2,155
	カシミール語	-	-	-	-	-	-	-
	マラヤラム語	1,586	2,703	494	1,154	-	28	5,965
	マラティ語	1,417	418	55	636	201	42	2,769
	オリヤ語	342	39	20	315	2	53	771
	パンジャビ語	387	569	55	439	-	7	1,457
	サンスクリット語	2	5	-	1	-	1	9
	シンディ語	35	42	4	15	-	1	97
	タミール語	1,126	1,861	498	1,263	-	25	4,773
	トゥルグー語	485	1,004	284	692	-	29	2,494
	ウルドゥー語	1,057	930	139	391	1	61	2,579
	その他	111	477	98	846	-	264	1,796

(3) MCRCにおける停電回数

		停電回数	総時間	
1988年	4月	15	28時間35分	
	5月	14	23時間25分	
	6月	23	42時間20分	
	7月	10	18時間55分	
	8月	17	26時間15分	
	9月	6	12時間15分	
	10月	1	2時間15分	
	11月	2	4時間45分	
	12月	3	6時間05分	
	1989年	1月	9	28時間10分
		2月	9	23時間00分
		3月	10	21時間45分
		119	平均 2時間 237時間45分	
1989年	4月	6	9時間25分	
	5月	8	14時間05分	
	6月	7	6時間35分	
	7月	10	22時間15分	
	8月	14	40時間20分	
	9月	7	15時間30分	
	10月	3	10時間00分	
	11月	9	13時間40分	
	12月	10	19時間25分	
	1990年	1月	8	26時間00分
		2月	4	11時間30分
		3月	8	17時間05分
		94	平均 2時間11分 205時間50分	
1990年	4月	8	18時間35分	
	5月	17	72時間00分	
	6月	5	21時間20分	
		30	平均 3時間43分 111時間55分	

Agriculture

Pomology — The Science of Fruits

14:00 min.

JMI 6591

1988

Introduces briefly the science of Pomology and discusses research on mango and papaya.

Agriculture and Biotechnology — Part I

21:22 min.

JMI 6568

1988

This programme is about techniques of crop improvement through genetic alteration and photoplast fusion technology.

Agriculture and Biotechnology — Part II

12:17 min.

JMI 6568

1988

This programme is about cybrid which is a hybrid of cytoplasm and is known to provide characteristics like sterility, resistance, salt tolerance and the ability to fight pests.

The Father of Green Revolution

25:18 min.

JMI 6162

1986

Noble Laureate, Dr. Norman Borlaug, talks about his researches in developing new types of wheat which have transformed the cropping system in India and several parts of the world.

Dewatering by Well Point System

14:10 min.

JMI 6127

1984

Removal of subsoil water is carried out to lower the water table. The programme deals with a technique of lowering the water table by Well Point System.

Wasteland Development/Usar Land Development

28:22 min.

JMI 3291

1987

A science programme on research and development of wasteland. The film was shot around Lucknow and Aligarh in Uttar Pradesh.

Betelvine Cultivation — Part I

17:00 min.

JMI 3248

1987

Various experiments are being carried out on Pan leaf by the National Botanical Research Institute in Lucknow. These experiments are conducted in order to increase

pan cultivation which has greatly declined due to diseases and lack of proper nourishment.

Betelvine Cultivation — Part II

15:00 min.

JMI 3273

1987

Pan is the agricultural crop of Mahoba and the major source of livelihood of its people. Keeping this in mind, the N.B.R.I. Lucknow have set up a project to improve pan cultivation.

Anthropology

Stone Age Tools

20:30 min.

JMI 3011

1986

Earliest tools used by man were made of stone. Tools for making holes in animal skins and their later improvement into blades are two of the several examples cited in the programme.

Art

Creative Process

15:00 min.

JMI MCRCOZ

1984

The film traces the process that goes into any creative effort based on works of the eminent Indian painter, A. Ramachandran, the film moves from social reality to individual motifs and then to canvass.

Two Contemporary Artists

10:00 min.

JMI 6396

1986

Paramjit Singh and Arpita Singh talk about their paintings and about their styles; about their lives and how their art has evolved over the years.

Graphic Perspective

07:30 min.

JMI 3046

1985

This programme is an attempt to teach perspective drawing — representing three dimensional reality in the two dimensions of a painter's canvas.

Satish Gujral

17:37 min.

JMI 3390

1988

The film deals with the life and work of Satish Gujral.

Astronomy

Comets

19:09 min.

TVP 60/11

1985

Dr. Richard W. West discoverer of Comet West explains how astronomers in modern times watch comets and what we can learn from them. In the course of his lecture he also talks about the history of the discovery of comets.

Measuring the size of Stars

32:08 min.

TVP 60/12

1985

Prof. Robert Brown, President, International Astronomical Union discusses problems in astronomy which have interested people for hundreds of years ever since they looked at the sky.

Biology

Butterfly Migration

18:05 min.

JMI 3060

1984

It is difficult to imagine that butterflies could travel vast distances in enormous numbers. The programmes take a look at the most celebrated migrant butterfly, the American Monarch called *Damaus plexipus*. It also discusses the Indian butterfly migration.

The Father of Green Revolution

25:18 min.

JMI 6162

1986

Nobal Laureate, Dr. Norman Borlaug, talks about his researches in developing new types of wheat which have transformed the cropping system in India and several parts of the world.

Proteins — Their Chemical Nature and Structure

13:16 min.

JMI 3094

1985

Proteins serve a myraid of functions vital to life. This programme explains these functions and also the composition of proteins and their chemical structure.

Life its Unity and its Diversity

20:00 min.

JMI 3075

1985

Life is manifest in diverse forms but there is a unity in this diversity. The works of Darwin, Mendel, Watson and Crick are explained in the programme so that the student can appreciate the basic elements of life sciences.

Seeds — Part I

12:03 min.

JMI 2199

1985

Seeds are in a state of suspended animation. Are they living or dead? What is a seed? How it is formed? These are the questions to which answers are attempted in this programme.

Seeds — Part II

09:30 min.

JMI 2037

1986

Some seeds can remain in suspended animation for millions of years. Various experiments devised to determine the longevity of seeds are explained.

Seeds — Part III — The Building Blocks

13:00 min.

JMI 6403

1987

This episode in the series of programmes on "Seeds" talks about the causes of dormancy and quiescence in seeds.

Hair : Cables of Information

12:00 min.

JMI 3229

1986

Hair can be used to determine nutritional status, disease symptoms and also environmental contamination. In the studies of trace elements hair is an important tool for investigation.

Test Tube Plants

19:50 min.

JMI 3055

1984

Plants are totipotent — i.e. any cell of the plant can be made to become a plant by using chemical methods of plant tissue culture — a method which is useful in hybridising plants from two different species.

Taste and Smell Perception of Insects

18:38 min.

JMI 3015

1984

This programme deals with the aspects of physiology of taste and smell in insects and also the explanation of conduction of nerve impulse.

Medicinal Plants

24:30 min.

JMI 3053

1986

More than a dozen of medicinal plants of the Indian peninsula are biologically screened. Their important derivatives alongwith their application are discussed.

The Future Tense : Derelict Ecosystem

20:40 min.

JMI 3053

1986

A laboratory technique to introduce and grow vegetation on the barren lands in the Himalayan region.

Isolation of Lymphocytes

13:00 min.

JMI 3330

1987

A lesson on Bleeding, Defibrination and the technique of isolation of a particular kind of white cells called Lymphocytes.

The New Biology Exhibition

20:00 min.

JMI 6453

1987

At the New Biology Exhibition held in Delhi in early 1987, Prof. Mohan Ram explains the Cell structure. He also talks about D.N.A., R.N.A. and tissue culture.

Muscles : How do they function

15:00 min.

JMI 3089

1987

This programme has two objectives : location of the major muscles along with general introductory details and the microscopic structure of a muscle fibre.

Discovering Snakes

20:40 min.

JMI 3279

1986

Most people have an obsessive fear or a fascination for snakes. Discovering Snakes is a film which seeks to have a better understanding of snakes.

The Nitrogen Cycle

13:00 min.

JMI 3219

1986

The Nitrogen Cycle comprises of four major processes : (i) Ammonification, (ii) Nitrification, (iii) Denitrification, (iv) Fixation. These processes have been discussed in some detail in this programme.

Birds Of The Night Part-I

15:00 min.

JMI 3003

1987

Bats, unfortunately are one group of very misunderstood animals. However, contrary to the popular belief, bats are harmless and in many cases beneficial.

Birds Of the Night Part-II

15:00 min.

JMI 3388

1987

The second part of the programme on bats deals with research on the behaviour and biology of bats.

Introducing Immunology — Part I

13:40 min.

JMI 3263

1987

This programme defines what is Immunity and how it develops. Also talks about the nature of antibody molecules and the recognition of antigens by antibodies.

Introducing Immunology — Part II

12:00 min.

JMI 3385

1988

This programme explains clonal selection a theory and activation of T and B cells.

Induced Breeding in Frogs

10:37 min.

JMI 3295

1987

This programme describes various experiments related to artificial reproduction in frogs.

Classification of Plants (Taxonomy)

13:30 min.

JMI 3228

1986

An instructional programme about the principles of taxonomy.

Plants in our neighbourhood — Part I

13:49 min.

JMI 3044

1988

We know very little about the plants that we see around us. This series deals with such plants their medicinal, commercial and other uses. Part I deals with following plants :

Nyctanthes arbor-tristis

Bauhinia purpurea

Alstonia scholaris

Lantana camara

Plants in our neighbourhood — Part II
14:14 min.

JMI 3401
1988

Part II deals with the following plants :

Erratamia coronaria
Ficus bengalensis
Ficus relligiosa
Ficus racemosa
Thespesia populnea
Euphorbia pulcherrima
Pongamia pinnata

Plants in our neighbourhood — Part III
15:25 min.

JMI 6585
1988

Part III deals with the following plants :

Jacaranda mimosifolia
Cassia fistula
Laegostroemia speciosa
Laegostroemia indica
Nerium indicum
Nerium oleander
Thevetia peruviana
Albizzia lebbeck

Plants in our neighbourhood — Part IV
15:15 min.

JMI 6591
1988

Part IV deals with the following plants :

Calotropis procera
Plumeria acutifolia
Plumeria rubra
Plumeria alba
Jasminum sambal
Delonix regia
Quisqualis indica
Gardenia jasminoides

Plants in our neighbourhood — Part V
12:45 min.

JMI 6582
1988

Part V deals with the following plants :

Dicrostachys cineria
Punica granatum
Caesalpinia pulcherrima
Terminalia arjuna

Carreers and Professions

For the Love of Animals

18:34 min.

JMI 6583

1988

A motivational programme on veterinary science as a profession.

Takeoff

14:07 min.

JMI 3420

1988

A programme about a day in the life of fighter pilot

Chemistry

Simple Experiments with Carbon Electrodes and Fused Bulbs

20:00 min.

JMI 3070

1984

Fused electric bulbs and carbon electrodes from used dry cells can be used to do simple experiments at home. The entire process of making an effective electrode after it is pulled out of a dry cell is shown.

Plastics

20:00 min.

JMI 3017

1985

Plastics have interesting Chemistry and many applications in industry as well as the home.

Proteins — Their chemical nature and structure

13:16 min.

JMI 3094

1985

Proteins serve a myraid of functions vital to life. This programme explains these functions and also the composition of proteins and their chemical structure.

The story of copper

22:20 min.

JMI 3045

1986

This programme is about the different ways of mining copper, purification of the ore and the importance of copper in our daily life.

Self organisation in Chemical Systems

10:18 min.

JMI A 10

1984

This programme introduces the student to self organisation phenomena in chemical systems using Shabotinski reaction. The principle underlying self organisation of chemical systems can be applied to biological and social systems.

Shapes of Molecules

19:30 min.

JMI 3068

1984

A programme on molecular structure. How the structure and shape of molecules of certain compounds can be predicted.

Cinema

Reflection on Eisenstein

14:28 min.

JMI 6585

1988

A discussion on the multifaceted personality and films of Sergei Eisenstein

Communication

A Prophet of the Space Age — Part I

20:02 min.

JMI 3089

1987

Prof. Arthur C. Clarke a well known science writer has a free-wheeling discussion with Prof. Yashpal about his writings, films, experiences, inclinations and shares his perspective on the development of technology and the global situation.

A Prophet of the Space Age — Part II

21:00 min.

JMI 3271

1987

In this part of the programme, Prof. Arthur C. Clarke describes his pioneering work on the future of world communications. He also talks about the 'space elevator' — a concept he has already introduced in his science fiction stories.

People's Science
24:40 min.

JMI 3230
1986

Scientists, doctors, engineers, university and college teachers get together for a 'People's Science' Workshop held at Jamia Millia Islamia, New Delhi in May 1985. Problems like pollution, deforestation, Bhopal Gas tragedy and many others are discussed.

Computers

Microprocessors
17:30 min.

JMI 3074
1985

Today's computers are a far cry from the machines of the early 50's. Development in microelectronics have led to the introduction of machines known as microcomputers.

Craft

"Gods of Clay" Pottery-Part I
18:00 min.

JMI 3316
1987

The life of a traditional potter is quite miserable but this does not affect the enthusiasm for his work.

"Gods of Clay" Pottery-Part II
20:00 min.

JMI 3335
1987

Continuation of pottery—Part I, this programme is about modern trends in pottery, studio pottery in particular.

Time Present, Time Past
10:00 min.

JMI 6444
1986

A brief insight into objects of daily use in the past which were long lasting, beautiful and functional. These have now been replaced by mass produced plastic objects.

Preserving a Priceless Legacy
10:00 min.

JMI 6412
1986

Mr. S.S. Hitkari, a collector of art, describes how he began collecting, the relevance of art exhibitions, the value of folk art and the relevance of handicrafts.

Dance

Abhinaya

12:50 min.

JMI 6592

1988

This programme is about the use of Abhinaya in Indian Dance, using the five classical styles of Bharatnatyam, Kathak, Kathakali, Odissi and Manipuri as illustrations.

East Meets West

10:00 min.

JMI 6412

1986

Veronique Azan, a young French disciple of Shri Birju Maharaj talks to Vibha Sharma about her involvement with Kathak dance. Ms. Azan then provides a rendition of Gathbhava with a preceding explanation.

Economics

What is Gatt?

18:00 min.

JMI 3274

1986

A programme on GATT—General Agreement of Trade and Tariff in a discussion format.

Understanding Money—Part I: Doing Without Money-Barter System

15:00 min.

JMI 3371

1987

The programme traces the origin of money. Characteristic features of the barter system are highlighted and examples of the system prevailing today are given.

Understanding Money—Part II The Invention of Money

24:00 min.

JMI 6565

1988

After discussing the limitations of commodities as money, this programme deals with metal money; its merits and limitations and the process involved in its manufacture.

Education

Yesterday, Today and Tomorrow
(In Collaboration with Roorkee University)
20:32 min.

JMI 3068
1985

This programme traces the history and working of one of the oldest technological universities in India which started as the first engineering college in the whole of the British empire—The Roorkee University.

Engineering Taught From a Distance
29:33 min.

JMI 6586
1986

Dr. Harvey R. Stone from University of Massachusetts talks about continuing and distance education in engineering in order to update knowledge which becomes obsolete rather quickly, especially in the field of technology.

Madhuri Shah in Conversation with Mrs. Mulay
40:00 min.

UGC—171
1986

Dr. Madhuri Shah, Chairman, University Grants Commission talks about the role of mass media in higher education. She also replies to the queries raised by the viewers of the Countrywide Classroom.

Prof. K. Gopalakrishnan in Conversation with Mrs. Vijaya Mulay
18:00 min.

TVP—60/76
1986

Reviews the performance of Higher Education Countrywide Classroom television programmes.

UGC Insat Television Programme
24:32 min.

JMI 6367
1986

Mr. A.J. Kidwai, Chairman, Mass Communication Research Centre talks with Prof. Yashpal on the growth and developments of the higher education INSAT—1B television programme.

What's wrong with me
19:00 min.

JMI 3328
1987

This is a film on various stages of development in children, tests for the various stages and how they can be used to detect minor disabilities.

The Fight Against Illiteracy

18:00 min.

JMI 3303

1987

Adult Education is not a new concept. How 'Ankur' a women's organization is working for the social upliftment of women through the medium of Adult Education.

Education Through Television

19:00 min.

JMI 3337

1988

The 'television teacher' is a special element in the production of educational television. What are his responsibilities? What are the hazards of instructional TV?

Educational Technology

22:00 min.

JMI 3031

1987

Dr. Jenny Johnson of the University of Maryland talks about Educational Communication, Instruction Designing and the importance of Instruction Designing in traditional classroom lectures and distance education.

A Classroom From the Skies

21:04 min.

JMI 3377

1988

A programme based on the clippings of programmes from different media centres produced for the fourth anniversary of countryside classroom.

Of Men and Machines

19:05 min.

JMI 6580

1988

A programme on the education and training of car mechanics.

Engineering

Engineering Taught From A Distance

29:33 min.

JMI 6568

1986

Dr. Harvey R. Stone from University of Massachusetts talks about the continuing and distance education in engineering in order to update knowledge which becomes obsolete rather quickly, especially in the field of technology.

Atterberg's Limits

24:24 min.

JMI 3028

1984

Demonstrates the idea of the range of water content held by different fine grain soils.

Dewatering by Well Point System
14:10 min.

JMI 6127
1984

Removal of subsoil water is carried out to lower the water table. The programme deals with a technique of lowering the water table by Well Point System.

Floods and Their Computations
21:50 min.

JMI 3083
1986

Apart from tracing the causes of floods in India this lecture also describes the computation related to floods through approaches like empirical relations, Rational formula and Unit Hydrograph theory.

Low Cost, Fire Proof, Cyclone Proof Housing
23:53 min.

JMI 3054
1985

Central Building Research Institute has developed techniques for low cost housing, such as for the making of building blocks, for constructing fire-proof thatched houses and for houses that can withstand cyclones in the coastal regions of India.

Environment

Our Fragile Atmosphere
13:32 min.

JMI 6046
1985

Survival on this planet requires planning and this programme seeks to project the conflict between environmental protection and economic change—a dilemma in modern times.

A Return to Nature
19:14 min.

JMI 3249
1986

The present energy crisis has led to ways of conserving energy by using alternate sources such as biogas, solar energy, wind and water powered engines.

Wasteland Development/ Usar Land Development.
28:22 min.

JMI 3291
1987

A science programme on research and development of wasteland. The film was shot around Lucknow and Aligarh in Uttar Pradesh.

The Future Tense: Derelict Ecosystem
20:40 min.

JMI 3053
1986

A laboratory technique to introduce and grow vegetation on the barren lands in the Himalayan region.

Energy in Nature's Web
09:30 min.

JMI 3315
1987

The programme tries to explain the energy cycle in nature, starting from its source—the sun.

The Ozone Story
13:32 min.

JMI 6046
1985

Modern industrial activity has led to depletion in the ozone layer. But first, what is ozone and how it is formed? What are the properties of ozone and how it is monitored with the help of balloons?

Voyage of Discovery
20:00 min.

JMI 3088
1987

The film deals with the scientific work going on in Antarctica and Antarctica's role both scientific and political in the near future.

A Walk Through the Ridge
20:00 min.

JMI 3342
1987

A nature walk with middle and senior school children of Sardar Patel Vidyalaya on the Delhi Ridge. Their instructor gives them an insight into the ecology, flora and fauna of the area.

Protecting the Eco-System
20:00 min.

JMI 3399
1987

A film on environmental groups of young people in Delhi and the issues they have taken up with respect to preservation of natural forest belts, pollution etc.

A Time to Heal
20:00 min.

JMI 6394
1986

The programme deals with the relationship of river Yamuna with the city of Delhi. Increasing population and corresponding increase in industrial activity has upset the ecological balance and resulted in severe pollution of the river.

General Awareness

Understanding System

18:10 min.

JMI 2093

1984

Why is it that the word 'System' can be used in so many different ways? Probably there is a core meaning of the word which applies to a number of processes. But what is a system any way?

Our Voices

08:11 min.

JMI 2327

1986

This programme enables the student to recognize the various characteristics of human voice. It introduces, in a humourous way, some of the terms and concepts which may be used in the analysis of human speech.

"Mail" — Part I

14:04 min.

JMI 3471

1988

"Mail" Part II

14:10 min.

JMI 3418

1988

A general awareness documentary on the operations of the Postal system.

Geography

Concept of India in World Maps—Part-I

30:40 min.

JMI 6092

1985

Concept of India in World Maps—Part II

30:40 min.

JMI 6092

1985

When the first maps of India were drawn, they were quite unlike the present one which is a product of cartographic evolution over a period of time. The programme traces the history of map making with reference to India.

Peasant Life in India

20:22 min.

JMI 3016

1984

The culture, social set up and life styles of peasants from Kashmir to Kanyakumari and Rajasthan to Arunachal Pradesh are different. Regional pattern of the village, costumes and headgear, agricultural practices and modes of transport constitute the unbelievable diversity of India.

Natural Landscape
28:30 min.

JMI 3099
1984

From snow capped Himalayan peaks to the blue waters of Indian ocean; from the dense monsoon forests in the east to the salt marshes in the west, this programme depicts the diversity of India.

Loom of Languages
21:08 min.

JMI 3077
1984

This programme is part of a series which traces the unity and diversity as a characteristic feature in India. The different languages of India have certain unifying characteristics which have been highlighted in the programme.

Geology

Earthquakes
20:00 min.

JMI 3067
1984

Besides tracing the history of earthquakes, the programme also dwells on the science of sudden transient motion spreading into all possible directions causing earthquakes.

Wandering Continents
16:00 min.

JMI 3012
1985

The continents on the map have not always looked as we know them today. The shapes continents have now is a result of gradual shifting of the continents from Pange, to the sea of Tethys and Gondwanaland.

Geological Research In the Himalayas
27:00 min.

JMI 60/100
1987

The programme aims at describing scientific research on the relatively unknown areas in different parts of the world; such as compilation of geological maps of the Himalayas.

History

Concept of India in World Maps — Part I
30:40 min.

JMI 6092
1985

Concept of India in World Maps — Part II
30:40 min.

JMI 6092
1985

When the first maps of India were drawn, they were quite unlike the present one which is a product of cartographic evolution over a period of time. The programme traces the history of map making with reference to India.

Glimpses of Freedom Movement
24:15 min.

JMI 3057
1985

A film on the liberal Muslim leaders of 1920's and 30's in Delhi and their participation in the freedom struggle of India.

A Journey Through Shahjehanabad—The Red Fort
20:00 min.

JMI 3264
1986

Akhilesh Mittal takes a walk in the Red Fort and talks about the historical and architectural significance of this citadel of Shahjahanabad.

Quit India Movement—Part I
18:30 min.

JMI J14
1986

After 1857 the Quit India Movement of 1942 was the most powerful manifestation of struggle for independence. Prof. Bipin Chandra of Jawaharlal Nehru University talks about the events leading to the Quit India Movement.

Quit India Movement—Part II
18:30 min.

JMI J14
1986

On 8th August 1942 the All India Congress Committee passed a resolution that the British should quit India. This was the beginning of the Quit India Movement. Prof. Bipin Chandra examines the historical events.

Purana Quila—A Historical Legend
10:30 min.

JMI 3384
1987

This film deals with Purana Quila as a historical monument and talks about the architecture of the various buildings in it. It further goes on to discuss the excavations conducted here during 1969 and 1972.

Medicinal Plants

24:30 min.

JMI 3053
1986

More than a dozen of medicinal plants of the Indian peninsula are biologically screened. Their important derivatives along with their applications are discussed.

A Vision of Tomorrow

12:00 min.

JMI 3351
1987

Seventy per cent of the nearly one crore blind persons in India can be cured by simple operations. Twentyfive lakh persons suffering from corneal opacity can see again if people were to donate their eyes after death.

Just 45 Minutes

20:00 min.

JMI 3347
1987

The Indian Cancer Society has set up free detection clinics where Cancer detection is carried out in just forty-five minutes.

The Brain

20:18 min.

JMI 3317
1987

What are the parts of human brain and how they function in normal persons. Recent developments in medical sciences make it possible to investigate functional defects of the Central Nervous System.

The Shahjahanpur Story

14:00 min.

JMI 3334
1987

Malaria Research Centre in Shahjahanpur has made remarkable progress in the control of Malaria in the villages of Shahjahanpur district using bio-control techniques.

Schizophrenia

20:45 min.

JMI 3038
1987

Schizophrenia is a disease like any other physical ailment. It can be cured if treated in time. Its causes and treatments are discussed in this film.

Bad Throat and Your Kid's Heart

30:00 min.

JMI 3311
1987

This programme examines in detail the causes leading to Rheumatic Fever and Rheumatic Heart Diseases (RHD). Aimed towards school teachers and parents it also talks about the research on Rheumatic Fever and RHD.

Leprosy: Journey From Despair to Hope
29:50 min.

JMI 3283
1987

The programme dwells on the present status of research in India on the disease of Leprosy and the contribution of scientists of the Indian Council of Medical Research towards reducing the incidence of the disease.

Blood is for Circulation
10:53 min.

JMI 6394
1986

A programme on blood donation. It tries to dispel common fears and prejudices associated with blood donation.

Shertally Legs
20:00 min.

JMI 3312
1987

A programme on the eradication of the disease Filariasis in Shertalley Taluk of Pondicherry and the measures taken by the Vector Control Research Centre, Pondicherry, India.

Hair: Cables of Information
12:00 min.

JMI 3229
1986

Hair can be used to determine nutritional status, disease symptoms and also environmental contamination. In the studies of trace elements hair is an important tool for investigation.

Yoga
10:00 min.

JMI 6396
1986

Yoga can cure many problems related to the spine.

For the Love of Animals
18:34 min.

JMI 6583
1988

A motivational programme on veterinary science, as a profession.

Meteorology

The Physics of Clouds-Part I
16:30 min.

JMI 3022
1985

This programme describes two stages in the life of a rain cloud. First, lifting of moisture from ground and its condensation into fog and then the processes of growth of these tiny droplets into raindrops.

The Physics of Clouds—Part II
17:20 min.

JMI 3205
1985

In the second part we see how the small drops in the early stages of the formation of cloud grow into raindrops.

Music

Music Beyond the Frontier
16:42 min.

JMI 6158
1985

The life of musicians living in the jhuggis of Delhi where their off-springs also learn the tradition from their parents.

Music of North India: Bhimsen Joshi
28:43 min.

JMI 3061
1985

A song is a form of worship, not because of its words which may be like a hymn, but in the act of creating sound—the music itself. In India making music is regarded as an act of worship. This film is one of a series.

Music of North India: Amjad Ali Khan
29:08 min.

JMI 6090
1985

Music of North India: Vijay Raghav Rao
28:43 min.

JMI 3061
1985

Music of North India: Pandit Jasraj
28:53 min.

JMI 3078
1985

All these films depict the life and times of Maestros of Traditional North Indian Music.

The Art of the Composer
18:00 min.

JMI 3254
1986

This film documents the creation of music — from its very conception by the composer to its final orchestration. The film revolves around the work of veteran composer Anil Biswas.

Language of Music
28:45 min.

JMI 3009
1986

Music can be read. The International system of musical notations has been developed for the purpose of writing music. The language of music is quite simple because it is based on logical principles.

Graphic Perspective
07:30 min.

JMI 3046
1985

This programme is an attempt to teach perspective drawing—representing three dimensional reality in the two dimensions of a painter's canvas.

Classics in Tune
9:45 min.

JMI 6412
1986

An introduction to the basic elements of Hindustani and Karnatak style of Indian music.

Oceanography

Voyage of Discovery
20:00 min.

JMI 3088
1987

The film deals with the scientific work going on in Antarctica and Antarctica's role—both scientific and political in the near future.

Ornithology

Dr. Salim Ali—A Profile—Part I
20:30 min.

JMI 3277
1987

First Part of an interview with the renowned ornithologist Dr. Salim Ali about his life and works.

Dr. Salim Ali—A Profile—Part II
16:00 min.

JMI 3276
1987

In the second part Dr. Salim Ali expresses his views on the conservation of wild life.

Palaeontology

Fossils—Stories in Stone
22:15 min.

JMI 3272
1986

Fossils are bridges which link the past of our planet to its present. This programme explains what are fossils, how they are formed and what are their many uses.

Photography

Images
10:00 min.

JMI 6444
1987

After making the viewer familiar with a dark room the programme introduces him to the basics of black and white photographic printing.

Physics

How To Make a pH Meter

19:14 min.

JMI 3108

1985

An instructional programme about assembling low cost pH-Meter, useful in undergraduate experiments in Chemistry and Biology. The design uses electronic components easily available in the market.

Thermal Physics

20:04 min.

JMI 3051

1984

Set up in a demonstration format the film examines the physics of hot bodies. Measurement of temperature actually involves the measurement of flow of heat from one body to another.

Semi-Conductors At Our Service—Part-I

21:00 min.

JMI 6171

1985

Electrical properties of good conductors, insulators and semi-conductors such as resistivity, charge carrying capacity and electron band energy are some of the properties which distinguish one class of conductor from another.

Semi-Conductors At Our Service—Part-II

23:13 min.

JMI 3016

1985

There are two kind of semi-conductors, intrinsic and extrinsic. A change of conducting properties takes place when impurities are added to semi-conductors.

Semi-Conductors At Our Service—Part-III

24:34 min.

JMI 3093

1985

Metallic oxides of a number of elements which exhibit semi-conductor properties are often used to make useful electronic devices such as a thermistor.

Semi-Conductors At Our Service—Part-IV

20:00 min.

JMI 6013

1985

The principle of unidirectional flow which is the basis of valves, pumps and Junction diode is explained. A Junction diode allows current to flow in one direction only and offers extreme resistance in the opposite direction.

Semi-Conductors At Our Service—Part-V

21:00 min.

JMI 6013
1985

The last of the series of lecture-demonstrations on semi-conductors deals with the physics and function of a particular type of electronic device called Bipolar Junction Transistor.

How To Make Simple Scientific Instruments

29:48 min.

JMI 3060
1984

The use of low cost equipment not only makes the students aware of the principles underlying these equipment, it also exposes them to the method of scientific observation and inference.

What Is An Orbit

20:00 min.

JMI 3062
1984

Based on the laws of motion, the concept of orbits is explained in this lecture which also briefly discusses relative motion and the state of weightlessness.

What Is An Operational Amplifier

19:30 min.

JMI 3058
1984

The electronic revolution has proved a boon in tackling the problem of rising costs of equipment in science laboratories. This programme demonstrates the making of an operational amplifier, a device commonly used in the laboratories, using inexpensive electronic components.

The Energy

31:53 min.

JMI 3097
1985

Man has made use of energy in various forms such as geothermal, nuclear, and many others. The concept of energy is explained in terms of force and work.

The Journey of Sound

20:00 min.

JMI 3066
1985

How is sound produced? What are ultrasonics and infrasonics? The programme also explains the nature and transmission of complex sound. The concepts of carrier wave, amplitude and frequency modulation are also explained.

Stationary Waves

25:00 min.

JMI 3069

1986

Musicians, Physicists and Engineers, all make use of the standing or stationary waves. These are produced as a result of the superimposition of direct and reflected waves in a medium.

Vibration

24:17 min.

JMI 3232

1986

This lecture demonstration explains the oscillation of bodies and forces associated with them.

Duality of Light

20:17 min.

JMI 6078

1985

Sometimes light behaves like a wave and sometimes as particles which travel in a straight line. The mysterious dual nature of light is explained in this programme.

Unity Behind Diversity in Nature—Part-I

29:32 min.

JMI TVP/60/67

1986

According to the Unified theory a unity is perceived within the basic building blocks of matter and also in the forces in nature. A magnificent link exists between the microscopic and the macroscopic world.

Unity Behind Diversity in Nature—Part-II

41:21 min.

JMI TVP 60/72

1986

Prof. Jogesh Pati discusses unification of the basic forces of nature, spontaneous breaking of symmetry and proton decay as a crucial test for grand unification theory. What are the implications of this theory for the understanding of cosmology?

Our Space The Magnetosphere—Part-I

20:00 min.

JMI 3354

1987

The matter, structure and composition of space around the earth is discussed with the help of still photographs.

Our Space Part-II

20:00 min.

JMI 3348

1987

After a brief introduction to the discovery of whistlers their sources are described and the importance of their study in understanding space is brought out.

Earthquakes

20:00 min.

JMI 3067

1984

Besides tracing the history of earthquakes, the programme also dwells on the science of sudden transient motion spreading into all possible directions causing earthquakes.

The Physics of Clouds—Part-I

16:30 min.

JMI 3022

1985

This programme describes two stages in the life of a rain cloud. First, lifting of moisture from ground and its condensation into fog and then the processes of growth of these tiny droplets into raindrops.

Physics of Clouds—Part-II

17:20 min.

JMI 3205

1985

In the second part we see how the small drops in the early stages of the formation of cloud grow into raindrops.

Heads or Tails

20:00 min.

JMI 6197

1985

Theory of probability is based on the experiences of our daily life.

Superconductors Are Getting Hotter

14:31 min.

JMI 3372

1987

Conductors like mercury are superconductors at very low temperatures. Present interest in superconductors is due to new ceramic compounds which are superconductors at much higher temperatures. This indicates exciting possibilities for future applications in Science and Technology.

Floods And Their Computations

21:52 min.

JMI 3083

1986

Apart from tracing the causes of floods in India this lecture also describes the computation related to floods through approaches like empirical relations, Rational formula and Unit Hydrograph theory.

Fictitious Forces—A Poser

15:00 min.

JMI 3278

1988

This programme is in response to questions raised in an earlier programme "Fictitious Forces : Their Origin".

Prof. Abdus Salam in Conversation with Prof. Yashpal
35:33 min.

JMI 6359
1986

Nobel laureate, Dr. Abdus Salam talks with Prof. Yashpal on the present status and trends in particle physics. He also talks about the standard model and the relationship between astronomy and particle physics.

Ultrasonics
25:60 min.

JMI 6366
1986

This programme is on the physics of ultrasonics or mechanical waves with frequency greater than 20 KHz.

Fictitious Forces: Their Origin
14:42 min.

JMI 3092
1986

Fictitious forces is a name given to forces which arise when there is accelerated motion. This programme looks at the physics behind these forces.

Micro Physics And Macro Universe—Part I
21:15 min.

JMI 3396
1988

Micro Physics And Macro Universe—Part II
21:15 min.

JMI 3380
1988

A discussion with famous Astrophysicist Leon Lederman of the Fermi Lab in U.S.A. about the proposed super collider they are building and other aspects of Cosmology.

To Err Is Human
15:20 min.

JMI 3092
1985

All scientific experiments necessarily involve errors. These errors can be studied systematically in a scientific manner.

Proton Decay As A Crucial Test of Grand Unification Theory
43:00 min.

JMI TVP/60/21
1987

Prof. M.G.K. Menon, Prof. Jogesh C. Pati and Prof. Gopalakrishna discuss the basic ideas underlying the grand unification theory and the proton decay experiment being conducted at the Kolar Gold field since November 1980 in collaboration with Osaka University.

Errors In Measurements

22:53 min.

JMI 3395

1987

All measurements have errors associated with them. A very important aspect of measurement is to know how much is the error involved and what are the sources of these errors.

Spectroscopy

10:00 min.

JMI 3387

1986

Following a demonstration format the splitting of white light into its component colours is explained with the help of a spectrometer.

Television Classroom

27:00 min.

JMI 6524

1987

A television classroom lecture on scalars, vectors and tensors as part of B.Sc. (Hons.) Physics syllabus.

Physiology

Seeing Is Believing

17:20 min.

JMI 6023

1984

Supported by visuals, graphics and standard examples this programme deals with optical vision, visual pathways, perception of light and the process of seeing.

Political Science

The Indian Parliament—A Conversation with Dr. Balram Jakhar

17:00 min.

JMI 6371

1987

An interview with Dr. Balram Jakhar, speaker of the Lok Sabha on the Indian Parliament.

Another Day

20:24 min.

JMI 3409

1987

The film depicts a day in the life of poor working women and the forces which affect their lives.

Popular Science

Bharat Jan Vigyan Jatha — Part I

9:51 min.

JMI 3382

1988

A glimpse into the initial stages of the Bharat Jan Vigyan Jatha as it begins to move from Srinagar towards its destination — Bhopal.

Bharat Jan Vigyan Jatha — Part II

38:33 min.

JMI 6549

1988

A documentary on the Bharat Jan Vigyan Jatha organized by twenty-six people's science organizations. This film is on the Northern Branch of the Jatha which travelled from Srinagar to Bhopal in thirtyseven days.

Psychology

What's Wrong With Me

19:00 min.

JMI 3328

1987

This is a film on various stages of development in children, tests for the various stages and how they can be used to detect minor disabilities.

Special Children

20:11 min.

JMI 069

1987

Services for retarded children are almost non-existent in India, but children who show non-normal symptoms in their behaviour need special care.

Our World

23:00 min.

JMI 6394

1986

A film on spastic children it deals with their problems, desires and aspirations. Contrary to common belief these children are not mentally retarded.

Tool For Thought

11:00 min.

JMI 6444

1987

Classical science has provided mankind with a method of understanding the world by trying to reduce it to its barest element. But there is a need to incorporate qualitative elements that exist in nature but cannot be quantified.

NEEDH—Cheshire Home

8:14 min.

JMI 3038

1984

Cheshire Home in New Delhi looks after mentally retarded children. The programme peeps into the psyche and the needs of children who live in these kinds of homes.

Women of Rangabelia

33:11 min.

JMI 6132

1985

The women of Rangabelia in West Bengal are among the poorest in the world and live in one of its least hospitable regions. But today new rhythms are breaking into this pattern of poverty.

Unity in Diversity—Religion

30:02 min.

JMI 3052

1985

Interacting with each other over millenia people of diverse faiths have developed composite ways of living. Religion in this programme is examined as a social and historical phenomenon.

Children's SOS Village

08:04 min.

JMI 6064

1984

Shot on location at an SOS village in Delhi this programme deals with destitute children and their bringing-up in a family atmosphere.

Natural Landscape

28:30 min.

JMI 3099

1984

From snow capped Himalayan peaks to the blue waters of Indian ocean; from the dense monsoon forests in the east to the salt marshes in the west, this programme depicts the diversity of India.

Jyoti

10:00 min.

JMI 3090

1984

Jyoti deals with educating people about the capabilities of blind and attempts at removing certain misconceptions about them. It emphasises that the blind should be accepted in the society as equals.

Caste: Human Kind

24:00 min.

JMI 3012

1985

Dr. Vina Mazumdar of the Centre for Women's Development Studies talks about the social, economic and political dimensions of the caste system in India.

Loom of Languages

21:08 min.

JMI 3077

1984

This programme is part of a series which traces the unity and diversity as a characteristic feature in India. The different languages of India have certain unifying characteristics which have been highlighted in the programme.

Helpage India—Sham Zindagi Ki

10:50 min.

JMI 3059

1984

The efforts of a voluntary agency, Helpage India, to set up Homes for the aged and provide medicare, underscore the need to take practical steps to alleviate the sufferings of elderly people.

Concepts of Sociology

11:22 min.

JMI 3289

1987

The programme introduces Sociology to undergraduate students. It briefly examines three fundamental questions: What is Sociology?, What is Social Group?, and What is Social Interaction?

The Golden Ring

10:00 min.

JMI 6403

1987

A programme on the behavioural patterns within a group, cooperation and conflict. Why are groups necessary? What are the differences between a group and a crowd?

Check Mate

20:00 min.

JMI 3375

1987

The programme deals with problems of overpopulation in Delhi. It works on three basic premises: how the problem started, what were or are its effects and what needs to be done in the next 10-15 years time.

Sports

Hockey

22:05 min.

JMI 6042

1985

Every game is played according to rules. So is hockey.

Social Awareness

Rip Off

07:00 min.

JMI 3266

1986

The face of a city appears attractive only till it is left untampered and unimutilated. Posters are too often pasted in places where they have no business 'sticking around'.

A Call to the Consumer

22:23 min.

JMI 3301

1987

A programme on consumer awareness—it seeks to create awareness and encourage positive action among consumers.

Social Work

Mobile Creches

10:05 min.

JMI 6023

1984

Children of construction site workers need more than just love and compassion. This programme looks at the working of a school which shifts alongwith the shifting of construction sites in metropolitan Delhi.

Learning to Help

26:36 min.

JMI 3094

1984

Ali Village in New Delhi has grown haphazardly over the years causing problems to its inhabitants. Department of Social Work, Jamia Millia has been working in the village for its general upliftment.

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JMI 6394

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Sahara

10:00 min.

JMI 6412

1986

Mr. Daince Kurien, a rehabilitation worker at Sahara House, describes the activities and routine of the rehabilitation centre alongwith his opinion of the nature of the narcotics problem.

Sociology

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Peasant Life In India

20:22 min.

JMI 3016

1984

The culture, social set up and life styles of peasants from Kashmir to Kanyakumari and Rajasthan to Arunachal Pardesh are different. Regional pattern of the village, costumes and headgear, agricultural practices and modes of transport constitute the unbelievable diversity of India.

Ready, Get set, Go Set
16:40

JMI 6627
1988

A programme about the importance of sports for young people.

Technology

The Story of Copper
22:20 min.

JMI 3045
1986

This programme is about the different ways of mining copper, purification of the ore and the importance of copper in our daily life.

Firefighters
17:00 min.

JMI 3265
1987

The film deals with the logistics and methods behind Fire Brigade operations.

Off-Shore Structural Engineering
10:00 min.

JMI 6396
1986

Different aspects of oil drilling technology are discussed in this film. Differences between off-shore drilling and drilling on land are described.

Building With Mud
19:10 min.

JMI 6592
1988

This is an introductory programme on mud architecture and related building technology.

Of Men and Machines
19:05 min.

JMI 6580
1980

A programme on the education and training of car mechanics.

Theatre

"Gestures Speak"

10:00 min.

JMI 6396

1988

It is a programme dealing with the importance of gestures in theatre and how gestures can be used to reinforce or contradict the spoken word.

Shakespeare: The Works

19:52 min.

JMI 3289

1987

Nola Rae, a pupil of the legendary Marcel Marceau, has distinguished herself as a mime artist extraordinary. In partnership with the gifted John Mowat, she presents 'Shakespeare: The works'.

Glimpses of Puppetry

20:00 min.

JMI 3215

1988

A round-up of an international puppetry festival held in Delhi. The programme shows various forms of puppets and a variety of themes depicting both the traditional and modern interpretations of the art.

Staging Beckett

18:00 min.

JMI 3292

1987

This programme is about the style and philosophy of the playwright Samuel Beckett. The exploration is effected through the staging of the play *ENDGAME*.

Town Planning

Delhi Through The Ages

18:00 min.

JMI 3403

1988

This programme seeks to explore the growth of Delhi since ancient times and how cities are planned by taking the examples of Purana Qila site, Shahjehanabad and New Delhi.

Transport

Rails

13:23 min.

JMI 3346

1987

The film is a brief overview of Railway operations. The coordination required to make a train run from one station to another is the major emphasis of the film.

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