

Report

On

Participation of

Central Pulp & Paper Research Institute

Saharanpur

In

Asian Paper – 2004

At

Suntech, Singapore

(27-29 April, 2004)

Submitted to

CESS Grants Authorities

Background and Introduction:

The Marketing Committee constituted by CPPRI Research Advisory Committee recommended that Institute should participate in exhibitions at National & International level as a part of publicity drive to highlight the facilities, R&D activities & expertise available as well as CPPRI scientists should also be exposed to the latest developments in the field of technology, machines equipments in International perspectives.

Accordingly a proposal was placed before Cess Committee to allow of CPPRI for participation in ASIAN PAPER 2004 exhibition to be held from 27th April to 29th April, 2004 at Singapore. The participation was approved by Cess Committee and Ministry of Commerce & Industry, Govt. of India granted permission for two scientists i.e Dr. S. Panwar, Sc. E-I & Dr. B. P. Thapliyal, Sc. E-I to participate in the exhibition.

Asian Paper 2004 is the largest Paper Asian event for Pulp, Paper & Board Industries, and is generally attended by delegates, visitors, and exhibitors from entire Asian Countries & countries around the world. It is an important event and provides an opportunity to learn about the latest developments, increased interaction with competitors, technologists & suppliers etc., which are useful to improve business and profitability of the institute.

Asian Paper Exhibition has grown from year to year since its inception in 1992. It has proved to be the most important & successful trade exhibition and conference for the Asian Pulp and Paper Industries located in subcontinent of Asia. Asian Paper 2004 had attracted a total of 5935 visitors from various Pulp, Paper, Tissue & Board makers, consultants, manufactures, suppliers, R&D institutes from Asia & the world.

The Asian Paper 2004 exhibition was sponsored by:

- Indian Paper Makers Association
- Indonesian Pulp & Paper Association
- Korea Paper Industry Co-operative
- Malayasian Pulp & Paper Manufacturers Associations
- Technical Associations of the Australian & New Zealand Pulp & Paper Industry (APPITA)
- Thai Pulp & Paper Industries Association (TPPIA)

Asian Paper 2004 offered an excellent opportunity not only to promote & highlight our expertise, services etc. but also to meet face to face with existing & potential buyers from the Asian Pulp and Paper manufacturers.

The organizer of Asian Paper 2004 this time has organized the event for Indian exhibitor under the India pavilion. CPPRI accordingly reserved the space early to get a prime location point as reservation was on first come first serve basis. (The cost of both 2604 (3m x 3m) offered for CPPRI at Indian pavilion was Singapore \$ 5508/-.)

VENUE: India Pavilion, Suntek City, Singapore

EXHIBITION VISITORS:

More than 400 persons representing various pulp and paper mills, consultants, technologists, suppliers etc. visited CPPRI booth in the Exhibition hall during the three days from 27-29th April 2004. The visitors were mainly from the following countries:

- Singapore
- India
- Thailand
- Indonesia
- Vietnam
- PR China
- Canada
- Italy
- Malaysia
- Australia
- Sri Lanka
- Myanmar etc.

The list of some of the visitors shown the keen interest about the facility expert services offered by CPPRI are listed in Annexure-I.

OBJECTIVE OF CPPRI FOR PARTICIPATIONS IN ASIAN PAPER 2004:

The main objectives of CPPRI to participate in Paper Asia – 2004 was to highlight the expertise and facilities available at CPPRI to create awareness among the Asian Countries as CPPRI is rated one of best institution by UNIDO having state of art facilities comparable with the institution in developed countries. Most of these Asian countries are having fairly large pulp & paper mills but these mills are lacking in having in-house as well as corporate R&D institutions these mills are normally obtain such services from US and European R&D institutions which is more expensive and time consuming due to longer distances.

The main strength of CPPRI highlighted in exhibition lies in the areas of:

- Raw material research including complete raw material evaluation and upgradation, pulping, bleaching, environment friendly pulping & bleaching, oxygen delignification, high yield pulping etc.
- The process research – including paper making, pulp evaluation, additives, quality development etc.
- Testing services – for all kinds of raw materials, (both fibrous / non fibrous), spent liquors, effluents & various additives.
- Energy & Environment Audits
- Environment management includes cost effective methods for treatment of effluent like High rate biomethanation treatment, AOX monitoring in liquid, paper & sludge evaluation and upgradation of existing effluent treatment plant.
- Process development & trouble shooting
- Training & HRD programme in all the areas of pulp & paper making environment, energy etc were highlighted.

PREPARATION OF ACTIVITIES MADE FOR PARTICIPATION IN PAPER ASIA:

- Documentary film on CPPRI
- CPPRI Brochure
- Publicity brochure on important technologies developed by CPPRI
- List of Publications
- Mail order form
- List of Testing/technical services including service fee
- Posters depicting R&D activities & technologies of CPPRI

Documentary Film:

A scientific documentary video film covering the activities of the Institute has specially been shot for such exhibitions and conferences. The documentary film (15 mins) describes in details the Institute's historical background, its creation, department wise R&D activities, technologies developed achievements, facilities & services available to render to the paper industry etc. The same was displayed during the exhibition. A CD of the same documentary was also distributed to selected visitors who shown keen interest in knowing the facilities and expertises available at CPPRI.

CPPRI Brochure:

A multicolored brochure covering R&D activities of CPPRI in various areas was distributed during this exhibition. The brochure covers the various R&D activities state of art equipments of the Institute, through latest photographs and their description. Institute has also prepared single page handbills for the following technologies / services:

- Lignin removal process
- Energy audit & energy performance evaluation
- Paper & Board Testing facilities and other services related to paper making / calibration and trouble shooting
- Use of Biotechnology in pulp & paper industry
- High Rate Biomethanation of Pulp & Paper mill waste.
- Environment management services
- Desilication of black liquor

List of Publications:

List of publications of the Institute from its inception (1976) to date was updated and printed for distribution to the visitors belonging to the academic Institutes and pulp and paper mills etc. mail order forms were also distributed along with other literature to request for CPPRI services.

Updated Price List of Services:

The update price list of technical/testing services both in rupees & dollars was prepared by the Institute for circulation among the visitors during exhibition.

Posters, Depicting CPPRI's R&D Activities:

The posters covering major R& D activities of CPPRI were prepared & carried to exhibition for demonstration. These posters include:

- Important R&D activities of CPPRI
- Technologies developed by CPPRI eg.
 - Desilication of black liquor
 - Thermal depolymerisation of black liquor
 - Lignin removal from black liquor
 - High Rate Biomethanation of Pulp & Paper mills effluent.
 - Details of Technical/Consultancy Services
 - Details of overseas consultancy project executed

Other Publicity Materials:

Apart from the material prepared specially for Asia Paper 2004, and the other relevant materials already available in CPPRI library/documentation Division is also carried to exhibition. This included:

CPPRI Handbooks:

An illustrative hand book of CPPRI prepared & updated recently was also distributed to the interested visitors. More than 75 copies of the handbooks were distributed along with latest news letter of R&D activities of CPPRI to the visitors.

Display of Books & Reports:

During its 25 years of existence, CPPRI has brought out a large number of project reports, books proceedings and publications. Some of them were carried along for display:

1. Proceedings of the International workshop on Desilication (Cochin 1989)
2. Manual of Laboratory Research Methods
3. Proceedings of the Interaction meet on Biotechnology
4. Proceedings of the International conference conducted by CPPRI

Display Material:

The following samples of product/ byproduct recovered or developed during process demonstration were also displayed during exhibition. Some of these are listed below;

1. **Desilication Process:**
 - Unwashed Silica Sludge
 - Washed silica sludge
2. **Lignin Removal Process & Lignin Utilization:**
 - Separated Lignin
 - Ply board from Lignin
 - Screw & nail test of Ply boards
 - Particle board made from straw, saw dust & lignin

3. Lime Sludge Utilization:

- Unburnt brikes from lime sludge & clay
- Lime sludge cubes for reburning
- Brikes from Lime sludge & flyash
- Cement clinker prepared from lime sludge & fly ash

4. Raw Material Upgradation:

- Straw sample
- Upgraded straw sample through disc mill
- Rejects after straw cleaning for use in particle board making

A visitors book was placed in the stall which was filled in by most of the visitors who needed technical assistance. It has been signed by more than 100 prominent Personnel. Some of these are now in touch of CPPRI for the testing and other sponsored work.

Annexure IV depicts the posters and Publicity materials prepared by CPPRI for this exhibition.

Details of Expenditure:

Enclosed as Annexure V

Achievements:

CPPRI has successfully participated in the Asian Paper 2004 exhibition held at Singapore and displayed/highlighted the R&D programmes, facilities, expertise technologies developed etc. to create an awareness among the among Asian/developed countries.

The list of visitors who have shown interest in CPPRI activities is also enclosed. Some of them are in touch with CPPRI for taking the services of CPPRI's expertise in field of pulp and paper. CPPRI is also expecting more business in future from these Asian countries.

Remarks

In view of changed scenario of global economy as well as to attain self sustainability, it is necessary for CPPRI to participate in this type of international exhibitions. The participation of CPPRI in such type of exhibition will not only attract more business from other countries but also provide opportunity to CPPRI scientists to get exposure about latest developments & happening around the world in the field of pulp and paper.

ANNEXURE-I

S. No.	Name & Address	Remarks
1	Dr. Shavak K. Bhungara, Mumbai	Application of OBA to size press.
2	Mr. Anil N. Nayak, Indonesia	Testing of light fastness of coated and optically brightened paper.
3	Mr. N. Kumar, Bangalore	Training programs for superiors/ shift engineers.
4	Mr. Muhammad Mansur, Jakarta	Chief guest of the exhibition, - Expressed satisfaction on the activities carried out by CPPRI.
5	Mr. Okta Herriyadi, Indonesia	Interested in R&D activities of CPPRI.
6	Mr. Husni Tamrin, Indonesia	Interested in R&D activities of CPPRI.
7	Mr. Rajiv Tandon, Mumbai	Information by e-mail reg. Technical evaluation.
8	Mr. Umang Sethi, Mumbai	Interested in R&D activities of CPPRI.
9	Mr. Nguyen Van Nam Tan Binh,	Coating paper mill in Binh Duong Province (South of Vietnam) has just set up and have no knowledge of technology. Need:- Package consulting of technology transfer including coating chemicals supply.
10	Mr. Vicente Lasmarias Centennial, USA	Interested in R&D activities of CPPRI.
11	Mr. Jayesh Goradia, Australia	Information about export of quality paper from India.
12	Mr. Ewa Arve, Sweden	Reg. Statistical data of Indian paper industry.
13	Mr. Dharendra K. Merchant, Mumbai	Information about R&D activities of the Institute.
14	Mr. Cheah Chen Kin, Malaysia	Interested in setting up a 50,000/- t/yr. Bleached pulp mill. – Require technical consultancy.
15	Tom Mullen,	Would like to discuss about thermal treatment during visit to India Next Week.
16	Mr. Pirkko Molkenin Matilainen, Finland	Today for future collaboration with CPPRI
17	Mr. Harjeet,	Regd. Potential on alcohol production.

	Malaysia	
18	Mr. Lora Tchen, Finland	Indian pulp and papers mills software solution for pulp and paper.
19	Mr. Debayan Ghosh, Florida	Cooperation may be explored for application of enzyme.
20	Mr. Lim Hui Peng, Singapore	Interesting in Paper testing
21	Mr. Sharon Chia, Singapore	Interesting in manufacturing of various technology products in India.
22	Mr. Fonck Pascal, Bulgaria	Interested in stands manufacturing in India.
23	Mr. Tanveer Ahmad Khalid, Pakistan	This is a good opportunity for paper and paper board incl. of the region to have R&D support
24	Mr. Mannix Chua, Metro Manila	Interested in R&D activities of institute.
25	Mr. S. Ramesh, Singapore	Interested in R&D activities of institute.
26	Mr. Rais Shaikh, Mumbai	Interested in paper testing
27	Mr. Wong Ying Fatt, Indonesia,	Interested in paper testing
28	Mr. Yam Choong Lam, Singapore	Interested in NCR Paper
29	Mr. Carlos M. Zabaleta, Spain	Crystallization of chlorides from effluent and - Evaporators
30	Mr. Kelvin Tan,	Interested in laboratory manual of testing procedures.
31	Mr. Roslan Shafii,	Interested in laboratory manual of testing procedures.
32	Mr. Irwan Kurniawan, Indonesia	Lab test – Un bleached, bleached pulp & paper, CaCO ₃ & CaO.
33	Mr. Danny Haynes,	Chemical for Deinking
34	Mr. Srikanta Chandra Jain, Thailand	Interested in R&D activities of institute.
35	Mr. Alan Farrington, Australia	Interested in R&D activities of institute.
36	Mr. Somchay Pumeesuk, Bangkok	Interested in R&D activities of institute.
37	Mr. Vicente Lasmarias, USA	Interested in R&D activities of institute.
38	Mr. Eko Saputra, Indonesia	Interested in R&D activities of institute.
39	Mr. V. Sundar, Chennai	Interested in purchase of testing manual.
40	Mr. A. Mohan Kumar, Viet Nam	Interested in R&D activities of institute.

41	Mr. Alok Agrawal, Ojota Lagos.	Regd: paper testing
42	Mr. Chandra Mohan, Malaysia.	Interested in R&D activities of institute.
43	Mr. Samuel Goh, Malaysia.	Regd. Testing facility.
44	Mr. Kharisma Abadi Surabaya, Jawa, Timur	Interested in chemical analysis and testing.
45	Mr. A. K. Agarwal, Guangxi, PRC	Information regarding black liquor recovery for straw based black liquor.
46	Mr. Pakorn Atithanawat, Bangkok, Thailand.	Interested in consultancy in quality control.
47	Mr. Alon Rosenberg, Israel	Interested in consulting and HRD.
48	Mr. I. D. Kim, Korea	Interested in R&D activities of institute.
49	Mr. Yong Siang Yew, Malaysia	Interested in R&D activities of institute.
50	Mr. C. S. (SHAY) Tan, Singapore	Interested in consultancy on application of chemicals in Indian Paper Industry.
51	Mr. Ashok K. Mishra, Westchester,	Interested in testing and HRD
52	Mr. Wong Siew Fah, Malaysia.	Interested in application and utilization of potential for pulp.
53	Mr. Abbey Farzamfar,	Information about Iranian Paper industry. Setting up of projects.
54	Mr. Chan See Ming, Singapore	Interested in testing of paper
55	Mr. R. Srinivasan, Singapore	Interested in setting up of paper mill in Nigeria.
56	Mr. T. S. Sundaram, Surat	Interested in energy and environment audit
57	Mr. Tay Kin Bee, Malaysia.	Interested in testing and evaluation of chemicals, surface sizing etc.
58	Mr. Rick Shen Yi Hui, Malaysia	Information regd. Kenaf based pulp mill being setup in Myanmar. Interested in setting Malaysia
59	Mr. N. Gokulakrishnan, Pondicherry, India	Interested in energy audit
60	Mr. Francis Lee, Singapore	Interested in - 1. HRD. Training at Malaysia 2. Technical Consulting. 3. Benchmarking Studies.
61	Sangita Harischand, Mumbai	Interested in testing of board.

62	Mr. John Ng, Singapore	Interested in paper testing
63	Mr. Ummu Hani	Interested in Chemical testing
64	Mr. Deepak Lohia, Nepal	Interested in setting up a paper mill in Nepal.

Excerpts of the exhibition



Dr. S. Panwar, Sc-E1 engaged in preparation of stall



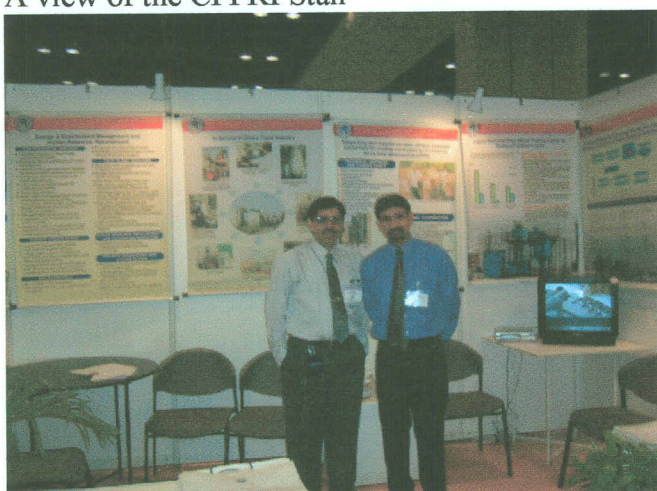
Sh. Gopala Ratnam, MD, SPB, Erode and Sh. Kashi Vishwanathan, President SPB at the CPPRI Stall



A view of the CPPRI Stall



Delegates during the Asian Paper Exhibition



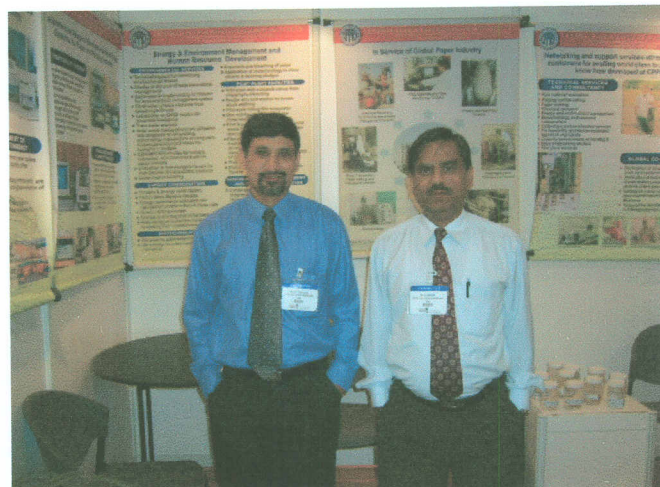
CPPRI Scientists with visitor from Thailand



CPPRI Scientists with visitor from Thailand



CPPRI Scientists with visitor from Thailand



CPPRI Scientists Dr. S.Panwar, Sc E-1 and Dr. B.P. Thapliyal , Sc E-1 in the stall