

# Selected List of References

## FEASIBILITY STUDIES SPB-PC's Selected References

S No	Assignment	Client	Country	Completion
01*	Techno-economic feasibility study for the establishment of a large-sized bagasse-based Newsprint and Paper Mill in Tamil Nadu	Government of Tamil Nadu	India	1979
02*	Study of bagasse-based mills, as a part of exploration and identification of alternative raw materials for paper manufacture	F.A.O		1980
03*	Establishment of a 100 tpd bagasse-based printing and writing paper mill	Private Investor	Sudan	1980
04*	Pre-feasibility study for establishment of a large size newsprint mill based on deinking of recycled fibre	Private Investor	India	1984
05*	Sector study for drawing-up short-range, medium-range and long-range plans for pulp and paper industry in Vietnam, covering all aspects of the industry including raw material planning, transportation needs, export potential etc (study done in association with a Canadian firm)	Swedish International Development Authority	Vietnam	
06	Techno-economic feasibility study for establishment of a large-sized bagasse based newsprint/fine paper mill	Punjab Agro Industries Corporation	India	1985
07	Sector study of Pulp and Paper Industry in India with a view to identify problems and constraints faced by the industry and evolve appropriate remedial measures for consideration of Government of India, besides development of long-term strategy for the growth of the industry, in future	Government of India, Ministry of Industry	India	1986
08	Extension of sectoral study for Pulp and Industry to examine, in particular, the viability of integrated paper/newsprint-cum-sugar mills	Government of India, Ministry of Industry	India	1987
09	Techno-economic feasibility study of a large size sugar-cum-paper complex	Andhra Pradesh Industrial Development Corporation	India	1987
10	Techno-economic feasibility study for establishment of a large sized bagasse based paper mill	Government of Bihar, Department of Industrial Development	India	1987
11	Assessment of potential for an East African Mill to export newsprint and industrial grades to Indian sub-continent	World Bank	Tanzania	1986

*\* Assignments dating backwards from 1985 were undertaken by SPB-PC when it was functioning as Projects and Consultancy Division of Seshasayee Paper and Boards Limited*

S No	Assignment	Client	Country	Completion
12	Techno-economic feasibility study for establishment of a large sized bagasse-based newsprint/fine paper mill	Gujarat Industrial Investment Corporation	India	1987
13	Revision and updating of the techno-economic feasibility study for the establishment of a 200 tpd bagasse-based newsprint/fine paper mill	Punjab Agro Industries Corporation	India	1987
14	Techno-economic feasibility study of a co-generation system	Ponni Sugars and Chemicals Ltd	India	1988
15	Techno-economic feasibility study of a new Security Paper mill and assessment of post-implementation operations of modernisation schemes of an existing mill	Government of India, Ministry of Finance	India	1988
16	Techno-economic feasibility study for renovation, modernisation and expansion of sugar mills	Government of Bihar, Department of Industrial Development	India	1988
17	Techno-economic feasibility study for establishment of a large-sized bagasse based newsprint mill	Rashtriya Chemicals and Fertilizers Ltd	India	1988
18	Techno-economic feasibility study for establishment of a tissue paper mill of 5000 tpa capacity based on bagasse	Balaji Tissue Papers Pvt Ltd	India	1986
19	Integrated market study and techno-economic feasibility study for the establishment of a Medium Density Fibre Board plant	Tamil Nadu Industrial Development Corporation Ltd	India	1989
20	Comprehensive market survey for estimating potential for Black Clawson products, as applicable to Indian Pulp and Paper Industry	Hindustan Dorr Oliver Ltd	India	1989
21	Assistance in updating project cost estimates for a large-sized newsprint project	NEPA Ltd	India	1989
22	Techno-economic feasibility study for modernisation/renovation of paper machine	West Coast Paper Mills	India	1989
23	Techno-economic feasibility study for setting up a captive bagasse pulping unit for an existing 70,000 tpa wood-based paper mill in Kenya	Panafrican Paper Mills (EA) Ltd	Kenya	1989
24	Techno-economic feasibility study for establishment of bagasse-based MDF MDF Board project in Kenya	Harry K Horne Associates	Spain	1989
25	Techno-economic feasibility study for establishment of bagasse-based paper project in Mauritius	Harry K Horne Associates	Spain	1989

S No	Assignment	Client	Country	Completion
26	Preparation of Detailed Project Report and assistance in tying-up finance for establishment of a 200 tpd capacity newsprint/fine paper mill	Punjab Agro Industries Corporation Ltd	India	1989
27	Preparation of Project Report and assistance in mobilisation of finance for establishment of a 88,900 tpa newsprint mill	NEPA Ltd	India	1989
28	Techno-economic feasibility study for the establishment of a captive bagasse pulpline	Star Paper Mills Ltd	India	1991
29	Techno-economic feasibility study for establishment of a 33000 tpa bagasse-based paper mill	Oswal Fats & Oils Ltd	India	1991
30	Techno-economic feasibility study for the establishment of a captive bagasse pulpline	West Coast Paper Mills Ltd	India	1992
31	Techno-economic feasibility report for the establishment of a Newsprint mill based on de-inking of newspaper wastes	Shiva Paper Mills Ltd	India	1992
32	Techno-economic feasibility report for the establishment of a captive bagasse pulpline	Century Pulp & Paper Mills Ltd	India	1992
33	Techno-economic feasibility report (to the World Bank's Terms of Reference) for the establishment of a 200,000 tpa bagasse-based newsprint/fine paper mill in South Arcot District, Tamil Nadu	ITC Bhadrachalam Paper Boards Ltd	India	1993
34	Techno-economic feasibility study for the establishment of a sugar and paper mill complex with a capacity of 2500 tcd cane crushing and 33,000 tpa of paper	Punjab Agro Newsprints Ltd	India	1993
35	Pre-feasibility report for the establishment of a sugar-cum-newsprint/printing & writing paper mill with a capacity of 5000 tcd cane crushing and 1,15,000 tpa of newsprint/printing and writing paper	Krishak Bharati Co-operative Ltd	India	1994
36	Techno-economic feasibility study including market survey for the establishment of a sugar-cum-newsprint/printing & writing paper mill with a capacity of 5000 tcd of cane crushing and upto 170,000 tpa of newsprint/printing & writing paper	Indo Gulf Fertilisers & Chemicals Corpn Ltd	India	1994
37	Updating the techno-economic feasibility study for the establishment of a sugar and paper mill complex with a capacity of 2500 tcd cane crushing and 100,000 tpa of paper in a joint venture with Punjab Agro Industries Corpn Ltd	Raunaq Finance Ltd	India	1994

S No	Assignment	Client	Country	Completion
38	Techno-economic feasibility study for the establishment of a paper mill with a capacity of 125,000 tpa of tissue/ printing and writing paper	Gayatri Tissue & Papers Ltd (Formerly Jutex India Ltd)	India	1994
39	Feasibility report for establishment of a waste paper based kraft paper project in Ghana	African Project Development Facility, Abidjan Cote D'Ivoire	Africa	1994
40	Techno-economic feasibility study for the proposed particle board project with board lamination facility and installation of a coal fired boiler at the sugar mill for release of bagasse for the particle board plant	National Plywood Industries Ltd	India	1995
41	Feasibility study for a large sized bagasse based Newsprint and Fine Paper mill. Non site-specific	Larsen & Toubro Ltd	India	1995
42	Feasibility study for establishment of a waste-paper based extensible sack-kraft mill in Pondicherry	Karur KCP Packaging Pvt Ltd	India	1995
43	Pre-investment study in paper industries under EMCAT project	Industrial Development Bank of India	India	1995
44	Techno-economic feasibility report for mill expansion-and-modernisation	Seshasayee Paper and Boards Ltd	India	1995
45	Techno-commercial evaluation and recommendations for modification jobs for improving the performance of recovery boiler	Hindustan Newsprint Ltd, Kottayam	India	1995
46	Techno-economic feasibility study for the establishment of a large sized bagasse based newsprint/fine paper mill (Unit #2) in Tamil Nadu	Tamil Nadu Newsprint and Papers Ltd	India	1995
47	Techno-economic feasibility report for installation of a co-generation plant	Star Paper Mills Ltd	India	1995
48	Pre-investment feasibility report for establishment of a bagasse-based paper unit in Nellore Dist, Andhra Pradesh	The Balaji Group	India	1995
49	Techno-economic feasibility study for the establishment of an integrated sugar-cum-pulp and paper unit at Choudwar, Orissa	Ballarpur Industries Ltd	India	1996
50	Techno-economic feasibility report for mill expansion-and-modernisation	Central Pulp and Paper	India	1996
51	Techno-economic feasibility report for establishment of a bagasse-based paper unit in Western Uttar Pradesh	SIEL Ltd	India	1996

S No	Assignment	Client	Country	Completion
52	Techno-economic feasibility report for establishment of a newsprint/fine paper unit at Middle East/India based on market pulp	Indian Express Newspapers (Bombay) Ltd	India	1996
53	Techno-economic feasibility report for establishment of a bagasse-based paper unit in Nellore Dist, Andhra Pradesh	The Balaji Group	India	1996
54	Pre-investment feasibility report for establishment of a paper unit in Gujarat based on market pulp	Mayar India Limited New Delhi	India	1996
55	Techno-economic feasibility report for establishment of a 200,000 tpa waste-paper based corrugating paper unit in Andhra Pradesh in joint venture with SCA Packaging, Sweden	Rank Industries Ltd	India	1996
56	Techno-economic feasibility report for establishment of a 250,000 tpa waste-paper based containerboard mill in China	SCA Weyerhaeuser	Singapore	1998
57	Techno-economic appraisal of a 40 tpd duplex board project of Saraswati Udyog Limited	Tamil Nadu Industrial Development Corporation	India	1998
58	Techno-economic appraisal and de-bottlenecking of a 23,000 tpa unit #2 of V G Paper & Boards Ltd	V G Paper & Boards Ltd	India	1998
59	Consultancy for preparation of Detailed Project Report for deinking plant of 100 tpd at Kottayam	Hindustan Newsprint Ltd	India	1998
60	Preparation of Detailed Project Report for mill development plan	The Andhra Pradesh Paper Mills Ltd	India	1998
61	Techno-economic feasibility study of installation of a captive co-generation power plant	Emami Paper Mills Ltd	India	1998
62	Preparation of project profiles for 15 different chlorine-based chemicals	Arabian Chlorine Co Ltd	KSA	1999
63	Techno-commercial feasibility study of a 71,000 tpa newsprint and P&W paper mill in Surat Dist, Gujarat	ICICI Ltd	India	1999
64	Techno-commercial-cum-market appraisal of expansion of Khanna Paper Mills Ltd	SBI Capital Markets Ltd	India	2000
65	Techno-economic feasibility report for mill development programme	ITC Bhadrachalam Paperboards Ltd	India	2000
66	Techno-economic feasibility study of a 400 tpd integrated wood-based pulp and paper mill	Karur KCP Packaging Ltd (Paper Division)	India	2000

S No	Assignment	Client	Country	Completion
67	Techno-economic feasibility report for disposal of non-condensable gases	Tamil Nadu Newsprint and Papers Ltd	India	2000
68	Techno-economic feasibility report for mill expansion-and-modernisation from 35,000 tpa to 66,000 tpa	Confidential Client	Middle East	2001
69	Due Diligence Study of Thai Pulp & Paper Industries in association with Amec Simons, Canada	Tamil Nadu Newsprint and Papers Ltd	India	2001
70	Techno-economic feasibility report for installation of a new Turbo Alternator	ITC Bhadrachalam Paperboards Ltd	India	2001
71	Techno-economic feasibility report for installation of Paper Machine #5	ITC Bhadrachalam Paperboards Ltd	India	2001
72	Snap Appraisal Study of Ballaurpur and BGPL units of BILT	Ballarpur Industries Limited	India	2002
73	Project Valuation Study of Thai Pulp Paper Industry Co Ltd, Thailand	Thai Pulp Paper Industry Co Ltd	Thailand	2002
74	Techno-economic feasibility report for integration of APPM and CPM in association with Amec Simons, Canada	The Andhra Pradesh Paper Mills Ltd	India	2002
75	Techno-economic feasibility report for expansion of the mill (Phase II)	The Sirpur Paper Mills Ltd	India	2002
76	Inspection of paper machine at Portugal for reinstallation in Dubai	Confidential Client	Middle East	2002
77	Techno-economic feasibility report for technology upgradation and modernisation of existing pulp mill	ITC Ltd, Paperboards & Specialty Papers Division	India	2003
78	Report for establishment of a green field integrated pulp and paper mill of capacity 60,000 tpa finished P&W, copier and LW pigmented grades of paper, using reed as raw material for Ministry of Industries, Korea (DPRK)	Elof Hansson AB	Sweden	2003
79	Report for installation of a tissue paper machine of capacity 70 tpd at reel, waste paper pulping unit, deinking unit, water, vacuum, steam & condensate, hood and pressurising system for a mill in Malaysia	Elof Hansson AB	Sweden	2003
80	Report on opportunity study concerning the potential for use of rechargeable batteries in the Indian pulp & paper industry	High Energy Batteries (India) Limited	India	2003
81	Technical due diligence study of Bilt Industrial Packaging Company Limited (BIPCO)	ITC Ltd, Paperboards & Specialty Papers Division	India	2003
82	Techno-economic feasibility report for installation of a 20 MW captive power plant	Seshasayee Paper and Boards Limited	India	2003

S No	Assignment	Client	Country	Completion
83	Techno-economic feasibility report for establishment of a containerboard mill of capacity range 200,00 to 300,000 tpa in Russia	SCA Packaging	Belgium	2003
84	Techno-economic feasibility report for installation of a 250 tpd paper machine and pulping facilities with required auxiliaries and utilities	Abhishek Industries Ltd Paper Division	India	2003
85	Techno-economic feasibility and valuation study of Global Boards Ltd with an emphasis on the valuation of existing useful assets and develop a comprehensive revival plan	West Coast Paper Mills Ltd	India	2003
86	Techno- economic feasibility report for project "Lotus" - installation of a new Pulp Mill	ITC Ltd, Paperboards & Specialty Papers Division	India	2004
87	Detailed Project Report for the expansion of the mill, in association with Amec E&C Services Ltd, Canada	Tamil Nadu Newsprint and Papers Ltd	India	2004
88	Techno-economic feasibility report for expansion/diversification into industrial sector	Emami Paper Mills Ltd	India	2004
89	Technical study of producing writing and printing grades pulp in CSRMP mill for use in newsprint machine	Mysore Paper Mills Ltd	India	2004
90	Techno-economic feasibility report for installation of chemical recovery plant	Delta Paper Mills	India	2004
91	Rehabilitation plan for paper machine, in association with Amec Americas Ltd	The General Company for Paper Industry, Rakta	Egypt	2004
92	Techno-economic feasibility report for installation of a 6 MW Power Plant at Shree Power (for RAS Cement operation)	Shree Cement Ltd	India	2004
93	Report on assessment of reinstatement values of ITC-PSPD's Tribeni Tissue Unit	Cholamandalam MS General Insurance, Kolkata	India	2004
94	Techno-economic feasibility report for the expansion of mill under Mill Development Plan	Tamil Nadu Newsprint and Papers Limited	India	2004
95	Techno-economic feasibility report for capacity enhancement of METSO fibreline	ITC Limited – Paperboards and Specialty Papers Divn	India	2005
96	Techno-economic feasibility report for installation of 2 x 18 MW Captive Power Plant at Shree Power, Bangur Cement Plant, RAS	Shree Cement Ltd	India	2005
97	Report on Opportunity Study for establishment of Pulp & Paper Mills in the states of Maharashtra and Madhya Pradesh	ITC Limited	India	2005



S No	Assignment	Client	Country	Completion
98	Techno-economic feasibility report for installation of a new cooking system of 250,000 tpa and a new fibreline of 120,000 tpa with chemical recovery island	ITC Limited – Paperboards and Specialty Papers Divn	India	2005
99	Techno-economic feasibility report for expansion of BILT–Ballarshah Unit and BILT Graphics Unit in association with Jaakko Poyry Consulting, Finland	Ballarpur Industries Ltd	India	2005
100	Techno-economic feasibility report for expansion of the mill by installing a newsprint machine	Emami Paper Mills Ltd	India	2005
101	Techno-economic feasibility report for the Mill Development Plan comprising ECF/ Ozone bleach pulp mill and 400 tpd printing and writing paper machine	West Coast Paper Mills	India	2007
102	Techno-economic feasibility report for installation of a 100 tpd kraft paper mill	Eastern Minerals & Trading Agency, Kolkata	India	2007
103	Market Survey for installation of a green field tissue paper mill	Newsprint Trading & Sales Corporation, New Delhi	India	2007
104	Techno-economic feasibility study for installation of an used paper machine	The Andhra Pradesh Paper Mills Ltd	India	2007
105	Assistance in preparing feasibility study for a green field recycled fibre based paper mill (Hot Moon Project- UPM, India)	Poyry Forest Industry Oy	Finland	2007
106	Assistance in preparing feasibility study for a green field paper mill in Andhra Pradesh, India, based on merchant pulp (Whitefield Paper)	Poyry Forest Industry Oy	Finland	2007
107	Techno-economic feasibility report for establishment of a green field Mega Project of capacity 1000 tpd recycled fibre based printing and writing paper unit in association with Jaakko Poyry Consulting, Finland	Ballarpur Industries Limited	India	2007
108	Pre-investment approach study for a wood-based merchant pulp mill in India and site survey	APRIL PEC TEC	Indonesia	2007
109	Techno-economic feasibility report for installation of captive power plant for a new cement mill	Emami Power Projects Ltd	India	2007
110	Techno-economic feasibility report for installation of a new captive thermal power plant. at Bangur Cement, RAS. Unit 5	Shree Cement Ltd	India	2007
111	Techno-economic feasibility report for installation of new 20 MW turbo alternator at Bangur Cement, RAS. Unit 6	Shree Cement Ltd	India	2007

S No	Assignment	Client	Country	Completion
112	Techno-economic feasibility report for capacity expansion (150,000 tpa) by installing a multi-layer board machine (PM #6)	ITC Ltd - Paperboards and Specialty Papers Divn	India	2007
113	Techno-economic report for location of a large scale recycled fibre based newsprint mill	Emami Paper Mills Ltd	India	2008
114	Techno-economic feasibility report for capacity expansion (100,000 tpa) by installation one more paper machine (PM #3)	Tamil Nadu Newsprint and Papers Limited	India	2008
115	Techno-economic feasibility report for establishing a Tissue Paper Mill of capacity around 100 tpd, based on imported pulp as raw material	Newsprint Trading & Sales Corporation	India	2008
116	Techno-economic feasibility report for installation of a new power project	Gayatri Paper Mill (Pty) Ltd	South Africa	2008
117	Techno-economic appraisal of the TEFR for installation of a speciality paper mill in Tamil Nadu	Vesuvio Papers Pvt Ltd	India	2008
118	Techno-economic feasibility report for establishment of a 240,000 tpa liner board mill at Gujarat (Bharat Liner Board Mill Project) for Hansol, Korea	Poyry Forest Industries	Finland	2008
119	Techno-economic feasibility report for reinstallation of a used paper machine in India	IP Singapore Holding Pte. Ltd	Singapore	2008
120	Concept study of a newsprint mill in India	Confidential Client	India	2009
121	Reverification and submission of feasibility reports on DPR	Mysore Paper Mills Ltd	India	2009
122	Techno-economic feasibility report for installation of a used board machine of 300 tpd capacity in Kovai Unit	ITC Limited – Paperboards and Specialty Papers Divn	India	Ongoing
123	Techno-economic feasibility report for establishment of large sized paper mill at Nellipakka, Andhra Pradesh	ITC Limited – Paperboards and Specialty Papers Divn	India	Ongoing
124	Techno-economic feasibility report for installing a writing & printing paper mill of capacity 500 tpd, based on deinked pulp	Kejriwal Pulp & Paper Ltd	India	Ongoing
125	Techno-economic feasibility report for expansion of the mill by installing a newsprint machine (PM #4)	Emami Paper Mills Ltd	India	Ongoing
126	Techno-economic feasibility report for establishment of a new integrated wood-based pulp and paper mill	Emami Paper Mills Ltd	India	Ongoing

S No	Assignment	Client	Country	Completion
127	Techno-economic feasibility report for establishment of a new 300,000 tpa bamboo-based pulp and paper mill in Assam	North Eastern Pulp & Paper Mills Pvt Ltd	India	Ongoing

## PROJECT ENGINEERING AND MANAGEMENT SPB-PC's Selected References

S No	Assignment	Client	Country	Completion
01*	Concept to commissioning of first expansion/diversification programme, for increasing the capacity from 20,000 tpa to 35,000 tpa and diversifying the product range to include duplex board, light weight posters etc	Seshasayee Paper and Boards Ltd	India	1969
02*	Concept to commissioning of second expansion programme for increasing the capacity from 35,000 tpa to 55,000 tpa	Seshasayee Paper and Boards Ltd	India	1977
03*	Concept to rehabilitation of a 10 tpd straw-based board mill	Tamil Nadu Cardboards Ltd	India	1979
04*	Concept to commissioning of a 1,500 tcd capacity sugar mill	Ponni Sugars and Chemicals Ltd	India	1983
05*	Concept to commissioning of World Bank aided 90,000 tpa bagasse-based composite mill. This project has the distinction of producing newsprint, for the first time, out of 100% bagasse	Tamil Nadu Newsprint and Papers Ltd	India	1984
06	Project Management services for establishment of a ceramic tiles project	Neiveli Ceramics and Refractories Ltd	India	1986
07	Project Management and Engineering services and marketing assistance for a 6,000 tpa sanitary-ware unit	GMB Ceramics Ltd	India	1989
08	Identification and selection of second-hand boiler and turbo-generator and total total responsibility for dismantling, transportation, erection and commissioning, including engineering services for utilities	Seshasayee Paper and Boards Ltd	India	1990
09	Project Management services for implementation of Co-generation and Expansion Scheme	Ponni Sugars and Chemicals Ltd	India	1992
10	Procurement Assistance in Mill Modernisation of chemical recovery, pulp mill and paper machines for a 85,000 tpa integrated pulp and paper mill	The Andhra Pradesh Paper Mills Ltd	India	1993
11	Design, Engineering, Supply, Erection and Commissioning of tunnel kiln and its auxiliaries for ceramic spark plug	Motor Industries Co Ltd	India	1993
12	Project Consultancy Services for the establishment of a sugar mill in Orissa with a capacity of 2500 tcd expandable to 3500 tcd	Ponni Sugars and Chemicals Ltd	India	1994

\* Assignments dating backwards from 1985 were undertaken by SPB-PC when it was functioning as Projects and Consultancy Division of Seshasayee Paper and Boards Limited

S No	Assignment	Client	Country	Completion
13	Design, engineering, procurement and project management services for installation of a multiple stage evaporation system and auxiliaries, as an integral part of an effluent treatment system for the spent wash generated from the distillery of Aruna Sugars	Esvin Advanced Technologies Ltd	India	1994
14	Design, Engineering, Technical Services and Project Management Services for the establishment of a 100 tpd straw/bagasse-based paper mill	Oswal Fats & Oils Ltd	India	On Hold
15	Technical and Engineering Services including Project Management for Mill Expansion Project	The Andhra Pradesh Paper Mills Ltd	India	1994
16	Design, engineering, procurement and project management services for installation of a thermo-mechanical conversion reactor and auxiliaries, as an integral part of an effluent treatment system for the spent wash generated from the distillery of Aruna Sugars	Esvin Advanced Technologies Ltd	India	1994
17	Design, Engineering, Procurement Services and Project Management Services for the establishment of a Demonstration Plant of an innovative Thermo-chemical Conversion Reactor (TCCR) System	Esvin Advanced Technologies Ltd	India	1995
18	Basic Engineering support for Vision Finance and Leasing Ltd, Bombay, for their 125,000 tpa paper project in Maharashtra	Tamil Nadu Newsprint and Papers Ltd	India	1995
19	Design, engineering, supply, erection and commissioning of pre-fabricated tunnel kiln and its auxiliaries for manufacture of vitreous ceramic sanitaryware	Madhusudan Industries Ltd, Gujarat	India	1995
20	Design, Engineering, Technical Services and Project Management Services for Expansion of the integrated pulp and paper mill from 90,000 tpa to 180,000 tpa	Tamil Nadu Newsprint and Papers Ltd	India	1996
21	Design, engineering and consultancy services for renovation and modernisation of a 50,000 tpa integrated pulp and paper mill	Star Paper Mills Ltd	India	1996
22	Procurement assistance for lime kiln and accessories under Pollution Abatement Scheme for a 85,000 tpa integrated pulp and paper mill	The Andhra Pradesh Paper Mills Ltd	India	1996
23	Project Consultancy Services including Basic and Detail Engineering for the establishment of a 200,000 tpa paper mill to produce speciality papers, coated papers and coated boards	Sinar Mas Pulp & Paper (India) Ltd	India	1996

S No	Assignment	Client	Country	Completion
24	Project consultancy services for pre-project and preliminary engineering activities for the establishment of a 125,000 tpa bagasse-based integrated pulp and paper mill to manufacture fine papers and tissues	Gayatri Tissue & Papers Ltd (formerly Jutex India Ltd)	India	1996
25	Technical and engineering services including project management for mill expansion-cum-modernisation programme	Emami Paper Mills Ltd	India	1996
26	Design, engineering and technical services for establishment of a paper board project with a capacity to manufacture 65,000 tpa of multi-layer boards using waste paper	Servall Engineering Industries Ltd	India	1997
27	Design and detail engineering of the piping, electrical, instrumentation, civil and structural for renovation/upgradation of brown-stock washing and screening plant	Panafrican Paper Mills (EA) Ltd	Kenya	1997
28	Engineering/consultancy services, procurement assistance, project management services and assistance in construction management for installation of a new recovery boiler	Hindustan Newsprint Ltd Kottayam	India	1998
29	Technical and engineering services including project management for mill expansion-cum-modernisation programme (120,000 tpa capacity), involving design engineering for India's first ECF pulp mill	JK Corp Ltd	India	1998
30	Design, engineering, supply, erection and commissioning of pre-fabricated tunnel kiln and its auxiliaries for manufacture of vitreous ceramic sanitaryware	EID Parry (India) Ltd Alwar, Rajasthan	India	1998
31	Engineering/consultancy services, procurement assistance, project management services and assistance in construction management for installation of a paper machine, complete chemical recovery system, co-generation plant etc	Circar Paper Mills Ltd	India	On Hold
32	Engineering/consultancy services, procurement assistance, project management services and assistance in construction management for rebuild of a second-hand paper machine and balancing facilities	Mukerian Paper Mills Ltd	India	On Hold
33	Engineering/consultancy services for introduction of a new high consistency hydrogen peroxide bleaching system in chemi-mechanical pulping line	Hindustan Newsprint Ltd Kottayam	India	On Hold
34	Engineering/consultancy services for installation of a board mill to manufacture 95,000 tpa of multi layer boards using waste paper as primary raw material and stock preparation capable of supplying to the board machines of PPB and UPI	PacAsia Paper Board Industries Pte Ltd	Singapore	Aborted

S No	Assignment	Client	Country	Completion
35	Pre-engineering, design/detail engineering services and procurement assistance for establishment of a 40,000 tpa folding box manufacturing plant	Rank SCA Packaging India Pvt Ltd, Hyderabad	India	On Hold
36	Consultancy services for implementation of 2500 tcd sugar project for Gummidipoondi Co-op Sugar Mills	Tamil Nadu Sugar Corporation	India	Aborted
37	Engineering/consultancy services, procurement assistance, project management services and assistance in construction management for installation of a new recovery island and power plant	Varinder Agro Chemicals Ltd	India	1999
38	Detail design, manufacture and supply of MSRL tankers and semi-trailers for hydrochloric acid transportation	Arabian Chlorine Co Ltd	KSA	1999
39	Detail engineering services for a tissue paper machine	ABC Paper and Paper Mill Pty Ltd	Australia	On Hold
40	Detail engineering services for installation of a wet lap machine	Tamil Nadu Newsprint and Papers Ltd	India	1999
41	Project consultancy and engineering services for expansion project, including detail engineering for a high speed refurbished paper machine, to increase the capacity from 60,000 tpa to 115,000 tpa	Seshasayee Paper and Boards Ltd	India	2000
42	Engineering/consultancy services, procurement assistance, project management services and assistance in construction management for installation of a 35 tph FBC Boiler and 5 MW Turbo Alternator for captive co-generation power plant	Emami Paper Mills Ltd	India	2001
43	Detail engineering services for rebuild of Paper Machine #1 incorporating "on-machine" coating facilities	ITC Bhadrachalam Paperboards Ltd	India	2001
44	Basic and detail engineering services for installation of a 90 tph FBC boiler and turbo generator for co-generation of power	Tamil Nadu Newsprint and Papers Ltd	India	2001
45	Engineering services for installation of Electrostatic Precipitator for Coal Fired Boiler #3	ITC Bhadrachalam Paperboards Ltd	India	2001
46	Design and engineering services and project management services for Pulp Mill and Chemical Recovery areas under expansion-and-modernisation programme which incorporates ECF bleaching	ITC Bhadrachalam Paperboards Ltd	India	2002
47	Engineering/consultancy services, procurement assistance, project management services and assistance in construction management for installation of 2 x 18 MW TG Set along with 2 x 80 tph Boiler for captive power generation	Shree Cements Ltd	India	2003

S No	Assignment	Client	Country	Completion
48	Design, engineering and project management services for installation of a pulp sheeting machine	ITC Limited, Bhadrachalam Paperboards Division	India	2003
49	Detail engineering services covering mechanical, layouts, piping, supports, electricals and instrumentation for a 17,000 tpa cotton linter pulping line project at Turkmenistan	Elof Hansson AB	Sweden	2003
50	Engineering services for setting up of Pilot Plant for production of Cellulose, Silica etc from Rice Straw	Punjab Agro Industries Corporation	India	On Hold
51	Detail engineering services for piping and supports for paper machine and its auxiliaries for a pulp and paper project at Turkmenistan	GAP-INSAAT	Turkey	2004
52	Procurement advisory and engineering services for DCS and QCS along with engineering co-ordination with DCS/QCS supplier for a pulp and paper project at Turkmenistan	GAP-INSAAT	Turkey	2004
53	Design, engineering and project management services for installation of a 75,000 tpa multi-layer board machine	ITC Limited, Bhadrachalam Paperboards Division	India	2004
54	Basic and detail engineering services for chemical preparation system for pulp mill and paper machine of a pulp and paper project at Turkmenistan	GAP-INSAAT	Turkey	2004
55	Design, engineering and project management services for installation of a 20 MW Captive Power Plant	Seshasayee Paper and Boards Limited	India	2005
56	Project consultancy and engineering services for the expansion project of Union Paper Mills, Dubai	MAHY Khoory & Co	Dubai	2005
57	Detail engineering services for installation of a size press and connected auxiliaries and accessories for PM #5 of the mill	ITC Ltd, Paperboards and Specialty Papers Division	India	2005
58	Project consultancy services for augmentation of stock preparation system and the multi-layer board machine by installing deinking facility at Dakshin Unit	ITC Ltd, Paperboards and Specialty Papers Division	India	2005
58	Project consultancy services for augmentation of stock preparation system and the multi-layer board machine by installing deinking facility at Dakshin Unit	ITC Ltd, Paperboards and Specialty Papers Division	India	2005
59	Detail engineering and technical consultancy services for installation of a second-hand duplex board machine at Central Pulp Mills, Gujarat	JK Paper Ltd	India	2006



S No	Assignment	Client	Country	Completion
60	Complete design and detail engineering and project management services for implementation of expansion scheme involving, inter alia, the largest single line ECF pulp mill in the country	The Andhra Pradesh Paper Mills Ltd	India	2006
61	Engineering/consultancy services for installation of additional 1 x 6 MW captive thermal power plant at Beawar	Shree Cement Ltd	India	2006
62	Engineering/consultancy services for installation of 1 x 18 MW TG set along with 1 x 85 tph boiler for captive power plant	Shree Cement Ltd	India	2007
63	Project engineering services for electrical installations of a yarn manufacturing unit at Barnala, Punjab	Abhishek Industries Ltd	India	2007
64	Project engineering and technical services for implementation of mill development plan involving installation of a paper machine (PM #3), fibre preparation and utilities	Emami Paper Mills Ltd	India	2007
65	Project engineering and technology upgradation programme for modernisation of chipper house and recausticising plant	ITC Ltd – Paperboards and Specialty Papers Division	India	2007
66	Engineering/consultancy services for installation of 2 x 18 MW captive thermal power plant at RAS	Shree Cement Ltd	India	2007
67	Detail engineering and technical consultancy services for implementation of Mill Development Plan (Phase 2) covering all areas commencing from raw materials preparation upto and including storage of finished products as well as necessary utilities and auxiliaries, including supervision of construction, erection, inspection, procurement follow-up, start-up and commissioning	The Sirpur Paper Mills	India	2007
68	Project engineering for installation of a bio-diesel plant	Emami Biotek Pvt Ltd	India	2008
69	Design, engineering and project management services for implementation of Mill Development Plan covering all areas commencing from raw materials preparation upto and including installation of a new paper machine as well as necessary utilities and auxiliaries	Abhishek Industries Ltd (Paper Unit)	India	2008
70	Project consultancy services for implementation of Mill Development Plan (MDP) involving upgradation of existing chemical bagasse pulp lines to ECF bleaching and adding one chemical hardwood pulp line of 300 tpd capacity	Tamil Nadu Newsprint and Papers Ltd	India	2008
71	Project engineering services for installation of a multi-layer board machine at Atrak Pulp and Paper Industries, Iran	Norecom Ltd	Cyprus	2008

S No	Assignment	Client	Country	Completion
72	Project consultancy and engineering services for implementation of mill development plan involving 350 tpd pulp mill with ECF bleaching, chemical recovery system and 16 MW captive power plant	Seshasayee Paper and Boards Ltd	India	2008
73	Project engineering and consultancy services for installation of a new cooking and ECF pulp mill with chemical recovery island and 21 MW captive power plant (Pinnacle)	ITC Ltd – Paperboards and Specialty Papers Division	India	2008
74	Project consultancy and engineering services for rebuild of PM #4 at Bhadrachalam Unit	ITC Ltd – Paperboards and Specialty Papers Division	India	2008
75	Project consultancy and engineering services for installation of a board machine (PM #6) at Bhadrachalam Unit	ITC Ltd – Paperboards and Specialty Papers Division	India	2008
76	Project consultancy and engineering services for retrofit of drives for the paperboard machine at Kovai Unit	ITC Ltd – Paperboards and Specialty Papers Division	India	2008
77	Engineering/consultancy services for installation of 1 x 12.5 MW captive thermal power plant at Pali, Rajasthan	Maharaja Shree Umaid Mills Ltd	India	On Hold
78	Project consultancy and engineering services for rebuild of paper machine #1	Tamil Nadu Newsprint and Papers Ltd	India	2008
79	Project consultancy and engineering services for installation of a new paper machine #2	Ballarpur Industries Ltd Unit : Bhigwan	India	2008
80	Project consultancy and engineering services for installation of Fibreline and Captive Co-generation Power Plant and Utilities of the mill	The West Coast Paper Mills Ltd	India	Ongoing
81	Project consultancy and engineering services for installation of an used paper machine #2 (PM#2) with auxiliaries and utilities to increase the production capacity by 80,000 tpa	The Servalakshmi Paper Pvt Ltd Unit : Trinelveili	India	Ongoing
82	Project consultancy and engineering services for installation of a new paper machine #3	Tamil Nadu Newsprint and Papers Ltd	India	Ongoing
83	Project consultancy and engineering services for installation of a new fibreline, recovery island and paper machine #7	Ballarpur Industries Ltd Unit :Ballarshah	India	Ongoing
84	Project consultancy and engineering services for Mill Expansion Plan (MEP) to upgrade two (2) paper machines and expand the pulping and other facilities	Sabah Forest Industries	Malaysia	On Hold
85	Project consultancy and engineering services for retrofit of existing Pulp Mill	Orient Paper Mills Unit : Amlai	India	Ongoing
86	Project consultancy and engineering services for installation of an used paper machine (PM #6)	The Andhra Pradesh Paper Mills Ltd	India	Ongoing

S No	Assignment	Client	Country	Completion
87	Project consultancy and engineering services for installation of a bio-fuel fired boiler	MAHY Khoory & Co	Dubai	Ongoing
88	Project consultancy and engineering services for the expansion project of Union Paper Mills Ltd	MAHY Khoory & Co	Dubai	Ongoing

## OPERATIONS MANAGEMENT AND TRAINING SPB-PC's Selected References

S No	Assignment	Client	Country	Completion
01*	Operator training for a 100,000 tpa integrated pulp and paper mill	Siam Kraft Paper Co Ltd	Thailand	1966
02*	Pre-commissioning, start-up and operations assistance for pulping and chemical recovery sections of a 100 tpd straw-based mill	Parsons & Whittemore Inc (Saida Project)	Algeria	1978
03*	Pre-commissioning and start-up assistance, operations training and operations assistance for the pulping and chemical recovery sections of a 200 tpd wood-based merchant pulp mill	Cellulose Resources Corpn (on behalf of SPIE-Battignolles, France)	Philippines	1980
04*	Training of operations personnel (including laboratory chemists/technicians) for 100,000 tpa bagasse-based Newsprint and Fine Paper Mill	Tamil Nadu Newsprint and Papers Ltd	India	1984
05*	Operations management and training, for World Bank aided 60,000 tpa integrated pulp and paper mill, manufacturing newsprint and sack kraft, in association with a Canadian Firm	Southern Paper Mills (on behalf of Industrial Projects International, Gibraltar)	Tanzania	1988
06	Technical support in Training and Co-ordination of operations for a 150,000 tpa wood-based integrated pulp and paper mill in Iran	Dorr Oliver B.V.	Amsterdam	1992
07	Operations management and training, for World Bank aided 60,000 tpa integrated pulp and paper mill, in association with a Canadian Firm	Southern Paper Mills (on behalf of Industrial Projects International, Gibraltar)	Tanzania	1993
08	Operations management and training, for World Bank aided 60,000 tpa integrated pulp and paper mill	Southern Paper Mills (on behalf of Industrial Projects International, Gibraltar)	Tanzania	1994
09	Technical assistance in the management and production co-ordination of the plant	Mazandaran Wood and Paper Industries	Iran	Aborted
10	Training in operations and maintenance of DCS for the Client's instrumentation engineers and training in process operations for process engineers	GAP-INSAAT	Turkey	2003
11	Supervision of erection and commissioning of a writing and printing paper machine at Maragheh Paper Industries Co (MPIC), Iran	GL&V-Dorr-Oliver-Eimco GmbH	Germany	2005

\* Assignments dating backwards from 1985 were undertaken by SPB-PC when it was functioning as Projects and Consultancy Division of Seshasayee Paper and Boards Limited

## TECHNICAL AUDIT AND MILL DEVELOPMENT STUDIES SPB-PC's Selected References

S No	Assignment	Client	Country	Completion
01	Conversion study to examine the techno-economic feasibility of converting the existing slow-speed Rayon grade pulp sheeting machine into a high-speed paper machine	Andhra Pradesh Rayons Ltd	India	1987
02	Detailed analysis and submission of recommendations for modification of the existing wood pulping line to process bagasse pulp	The Andhra Pradesh Paper Mills Ltd	India	1988
03	Technical audit and modernisation study of a 20 tpd kraft liner mill	Paper Packaging Ltd	India	1989
04	Technical audit and mill development study of a 80000 tpa integrated pulp and paper mill	The Andhra Pradesh Paper Mills Ltd	India	1990
05	Preparation of mill development plan for de-bottlenecking, technical upgradation and expansion of a 90,000 tpa composite mill	Tamil Nadu Newsprint and Papers Ltd	India	1990
06	Technical audit and mill development study of a 80,000 tpa integrated pulp and paper mill	Orient Paper and Industries Ltd	India	1990
07	Technical audit and mill development study of a 10 tpd tissue paper mill	HMG Industries Ltd	India	1990
08	Technical audit and consultancy services of a 50,000 tpa integrated pulp and paper mill	Star Paper Mills Ltd	India	1991
09	Technical audit and mill development study of a 10,000 tpa paper mill	Shiva Paper Mills Ltd	India	1991
10	Technical audit and mill development study of a 55,000 tpa integrated pulp and paper mill	Seshasayee Paper and Boards Ltd	India	1992
11	Technical audit and mill development study of a straw-based paper mill	Madhya Bharat Papers Ltd	India	1992
12	Technical audit and mill development study of a wood-based integrated paper and rayon-grade pulp mill	Century Pulp & Paper Mills Ltd	India	1992
13	Detailed analysis and submission of recommendations on the Operation of Existing Coal Fired Boilers	The Andhra Pradesh Paper Mills Ltd	India	1992
14	Technical audit and mill development study of 80,000 tpa newsprint mill	Hindustan Newsprint Ltd, Kottayam	India	1994

S No	Assignment	Client	Country	Completion
15	Technical audit and mill development study of 120,000 tpa writing & printing and newsprint mill	Mysore Paper Mills Ltd	India	1995
16	Technical audit and mill development study of 12,000 tpa fine paper mill based on straw and bagasse	Circar Paper Mills Ltd	India	1995
17	Technical audit and mill development study of 7,200 tpa fine paper mill based on straw and grass	Emami Paper Mills Ltd Orissa	India	1995
18	Technical audit and mill rehabilitation and development study of 88,000 tpa bamboo/wood based newsprint mill	NEPA Limited	India	1995
19	Technical audit and mill development study of 75,000 tpa paper mill	JK Corp Ltd	India	1995
20	Technical audit and mill development study of two units each 80,000 tpa bamboo-based fine paper mill	Hindustan Paper Corp Ltd (Units: Nagaon and Cachar)	India	1995
21	Update of technical audit and mill development study of a 80,000 tpa integrated pulp and paper mill	Orient Paper and Industries Ltd	India	1995
22	Technical audit and mill development study of 20,000 tpa fine paper mill based on straw and bagasse	Varinder Agro Chemicals Ltd	India	1996
23	Technical audit and mill development study of a 180,000 tpa composite mill	Tamil Nadu Newsprint and Papers Ltd	India	1997
24	Technical audit and proposals for improvement of a 45,000 tpa bagasse based kraft mill	Nath Pulp & Paper Mills Ltd, Aurangabad	India	1997
25	Technical audit and mill development study of a 100,000 tpa fine paper and newsprint mill based on wood	Panafrican Paper Mills (EA) Ltd	Kenya	1998
26	Technical audit and mill development study of a 105,000 tpa integrated pulp and paper mill based on wood and bamboo	The Andhra Pradesh Paper Mills Ltd	India	1998
27	Mill optimisation and development plan	Star Paper Mills Ltd	India	1998
28	Technical audit and de-bottlenecking study of a 100,000 tpa bagasse-based paper plant	Century Pulp & Paper	India	1998
29	Energy audit and management study of 25,000 tpa fine paper mill	Emami Paper Mills Ltd	India	1999
30	Mill development study of a 60,000 tpa wood/bamboo based paper plant	The Sirpur Paper Mills Ltd	India	2000
31	Mill development study of a 85,000 tpa wood/bamboo based pulping and chemical recovery plant	ITC Bhadrachalam Paper Boards Ltd	India	2000

S No	Assignment	Client	Country	Completion
32	Study on Paper Machine upgradation in Unit II	K N Agarwal Industries Ltd	India	2000
33	Snap technical appraisal of Coastal Papers Limited	Satguru Management Consultants Pvt Ltd	India	2000
34	Study on Water Conservation for Shree Gopal Unit and Ballarshah Unit	Ballarpur Industries Ltd	India	2000
35	Technical audit and energy audit of a 50,000 tpa integrated pulp and paper mill	Orient Paper Mills (Amlai Unit)	India	2001
36	Performance evaluation study for upgradation of Waste Water Treatment Plant	Varinder Agro Chemicals Ltd	India	2001
37	Technical audit and assessment of a second-hand paper machine in Portugal	Confidential Client	Middle East	2001
38	Safety audit and recommendation for recommencement of digester operation	Andhra Pradesh Paper Mills Limited	India	2001
39	Technical audit of a 33,000 tpa straw/waste paper based newsprint/paper mill at Balasore	Emami Paper Mills Ltd	India	2001
40	Technical audit and assessment of a second-hand paper machine	Andhra Pradesh Paper Mills Limited	India	2001
41	Technical audit and de-bottlenecking study of a 80,000 tpa wood/bamboo based paper plant	The Sirpur Paper Mills Ltd	India	2002
42	Technical audit and mill development study for capacity expansion and technology upgradation of a 35,000 tpa agro-based paper mill	Abhishek Industries Ltd Paper Division	India	2003
43	Technical audit report of the 2 x 18 MW captive power plant	Shree Power (a Unit of Shree Cement Limited)	India	2003
44	Study on water conservation for the West Coast Paper Mills Ltd, Dandeli	The West Coast Paper Mills Ltd	India	2004
45	Review of captive power plant and asset valuation of BILT units	Ballarpur Industries Ltd	India	2005
46	Due Diligence Study, Enterprise Valuation (EV) and Techno-economic Valuation (TEV) of Brown Paper Technologies Ltd	Karnataka Bank Ltd	India	2006
47	Study and recommendation of a suitable Distributed Control System (DCS) for the main production line of the plant under its expansion programme	Gayatri Paper Mill (Pty) Ltd Germiston, Johannesburg	South Africa	2007
48	Asset valuation studies of all paper and board units of ITC Limited	ITC Limited	India	Ongoing

## REVIVAL/REHABILITATION STUDIES SPB-PC's Selected References

S No	Assignment	Client	Country	Completion
01*	Study on rehabilitation of two paper mills	National Paper Corpn	Sri Lanka	1979
02*	Rehabilitation study for revival of a sick ceramic unit	Kerala Ceramics and Refractories Ltd	India	1985
03	Rehabilitation study for revival of a 25,000 tpa capacity wood-based paper mill	Sewa Paper Mills Ltd	India	1987
04	Evaluation of the rehabilitation opportunities available for the 88,000 tpa unfinished bagasse-based Papelcol Paper Mill	Instituto De Fomento De Fomento Industrial and Papelera Colombiana S.A	Colombia	1989
05	Assistance in the development of a proposal for revival/rehabilitation of a 40,000 integrated pulp and paper mill	The Andhra Pradesh Paper Mills Ltd	India	1990
06	Revival/rehabilitation of Kerasinter Ltd - a 13,200 tpa ceramic tiles plant	The Andhra Pradesh Paper Mills Ltd	India	1991
07	Revival/Rehabilitation of Gangappa Paper Mills Limited	Aruna Sugars & Enterprises Ltd	India	1991
08	Revival/rehabilitation plan of Titagarh Paper Mills Ltd (Unit 1 and Unit 2)	Tribeni Tissues Ltd	India	1992
09	Revival/rehabilitation study of Punalur Paper Mills Ltd, a 50,000 tpa integrated pulp and paper mill in Kerala	Hindustan Newsprint Ltd	India	1995
10	Revival/rehabilitation study of a 6000 tpa ceramics sanitaryware plant	EID Parry (India) Ltd	India	1996
11	Consultancy services for disposal of Madura Sugars	Tamilnadu Sugar Corporation Ltd	India	2000
12	Project evaluation study of Titagarh Paper Mill – Unit #1	West Coast Paper Mills Ltd	India	2001
13	Approach document for expansion and diversification plans of the mill	Emami Paper Mills Ltd	India	2003
14	Project valuation study of a 56,700 tpa high quality paperboard mill in Maharashtra	West Coast Paper Mills Ltd	India	2003
15	Feasibility study on revival of Afyon Pulp Mill in Turkey	GAP-INSAAAT	Turkey	2004
16	Due diligence study of Unit #1 and Unit #2 of Titagarh Paper Mills Ltd	Titagarh Industries Ltd	India	2004
17	Study on upgradation of Paper Machine #1	Vishnuvardan Paper Mills	India	2005



## RESEARCH AND DEVELOPMENT SPB-PC's Selected References

S No	Assignment	Client	Country	Completion
01*	Identification of international R&D facilities; structuring, co-ordinating and reporting on the R&D programme for production of mechanical bagasse pulp and its use in manufacture of newsprint - (R&D trials conducted by Beloit Corporation, USA and Enso Gutzeit, Finland)	Tamil Nadu Newsprint and Papers Ltd	India	1982
02*	Collaborative research on use of agricultural fibres for paper making	Beloit Corporation	USA	1985
03	Furnish-mix evaluation and optimisation studies using bamboo and mixed tropical hardwoods	Andhra Pradesh Rayons Ltd	India	1987
04	Laboratory testing and evaluation of Australian Bagasse	CSR Ltd	Australia	1987
05	Research on Bio-technological applications in Paper Industry. Besides general applications, the research effort focused on preservation of bagasse during storage, waste-water treatment, and slime-control.	Tamil Nadu Newsprint and Papers Ltd	India	1988
06	Laboratory testing of Kenyan bagasse and furnish-mix optimisation studies	Panafrican Paper Mills (EA) Ltd	Kenya	1989
07	Laboratory testing and evaluation of paper-making potential of Date Palm fronds	Omar Zawawi Establishment	Oman	1994
08	Laboratory testing and evaluation of newsprint/fine paper-making characteristics of bagasse from Uttar Pradesh	Indo Gulf Fertilisers and Chemicals Corpn Ltd	India	1995

\* Assignments dating backwards from 1985 were undertaken by SPB-PC when it was functioning as Projects and Consultancy Division of Seshasayee Paper and Boards Limited

## ENVIRONMENTAL IMPACT ASSESSMENT STUDIES SPB-PC's Selected References

S No	Assignment	Client	Country	Completion
01	Rapid EIA study for the establishment of a 200,000 tpa paper mill to produce speciality papers, coated papers and coated boards	Sinar Mas Pulp & Paper (India) Ltd	India	1995 <i>MOEF approval obtained</i>
02	Rapid EIA study for the establishment of a sugar-cum-newsprint/printing and writing paper mill with a capacity of 5000 tcd cane crushing and 170,000 tpa of newsprint/printing and writing paper	Indo Gulf Fertilisers & Chemicals Corpn Ltd	India	1995 <i>Project Shelved</i>
03	Rapid EIA study in connection with the expansion of the mill from 60,000 to 120,000 tpa	Seshasayee Paper and Boards Ltd	India	1995 <i>MOEF approval obtained</i>
04	Rapid EIA study in connection with the expansion of the mill from 75,500 to 160,000 tpa	JK Corp Ltd	India	1996 <i>MOEF approval obtained</i>
05	Rapid EIA study for the establishment of a bagasse-based fine paper mill with a capacity of 112,525 tpa	Gayatri Tissue & Papers Ltd (Formerly Jutex India Ltd)	India	1996 <i>MOEF approval obtained</i>
06	Rapid EIA study in connection with the expansion of the mill from 12,000 to 45,000 tpa	Circar Paper Mills Ltd	India	1996 <i>Project Shelved</i>
07	Rapid EIA study in connection with the expansion of the mill from 90,000 to 180,000 tpa	Tamil Nadu Newsprint and Papers Ltd	India	1996 <i>MOEF approval obtained</i>
08	Rapid EIA study for establishment of a 117,000 tpa waste-paper based corrugating paper unit in Andhra Pradesh in joint venture with SCA Packaging, Sweden	Rank SCA Packaging India Pvt Ltd	India	1997 <i>Project Shelved</i>
09	Rapid EIA study in connection with the expansion of the mill to 200 tpd production	Varinder Agro Chemicals Ltd	India	1999 <i>MOEF approval obtained</i>
10	Rapid EIA study for establishment of a 400 tpd integrated wood-based pulp and paper mill	Karur KCP Packaging Ltd (Paper Division)	India	2001 <i>Public hearing successful Project "On Hold"</i>
11	Rapid EIA study in connection with the expansion of the mill to 100,000 tpa production	ITC Bhadrachalam Paperboards Ltd	India	2001 <i>MOEF approval obtained</i>
12	Rapid EIA study in connection with the installation of a new paper machine and co-generation facility	ITC Ltd, Bhadrachalam Paperboards Division	India	2002 <i>MOEF approval obtained</i>
13	Rapid EIA study in connection with the expansion of the existing pulp mill and modernisation – Project "LOTUS"	ITC Limited, Paperboards and Specialty Papers Divn, Bhadrachalam	India	2004 <i>Project "On-Hold"</i>

S No	Assignment	Client	Country	Completion
14	Rapid EIA study in connection with expansion and modernisation of the mill	The Andhra Pradesh Paper Mills Ltd, Rajahmundry	India	2004 <i>MOEF approval obtained</i>
15	Rapid EIA study in connection with expansion and modernisation of the mill	The Sirpur Paper Mills Ltd	India	2004 <i>MOEF approval obtained</i>
16	Rapid EIA study in connection with expansion and modernisation of the mill	Coastal Papers, a Division of APPM	India	2004
17	Rapid EIA study in connection with the proposed co-generation facility at BIPCO unit of ITC Ltd, Sirumugai, Coimbatore	ITC Limited, Paperboards and Specialty Papers Divn, Bhadrachalam	India	2004
18	Rapid EIA study in connection with the expansion of the mill to 200 tpd production (Revised)	Abhishek Industries Limited (Paper unit)	India	2004 <i>MOEF approval obtained</i>
19	Rapid EIA study in connection with the expansion of the mill to 245,000 tpa production	Tamil Nadu Newsprint and Papers Limited, Kagithapuram	India	2005 <i>MOEF approval obtained</i>
20	Comprehensive EIA study in connection with the expansion of the mill to 245,000 tpa production	Tamil Nadu Newsprint and Papers Limited, Kagithapuram	India	2005 <i>MOEF approval obtained</i>
21	Rapid EIA study in connection with the expansion-cum-modernisation of the mill	Seshasayee Paper and Boards Ltd	India	2005
22	Rapid EIA study in connection with the proposed Paper Machine #3 and Power Plant of the mill	Emami Paper Mills Ltd Balasore	India	2006 <i>MOEF approval obtained</i>
23	Rapid EIA study in connection with the proposed new 100,000 tpa pulp mill project of the mill	ITC Limited, Paperboards and Specialty Papers Divn Unit: Bhadrachalam	India	2005 <i>MOEF approval obtained</i>
24	Rapid EIA study in connection with the proposed expansion of existing facilities	ITC Limited, Paperboards and Specialty Papers Divn Unit: Kovai	India	2006
25	Rapid EIA study in connection with the proposed expansion of pulp mill	The West Coast Paper Mills Ltd, Dandeli	India	2007 <i>MOEF approval obtained</i>
26	Rapid EIA study for the proposed modernisation-cum-expansion with additional paper machine (PM #6)	The Andhra Pradesh Paper Mills Ltd	India	2007
27	Environment Management Plan for installation of Board Machine (PM #2) with co-generation facility	ITC Limited, Paperboards and Specialty Papers Divn Unit: Kovai	India	2008
28	EIA study for the proposed Mill Expansion Plan 2 (MDP-II) with a new paper machine (PM #3)	Tamil Nadu Newsprint and Papers Ltd	India	2008 <i>MOEF approval obtained</i>

## VENDOR-RELATED SERVICES SPB-PC's Selected References

S No	Assignment	Client	Country	Completion
01	Design and engineering of the piping system for a state-of-the-art wood-based pulp mill (300 tpd capacity) located in China	A Ahlstrom Corporation	Finland	1996
02	Bid preparation for the turnkey supply of a 150 MW CCGT Power plant	Hyundai Engineering Construction	Korea	1997
03	Design and engineering of the piping system for a state-of-the-art RDH pulping system including preparation of piping isometric drawings and stress analysis	Fibre System Division Beloit Corporation	USA	1997
04	Bid preparation for the turnkey supply of a 180 MW Kelantissa Power plant	Hyundai Engineering Construction	Korea	1997
05	Design and engineering of the piping system for cane clarifier and fabrication drawings for tankages for a sugar mill in Egypt	Dorr Oliver BV Amsterdam	Netherlands	1997
06	Design and engineering of a cane sugar filter station including piping, electrical and instrumentation for a sugar mill in Egypt	Dorr Oliver BV Amsterdam	Netherlands	1997
07	Creation of a 3-D model of boiler structures for Haldia Project (2 x 120 tph boilers) in Intergraph PDS	Mitsui Babcock Energy India Pvt Ltd	India	1998
08	Bid preparation for the turnkey supply of a recausticising plant producing 12,000 m <sup>3</sup> /day of white liquor.	Dorr-Oliver BV	France	1998
09	Bid preparation and assistance in Client meetings, for the supply of bagasse Pulp Mill and Utilities to Iran	Babcock Wilcox Espanola	Spain	1999
10	Design and engineering of a cane sugar sweetening-off filter station including civil, structural, piping, electrical and instrumentation for a sugar mill in Egypt	Dorr Oliver BV Amsterdam	Netherlands	1999
11	Consultancy and engineering services for control and instrumentation of Guangdong Vinda Paper Mills, China	Beloit Asiapacific Pte Ltd	Singapore	1999
12	Bid preparation and assistance in Client meetings, for the turnkey supply of Pulp Mill, Paper making facilities and Utilities to Bangladesh	Elof Hansson	Sweden	2000
13	Bid preparation and assistance in Client meetings, for the supply of a Sugar Mill and Sugar Refinery to Iran	Babcock Wilcox Espanola	Spain	2000

S No	Assignment	Client	Country	Completion
14	Bid preparation for supply of Waste Water Treatment Plant for Karun Pulp & Paper Mills, Iran	AVE Inc	Iran	2001
15	Bid preparation and assistance in Client meetings, for the supply of bagasse Pulp Mill and Utilities to Sugar Cane and By Products Development Co, Iran	Jahad Tahghighat Group	Iran	2001
16	Bid preparation for supply of Waste Water Treatment Plant for Maragheh Paper Industrial Co	AVE Inc	Iran	2002
17	Detail engineering for the installation of a cotton linter pulp line in Turkmenistan	Elof Hansson AB	Sweden	2003
18	Preparation of technical offer including budgetary cost estimates for a green field pulp and paper mill of capacity 60,000 tpa	Elof Hansson AB	Sweden	2003
19	Report on inspection of plant and machinery at Grasim Unit, Mavoor, Kerala	The Sirpur Paper Mills Ltd	India	2003
20	Project report for setting up of a Greenfield integrated pulp and paper mill of capacity 60,000 tpa in Democratic Republic of Korea	Elof Hansson AB	Sweden	2003
21	Bid proposal for EMAK-Egypt Board Machine #2 Project	Elof Hansson AB	Sweden	2004

## CAPTIVE AND CO-GENERATION POWER PLANTS SPB-PC's Selected References

S No	Assignment	Client	Country	Completion
01	Installation of 1 x 18 MW and 1 x 8 MW Turbo Generator Sets along with 3 x 60 tph ignifluid boilers – Phase I	Tamil Nadu Newsprint and Papers Ltd	India	1984
02	Identification and selection of 40 tph second-hand boiler and 4 MW turbo generator and total responsibility for dismantling, transportation, erection and commissioning, including engineering services for utilities	Seshasayee Paper and Boards Ltd	India	1990
03	Installation of a 3 MW co-generation system along with one boiler	Ponni Sugars and Chemicals Ltd - Erode Unit	India	1992
04	Installation of two 3 MW co-generation system along with one 70 tph boiler	Ponni Sugars and Chemicals Ltd - Balangir Unit	India	1992
05	Preparation of techno-economic feasibility report for installation of a co-generation plant consisting of 1 x 14.5 MW TG set and 3 x 50 tph coal fired boilers	Star Paper Mills Ltd	India	1995
06	Preparation of techno-economic feasibility report for installation of 3 x 80 tph multifuel power boilers and 2 x 18.5 MW TG sets	SPB Energy Corporation Ltd	India	1995
07	Installation of 1 x 10.5 MW TG Set along with 1 x 60 tph AFBC boiler for the expansion of the mill hooking up the existing system – Phase II	Tamil Nadu Newsprint and Papers Ltd	India	1996
08	Installation of 1 x 175 tph CFBC boiler and 1 x 30 MW double extraction-cum-condensing type TG Set	Sinar Mas Pulp and Paper India Ltd	India	1996
09	Bid preparation for the turnkey supply of a 150 MW CCGT Power plant	Hyundai Engineering Construction	Korea	1997
10	Bid preparation for the turnkey supply of a 180 MW Kelantissa Power plant	Hyundai Engineering Construction	Korea	1997
11	Inspection of second-hand boiler and turbo generator set at Belgium and Germany	Seshasayee Paper and Boards Limited	India	1997
12	Provision of consultancy services for implementation of co-generation power plant consisting of one 80 tph bagasse/ lignite fired boiler along with one 4.5 MW turbo generator set and 15 MW turbo generator set	Tamil Nadu Sugar Corp Ltd (TASCO)	India	1998
13	Creation of a 3-D model of boiler structures for Haldia Project (2 x 120 tph boilers) using Intergraph PDS	Mitsui Babcock Energy India Pvt Ltd	India	1998

S No	Assignment	Client	Country	Completion
14	Parallel operation of 12 MW and 5.5 MW Turbo Generator set integrating with pressure reducing station	J K Corp Limited	India	1998
15	Analysis of catastrophe failure of the turbine, at one of their Co-operative Sugar Mills	Tamil Nadu Sugar Corp Limited	India	1998
16	Conceptualisation of conversion of stoker fired boiler to fluidised bed combustion system	Seshasayee Paper and Boards Limited	India	1998
17	Installation of one 50 tph AFBC boiler along with one 9.4 MW double extraction and condensing type turbo generator set and one 2.5 MW back pressure turbo generator set for hooking up to existing system	Varinder Agro Chemicals Ltd	India	1999
18	Evaluation of technical features of Bark fired boiler offered by vendors	Panafrican Paper Mills Limited	Kenya	1999
19	Energy Audit	Emami Paper Mills Ltd	India	1999
20	Inspection of power plant for assessing balance of plant required for completion of plant	TK Chemical Complex Ltd	Bangladesh	2000
21	Review of various combustion systems and selection of combustion system for firing solid fuels namely, coal, lignite, Australian/China coal.	Tamil Nadu Newsprint and Papers Limited	India	2000
22	Energy Audit	Orient Paper Mills	India	2001
23	Installation of 1 x 24.62 MW TG set along with 1 x 90 tph AFBC boiler for the new Co-Generation plant.	Tamil Nadu Newsprint and Papers Limited	India	2001
24	Installation of 1 x 6 MW TG set along with 1 x 35 tph AFBC boiler for the new Co-Generation plant	Emami Paper Mills Limited	India	2001
25	Techno-economic feasibility study for installation of a new turbo-alternator (TG #4)	ITC Bhadrachalam Paper Boards Limited	India	2001
26	Engineering/consultancy services for installation of 2 x 18 MW TG Set along with 2 x 80 tph Boiler for captive power generation	Shree Cements Ltd	India	2003
27	Techno-economic feasibility report for installation of a 20 MW captive power plant	Seshasayee Paper and Boards Limited	India	2003
28	Technical audit report of the 2 x 18 MW captive power plant	Shree Power (a Unit of Shree Cement Limited)	India	2003
29	Techno-economic feasibility report for installation of a 6 MW Power Plant at Shree Power (for RAS Cement operation)	Shree Cement Ltd	India	2004

S No	Assignment	Client	Country	Completion
30	Design, engineering and project management services for installation of a 20 MW Captive Power Plant	Seshasayee Paper and Boards Limited	India	2005
31	Design and engineering services, including civil, mechanical, electrical and instrumentation along with piping, for installation of a 6 MW TG Captive Power Plant	Shree Cement Ltd	India	2005
32	Techno-economic feasibility report for installation of 2 x 18 MW Captive Power Plant at Shree Power, Bangur Cement Plant, RAS	Shree Cement Ltd	India	2005
33	Engineering/consultancy services for installation of 4 MW Captive Power Plant	Industrial Organics Ltd	India	2007
34	Engineering/consultancy services for installation of 20 MW TG set	Tamil Nadu Newsprint and Papers Ltd	India	2007
35	Engineering/consultancy services for installation of 1 x 18 MW TG set along with 1 x 85 tph boiler for captive power generation at Ras	Shree Cement Ltd	India	2007
36	Engineering/consultancy services for installation of 2 x 18 MW captive thermal power plant at RAS	Shree Cement Ltd	India	2007
37	Engineering/consultancy services for installation of a 34 MW TG Set	The Andhra Pradesh Paper Mills Ltd	India	2007
38	Engineering/consultancy services for installation of 1 x 12.5 MW captive thermal power plant at Pali, Rajasthan	Maharaja Shree Umaid Mills Ltd	India	On Hold
39	Engineering/consultancy services for installation of 2 x 20 MW Captive Power Plant	Abhishek Industries Ltd	India	2008
40	Engineering/consultancy services for installation of 1 x 15 MW captive co-generation power plant	Emami Paper Mills Ltd	India	2008
41	Engineering/consultancy services for installation of waste heat recovery boiler at Beawar	Shree Cement Ltd	India	2008
42	Engineering/consultancy services for installation of 1 x 16 MW extraction and back pressure TG set at Erode	Seshasayee Paper & Boards	India	2008
43	Engineering/consultancy services for installation of 1 x 175 tph CFBC boiler and 1 x 30 MW TG set	BILT Power Ltd Unit : Bhigwan	India	2008
44	Engineering/consultancy services for installation of 18 MW TG Set (RAS)	Shree Cement Ltd	India	2008



S No	Assignment	Client	Country	Completion
45	Engineering/consultancy services for installation of 125 tph coal fired boiler and 34.5 MW TG set	The West Coast Paper Mills Ltd	India	Ongoing
46	Engineering/consultancy services for installation of 80 tph AFBC boiler and 15 MW extraction condensing TG set	Servalakshmi Paper Pvt Ltd	India	Ongoing
47	Engineering/consultancy services for installation of 200 tph CFBC boiler and 1 x 35 MW double extraction condensing TG set	Sabah Forest Industries (BILT)	Malaysia	On Hold
48	Engineering/consultancy services for installation of 160 tph CFBC boiler and 40 MW extraction condensing TG set	BILT Power Ltd Unit : Ballarshah	India	Ongoing
49	Project consultancy and engineering services for installation of a bio-fuel fired boiler	MAHY Khoory & Co	Dubai	Ongoing