

Total No. of Works Undertaken so far with the Use of Jute Geotextiles & Agrotextiles

1. Erosion Control & Hill Slope Stabilization	– 59
2. Road Construction	– 68
3. River Bank Protection	– 51
4. Railway Sector	– 09
5. Agri- Horticulture & Forestry	– 23

Total - 210

LIST OF WORKS WITH JUTE GEOTEXTILE (JGT)

A. EROSION CONTROL

Sl No	State	PIU	Particulars of work done	Year of application	Results
1	Uttarkhand	Central Soil & Water Conservation Research & Training Institute (CSWCRTI).	Mine Spoil stabilization With open weave JGT- 6.5 x 4.5 - 500 g/m ² Area covered: 10000 m ²	1987	By 1990 erosion checked, water pollution decreased, slope covered with vegetation.
2	West Bengal	Deptt. of Forest, Govt. of W.B	Hill slope protection With open weave JGT- 6.5 x 4.5 - 500 g/m ² Area covered: 5000 m ²	1988	Slope protected and covered with vegetation after 6 months.
3	West Bengal	Forest Deptt. Shankerpur Govt. of West Bengal	Sand Dune stabilization With open weave JGT- 6.5 x 4.5 - 500 g/m ² Area covered: 5000 m ²	1988	80% area covered by vegetation after 6 months.
4	Assam	Tea Research Association	Control of top soil erosion With open weave JGT- 34 x 15 - 400 g/m ² Area covered: 5000 m ²	1995	Soil loss reduced by 97%
5	Assam	Tea Research Association	Control of top soil erosion With open weave JGT- 17 x 4.5 - 300 g/m ² Area covered: 5000 m ²	1995	Soil loss reduced by 93%
6	Assam	Tea Research Association	Control of top soil erosion With open weave JGT- 34 x 15 - 300 g/m ² Area covered: 3000 m ²	1995	95% reduction in soil loss
7	Uttar Pradesh	CRRRI & PWD of U.P. Govt.	Land slide management With open weave JGT- 6.5 x 4.5 - 500 g/m ² Area covered: 5000 m ²	1996	Land slide checked, covered with vegetation.

8	West Bengal	Forest Deptt., Digha, Govt. of West Bengal.	Sand Dune stabilization With open weave JGT- 34x15-400 g/m ² Area covered: 1000 m ² With open weave JGT- 11x12-300 g/m ² Area covered: 1000 m ²	1997	Washed away by high tide in Sept'97.
9	Chhattishgarh	Western Coal Fields Ltd.	Mine spoil stabilization With open weave JGT- 7 x 7 -730 g/m ² Area covered: 40,000 m ²	2001	Spoil stabilized, sloped covered with vegetation
10	Maharashtra	Western Coal Fields Ltd.	Mine spoil stabilization With open weave JGT 7 x 7 - 730 g/m ² - Area covered: 44,000 m ²	2001	Covered with vegetation.
11	Maharashtra	Western Coal Fields Ltd.	Mine spoil stabilization With open weave JGT- 6.5x4.5-500 g/m ² Area covered: 40,000 m ²	2001	Covered with vegetation.
12	Uttar Pradesh	Northern Coal Fields Ltd.	Mine spoil stabilization With open weave JGT- 7 x 7 - 730 g/m ² Area covered: 24,000 m ²	2002	Spoil stabilized, covered with vegetation.
13	Meghalaya	Sonapur, Border Roads Organization	Land Slide Management With open weave JGT- 12 x 12 -292 g/m ² Area covered :30,000 m ²	2003	Landslide controlled, slope was stabilized with full vegetative cover.
14	Sikkim	National Hydro- electric Power Corporation TLDP - III	Land Slide Management & Steep slope stabilization With open weave JGT- 7 x 7 - 730 g/m ² Area covered: 5,400 m ²	2004	Land slide checked and slope was stabilized.
15	West Bengal	National Hydro- electric Power Corporation TLDP - I	Land Slide Management & Steep slope stabilization With open weave JGT- 7 x 7 - 730 g/m ²	2004	Land slide checked, covered with vegetation.
16	West Bengal	National Hydro- electric Power Corporation TLDP - II	Land Slide Management & Steep slope stabilization With open weave JGT- 7 x 7 - 730 g/m ²	2004	Land slide checked, covered with vegetation.
17	Assam	National Hydro- electric Power Corporation	Slope stabilization with Open weave JGT- 7 x 7 - 730 g/m ² Area covered :24,000 m ²	2005	Slope stabilized and covered with vegetation.
18	Himachal Pradesh	NTPC Limited, Kullu,HP	Slope stabilization with Open weave JGT- 7 x 7 - 730 g/m ² Area covered: 4,800 m ²	2005	Slope stabilized and covered with vegetation.
19	West Bengal	Forest Deptt., Jaldapara Govt. of West Bengal, Coochbehar Divn.	Slope protection with Open weave JGT- 7 x 7 - 730 g/m ² Area covered: 1,000 m ²	2005	Entire slope stabilized and covered with vegetation.

20	West Bengal	Public Works Department, Mundeswari, Govt. of West Bengal	Embankment Slope stabilization with Open weave JGT- 6.5x4.5-500 g/m ² Area covered: 3,500 m ²	2005	Bridge approach stabilized, slope covered with vegetation.
21	Himachal Pradesh	Kullu, NTPC Limited	Slope stabilization with Open weave JGT- 7 x 7 – 730 g/m ² Area covered :10,000 m ²	2006	Slope stabilized and covered with vegetation.
22	Himachal Pradesh	National Hydroelectric Power Corporation	Slope stabilization with Open weave JGT- 6.5x4.5- 500 g/m ² Area covered: 18,000 m ²	2007	Slope stabilized and covered with vegetation.
23	Himachal Pradesh	National Hydroelectric Power Corporation	Slope stabilization with Open weave JGT- 6.5x4.5-500 g/m ² Area covered: 18,000 m ²	2007	Slope stabilized and covered with vegetation.
24	Himachal Pradesh	National Hydroelectric Power Corporation	Slope stabilization with Open weave JGT- 6.5x4.5-500 g/m ² Area covered : 63,000 m ²	2007	Slope stabilized and covered with vegetation.
25	Nagaland	Border Road Organization	Slope protection of road embankment With open weave JGT- 12 x 12 -292 g/m ²	2007	Embankment is in good shape and slope stabilized.
26	Port Blair	Border Road Tusk Force (GREF)	Slope stabilization with Open weave JGT- 6.5x4.5-500 g/m ² Area covered: 3,000 m ²	2007	Slope stabilized, vegetation established.
27	Port Blair	Border Road Tusk Force (GREF)	Slope stabilization with Open weave JGT- 6.5x4.5-500 g/m ²	2007	Slope stabilized, vegetation established.
28	Uttar Pradesh	NHAI	Slope stabilization with Open weave JGT- 6.5x4.5 -500 g/m ² Area covered: 4,80,000m ²	2007	Erosion checked, slope stabilized with vegetative cover.
29	West Bengal	West Bengal Transport Infrastructure Development Corporation Ltd. Raidighi	Embankment slope stabilization of Bridge approach road with Open weave JGT- 6.5x4.5-500 g/m ² Area covered: 3,400 m ²	2007	Bridge approach stabilized, slope covered with vegetation.
30	West Bengal	Public Works Department, Govt. of West Bengal	Slope protection with Open weave JGT- 6.5x4.5-500 g/m ² Area covered: 2,500 m ²	2007	Slope of road embankment stabilized.
31	Assam	National Hydro-electric Power Corporation	Slope stabilization with Open weave JGT- 7 x 7 – 730 g/m ² Area covered: 24,000 m ²	2008	Slope stabilized and covered with vegetation.

32	Manipur	Border Road Organization	Slope protection of road embankment With open weave JGT- 12 x 12 -292 g/m ² Area covered: 20,000 m ²	2008	Embankment is in good shape and slope stabilized.
33	Manipur	Border Road Organization	Slope protection of road embankment With open weave JGT- 12 x 12 -292 g/m ² Area covered: 30,000 m ²	2008	Embankment is in good shape and slope stabilized.
34	Manipur	Border Road Organization	Slope protection of road embankment With open weave JGT- 12 x 12 -292 g/m ² Area covered: 20,000 m ²	2008	Embankment is in good shape and slope stabilized.
35	Manipur	Border Road Organization	Slope protection of road embankment With open weave JGT- 12 x 12 -292 g/m ² Area covered : 20,000 m ²	2008	Embankment is in good shape and slope stabilized.
36	Manipur	Border Road Organization	Slope protection of road embankment With open weave JGT- 12 x 12 -292 g/m ² Area covered: 30,000 m ²	2008	Embankment is in good shape and slope stabilized.
37	Nagaland	Border Road Organization	Slope protection of road embankment With open weave JGT- 12 x 12 -292 g/m ²	2008	Embankment is in good shape and slope stabilized.
38	Nagaland	Border Road Organization	Slope protection of road embankment With open weave JGT- 12 x 12 -292 g/m ²	2008	Embankment is in good shape and slope stabilized.
39	West Bengal	Forest Deptt. Govt. of West Bengal, Coochbehar Divn.	Slope protection with Open weave JGT- 6.5x4.5-500 g/m ² Area covered: 10,000 m ²	2008	Entire slope stabilized and covered with vegetation.
40	Himachal Pradesh	National Hydroelectric Power Corporation	Slope stabilization with Open weave JGT- 6.5x4.5-500 g/m ² Area covered : 24,000 m ²	2009	Slope stabilized and covered with vegetation.
41	West Bengal	National Highway Divn IX, PW ® Directorate	Slope protection with Open weave JGT- 6.5x4.5-500 g/m ² Area covered: 52,000 m ²	2010	Land slide protected, vegetation started
42	Panjab	CSWCRTI, Chandigar	Hill Slope Strabilization with new type of Open Weave JGT 500 gsm-1467 sq.m 600 gsm-1467 sq.m 700gsm-1467 sq.m	2011	Slope Stabilized with growth of vegetation

43	Uttarakhand	CSWCRTI, Derhadun	Hill Slope Strabilization with new type of Open Weave JGT 500 gsm-3660 sq.m 600 gsm-2440 sq.m 700gsm-2452 sq.m	2012	Slope Stabilized with growth of vegetation
44	Tamilnadu	CSWCRTI, Ooty	Hill Slope Strabilization with new type of Open Weave JGT 500 gsm-2867 sq.m 600 gsm-3904 sq.m 700gsm-3294 sq.m	2012	Slope Stabilized with growth of vegetation
45	J & K	Srinagar Uri Hydroelectric Power Project, HCC / KK Enterprise / Gloster	Slope protection with Open weave JGT- 7 x 7-730 g/m ² Area covered: 12,000 m ²	2012	Slope reported to be stabilized
46	Himachal Pradesh	Satluj Jala Bidyut NigamLtd & National Hydroelectric Power Corporation	Slope stabilization with Open weave JGT- 6.5x4.5-500 g/m ² Area covered : 2,000 m ²	2012	Slope stabilized , covered with vegetation
47	J & K	Border Road Organization	Slope stabilization with Open weave JGT- 12 x12-292 g/m ² Area covered : 856 m ²	2012	Slope stabilized , covered with vegetation
48	J & K	Border Road Organization	Slope stabilization with Open weave JGT- 6.5x4.5-500 g/m ² Area covered : 200 m ²	2012	Slope stabilized , covered with vegetation
49	West Bengal	National Highway Divn IX, PW(R) Directorate and DM-Darjeeling	Slope protection with Open weave JGT- 7 x 7 -730 g/m ² Area covered: 14,000 m ²	2012	Land slide protected, vegetation started
50	Gujrat	Narmada Fertilizer Co. by Mr. Jatin-09924250525	Water reservoir slope stabilization with Open weave JGT- 6.5x4.5-500 g/m ² Area covered : 7,500 m ²	2013	Installed in May,2013 No vegetation due to wrong species selection. Advised the solution in March,2013
51	Himachal Pradesh	Forest Dept. Govt of HP	Slope stabilization with Open weave JGT- 8 x 8-700 g/m ² (new) Area covered : 39,040 m ²	2013	Slope Stabilized with growth of vegetation

52	West Bengal	National Highway Divn IX, PW(R) Directorate and DM-Darjeeling	Slope protection with Open weave JGT- 7 x 7 -730 g/m ² Area covered: 13,000 m ²	2013	Installation completed. Slope reported to be stabilized
53	Himachal Pradesh,	Rampur Forest Circle, Khed Ki Aage Beat – Avari Block-Nirmand	Erosion of hill slope to be stabilized with 8 x 8 OW700gsm JAT – 11,060 m ²	Installed in 2013	Slope stabilized. Slope covered with vegetation
54	Khed Ki Aage Beat – Avari Block-Nirmand	Himachal Prad Rampur Forest Circle, HP esh,	Erosion of hill slope to be stabilized with 8 x 8 OW700gsm JAT – 5,434 m ²	Installed in 2013	Slope stabilized. Slope covered with vegetation
55	Alsed Khad Beat-Dehar Block-Kangoo	Himachal Pradesh, Mandi Forest Circle, HP	Erosion of hill slope to be stabilized with 8 x 8 OW700gsm JAT – 22,000 m ²	Installed in 2013	Slope stabilized. Slope covered with vegetation
56	Kalingchigar	Himachal Pradesh Kullu Forest Circle, HP	Erosion of hill slope to be stabilized with 8 x 8 OW700gsm JAT – 90,000 m ²	Installed in 2013	Slope stabilized. Slope covered with vegetation
57	Hariyana	Ragib Gandhi Thermal Power station, SE Mr. M K Kumar / Prof Mittal	Stabilization of Fly Ash OB Dump 6.5x4.5-500 g/m ² Area covered : 68,000 m ²	2014	Procurement of JGT is in progress
58	Overseas	-	Slope stabilization with Open weave JGT- 9 x 8 – 850 gsm g/m ² (139 lbs yarn) Area covered : 13,500 m ²	2014	Material procured from Birla Mills. Report yet to be received
59	West Bengal	Digruihat Bridge, Pursurah, Hooghly	Slope stabilization-Dibruihat Bridge Approach road Open weave JGT- 500gsm- 2000m ² Woven JGT-627gsm- 10000m ²	2015	Material procured from Gloster Limited

B. RIVER / CANAL BANK PROTECTION WORK WITH JUTE GEOTEXTILE (JGT)

Sl No	Site	Location	PIU	Particulars of work done	Year of application	Results
1	Nayachar (on river Hooghly),	West Bengal	Calcutta Port Trust	River Bank Protection Type of JGT used: DWT 8x12-800 gsm, treated with rot resistant chemicals & bitumen- Area covered: 33,000m ²	1989	Bank is still in good shape.
2	Padma Hasanpur, Murshidabad	West Bengal	Irrigation Department, Govt. of West Bengal.	River Bank Protection Type of JGT used DWT 8x10-760 g/m ² , treated with rot resistant chemicals & bitumen – Area covered: 1000m ²	1995	Better than granular filter in terms of performance and cheaper in cost.
3	Phulahar, Ramayanpur, Maldah,	West Bengal	Irrigation Department, Govt. of West Bengal.	River Bank Protection Type of JGT used DWT 8x12-800 g/m ² , treated with rot resistant chemicals & bitumen – Area covered: 10,000 m ²	1996	Better than granular filter in terms of performance and cheaper in cost.
4	Phulahar Valuka, Maldah,	West Bengal	Irrigation Department, Govt. of West Bengal.	Erosion Control of flood embankment Type of JGT used 6.5 x 4.5 - 500 g/m ² - - Area covered: 1000 m ²	1996	No damage by rains in 1996-97.
5	Hooghly, Kulpi, Kedarpur, Sunderban,	West Bengal	Sundarban Development Board, Govt. of W. B.	Protection of Jetty Type of JGT used DWT 8x12-800 g/m ² , treated with rot resistant chemicals & bitumen – Area covered: 500 m ²	1996	No damage by rains in 1996-97.

6	Majuli Island, Bramhaputra Assam,	Assam	SDO, Majuli & AVARD (NE)	River Bank Protection Type of JGT used DWT 8x12-800 g/m ² , treated with rot resistant chemicals & bitumen – Area covered: 500 m ²	1997	Bank is still in good shape and erosion checked.
7	Una; Himachal Pradesh.	Himachal Pradesh.	Irrigation & Public Health Deptt., Govt. of Himachal Pradesh.	River Bank Protection Type of JGT used DWT 8x12 -700 g/m ² Area covered: – 500 m ²	1997	Highly encouraging performance.
8	Barrackpore, 24-Pgs(N),	West Bengal	Irrigation & Waterways Department, Govt. of West Bengal.	River Bank Protection bathing ghat stabilization Type of JGT used DWT 8x12-800 g/m ² , treated with rot resistant chemicals & bitumen – Area covered: 500 m ²	1997	Bank is still in good shape.
9	Canal, Teesta Jalpaiguri, Teesta Barrage	West Bengal	Teesta Barrage Project, Govt. of West Bengal.	Protection of Canal Bank Type of JGT used DWT 8x12 -700 g/m ² Area covered:– 30,000 m ²	1997	A portion damaged due to steel slope.
10	Ganga Murshidabad.	West Bengal	Anti-Erosion Division, I&WD Murshidabad Govt. of West Bengal.	River Bank Protection Type of JGT used DWT 8x10 – 760 g/m ² , bitumen coated Area covered: – 9,000 m ²	1998	Feedback not available
11	Mahananda. Embankment Division., Maldah, WB.	West Bengal	Irrigation & Water Ways Dte. Govt. of West Bengal., Maldah Embankment Division.	River Bank Protection Type of JGT used DWT 8x10 – 760 g/m ² , bitumen coated Area covered: – 2,000 m ²	1998	Satisfactory.
12	Balurghat Irrigation embankment.	West Bengal	Irrigation & Water Ways Dte. Govt. of West Bengal.,	River Bank Protection Type of JGT used DWT 8x10 – 760 g/m ² , rot resistant Area covered:– 15,000 m ²	1999	Bank is in good shape and no sign of erosion is noticed
13	Mahananda. Embankment	West Bengal	Irrigation & Water Ways Dte. Govt. of West Bengal.,	River Bank Protection Type of JGT used DWT 8x10 – 760 g/m ² , bitumen coated Area covered: – 2,000 m ²	1999	Satisfactory
14	Contai Irrigation Division Govt. of West Bengal	West Bengal	Irrigation & Water Ways Dte. Govt. of West Bengal.	River Bank Protection Type of JGT used 102x39 – 760 g/m ² (treated) Area covered:– 40,000 m ²	2001	Satisfactory

15	Kulik, Raigunj	West Bengal	Irrigation & Water Ways Dte. Govt. of West Bengal..	River Bank Protection Type of JGT used 102x39 – 760 g/m ² Area covered:– 35,000 m ²	2001	Satisfactory
16	Atrei, Balurghat	West Bengal	Irrigation & Water Ways Dte. Govt. of West Bengal..	River Bank Protection Type of JGT used 102x39 – 760 g/m ² Area covered:– 14,300 m ²	2001	Satisfactory
17	Nagar, Balurghat	West Bengal	Irrigation & Water Ways Dte. Govt. of West Bengal..	River Bank Protection Type of JGT used 102x39 – 760 g/m ² Area covered:– 35,000 m ²	2001	Satisfactory
18	Atrei, South Dinajpur	West Bengal	Irrigation & Water Ways Dte. Govt. of West Bengal..	River Bank Protection Type of JGT used 102x39 – 760 g/m ² Area covered:– 25,000 m ²	2001	Satisfactory
19	Punarbhaba, South Dinajpur.	West Bengal	Irrigation & Water Ways Dte. Govt. of West Bengal..	River Bank Protection Type of JGT used 102x39 – 760 g/m ² Area covered:– 25,000 m ²	2001	Satisfactory
20	Mahanada, Balurghat	West Bengal	Irrigation & Water Ways Dte. Govt. of West Bengal..	River Bank Protection Type of JGT used DWT 8x10 – 760 g/m ² , bitumen coated Area covered:– 11,000 m ²	2001	Satisfactory
21	River Devi, Jagatsingpur,	Orissa.	Water Resource Deptt., Govt. of Orissa.	River Bank Protection (Flood embankment) Type of JGT used Open weave JGT 6.5 x 4.5 – 500 g/ m ² Area covered: 30,000 m ²	2002	Very good shape. Vegetation started.
22	River Devi, Bhubaneswar	Orissa	Water Resource Deptt. Govt. of Orissa.	River Bank Protection (Flood embankment) Type of JGT used Open weave JGT 6.5 x 4.5 – 500 g/ m ² Area covered: 30,000 m ²	2002	Very good shape. Vegetation started.
23	Phulahar, Panchanandapur, Malda	West Bengal	Irrigation & Water Ways Dte. Govt. of West Bengal..	River Bank Protection Type of JGT used DWT 102x39 – 760 g/m ² , treated with rot resistance chemical & bitumen – Area covered: 20,300 m ²	2002	Installation completed satisfactory.

24	Phulahar, Sankaritola, River Malda	West Bengal	I & WD, Govt. of W.B.	River Bank Protection Type of JGT used DWT 8x10 – 760 g/m ² , bitumen coated Area covered: 28,750 m ²	2003	Bank is still in good shape.
25	Sankaritola, River Phulahar, Malda	West Bengal	I & WD, Govt. of W.B.	River Bank Protection Type of JGT used DWT 8x10 – 760 g/m ² , bitumen coated – Area covered: 7,200 m ²	2004	Bank is still in good shape.
26	Narmada Main Canal	Gujarat	Sardar Sarobar Narmada Nigam Ltd. Govt. of Gujarat	Canal Bank Protection Type of JGT used DWT 8x10 – 760 g/m ² , bitumen coated – Area covered: 5,000 m ²	2005	Bank is still in good shape and erosion checked..
27	Narmada Main Canal Embankment,	Gujrat	Sardar Sarobar Narmada Nigam Ltd. Govt. of Gujarat	Canal Bank Stabilization Type of JGT used Open weave JGT 7 x 7 – 730 g/m ² - Area covered : 5,000 m ²	2007	Bank is still in good shape and erosion checked..
28	River Phulahar, Beside Sankaritola Malda	West Bengal	I & WD, Govt. of W.B	River Bank Protection Type of JGT used DWT 8x10 – 760 g/m ² , bitumen coated Area covered: 18,000 m ²	2007	Bank is still in good shape.
29	River Hooghly	West Bengal	Kolkata Port Trust	River Bank Protection Type of JGT used 1200 gsm bitumen treated woven JGT Area covered: 54,000 m ²	2008	Satisfactory
30	Chakruplaskar, Dimond Harbour	West Bengal	I & WD, Govt. of W.B	River Bank Protection Type of JGT used DWT 8x10 – 760 g/m ² , bitumen coated Area covered: 4,428 m ²	2009	Bank stabilized. No sign or erosion
31	Roytala, Dimond Harbour	West Bengal	I & WD, Govt. of W.B	River Bank Protection Type of JGT used DWT 8x10 – 760 g/m ² , bitumen coated Area covered: 2,200 m ²	2009	Bank stabilized. No sign of erosion
32	Ratneswarpur, Dimond Harbour	West Bengal	I & WD, Govt. of W.B	River Bank Protection Type of JGT used DWT 8x10 – 760 g/m ² , bitumen coated Area covered: 1,991 m ²	2009	Bank stabilized. No sign or erosion

33	Katiberia, Dimond Harbour	West Bengal	I & WD, Govt. of W.B	River Bank Protection Type of JGT used DWT 8x10 – 760 g/m ² , bitumen coated Area covered: 2,500 m ²	2009	Bank stabilized. No sign or erosion
34	Mouza Haripura near Ghosh Khal sluice, Kakdwip	West Bengal	I & WD, Govt. of W.B	River Bank Protection Type of JGT used DWT 8x10 – 760 g/m ² , bitumen coated Area covered: 4,085 m ²	2009	Bank stabilized. No sign or erosion
35	Sitarampur, Patharpratima, Kakdwip	West Bengal	I & WD, Govt. of W.B	River Bank Protection Type of JGT used DWT 8x10 – 760 g/m ² , bitumen coated Area covered: 6,000 m ²	2009	Bank stabilized. No sign or erosion
36	Basanti, Joynagar	West Bengal	I & WD, Govt. of W.B	River Bank Protection Type of JGT used DWT 8x10 – 760 g/m ² , bitumen coated Area covered: 4,000 m ²	2009	Bank stabilized. No sign or erosion
37	Kultali, Joynagar	West Bengal	I & WD, Govt. of W.B	River Bank Protection Type of JGT used DWT 8x10 – 760 g/m ² , bitumen coated Area covered: 6,000 m ²	2009	Bank stabilized. No sign or erosion
38	Vidya, Gosaba, Joynagar	West Bengal	I & WD, Govt. of W.B	River Bank Protection Type of JGT used DWT 8x10 – 760 g/m ² , bitumen coated	2009	Bank stabilized. No sign or erosion
39	Hingalganj, Basirhat	West Bengal	I & WD, Govt. of W.B	River Bank Protection Type of JGT used DWT 8x10 – 760 g/m ² , bitumen coated Area covered: 4,000 m ²	2009	Bank stabilized. No sign or erosion
40	Charalkhali, Basirhat	West Bengal	I & WD, Govt. of W.B	River Bank Protection Type of JGT used DWT 8x10 – 760 g/m ² , bitumen coated Area covered: 6,700 m ²	2009	Bank stabilized. No sign or erosion
41	Nischintapur bank at Kulpi Reach of river Hoogly	West Bengal	Kolkata Port Trust	River Bank Protection Type of JGT used 1200 gsm bitumen treated woven JGT Area covered: 84,000 m ²	2009	Bank stabilized.

42	Ghoramara Island, Kulpi Reach of river Hoogly	West Bengal	Kolkata Port Trust	River Bank Protection Type of JGT used 1200 gsm bitumen treated woven JGT Area covered: 84,000 m ²	2009	Satisfactory
43	Bhaluka Bazar right bank of river Fulahar, Malda	West Bengal	Mahananda Embankment Divn., I & W D, Malda	River Bank Protection Type of JGT used 1200 gsm bitumen treated woven JGT Area covered: 14.500 m ²	2011	Bank Stabilized
44	Battali, right bank of river Punarbhava, Malda	West Bengal	Malda Irrigation Divn, I & W D	River Bank Protection Type of JGT used 1200 gsm bitumen treated woven JGT Area covered: 12.000 m ²	2011	Bank Stabilized
45	Uttarsurendragunj, right bank of river Jagaddal, Patharpratima, South 24 Pgs	West Bengal	Kakdwip Irrigation Divn, I&WD	River Bank Protection Type of JGT used 1200 gsm bitumen treated woven JGT Area covered: 20,000 m ²	2011	Bank Stabilized
46	CoochBehar I / W Divn River Dharla, Sitalkuchi Block	West Bengal	I & WD, Govt. of W.B	River Bank Protection Type of JGT used DWT 102 x 39 – 760 g/m ² , bitumen treated Area covered: 10,000 m ²	2012	Bank stabilized
47	CoochBehar I / W Divn River Kaljani, Tufanj anj Block	West Bengal	I & WD, Govt. of W.B	River Bank Protection Type of JGT used DWT 102 x 39 – 760 g/m ² , bitumen treated Area covered: 11,167 m ²	2012	Bank stabilized
48	Mahi River bank protection, vadodara, Gujrat	Gujrat	Riverine of Mahi river ,Gujrat	Inside slope protection of riverine, 7 x 7 OW JGT 730 gsm- 15000 m ²	2013	Installed in Januray13. Covered with vegetation
49	River Bhagiroti, Santipur, Nadia	WB	I/W Ways, Govt. of WB	River Bank Protection Type of JGT used: DWP 85 x 32 -627 gsm, rot resistant & water repellent – 17,000m ²	May,2013	Bank treated with eco-friendly JGT is in good shape. No sign of erosion observed
50	River Mahananda (Right bank), Siliguri	WB	I/W Ways, Govt. of WB	River Bank Protection Type of JGT used DWT 102 x 39 – 760 g/m ² , bitumen treated Area covered: 10,000 m ²	February, 2014	Erosion Checked. Bank reported to be in stable condition

51	River Jagatdal, Dakhin Surendrananj 24 Parganas (S)	WB	I/W Ways, Govt. of WB	River Bank Protection Type of JGT used DWT 102 x 39 – 760 g/m ² , bitumen treated Area covered: 13,000 m ²	January, 2015	50% installation work has been completed till 08.01.2015
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C. ROAD CONSTRUCTION

Sl. No.	Site	Location	PIU	Particulars of work done	Year of application	Results
1	Kankinada, Port connecting road	Andhra Pradesh	CRRRI and Kankinada Municipality.	Road Pavement Construction Type of JGT used DWT 8x10-760 g/m ² , rot resistant Area covered: – 25,000 m ²	1996	No damage of the treated portion while the untreated road damaged severely by a cyclone.
2	Hanuman Setu	Delhi,	CRRRI	Filtration & drainage during construction of roads. Type of JGT used Nonwoven 500 g/m ² – – 1000 m ² .	1996	Satisfactory
3	Joshimath ; Malari Road,	Uttarkhand	CRRRI & PWD of U.P. Govt.	Drainage and filtration of trench drain for roads. Type of JGT used Nonwoven JGT 500 g/m ² – 1000 m ² .	1996	No damage of the stretch after one year.
4	Okha Fly Over,	Delhi,	DDA.	Filtration & drainage during construction of roads. Type of JGT used Nonwoven 500 g/m ² – – 1000 m ² .	1997	Satisfactory
5	Kandla Port,	Gujrat,	CRRRI & Kandla Port Trust.	Road Pavement Construction Type of JGT used DWT 102x39-760 g/m ² , rot resistant – 15,000 m ²	1997	No subsidence reported.
6	Ponta Sahib,	Himachal Pradesh,	CRRRI & PWD, Govt. of H.P.	Road side slope protection Type of JGT used Open weave JGT-6.5 x 4.5 - 500 g/m ² – 5000 m ²	1997	Reported to be satisfactory
7	Kandla Port Trust,	Gujarat.	CRRRI & Kandla Port Trust.	Road embankment construction Type of JGT used DWT 102x39-760 g/m ² , rot resistant – 15,000 m ²	1998	Satisfactory
8	Munsirhat-Rajput Rd, Howrah	West Bengal	P.W (Roads) Dte. Govt. of West	Road Construction Type of JGT used DWT 102x39-	1999	Satisfactory.

			Bengal.	760 g/m ² , rot resistant – 7,500 m ²		
9	Garia Station Road, Alipore	West Bengal.	Public Works Department. Govt. Of West Bengal.	Wearing Course in Roads Type of JGT used 12 x 12 – 300 g/m ² – 10,000 m ² .	1999	No pot holes and cracks developed after 3 yrs of application of JGT.
10	Kalyani,	West Bengal.	PWD Construction Divn. No.VI, Govt. Of West Bengal.	Wearing Course in Roads Type of JGT used 12 x 12 – 300 g/m ² – 3000 m ² .	1999	Satisfactory.
11	Halipad Road, Jaigaon, Jalpaiguri.	West Bengal.	Public Works Department. Govt. Of West Bengal.	Wearing Course in Roads Type of JGT used 46 x 32 – 248 g/m ² – 37,500 m ² .	1999	No reflective crack reported.
12	Border Roads, Karimganj - Silchar	Assam	Border Roads Organization	Slope protection of road embankment Type of JGT used Open weave JGT- 6.5x 4.5- 500 g/m ² Area covered: 1,00,000 m ²	2003	Highly satisfactory
13	Odlabari – Kranti Road	West Bengal.	Public Works Department. Govt. Of W.B.	Slope protection of road embankment Type of JGT used Open weave JGT- 6.5x 4.5- 500 g/m ² 3,500 m ²	2003	Slope stabilized & covered with vegetation.
14	Andulia (Kalupukur More) to Boyratala, North 24 Parganas,	West Bengal.	Panchyat & Rural Development Department, Govt. Of West Bengal.	Road Construction Under PMGSY Total length of road- 3.50 km: Type of JGT used:- 20 kN/m-17,605 m ²	2005	Road in good shape, CBR increased by three times
15	Jeliakhali (Bagdipara More) to Barmajur, Gazikhali Road North 24 Parganas	West Bengal.	Panchyat & Rural Development Department, Govt. Of West	Road Construction Under PMGSY Total length of road:-7.00 km Type of JGT used:- 20 kN/m-35,210 m ²	2006	Road is in good shape, no sign of depression / deflection noticed in the JGT treated zone
16	Port Blair, Andaman	Andaman	BRO	Slope protection of road embankment with open weave JGT- 12 x 12 -292 g/m ²	2007	Slope fully stabilized & covered with vegetation
17	U T Road to Jorabari/Barnagaon, Darrang ,	Assam	Public Works Deptt., Govt. of Assam.	Road Construction under PMGSY Pilot Project Total length of road:- 4.60 KM. Type of JGT used 15 kN-13370 m ² 30 kN-3200 m ² 20 kN/m-6440 m ² O.W. 3430 m ² B.T-8350 m ² N.W.-12870 m ²	2007	Road in good shape.
18	Rampur Satra to Dumdumia. Nagaon -Assam,	Assam	Public Works Deptt., Govt. of Assam	Road Construction under PMGSY Pilot Project Total length of road:- 4.20 KM Type of JGT used 15 kN-5800 m ² 30 kN-11400 m ²	2007	Road in good shape. CBR improved by three times

				20 kN/m-2900 m ² O.W. 71900 m ² B.T-11530 m ² N.W.-5880 m ²		
19	Khairjhiti to Ghirghoisa Road, Kawardha,	Chhattisgarh	Chhattishgarh Rural Roads Development Agency, Govt. of Chhattishgarh	Road Construction under PMGSY Pilot Project Total length of road:- 5.50 KM Type of JGT used 15 kN-6800 m ² 20 kN 6800 m ² 30 kN-10040 m ² B.T. – 3240 m ² O.W – 11240 m ²	2007	. No distress observed
20	Kodavabani to Khursi, Bilaspur,	Chhattisgarh	Chhattishgarh Rural Roads Development Agency, Govt. of Chhattishgarh	Road Construction under PMGSY Pilot Project Total length of road:-4.80 KM Type of JGT used 15 kN-14910 m ² 20 kN 6430 m ² 30 kN-8930 m ² O.W – 18670 m ² N.W.-3000 m ²	2007	No distress observed
21	Berasia to Semrakalan Approach Road, Bhopal,	Madhya Pradesh,	M.P. Rural Roads Development Agency, Govt. of Madhya Pradesh	Road Construction under PMGSY Pilot Project Total length of road:-5.10 KM Type of JGT used 15 kN-16960 m ² 20 kN/m-3570 m ² 30 kN-10710 m ² O.W – 10530 m ² N.W.-3570 m ²	2007	Satisfactory . No sign of distress observed
22	Gehlawan Village to PMGSY Road, Raisen, ,	Madhya Pradesh	M.P. Rural Roads Development Agency, Govt. of Madhya Pradesh	Road Construction under PMGSY Pilot Project Total length of road:-3.14 KM Type of JGT used 15 kN-9290 m ² 30 kN-6250 m ² O.W – 3260 m ² N.W.-3130 m ²	2007	Distress observed. Road constructed without any treatment of BC soil by the MPRRDA
23	NH 3 by-pass, Guna, MP	Madhya Pradesh	Guna Infrastructure Ltd. (M.P.)	Highway embankment slope protection Open weave 6.5 x 4.5 , 500gsm - 24000 sq.m	2007	Slope stabilized & covered with vegetation.
24	Jadupur to Mahanangal, Kendrapara,	Orissa,	Rural Works Deptt., Government of Orissa.	Road Construction under PMGSY Pilot Project Total length of road:- 5.50 KM Type of JGT used 15 kN-14910 m ² 20 kN 6070 m ² 30 kN-11960m ² O.W – 24520 m ² N.W.-- 6750 m ²	2007	No distress observed till date
25	MDR 14 t0 Chatumar, Jajpur	Orissa	Rural Works Deptt., Government of Orissa.	Road Construction under PMGSY Pilot Project Total length of road:- 4.00 KM Type of JGT used 15 kN-4280 m ² 20 kN 21770 m ² 30kN-44200m ² N.W.-- 2140 m ²	2007	Road in good shape. No distress noticed.
26	Sikkim	Sikkim	BRO	Slope protection of road embankment With open weave JGT- 12 x 12 -292 g/m ²	2007	Slope stabilized & covered with vegetation.
27	Notuk to Dingal, West Midnapore,	West Bengal.	P & RD, Govt. o WB	Road Construction under PMGSY Pilot Project Total length of road:- 4.80 KM	2007	Road in good shape.

				Type of JGT used:-15 kN-3700 m ² 20 kN/m-3700 m ² 30 kN-3700 m ² B.T. -4620 m ² O.W. 24780 m ² N.W.-3880 m ²		
28	Andhra Pradesh	Andhra Pradesh	BRO	Slope protection of road embankment With open weave JGT-12 x 12 -292 g/m ²	2008	Slope fully stabilized & covered with vegetation
29	Chattisgarh,	Chattisgarh	BRO	Slope protection of road embankment With open weave JGT-12 x 12 -292 g/m ²	2008	Slope fully covered with vegetation
30	Madhya Pradesh	Madhya Pradesh	BRO	Slope protection of road embankment With open weave JGT-12 x 12 -292 g/m ²	2008	Slope stabilized & covered with vegetation.
31	Maharastra	Maharastra	BRO	Slope protection of road embankment With open weave JGT-12 x 12 -292 g/m ²	2008	Slope stabilized & covered with vegetation.
32	Nagaland	Nagaland	BRO	Slope protection of road embankment With open weave JGT-12 x 12 -292 g/m ²	2008	Slope stabilized & covered with vegetation.
33	Tripura	Tripura	BRO	Slope protection of road embankment With open weave JGT-12 x 12 -292 g/m ²	2008	Slope stabilized & covered with vegetation.
34	Agartala-Mohanpur-Chebri Road at Tripura	Tripura	PMGSY Road, Tripura	200 m Road Construction Type of JGT used DWT 102x39-760 g/m ² , 825 m ²	2009	Excellent performance. Work carried out by Mr. Moly Dev
35	Udal to Chakrabrahma, Dakhin Dinajpur	West Bengal	P & RD, Govt. o WB	Road Construction Under PMGSY Total length of road:-4.75 km Type of JGT used:- 25 kN/m, 724 gsm, 76,472 m ²	2011	Road is in good shape. No sign of distress observed
36	Nihinagar to Hazaratpur, Dakhin Dinajpur	West Bengal	P & RD, Govt. o WB	Road Construction Under PMGSY Total length of road:-7.9 km Type of JGT used:- 25 kN/m, 724 gsm, 45,980 m ²	2011	Road is in good shape. No sign of distress observed
37	Panchbhaga to NH 60,Bankura ByPass	West Bengal	PWD, Govt. of WB	Reconstruction of road through re-sectioning and widening Total length of road:-4.5 km Type of JGT used:- 25 kN/m, 724 gsm, 30,000 m ²	2011	Road is in good shape. No sign of distress observed
38	Krishnabali to Saranjabari, Dakhin Dinajpur	West Bengal	P & RD, Govt. o WB	Road Construction Under PMGSY Total length of road:-6.15 km Type of JGT used:- 25 kN/m, 724 gsm, 59,530 m ²	2011	Road is in good shape. No sign of distress observed
39	Chengishpur to Durgapur, Dakhin Dinajpur	West Bengal	P & RD, Govt. o WB	Road Construction Under PMGSY Total length of road:-2.0 km Type of JGT used:- 25 kN/m, 724 gsm, 19,360 m ²	2011	Road is in good shape. No sign of distress observed
40	Rajarhat Test Track	West Bengal	NJB	20 kN/m-627 gsm DWPlain weave-500 m ² 25 kN/m-724gsm DWPlain weave JGT-500 m ²	2012	Road is in good shape. No sign of distress observed
41	Pramodnagar to Mugachandrapara, Agartala	Tripura	TRRDA,PWD, Govt. of Tripura through NBCC	Road Construction Under PMGSY 6.99 km 94 x 39 DWP JGT 25 kN/m, 724 gsm, 26,000 m ²	Work commenced in Sept,2012	Road is in good shape. No sign of distress observed

42	Nihinagar to Hazaratpur, Dakhin Dinajpur	West Bengal	P & RD, Govt. o WB	Road Construction Under PMGSY Total length of road:-4.5 km Type of JGT used:- Ganges/ Samnagar north-18MT, 25 kN/m, 724 gsm, 24,860 m ²	2012	Road is in good shape. No sign of distress observed
43	Bedakumda-T-03, Bidar	Karnataka	KRRDA	Road Construction Under PMGSY 2.38 km 25 kN/m, 724 gsm,	2013	Road is in good shape. No sign of distress observed
44	Honnadi-Bagdhal, Bidar	Karnataka	KRRDA	Road Construction Under PMGSY 5.20 km 25 kN/m, 724 gsm,	2013	Road is in good shape. No sign of distress observed
45	Halgorta-T-10, Bidar	Karnataka	KRRDA	Road Construction Under PMGSY 4.00 km 25 kN/m, 724 gsm,	2013	Road is in good shape. No sign of distress observed
46	Bagdimarimulo Barada Nagar to Damkal kheyra Ghat, Mathurapur	West Bengal	WBSRDA Govt. o WB	25 kN/m, 724 gsm, 48,299 m ²	2013	Road is in good shape. No sign of distress observed
47	V-Koracharahatti – T-10, Davanagere	Karnataka	KRRDA	Road Construction Under PMGSY 4.02 km 25 kN/m, 724 gsm,	2013	Road is in good shape. No sign of distress observed
48	Devarhospet-Gundur, Haveri	Karnataka	KRRDA	Road Construction Under PMGSY 12.59 km 25 kN/m, 724 gsm,	2013	Road is in good shape. No sign of distress observed
49	Devagondanakatti- T-07, Haveri	Karnataka	KRRDA	Road Construction Under PMGSY 2.98 km 25 kN/m, 724 gsm,	2014	Road is in good shape. No sign of distress observed
50	Chandapur- T-12, Haveri	Karnataka	KRRDA	Road Construction Under PMGSY 6.75 km 25 kN/m, 724 gsm,	2014	Road is in good shape. No sign of distress observed
51	Kanksa to Bati, Jiaganj Block 8.6 km road	Murshidabad	WBSRDA, Govt. of WB	Road Construction Under PMGSY 8.02 km 94 x 39 DWP JGT 25 kN/m, 724 gsm, 44,176 m ²	2013	Road is in good shape. No sign of distress observed
52	Raiganj-Karimganj to Buniadpur PWD Road	North Dinajpur, WB	PWD, North Dinajpur, Raiganj	Rehabilitation of damaged 2 km road of 5.5 m wide 94 x 39 DWP JGT 25 kN/m, 724 gsm, 10,920 m ² 7.5 kg/10m ² x2 tack coat both at top and below JGT -75 mm BM then 25mm Semi Dense BM	2013	No sign of pot holes and reflection cracks observed till date.
53	Taldi to Jharur More	Canning 24 Parganas(S)	PMGSY	Road Construction Under PMGSY 1.5 km 25 kN/m, 724 gsm, 9,000 m ²	Completed in October, 2014	Performance under observation.
54	Hiremaganur to T-11 Haveri	Karnataka	KRRDA	Road Construction Under PMGSY 3.35 km 25 kN/m, 724 gsm	Completed in June 2013	
55	Munsitanda to T-06 Gulbarga	Karnataka	KRRDA	Road Construction Under PMGSY 3.88 km 25 kN/m, 724 gsm	Completed in Jan 2014	

56	Bomraldoddi to T-06 Gulbarga	Karnataka	KRRDA	Road Construction Under PMGSY 5.96 km 25 kN/m, 724 gsm	Completed in Jan 2014	
57	Ayatti to L-026 Dharwad	Karnataka	KRRDA	Road Construction Under PMGSY 6.77 km 25 kN/m, 724 gsm	Completed in 2014	
58	Saidapur to T-03 Dharwad	Karnataka	KRRDA	Road Construction Under PMGSY 5.96 km 25 kN/m, 724 gsm	Completed in 2014	
59	Nandi Bevurutanda to T-01 Davanagere	Karnataka	KRRDA	Road Construction Under PMGSY 3.17 km 25 kN/m, 724 gsm	Completed in Dec-2013	
60	Honnapura to T-06 Davanagere	Karnataka	KRRDA	Road Construction Under PMGSY 4.74 km 25 kN/m, 724 gsm	Completed in June-2013	
61	Saragondlu to T-05 Kolar (Chickballapura)	Karnataka	KRRDA	Road Construction Under PMGSY 2.38 km 25 kN/m, 724 gsm	Completed in Oct-2013	
62	Thimmayagarahalli to Approacch road (T-04) Kolar (Chickballapura)	Karnataka	KRRDA	Road Construction Under PMGSY 1.86 km 25 kN/m, 724 gsm	Completed in Dect-2013	
63	Naralahalli to Bellavalahalli (T-01) Kolar (Chickballapura)	Karnataka	KRRDA	Road Construction Under PMGSY 2.26 km 25 kN/m, 724 gsm	Completed in Mar-2014	
64	Pasapalodduto Approacch road (T-09) Kolar (Chickballapura)	Karnataka	KRRDA	Road Construction Under PMGSY 1.14 km 25 kN/m, 724 gsm	Completed in Dec-2013	
65	Lingarajnar Sirsangi to T-05 via Basidoni Gorbhal Belgaum	Karnataka	KRRDA	Road Construction Under PMGSY 7.25 km 25 kN/m, 724 gsm	Completed in Jan-2014	
66	Hiretadasi to T-03 Belgaum	Karnataka	KRRDA	Road Construction Under PMGSY 6.40 km 25 kN/m, 724 gsm	Completed in Jan-2014	
67	Balpai- Jhalapara Rd, Sabaong, Paschim Medinipur	WB	WBSRDA, Govt. of WB	Road Construction Under PMGSY 4.7 km 25 kN/m, 724 gsm,	Work in progress May2015	
68	Paschimchakto Gokulchak, Pingla Paschim Medinipur	WB	WBSRDA, Govt. of WB	Road Construction Under PMGSY 4.7 km 25 kN/m, 724 gsm,	Work in progress May 2015	

D. RAILWAYS

SI No	Site	Location	PIU	Particulars of work done	Year of application	Results
1.	Lamding, Assam,	Assam,	Chief Engineer, N.F. Rly.	Hill Slope protection on Railway Track Type of JGT used:- Open weave JGT- 6.5 x 4.5 – 500 g/m ² – Area covered: 4000 m ²	1997	Hill slope is stabilized
2.	Jammu Tawai Link,	Jammu & Kashmir	Northern Railway.	Railway Slope protection Type of JGT used:- Open weave JGT- 6.5 x 4.5 – 500 g/m ² Area covered:- 15000 m ²	2000	Slope is in perfect shape.
3.	Keonjhar, S. E. Railway,	Orissa.	South Eastern Railway	Railway slope Protection Type of JGT used:- Open weave JGT- 6.5 x 4.5 - 500 g/m ² Area covered:- 4000 m ²	1998	Slope is in perfect shape.
4.	Madhusudunpur (E.R)	West Bengal	Howrah Divn., Eastern Railway	Control of Track subsidence JGTs used:- 102x39 -760 /m ² , (bituminized) – 6,000 m ² , 1000 gsm Non woven– 6,000 m ² & 500 gsm OW- 6000 m ²	2001	No subsidence occurred till date. Settlement level reduced from 70 mm to 13 mm
5	Shibaichandi, Howrah-Burdwan chord line(E.R)	West Bengal	Howrah Divn., Eastern Railway	Control of Track subsidence JGTs used:-Woven 760 gsm-treated 25kN– 18,920 m ² 1000 gsm Non woven – 18,920 m ² & OW 500 g/m ² – 15,000 m ²	2008	No subsidence occurred till date being monitored.
6	Baltikuri – Dankuni-Ballyghat (E R)	Bally, Howrah, WB	Howrah Div. Eastern railway	Control of track settlement JGTs used:- Woven treated 760gsm- 8745sq.m, Nonwoven 1000 gsm -8745 sq.m & OW-6.5x4.5 – 500 gsm – 17,000 sq.m	2013	Out of 1.5 km 600 m completed in eember.2013. Track is in good shape
7	Solapur	Gujrat/ Maharashtra	Central Railway	Controlling of track settlement Quality and quantity of JGT yet to be determined (10,000 sq.m.)	Enquiry of Atul Jani	
8	Thingou Rly Alingment, manipur	Manipur	N E Railways	Erosion control of railway embankment and stabilization of down hill slope, 7 x 7, 730 gsm OW JGT- 80,000sqm	2014	Work undertaken in December '14 through Maccafferri

9	Agartala to Sabroom	Tripura	N.E. F Railways	Hill Slope protection on Railway Track Type of JGT used:- 500gsm Open weave JGT- 6.5 x 4.5 – 500 g/m ² – Area covered: 30000m ²	2015	Work in progress
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E. APPLICATIONS IN AGRI-HORTICULTURE & FORESTRY (JUTE AGROTEXTILE)

Sl No	Site	Location	PIU	Particulars of work done	Year of application	Results
1.	Arunachal	Arunachal Pradesh.	Govt. Of Arunachal Pradesh.	Seedlings to saplings Type of JAT used:- Jute sleeves 9"x8" – 5,000 pcs.	1998	Feedback not available
2.	Arcuttipore T.E., Cachar,	Assam;	Indian Tea Research Association.	Weed control in tea cultivation. Type of JGT used:- Non woven JAT- 500 g/m ² ; Area covered:- 5000 m ² .	1995	Significant reduction of growth of weeds.
3.	Borbetta Tea Estate	Assam;	Indian Tea Research Association.	Weed control in tea cultivation. Type of JGT used:- Non woven JAT- 750 g/m ² ; Area covered:3000 m ²	1996	60% reduction of weeds.
4.	Andrew Yule Tea Estate.	Assam	Indian Tea Research Association.	Seedlings / saplings Type of JAT used:- Jute Sleeves 9"x8" – 1,000 pcs.	1997	Degraded within 3 months and more expensive.
5.	Indian Tea Association	Assam	Indian Tea Research Association.	Seedlings / saplings Type of JAT used:- Jute Sleeves 9"x8" – 500 pcs.	1997	Degraded within 3 months and more expensive.
6.	Forest Deptt.,	Himachal Pradesh	Forest Deptt., Govt. of Himachal Pradesh	Preservation of costly fauna from extinction. Type of JAT used:- Non woven JAT- 500 g/m ² ; Area covered: 1200 m ²	1997	Feed back not available.
7.	Horticulture Deptt.,	Himachal Pradesh	Horticulture Deptt., Govt. of Himachal Pradesh	Seedlings growth of / saplings Type of JGT used:- Jute Sleeves 9"x8" – 10,000 pcs.	1997	Not suitable under the climate.
8.	Hunsur,	Karnatak,	C.T.R.I. (ICAR)	Mulch on seed bed of Tobacco nursery. Type of JAT used:- Open weave JAT- 6.5 x 4.5 – 500 g/m ² Area covered:- 500 m ² .	1988	Number of transplantable seedlings and survival rate increased by 5%.
9.	Hunsur,	Karnatak,	C.T.R.I. (ICAR)	Mulch on seed bed of Tobacco nursery. Type of JAT used:- Open weave JAT- 11 x 12 – 250 g/m ² Area covered:- 300 m ² .	1990	Number of transplantable seedlings and survival rate increased by 5%.

10	Barapani, Meghalaya	Meghalaya	ICAR	Soil Conservation Type of JAT used:- Open weave JAT- 400 g/m ²	2002	Soil loss significantly reduced
11	Pushkar	Rajasthan	Agriculture Deptt., Govt. of Rajasthan	Soil Conservation & agromulching Type of JAT used:- 6.5 x 4.5 open mesh- & 500 gsm nonwoven- Area covered:200 sq.m	2007	Soil loss significantly reduced
12	Jaipur	Rajasthan	Agriculture Deptt., Govt. of Rajasthan	Soil Conservation & agromulching Type of JAT used:- 500 & 6.5 x 4.5 open mesh- & 500 gsm nonwoven- Area covered:200 sq.m	2007	Soil loss significantly reduced
13	Chewang Nursery	Sikkim	Forest & Environment Deptt. Govt of Sikkim	Seedlings growth of / saplings Type of JGT used:- Jute Sleeves 9"x6"	2001	excellent performance in growth and survival
14	Tarang Nursery	Sikkim	Forest & Environment Deptt. Govt of Sikkim	Seedlings growth of / saplings Type of JGT used:- Jute Sleeves 9"x6"	2001	excellent performance in growth and survival
15	Phedang Nursery	Sikkim	Forest & Environment Deptt. Govt of Sikkim	Seedlings growth of / saplings Type of JGT used:- Jute Sleeves 9"x6"	2001	excellent performance in growth and survival
16	Namprikdan g Nursery	Sikkim	Forest & Environment Deptt. Govt of Sikkim	Seedlings growth of / saplings Type of JGT used:- Jute Sleeves 9"x6"	2001	excellent performance in growth and survival
17	Menshithan g Nursery	Sikkim	Forest & Environment Deptt. Govt of Sikkim	Seedlings growth of / saplings Type of JGT used:- Jute Sleeves 9"x6"	2001	excellent performance in growth and survival
18	Bop Nursery	Sikkim	Forest & Environment Deptt. Govt of Sikkim	Seedlings growth of / saplings Type of JGT used:- Jute Sleeves 9"x6"	2001	excellent performance in growth and survival
19	Shimphere Nursery	Sikkim	Forest & Environment Deptt. Govt of Sikkim	Seedlings growth of / saplings Type of JGT used:- Jute Sleeves 9"x6"	2001	excellent performance in growth and survival
20	Singring Nursery	Sikkim	Forest & Environment Deptt. Govt of Sikkim	Seedlings growth of / saplings Type of JGT used:- Jute Sleeves 9"x6"	2001	excellent performance in growth and survival
21	Lembuchher a	Tripura	ICAR	Soil Conservation & agromulching Type of JAT used:- Open weave JAT- 6.5 x 4.5 - 500 g/m ² Non-woven JAT – 500 g/m ² Area covered:- 1000 m ²	2004	Soil loss significantly reduced
22	Atma,Malda	Malda	Agriculture Deptt	Weed management and Agromulching	2009	Highly encouraging result

23	Hijli & Porapara, Midnapore	West Bengal	Forest Deptt., Govt. of West Bengal.	Afforestation & Erosion Control Type of JAT used:- 1. Open weave JAT-34 x 15 - 250 g/m ² Area covered:- 1000 m ² 2. Open weave JAT-11x 12 - 300 g/m ² Area covered: - 1000 m ²	1997	Growth of the trees in the treated area significantly higher. No sign of erosion.
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