

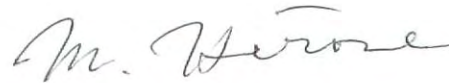
MINUTES OF MEETINGS
FOR
THE FEASIBILITY STUDY
ON
THE DEVELOPMENT OF DEDICATED MULTIMODAL HIGH AXLE
LOAD FREIGHT CORRIDOR WITH COMPUTERISED CONTROL
FOR DELHI-MUMBAI AND DELHI-HOWRAH
IN
INDIA

AGREED UPON BETWEEN
MINISTRY OF RAILWAYS
AND
JAPAN INTERNATIONAL COOPERATION AGENCY

DELHI, 3rd February, 2006



Mr. Shri Prakash
Advisor (Infrastructure)
Railway Board
Ministry of Railways



Mr. Michio Hirose
Leader
Preparatory Study Team
Japan International Cooperation Agency

(Witnessed by)



Mr. Dheeraj Bhatnagar
Director
Department of Economic Affairs
Ministry of Finance

In response to the request of the Government of India, the Government of Japan dispatched the preparatory study team (hereinafter referred to as "the Team") headed by Mr. Michio HIROSE to discuss a technical cooperation on the "Feasibility Study on the Dedicated Multimodal High Axle Load Freight Corridor with computerized control for Delhi-Mumbai and Delhi -Howrah rail routes in India" (hereinafter referred to as "the Study") from 29th January to 18th February 2006.

The Team and the Ministry of Railways (hereinafter referred to as "MOR") and other organizations related to the Study in India, had a series of meetings. The participants of the meetings are listed in Appendix 1.

Based on the discussions, MOR and the Team agreed upon the Scope of Work for the Study. The main issues discussed by both sides in relation to the Scope of Work for the Study are summarized below.

1. Joint Statement on the Japan-India Global Partnership

Both sides confirmed that the Study should be conducted in context of the Joint Statement of both the Prime Ministers to strengthen the Japan-India Global Partnership, especially an Eight-fold initiative for the Partnership noted on 29th April 2005.

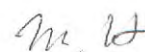
2. Minutes of Meetings on the Contact Mission of the Study

Both sides confirmed that the Minutes of Meetings on the contact mission of the Study signed on 6th October 2005 described the fundamental points of facilitating the Study. Both sides agreed that MOR and JICA Study Team should work together for the fruitful Study.

3. Study Title

Both sides agreed to use "The Feasibility Study on the Development of Multimodal, High-Axle Load Dedicated Freight Corridors for Delhi-Mumbai and Delhi -Howrah rail routes with Computerised Control " as the Study title.

MOR advised that a pre-feasibility study has been conducted by RITES for the development of Dedicated Freight Corridors on Delhi-Mumbai and Delhi-Howrah routes. The Study has recommended that in view of projected growth of traffic, the Eastern Dedicated Freight Corridor (Delhi-Howrah) should be from Ludhiana to Durgapur/Bokaro/Tatanagar via Ambala-Saharanpur-Khurja-Allahabad-Mughalsarai. In the Part-I of this Project, a Dedicated Freight Corridor will be developed from Ludhiana to Sonnagar and the remaining links of the Corridor will be upgraded as primary feeder routes. Later, these primary feeder routes could also be developed as Dedicated Freight Corridors. Western Corridor (Delhi-Mumbai) should be from Jawaharlal Nehru Port to Dadri via Ahmedabad-Palanpur-Ajmer-Phulera-Rewari. Both the Eastern and Western Corridors would be linked between Dadri and Khurja.



Both sides agreed that JICA will study Dedicated Freight Corridor from Ludhiana to Sonnagar on Eastern Corridor including the link between Khurja-Dadri. Western Corridor would be studied from JNPT to Dadri via Ahmedabad.

4. Responsibility of Both Sides

Both sides agreed to work together for this Study. Whereas the JICA Study team shall conduct the study, MOR's counterpart team shall provide necessary assistance in terms of the available data connected with this Study. RITES final Feasibility Report shall be made available to the JICA Study Team by December 2006. Relevant data/information, available with RITES during the course of the final feasibility study, shall also be made available to the JICA Study Team. MOR agreed that the information and data required, as indicated in Appendix 2, shall be provided by RITES and Zonal Railways to the Study Team. Both sides agreed to the schedule of submission of various reports within a total timeframe of 18 months, as indicated in Appendix 2.

5. Steering Committee

Both sides agreed that the Steering Committee would be set up to conduct the Study efficiently under the initiative of MOR. The committee will be comprised of the following ministries and organizations mainly, and the other ministries and organizations could be included if MOR recognizes the necessity. MOR shall inform JICA India Office the members list of the Steering Committee upon arrival of the JICA Study Team.

- (1) Representative of Ministry of Railways (Chairperson of the Committee)
- (2) Representative of Ministry of Finance
- (3) Representative of Planning Commission
- (4) Representative of Ministry of Forest and Environment
- (5) Representative of the concerned State Government (as and when required)
- (6) Representative of JICA

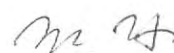
Chairperson of the Steering Committee may also co-opt any of the member.

6. Counterpart Team

Both sides agreed that the Study should be conducted in a manner of a joint work of the Indian and Japanese sides. Both sides agreed that a counterpart team may be set up by MOR to interact with JICA Study Team.

7. Seminar and Workshops

MOR requested the Team to hold technical seminars and / or workshops at the submission of Interim Reports and Draft Final Report stages. The Team promised to convey this request to



JICA Headquarters.

8. Vehicles

The Government of India requested that JICA provide transportation necessary for the Study. The Team agreed to convey this request to the JICA Headquarters.

9. Office Space and Equipment

MOR requested that JICA may undertake to provide necessary office accommodation, telecommunication facilities, etc. for their Study Team. The Team agreed to convey this request to JICA Headquarters.

10. Reports

Both sides agreed that the study reports shall be made available to the concerned authorities and organizations in order to achieve maximum use of the Study result.

11. Fulfillment of the requirements stated in the JICA's Guidelines for Environmental and Social Considerations

The Team explained the outline of JICA's Guidelines for Environmental and Social Considerations. The Team also explained the requirements to hold stakeholders' meeting at least three times in the course of study (i.e. at each stage of scoping, preparing an outline of measures for environmental and social considerations, and the completion of a draft of the final report, by MOR assisted by JICA). Information regarding the Study shall be disclosed by MOR and JICA. The Team also emphasized that JICA will make the Study reports open to the Public.

Both sides agreed that the Study be conducted keeping in view the above-mentioned guidelines.

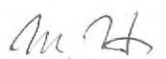
12. Selection of stakeholders

Both sides agreed that the Stakeholders to participate in the meetings should be properly selected in the course of the Study in consultation with Ministry of Forest and Environment.

13. Provision of Information & Data on Present Environmental Conditions

The Team requested provision of necessary information and data needed for conducting the Environmental and Social Consideration Study at EIA level as per Appendix 3.

MOR requested JICA to obtain necessary information, as indicated in Appendix 3, by



engaging a consultant. The Team agreed to convey this request to JICA Headquarters.

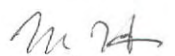
14. Working Group on Environmental Social Issues

The Team emphasized that MOR should organize a Working Group on Environmental and Social issues.

MOR agreed that a Working Group would be set up in consultation with Ministry of Environment and Forest for this purpose.

15. Counterpart Training

The Government of India requested that JICA conduct the counterpart training in Japan, especially in the field of railway development technology, restructuring of railway system, transportation planning, E&M (energy efficiency, etc.), project development and financing, revenue generation techniques through non-core rail activities, for the purpose of the smooth exchange of knowledge during the Study. The Team promised to convey this issue to JICA Headquarters for consideration. The Government of India will submit the official request for the counterpart training in Japan to the Embassy of Japan.

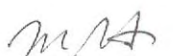


The List of Participants

Indian Side

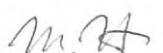
| | |
|------------------------|--|
| Mr. Shri Prakash | Leader of Indian Delegation Adviser (Infrastructure), Ministry of Railways, Government of India |
| Mr. Mohd. Jamshed | Executive Director (Perspective Planning), Ministry of Railways, Government of India |
| Mr. Kundan Sinha | Executive Director (LRDSS), Ministry of Railways, Government of India. |
| Mr. Rahul Agarwal | Director Planning (Special), Ministry of Railways, Government of India. |
| Mr. Mukul Saran Mathur | Director Transport Planning, Ministry of Railways, Government of India |
| Mr. Nalin Singhal | Director (LRDSS/Planning), Ministry of Railways, Government of India |
| Mr. Sanjay Mishra | Executive Director (Infrastructure), RITES India Ltd. |
| Mr. Jeevan Gupta | Group General Manager (RI), RITES India Ltd. |





Japanese Side

| | |
|----------------------|--|
| Mr. Michio Hirose | Leader of JICA Preparatory Study Team Director General, Railway Department, Chubu District Bureau, Ministry of Land, Infrastructure and Transport (MLIT) |
| Mr. Masashi Hiraishi | Member of JICA Preparatory Study Team Engineering Planning Division, Railway Bureau, MLIT |
| Mr. Naofumi Yamamura | Member of JICA Preparatory Study Team Transportation Team I, Group III (Transportation) Social Development Department, JICA |
| Mr. Tamon Nagai | Member of JICA Preparatory Study Team Consultant for Preparatory Study |
| Mr. Hiroyuki Doi | Member of JICA Preparatory Study Team Consultant for Preparatory Study |
| Mr. Atsuhiko Minowa | Deputy Director, Technical Cooperation Division, Trade and Economic Cooperation Bureau, Ministry of Economy, Trade and Industry (METI) |
| Dr. Yuzo Akatsuka | Technical Advisor for JICA Study Professor Emeritus, Toyo University |
| Mr. Tomoyuki Nakano | First Secretary, Embassy of Japan in India |
| Mr. Nobuaki Koguchi | Assistant Resident Representative, JICA India Office |



Tentative Schedule

| Work by JICA | Duration (months) | Year1 | | | | | | | | | | | Year2 | | | | | | | |
|---------------|-------------------|-------|---|---|---|---|---|---|---|---|---|----|-------|----|----|----|----|----|----|----|
| | | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 | 14 | 15 | 16 | 17 | 18 |
| Work in India | | | | | | | | | | | | | | | | | | | | |
| Work in Japan | | | | | | | | | | | | | | | | | | | | |
| Reports | | | | | | | | | | | | | | | | | | | | |

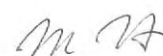
| Study Item | FY2006 | | | | | | | | | | | | FY2007 | | | | | | | | | |
|---|--------|---|---|---|---|---|----|----|----|---|---|---|--------|---|---|---|---|---|----|--|--|--|
| | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | | | |
| Task-0(Base-line survey for rail transport capacity development) | | | | | | | | | | | | | | | | | | | | | | |
| 1. Present situation and issues to be tackled in transport sector of India | | | | | | | | | | | | | | | | | | | | | | |
| (1) Present situation and issues in transport sector of India | | | | | | | | | | | | | | | | | | | | | | |
| (2) Present situation and issues on physical distribution of transport network in India | | | | | | | | | | | | | | | | | | | | | | |
| (3) Role of railways in transport sector of India | | | | | | | | | | | | | | | | | | | | | | |
| (4) Issues to be tackled in freight transportation by Indian Railways | | | | | | | | | | | | | | | | | | | | | | |
| 2. Present condition of the existing corridors | | | | | | | | | | | | | | | | | | | | | | |
| (1) Socio-economic conditions | | | | | | | | | | | | | | | | | | | | | | |
| (2) Freight and passenger transport characteristics (including all transportation modes) | | | | | | | | | | | | | | | | | | | | | | |
| (3) Railways infrastructure and facilities | | | | | | | | | | | | | | | | | | | | | | |
| (4) Railways operation (personnel, organization and train operation practices, etc) | | | | | | | | | | | | | | | | | | | | | | |
| (5) Financial Situation of Indian Railways | | | | | | | | | | | | | | | | | | | | | | |
| (6) Maintenance mechanism and construction for fixed and moving infrastructure | | | | | | | | | | | | | | | | | | | | | | |
| (7) Organization and finance related to railway transport | | | | | | | | | | | | | | | | | | | | | | |
| 3. Base-line survey for rail transport capacity development | | | | | | | | | | | | | | | | | | | | | | |
| (1) Impact of the implemented projects for existing corridors | | | | | | | | | | | | | | | | | | | | | | |
| (2) Relations with other on-going projects | | | | | | | | | | | | | | | | | | | | | | |
| (3) Demand forecast on the freight and passenger traffic till 2021-22 | | | | | | | | | | | | | | | | | | | | | | |
| (4) Social impact of investment in the project | | | | | | | | | | | | | | | | | | | | | | |
| (5) Present operation and maintenance plan | | | | | | | | | | | | | | | | | | | | | | |
| (6) Study for handling system and management such as freight terminal yards | | | | | | | | | | | | | | | | | | | | | | |
| Task-1(Justification of the construction of the new freight corridor) | | | | | | | | | | | | | | | | | | | | | | |
| 1. Route alignment profile and plan | | | | | | | | | | | | | | | | | | | | | | |
| 2. Design standard for civil engineering structures | | | | | | | | | | | | | | | | | | | | | | |
| 3. Technologies related to railway transport control system | | | | | | | | | | | | | | | | | | | | | | |
| 4. Technologies related to freight rolling stock, signaling and operation | | | | | | | | | | | | | | | | | | | | | | |
| 5. Study of alternatives including followings; | | | | | | | | | | | | | | | | | | | | | | |
| (a) construction of the new freight corridors | | | | | | | | | | | | | | | | | | | | | | |
| (b) improvement of the existing lines | | | | | | | | | | | | | | | | | | | | | | |
| (c) construction of the new corridors designed for the passenger service | | | | | | | | | | | | | | | | | | | | | | |
| (d) present status | | | | | | | | | | | | | | | | | | | | | | |
| 6. Preliminary design and construction plan of each alternative (utilization of Japanese technology, etc) | | | | | | | | | | | | | | | | | | | | | | |
| 7. Estimated total project cost of each alternative | | | | | | | | | | | | | | | | | | | | | | |
| 8. Environmental and social impact of each alternative | | | | | | | | | | | | | | | | | | | | | | |
| 9. Evaluation of alternatives | | | | | | | | | | | | | | | | | | | | | | |
| (Justification of the construction of the new freight corridor) | | | | | | | | | | | | | | | | | | | | | | |
| 10. Implementation plan of the selected project (implementing organization, etc) | | | | | | | | | | | | | | | | | | | | | | |
| Task-2(Feasibility study on the dedicated freight corridors project) | | | | | | | | | | | | | | | | | | | | | | |
| 1. Supplementary engineering survey(s) for the project | | | | | | | | | | | | | | | | | | | | | | |
| 2. Supplementary demand forecast for the project | | | | | | | | | | | | | | | | | | | | | | |
| 3. Preliminary engineering design of facilities and equipment | | | | | | | | | | | | | | | | | | | | | | |
| 4. Operation and maintenance plan | | | | | | | | | | | | | | | | | | | | | | |
| 5. Management and organization plan | | | | | | | | | | | | | | | | | | | | | | |
| 6. Environmental / social impact and mitigation measures | | | | | | | | | | | | | | | | | | | | | | |
| 7. Cost estimation | | | | | | | | | | | | | | | | | | | | | | |
| 8. Economic and financial analyses | | | | | | | | | | | | | | | | | | | | | | |
| 9. Implementation plan | | | | | | | | | | | | | | | | | | | | | | |
| 10. Overall evaluation | | | | | | | | | | | | | | | | | | | | | | |
| 11. Conclusion and recommendation | | | | | | | | | | | | | | | | | | | | | | |

Legends — Provision of data & information by MOR — Work by JICA
— Joint work by MOR and JICA - - - Main work by JICA, elaborate with MOR
- - - Main work by MOR, review (or supplementary work) by JICA

Required Information and Data on Present Environmental Conditions

| | Item | Description |
|--------------------|---|---|
| Social Environment | Affected and/or related people/groups | Livelihood/ Population/ Gender factor/ Residents/ Squatters/ NGOs/ the Poor/ Indigenous/, Ethnic and Vulnerable People/ People's perception to the project, etc. |
| | Land Use and Utilization of local resources | Urban area/ Farmlands/ Industrial and Commercial Zone/ Historic site/ Scenic spot/ Fishing ground/ Coastal industrial zone/ Historical assets, etc. |
| | Public Facilities/ Social Institutions | Local decision-making institutions/ Education/ Transportation network/ Drinking water/ Wells, Reservoirs, Water supply/ Electricity/ Sewerage/ Garbage, Bus or Ferry terminal, etc. |
| | Economy | Agriculture/ Fishery/ Industry/ Commerce/ Tourism, etc. |
| | Public Health and Sanitation | Illness/Infectious diseases such as HIV/AIDS, Hospitals, Sanitary habits, etc. |
| Social Environment | Topography and Geology | Steep Slopes/ Soft Ground/ Wetlands/ Faults, etc. |
| | Flora and Fauna, and their habitats | Protected area/ National parks/ Habitats of rare species/ Mangroves/ Coral reefs/ Aquatic life, etc. |
| | Coast and Marine Zone | Erosion/ Sedimentation/ Current/ Tide/ Water depth, etc. |
| | Lakes, River System, Coast and/or Climate | Water Quality and quantity, Rainfall, etc. |
| Pollution | Present Pollution | Air, Water, Sewage, Noise, Vibration, etc. |
| | Complaints which people have utmost concern | |
| | Measures taken for pollution | Institutional measures such as regulation/ Compensation, etc. |





付属資料 4: 収集資料一覧

| 収集資料リスト | | | | | | | | | |
|---------|---|--------|-----------|---------|----------------|---|--------------------------|--|-----|
| No | 資料の名称 | 形態 | サイズ | 頁数 | オリジナル 又はコピー | 発行機関(入手先) | 備考 | 入手先・担当者*1 | その他 |
| 1 | Indian Railways <u>Permanent Way Manual</u> (Second Reprint 2004)及び添付CD | 本 | A4 | 297 +5 | オリジナル | Ministry of Railways Government of India | エンジニアリングスタンダード | Mr. Mond Jamshed(Tel:011-2338-9101, 携帯:98102-74-865), Mr. Agalwal(Tel:011-2338-3525) | |
| 2 | Indian Railways <u>Manual of AC Traction Maintenance and Operation</u> Volume I General, March 1994 | 本 | A4 | 108 +19 | オリジナル | Ministry of Railways Government of India | エンジニアリングスタンダード | | |
| 3 | Indian Railways <u>Manual of AC Traction Maintenance and Operation</u> Volume II (Part I) Fixed Installations 1994 | 本 | A4 | 244 +2 | オリジナル | Ministry of Railways Government of India | エンジニアリングスタンダード | | |
| 4 | Indian Railways <u>Manual of AC Traction Maintenance and Operation</u> Volume II (Part II) Fixed Installations(List of Appendices) 1994 | 本 | A4 | 241 | オリジナル | Ministry of Railways Government of India | エンジニアリングスタンダード | | |
| 5 | Indian Railways <u>Code for the Engineering Department</u> (Third Reprint 1999) | 本 | A4 | 388 +7 | オリジナル | Ministry of Railways Government of India | エンジニアリングスタンダード | | |
| 6 | Indian Railways <u>Bridge Sub-Structures & Foundation Code</u> | Floppy | | | | Ministry of Railways Government of India | エンジニアリングスタンダード | | |
| 7 | Indian Railways <u>Arch Bridge Code, Steel Bridge Code, Welded Bridge Code</u> | Floppy | | | | Ministry of Railways Government of India | エンジニアリングスタンダード | | |
| 8 | Indian Railways <u>Concrete Bridge Code, Well & Pile Foundation Code</u> | Floppy | | | | Ministry of Railways Government of India | エンジニアリングスタンダード | | |
| 9 | Indian Railways <u>Bridge Rules</u> | Floppy | | | | Ministry of Railways Government of India | エンジニアリングスタンダード | | |
| 10 | Indian Railways <u>Berthing Chart Aligarh Junction</u> | 図 | A3 | 1 | コピー | M of Railway (North Central Railway Aligarh Junction)にて入手 | 列車運行計画 | Mr. Anand Kumas, Division Traffic Manager (Tundla St.)他 | |
| 11 | 列車運行計画表 Aligarh Division | 図 | A4 | 12 | コピー | M of Railway (North Central Railway Aligarh Junction)にて入手 | 列車運行計画 | | |
| 12 | Western Railway 列車運行計画表(Geratpur - Ambliroad - Chandlodiya - Gandhinagar Section total 51.22 Km) | 計画表原紙 | A1 (Long) | 1 | オリジナル | M of Railway (Western Railway Ahmedabad Division)にて入手 | 列車運行計画表(手書き) | Mr. Ravi Mohan Sharma (Sr. Divisional Operations Manager) | |
| 13 | Western Railway 列車運行計画表(Ambliroad - Samakhiyali, Virangam - Kharaghoda Section total 261.55 Km) | 計画表原紙 | A1 (Long) | 1 | オリジナル | M of Railway (Western Railway Ahmedabad Division)にて入手 | 列車運行計画表(手書き) | | |
| 14 | Western Railway Line Capacity Statement 2004-2005 | 本 | A4 | 47 | オリジナル | M of Railway (Western Railway Ahmedabad Division)にて入手 | 区間ごとの列車運行量(レールキャパシティー)詳細 | | |
| 15 | Western Railway System Map of Ahmedabad Division | 路線図 | A3 | 1 | コピー | M of Railway (Western Railway Ahmedabad Division)にて入手 | 路線図 | | |
| 16 | Control Chart of GER-ABD-KHDB Section 45.49Kms その1、Control Chart of ABD - SIOB Section 230.72Kmsその1、Control Chart of ADI - KHDB - PNU Section 138.10Kmsその1、Control Chart of SIOB - BVJ Section 117.53Kmsその1、Control Chart of GER - ABD - KHDB Section 45.49Kmsその2、Control Chart of ABD - SIOB Section 230.72Kmsその2 (Ahmedabad | 計画表 | A3 | 計18 | オリジナル | M of Railway (Western Railway Ahmedabad Division)にて入手 | Ahmedabad 列車運行管理表 | | |

| 収集資料リスト | | | | | | | | | |
|---------|--|----------|-----------|----------------------|----------------|--|------------------------|---|---|
| No | 資料の名称 | 形態 | サイズ | 頁数 | オリジナル 又はコピー | 発行機関(入手先) | 備考 | 入手先・担当者*1 | その他 |
| 17 | Station Diagram Ahmedabad Division, Western Railway (AutoCad?) | CD | | 1 | コピー | M of Railway (Western Railway Ahmedabad Divisionにて入手) | Ahmedabad 駅の図 | | |
| 18 | Schematic Diagram of WR (Western Railwayの路線図) | 路線図 | A4 | 1 | コピー | M of Railway (Western Railway HQにて入手) | 路線図 | Mr. M. Garhwal, 他12名 (Western Railway HQ 2月7日議事録参照の事) | |
| 19 | Broad Gauge Line Capacity Utilisation Chart for 204-2005 (With M/Block) | 路線図 | A4 | 1 | コピー | M of Railway (Western Railway HQにて入手) | 区間ごとの列車運行情況(レールキャパシティ) | | |
| 20 | System Map of Western Railway | 路線図 / 地図 | A4 | 1 | コピー | M of Railway (Western Railway HQにて入手) | 路線図 / 地図 | | |
| 21 | Western Railway Mumbai System Map | 路線図 / 地図 | A1 | 1 | コピー | M of Railway (Western Railway HQにて入手) | 路線図 / 地図 | | |
| 22 | Welcome to Central Railway Presentation on Rail Connectivity to JNPT by Planning Branch CRLY | 資料 | A4 | 8 | コピー | M of Railway (Central Railwayより入手) | Power Point資料 | | 氏名不明、Planning Branch CRLY |
| 23 | System Map of Central Railway | 路線図 | A4 | 1 | コピー | M of Railway (Central Railwayより入手) | 路線図 | | |
| 24 | System Map of Mumbai Division, Central Railway | 路線図 | A4 | 1 | コピー | M of Railway (Central Railwayより入手) | 路線図 | | |
| 25 | Harbouring Dreams Navigating Prosperity, Jawaharlal Nehru Port Trust | 資料 | A4 | 20 | コピー | JNPT港Port Trust | 港資料 | Mr. R.T. Revankar, Chief Manager, JNPT | |
| 26 | Diagram of Mughalsarai Station | 図 | A4 (Long) | 1 | コピー(アオヤキ) | M of Railway (East Central Railway Mughalsarai Divisionより入手) | マールヤード全体図 | Mr. R. Vijny Mohan (Division Manager), Mr. Ved Porakash (Senior Divisional Operation Manager) | |
| 27 | Time Table, July 2005, Eastern Zone (Eastern, East Central, and Notheast Frontier Railways) | 本 | A4(若干小さめ) | 226 +96 +46 +1 | オリジナル | M of Railway (East Central Railway Mughalsarai Divisionより入手) | 旅客列車運行表 | | |
| 28 | Section of Bridge Drawing at Gandis River (New Sone Road Bridge), and Table of Comparison with Existing and New Sone Road Bridge | 図と表 | A4 | 2 | コピー | M of Railway (East Central Railway Mughalsarai Divisionより入手) | 橋のサンプル図 | | |
| 29 | East Central Railway related Data (AutoCad?) | CD | | | | M of Railway (East Central Railway Mughalsarai Divisionより入手) | | | |
| 30 | Network Plan of East Central Railway | 路線図 | A4 | 1 | コピー | M of Railway (East Central Railway Mughalsarai Divisionより入手) | 路線図 | | |
| 31 | East Central Railway System Map of Mughalsarai Division | 路線図 | A4 | 1 | コピー | M of Railway (East Central Railway Mughalsarai Divisionより入手) | 路線図 | | |
| 32 | System Map of East Central Railway | 路線図 | A1 | 1 | コピー | M of Railway (East Central Railway Mughalsarai Divisionより入手) | 路線図 | | |
| 33 | System Map of East Central Railway (JPG) | 路線図 | CD (A1) | 1 | コピー | M of Railway (East Central Railway Mughalsarai Divisionより入手) | 路線図 | | |
| 34 | East Central Railway Mughalsarai Division Index Plan and Section of G.C. B.D. and Third Line (Corrected up to 1.4.2005) | 本(図面集) | A4 | 66 | オリジナル | M of Railway (East Central Railway Mughalsarai Divisionより入手) | 既存線路ルート図、標高図 | | |
| 35 | Eastern Railway System Map (Corrected upto 31-03-2005) | 路線図 | A1 | 1 | コピー | M of Railway (Eastern Railwayより入手) | 路線図 | | Mr. Shyam Kumar, General Manager, Eastern Railway 他 |
| 36 | Dedicated Fright Corridor Presentation by Eastern Railway | 資料 | A4 | 26 | コピー | M of Railway (Eastern Railwayより入手) | Power Point資料 | | |
| 37 | Kolkata Port Special 135th Eventful Year, An Exim India Shipping Times Publication | 本 | A4 | 240 | オリジナル | Kolkata Port Trust | Kolkata港の資料 | Dr. A. K. Chanda (Chairman), Mr. | |

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| 38 | Kolkata Port Trust: A Chronical of Progress, September 2005 | 本 | A4 | 7 | オリジナル | Kolkata Port Trust | Kolkata港の資料 | Sunil C. Sengupta (Adviser), Mr. A.K. Bagchi (Director, Marine), Mr. Utbal Sinha (Traffic Manager) | |
| 39 | Saugor Port Plan (Power Point) | CD | | | コピー | Kolkata Port Trust | Saugor Port Plan(Power Point) | | |
| 40 | Diamond Port Plan (Drawing) | 図 | A2 | 1 | コピー | Kolkata Port Trust | Diamond Port Plan | | |
| 41 | South Eastern Railway, Operating Department, <u>Line Capacity Statement 2004-2005</u> | 本 | A4 | 19 | オリジナル | M of Railway (South Eastern Railway より入手) | 区間ごとの列車運行情量(レールキャパシティ)詳 | Mr. R. K. Raina (General Manager), Mr. S.R. Thakur (Additional General Manager)他 | |
| 42 | System Map of South Eastern Railway (Corrected up to 31-02-2005) | 路線図 | A1 | 1 | コピー | M of Railway (South Eastern Railway より入手) | 路線図 | | |
| 43 | Prestressed Concrete Girder of Span-12.2m (Post-Tensioned Type) To M B G Loading - 1987 (Suitable for PQRS Loading) | 図面 | A1 | 1 | コピー | M of Railway (RDSO) (RITES Corporationにて入手) | 橋(ガ-タ) サンプル図 | | |
| 44 | Prestressed Concrete Girder of Span-12.2m (Post-Tensioned Type) To H.M. Loading - 1995 | 図面 | A1 | 1 | コピー | M of Railway (RDSO) (RITES Corporationにて入手) | 橋(ガ-タ) サンプル図 | RITES社, Mr. P.D. Sharma(1階) | |
| 45 | R. B. G. Standard 61.0m Span (Steel Bridge) | 図面 | A1 | 1 | コピー | M of Railway (RDSO) (RITES Corporationにて入手) | 鉄橋サンプル図 | | |
| 46 | Prestressed Concrete Girder Span - 18.3m, To M.B.G. Loading - 1987, Post Tensioned Type | 図面 | A1 | 1 | コピー | M of Railway (RDSO) (RITES Corporationにて入手) | 橋(ガ-タ) サンプル図 | | |
| 47 | <u>General Map</u> Preliminary Engineering Survey For Dedicated Multimodal High Axle Load Freight Corridor on Delhi-Howrah Route (Etawah - GZB Section (No Scale)) | 路線計画図 | A2 | 1 | コピー | RITES Corporation | 簡略路線計画図 | | |
| 48 | <u>Index Map</u> Preliminary Engineering Survey for Dedicated Multimodal High Axle Load Freight, Freight Corridor on Delhi-Howrah Route Ghaziabad - Etawah Section (Scale 1:250000), Jan 2006 (Sheet 1/3) | 路線計画図 | A2 | 1 | コピー | RITES Corporation | 路線計画図(25万分の1) | RITES社, Mr. P.D. Sharma(1階) | |
| 49 | <u>Index Map</u> Preliminary Engineering Survey for Dedicated Multimodal High Axle Load Freight, Freight Corridor on Delhi-Howrah Route Ghaziabad - Etawah Section (Scale 1:250000), Jan 2006 (Sheet 2/3) | 路線計画図 | A2 | 1 | コピー | RITES Corporation | 路線計画図(25万分の1) | | |
| 50 | <u>Index Map</u> Preliminary Engineering Survey for Dedicated Multimodal High Axle Load Freight, Freight Corridor on Delhi-Howrah Route Ghaziabad - Etawah Section (Scale 1:250000), Jan 2006 (Sheet 3/3) | 路線計画図 | A2 | 1 | コピー | RITES Corporation | 路線計画図(25万分の1) | | |
| 51 | <u>Preliminary Engineering-Cum-Traffic Survey</u> For Dedicated Multimodal High Axle Load Freight Corridor on <u>Delhi-Howrah</u> Route, (Scale 1:50000) January, 2006, Sheet 7 of 11 | 路線計画図 | A2 | 1 | コピー | RITES Corporation | 路線計画図(5万分の1) Delhi-Howrah ルート | | |
| 52 | <u>Preliminary Engineering-Cum-Traffic Survey</u> For Dedicated Multimodal High Axle Load Freight Corridor on <u>Mumbai-Delhi</u> Route, (Scale 1:50000) January, 2006, Sheet 4 of 12 (<u>Via Palanpur</u>) | 路線計画図 | A2 | 1 | コピー | RITES Corporation | 路線計画図(5万分の1) Mumbai-Delhi, <u>via Palanpur</u> | RITES社, Mr. P.D. Sharma(1階) | |
| 53 | <u>Preliminary Engineering-Cum-Traffic Survey</u> For Dedicated Multimodal High Axle Load Freight Corridor on <u>Mumbai-Delhi</u> Route, (Scale 1:50000) January, 2006, Sheet ? of ? , (<u>via Kota</u>) | 路線計画図 | A2 | 1 | コピー | RITES Corporation | 路線計画図(5万分の1) Mumbai-Delhi <u>via Kota</u> | | コメント:5万分の1の図が3ルート全てにあることの証明として、各ルート1枚ずつ頂いた。 |

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| 54 | Route Map of Tughlakabad - Palla 間の接続図 (Mumbai-DelhiとDelhi-Howrahが交わる ところの図)、スケール不明 | 路線計 画図 | A2 | 1 | コピー | RITES Corporation | 路線計 画図、East Corridor とWest Corridor が交わる | RITES社、Mr. P.D. Sharma (1 階) | |
| 55 | インド土木関連エンジニアリングスタンダードの重要事項選定集 (Mr. P.D. Sharmaの個人的 スタンダード集) | 本 | A4 | 1 | コピー | RITES Corporation | エンジニア リングスタン ダード集 | RITES社、Mr. P.D. Sharma (1 階) | |
| 56 | RITES Annexures (I-XII) Section VII Electrification , Feasibility Report - Delhi- Howrah Dedicated Freight Corridor, December 2005 | 本 | A4 | 184 +71 | コピー | RITES Corporation | F/Sの一 部、軌道 上の電気 図 | RITES社、Mr. N. S. Sekhawat (5 階) | |
| 57 | RITES Annexures (I-XIV) Section VII Electrification , Feasibility Report - Delhi- Mumbai Dedicated Freight Corridor, December 2005 | 本 | A4 | 215 +170 | コピー | RITES Corporation | F/Sの一 部、軌道 上の電気 図 | | |
| 58 | ディーゼル機関車関連資料 | CD | | | | RITES Corporation | ディーゼ ル機関車 性能曲 線、プ レーキ曲 線、ス | RITES社、Mr. Pradeep Kumar (5階) | |
| 59 | インドゾーナル鉄道System Map電子ファイ ル | CD | | | | RITES Corporation | 計14 Zonal area Railway | RITES社、Mr. Sanjay Misra (6 階) | |
| 備考*1: 資料の収集先の担当者氏名に関しては、現地での議事録もあわせて参照いただきたい | | | | | | | | | |
| SW後の収集資料 | | | | | | | | | |
| K-1 | System Map of Northern Railway | 地図 | A1 | | オリジナル | Ministry of Railways Government of India | 路線図 | MOR | |
| K-2 | System Map of North Central Railway | 地図 | A1 | | オリジナル | Ministry of Railways Government of India | 路線図 | MOR | |
| K-3 | System Map of West Central Railway | 地図 | A1 | | オリジナル | Ministry of Railways Government of India | 路線図 | MOR | |
| K-4 | System Map of Northern Western Railway | 地図 | A1 | | オリジナル | MOR | 路線図 | MOR | |
| K-5 | DFC線路縦断面図(Delhi-Mumbai) | | CD | | | RITES | | Mr. P. D. Sharma | |
| K-6 | DFC線路縦断面図(Delhi-Howrah) | | CD | | | RITES | | Mr. P. D. Sharma | |
| K-7 | Jawaharal Nehru Port Trust Sheva, Tal-Uran, Navi Mumbai | 報告書 | A4 | 78 | | RITES | | | |
| K-8 | Line Capacity Statement SW後に収集 | 需要 予測 | A4 | 26 | | RITES | | | |
| K-9 | TERI Energy Data Directory & Yearbook 2002/3/1 | 電力 | A4 | 35 | | RITES | | | |
| K-10 | Westean Railway Rajkot Division Yard Diagram | 駅レイ アウト | A4 | 21 | コピー | RITES | | Mr. P. D. Sharma | |
| K-11 | Westean Railway Vadodara Division Yard Diagram | 駅レイ アウト | A4 | 40 | コピー | RITES | | Mr. P. D. Sharma | |
| K-12 | North Western Railway Ajmer Division Section: Madar-Palanpur | 駅レイ アウト | A4 | 53 | | RITES | | Mr. P. D. Sharma | ただし ヒンドウ語 |
| | 線路縦断面図 | 線路 | | | | RITES | | Mr. P. D. | ダブル |

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| K-13 | Westean Railway Rajkot Division Palanpur- Mahesana 間 | 縦断面図 | A3 | 6 | | | | Sharma | 部分あり |
| K-14 | 線路平面図 Westean Railway Rajkot Division Siddhapur-Mahesana 間 | 線路 平面図 | A3 | 6 | | RITES | | Mr. P. D. Sharma | ダブル 部分あり |
| K-15 | 概略、線路平面図、縦断面図 Westean Railway Vadodara Division | | A4 | 69 | | RITES | | Mr. P. D. Sharma | |
| K-16 | Station Yard North Western Railway Jaipur Division Rewar- Phulera間のKHORI Station Yard Jaipur Division内の各駅 | 各駅レ アウト | A0 横長 | 17 | | RITES | | Mr. P. D. Sharma | |
| K-17 | 線路縦断面図 North Western Railway Jaipur Division Jaipur Division内0km ~ 13.5 km間の縦断 | 線路 縦断面図 | A3 横長 | 23 | | RITES | | Mr. P. D. Sharma | |
| K-18 | Dadri Yard Plan 他 | ヤード | A0他 | 14 | | RITES | | Mr. P. D. Sharma | |
| K-19 | Kota Division Index Plan Nad-lke | 平面図 | A4 | 78 | | RITES | | Mr. P. D. Sharma | |
| K-20 | Kota Division Yard Diagram Nad-Lke | 駅 Diagram | A4 | 34 | | RITES | | Mr. P. D. Sharma | |
| K-21 | Kota Division 平面図と各駅配線略図 | 平面図 配線略 図 | A4 | 155 | | RITES | | Mr. P. D. Sharma | |
| K-22 | Datum起点からの縦断面図と平面図 | 縦断面図 平面図 | A4 | 137 | | RITES | | Mr. P. D. Sharma | |
| K-23 | Yard Plans GDA-NAD Section 2No-5 Panch Piplia to Bamnia 他 | Yard Plan | A0 他 | 12 | | RITES | | Mr. P. D. Sharma | |
| K-24 | Yard Plans GDA-NAD Section 2 No-3 Dahod to Bordi 他 | Yard Plan | A0 他 | 19 | | RITES | | Mr. P. D. Sharma | |
| K-25 | Draft Reginal Plan-2021 National Capital Region | 本 | A4 | 247P | | | | | |
| K-26 | Bombay Division Index Plan & Section 他 | 縦断 | A3 | 61 他 | | RITES | | Mr. P. D. Sharma | |
| K-27 | Bomba Division Diagramu of St | yard Diagram u | 様々 | 27葉 | | RITES | | Mr. P. D. Sharma | |

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| E-1 | Rural Development Statistics 2003-2004 | 図書 | * | | | | National Institute of Rural Development |
| E-2 | India At A Glance 2004, (Statistical Overview & Development Indicators) | 図書 | * | | | | Jagran Research Centre |
| E-3 | Census of India 2001, Scheduled Tribe Atlas of India | 図書 | * | | | | Development Kumar Sikri, I.A.S., Reg General & Census Commissioner, Indi |
| E-4 | Floods, Flood Plans And Environmental Myths | 図書 | * | | | | Centre For Science And Environment |
| E-5 | Essentials of Environmental Studies | 図書 | * | | | | Kurian Joseph R. Nagendran, Centre for Environmental Studies |
| E-6 | Environmental Awareness And Protection, (A Basic Book On Environmental Studies) | 図書 | * | | | | Deep & Deep Publications Pvt. Ltd. |
| E-7 | The Hindu, Survey OF The Environment 2005 | 図書 | * | | | | National Press |
| E-8 | Oxford School Atlas - (Revised 31 st Edition) | 地図 | * | | | | Oxford India |
| E-9 | Dreamland's Atlas of India, (States Geography/ Road & Tourist Places) | 地図 | * | | | | Dreamland Publications |
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| E-21 | Ambient Noise Level And Air Quality Status In Delhi During Deepawali Festival Days 1999-2002 | 図書 | * | | | | Central Pollution Control Board, Minis Environment & Forests |
| E-22 | National Ambient Air Quality Monitoring Series: NAAQMS/23/2003-2004, National Ambient Air Quality Status 2001 | 図書 | * | | | | Central Pollution Control Board, Minis Environment & Forests |

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| E-23 | Natural Resource Links, A Directory of government institutions dealing with natural resources | 図書 | * | | | | Centre For Science and Environment |
| E-24 | Caring For Our Environment - an information booklet | パンフレット | * | | | | National Museum of National History- Ministry of Environment and Forests |
| E-25 | Environmental Series 2, Environmental Concerns of India An Introduction | パンフレット | * | | | | National Museum of National History- Ministry of Environment & Forests |
| E-26 | Environmental Series 3, Biodiversity | パンフレット | * | | | | National Museum of National History- Ministry of Environment & Forests |
| E-27 | Environmental Series 4, Pallavi and the coral reef | パンフレット | * | | | | National Museum of National History- Ministry of Environment & Forests |
| E-28 | Environmental Series 5, Understanding Animals | パンフレット | * | | | | National Museum of National History- Ministry of Environment & Forests |
| E-29 | Environmental Series 7, Environmental Concerns of India | パンフレット | * | | | | National Museum of National History- Ministry of Environment & Forests |
| E-30 | Environmental Series 8, Ecozones of India | パンフレット | * | | | | National Museum of National History- Ministry of Environment & Forests |
| E-31 | Environmental Series 9, Sustainable Development | パンフレット | * | | | | National Museum of National History- Ministry of Environment & Forests |
| E-32 | Environmental Series 10, Harvesting rainwater | パンフレット | * | | | | National Museum of National History- Ministry of Environment & Forests |

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| E-35 | CENSUS OF INDIA 2001, SLUM Population | CD-R | * | | | | Office of the Registrar General, India |
| E-36 | Environmental Series, Environmental Education- A Teacher's Kit | 環境学習用教材 | * | | | | National Museum of National History- Ministry of Environment & Forests |
| E-37 | ENVIRO NEWS Vol.9, July-December 2005, Environmental Information System(ENVIS | ニュース | * | | | | Ministry of Environment & Forests |
| E-38 | Annual Report 2004-2004 | 図書 | * | | | | Ministry of Environment & Forests |
| E-39 | ADB's Policy on Involuntary Resettlement, Sample | コピー | * | | | | ADB |
| E-40 | Asian Development Bank, Involuntary Resettlement, August 1995, Sample | コピー | * | | | | ADB |
| E-41 | Environmental Assessment Guideline, 2003 | 電子ファイを入手,CDに収納 | * | | | | ADB |
| E-42 | Initial Environmental Examination for Raichur-Guntakal Doubling of Railway Line, Final Report, July 2005. RITES Ltd | コピー | * | | | | Rail Vikas Nigam Limited, Ministry of Railways |
| E-43 | Environmental Impact Assessment for Phase- Corridors of Delhi Metro, March 2005, RITES Ltd | コピー | * | | | | Delhi Metro Rail Corporation |

収集資料リスト (収集資料/ 専門家作成資料)

| | | | | | | |
|----|-----|-------------|-------------------------|--------------|-------------------|-------|
| | | プロジェクトID | | 調査団番号 | | |
| 地域 | アジア | 調査団名又は専門家氏名 | インド国幹線貨物鉄道輸送力強化計画調査事前調査 | 調査の種類又は指導科目 | 開発調査 | 担当部課 |
| 国名 | インド | 配属機関名 | | 現地調査期間又は派遣期間 | 18年1月29日～18年2月18日 | 担当者氏名 |

| 番号 | 資料の名称 | 形態(図書、ビデオ、地図、写真等) | 収集資料 | 専門家作成資料 | JICA作成資料 | 注 | 発行機関 |
|------|--|-------------------|------|---------|----------|---|--|
| E-44 | Rehabilitation Programme for Slum Households on Delhi MRTS Alignment Route, Report for Delhi Metro Rail Corporation, December 1998, Society for Development Studies, New Delhi | コピー | * | | | | Delhi Metro Rail Corporation |
| E-45 | Environmental impact of the new freight corridor | 調査団に対するレター | * | | | | Eastern Railway, Chief Mechanical En |
| E-46 | Catalogue Census Products Released, Cecsus of India 2001 | 購入可能資料カタログ | * | | | | Office of the Registrar General, India |
| E-47 | Jain Book Agency News | 購入可能資料カタログ | * | | | | Jain Book Agency |
| E-48 | Environmental Engineering Division, Rites | 業務実績プロファイル | * | | | | 本格調査時の再委託候補先 コンサルタント |
| E-49 | Tetra Tech India Limited | 業務実績プロファイル | * | | | | 本格調査時の再委託候補先 コンサルタント |
| E-50 | The Development Alternatives Group | 業務紹介プロファイル | * | | | | NGO |
| E-51 | Centre for Science and Environment | 業務紹介プロファイル | * | | | | NGO |
| E-52 | National Environment Policy 2004 | 電子ファイを入手,CDに収納 | * | | | | Ministry of Environment & Forests |
| E-53 | The Tenth Five Year Plan 2002-2007 | 電子ファイを入手,CDに収納 | * | | | | Planning Commission |
| E-54 | National Conservation Strategy and Policy Statement on Environment and Development | 電子ファイを入手,CDに収納 | * | | | | Ministry of Environment & Forests |

収集資料リスト (収集資料/ 専門家作成資料)

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|----|-----|-------------|-------------------------|--------------|-------------------|-------|
| | | プロジェクトID | | 調査団番号 | | |
| 地域 | アジア | 調査団名又は専門家氏名 | インド国幹線貨物鉄道輸送力強化計画調査事前調査 | 調査の種類又は指導科目 | 開発調査 | 担当部課 |
| 国名 | インド | 配属機関名 | | 現地調査期間又は派遣期間 | 18年1月29日～18年2月18日 | 担当者氏名 |

| 番号 | 資料の名称 | 形態(図書、ビデオ、地図、写真等) | 収集資料 | 専門家作成資料 | JICA作成資料 | 注 | 発行機関 |
|------|---|-------------------|------|---------|----------|---|---|
| E-55 | Policy Statement for Abatement of Pollution, 1992 | 電子ファイを入手,CDに収納 | * | | | | Ministry of Environment & Forests |
| E-56 | The Gazette of India Extraordinary, 7th July,2004 | 電子ファイを入手,CDに収納 | * | | | | Ministry of Environment & Forests, Notification |
| E-57 | Notification, 22nd Sep.,2003 | 電子ファイを入手,CDに収納 | * | | | | Ministry of Environment & Forests, Notification |
| E-58 | Notification, 4th Aug.,2003 | 電子ファイを入手,CDに収納 | * | | | | Ministry of Environment & Forests, Notification |
| E-59 | Notification, 7th May,2003 | 電子ファイを入手,CDに収納 | * | | | | Ministry of Environment & Forests, Notification |
| E-60 | Order, 4th Jan., 2002, Mumbai | 電子ファイを入手,CDに収納 | * | | | | Ministry of Environment & Forests |
| E-61 | Order, 4th Jan., 2002, Gujarat | 電子ファイを入手,CDに収納 | * | | | | Ministry of Environment & Forests |
| E-62 | Notification, 27th Jan.,1994 | 電子ファイを入手,CDに収納 | * | | | | Ministry of Environment & Forests, Notification |
| E-63 | NATIONAL POLICY ON RESETTLEMENT AND REHABILITATION FOR PROJECT AFFECTED FAMILIES-2003 | 電子ファイを入手,CDに収納 | * | | | | MINISTRY OF RURAL DEVELOPM |
| E-64 | National Parks | 電子ファイを入手,CDに収納 | * | | | | Mapience India Limited |
| | | | | | | | |

未入手資料リスト(入手の必要有り、重要)

| No | 資料の名称 | 形態 | サイズ | 頁数 | オリジナル 又はコ | 発行機関(入手 先) | 備考 | 入手先・担当者 *1 | その他 |
|-----|---|-------|-----|-------------------------|--------------|---|----------------|---|----------------------|
| 1 | Indian Railways <u>Works Manual</u> | 本 | A4 | | | Ministry of Railways Government of India | エンジニアリングスタンダード | Mr. Mond Jamshed(Tel:011-2338-9101, 携帯:98102-74-865), Mr. Agalwal(Tel: 011-2338-3525) | |
| 2 | Indian Railways <u>Bridge Manual</u> | 本 | A4 | | | Ministry of Railways Government of India | エンジニアリングスタンダード | | 電子ファイル有り? フロッピの中身未確認 |
| 3 | Indian Railways <u>Bridge Code</u> | 本 | A4 | 244 +2 | オリジナル | Ministry of Railways Government of India | エンジニアリングスタンダード | | 電子ファイル有り? フロッピの中身未確認 |
| 4 | Indian Railways <u>Manual of AC Traction Maintenance and Operation Volume III</u> | 本 | A4 | | | Ministry of Railways Government of India | エンジニアリングスタンダード | | |
| 5-8 | あと4つのSystem Mapがそろうことによって、East Corridor とWest Corridorの全ての路線図がそろうことになる | 地図 | A1 | | | Ministry of Railways Government of India | 路線図 | | |
| 9 | 5万分の1の路線計画図(East Corridor と、West Corridor(via Kotaルート、 via Palanpurルートの2つ)計3つのルート全体の図が必要) RITES社は3ルートのほとんどを持っている。英語では以下のように記されている "Preliminary Engineering-Cum-Traffic Survey For Dedicated Multimodal High Axle Load Freight Corridor on Route, (Scale 1:50000) January, 2006" | 路線計画図 | A2 | 複数有り(100枚ほど?) | 北 - | RITES Corporation | 路線計画図 | RITES社、Mr. P.D. Sharma(1階) | |
| 10 | 詳細積算資料(報告書)(East Corridor と、West Corridor(via Kotaルート、 via Palanpurルートの2つ)計3つのルート全体の詳細積算資料が存在している。 RITES社は3ルートのほとんどを既に実施済み。 | 路線計画図 | A4 | 各区間をこまかく分けて、報告書複数存在している | 北 - | RITES Corporation | 詳細積算資料(報告書) | | |