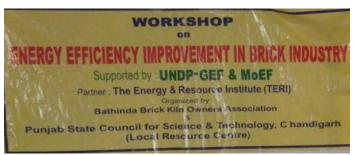
PROCEEDINGS OF THE WORKSHOP ON "ENERGY EFFICIENCY IMPROVEMENT IN INDIAN BRICK INDUSTRY" – UNDP-GEF PROJECT HELD AT CIVIL LINES CLUB, BATHINDA ON 19<sup>TH</sup> FEB.2010.

List of participants is attached as **Annexure-I.** 

A Project entitled "Energy Efficiency improvement in Indian Brick Industry" is being funded by the UNDP through Ministry of Environment of Forest, GOI. The PSCST has been identified as the Local Resource Centre (LRC) for the states of Punjab and Haryana. The project has been commenced in 2009 with time period of 4 years. The targets for the first year have since been finalized.

One of the important components of the project is enhancing public sector awareness through holding of workshops on promotion of Resource Efficiency Bricks (REBs). The LRC is expected to conduct regional level



awareness seminars during execution of this project. These awareness seminars are expected to bring together brick kiln entrepreneurs, construction sector experts and technology suppliers to a common platform to share their experiences and requirements.

It is in this regard that a workshop was organized by the Council in collaboration with Bathinda Brick Kiln Owners Association at Civil Lines Club, Bathinda to sensitize the brick fraternity about this project and other benefits likely to be accrued. About 150 brick kiln owners (BKOs) mainly from the districts of Bathinda, Muktsar, Mansa, Barnala, Ferozepore and Ludhiana attended along with office bearers of District Brick Kiln Owners Associations from all the districts of the State of Punjab. Detailed programme of workshop is attached as



Annexure-II. Col. Rakesh Johri, Senior Fellow along with Shri N.Vasudevan. and Mr. Sachin Kumar TERI from also participated in this workshop to appraise the entrepreneurs significance of the project. The services Mr.Banerjee from Water Cravin, a leading technology provider in collaboration with European machinery manufacturers, were also roped in to appraise the entrepreneurs about the salient features of various technologies available in the country.

Welcoming the participants, Mr.Paramjit Singh Sandhu, President, Bathinda Brick Kilns Owners Association conveyed that brick industry is still using age old traditional and conventional technologies and hardly any effort has been made by the entrepreneurs for introducing mechanization in the sector. The Council has been trying their level best to create awareness for promotion of better technologies and conducting awareness workshops on better feeding, firing and operating practices in brick kilns since 1998 and the industry has gained by their interventions. He expressed his concern over the quality of bricks which is deteriorating day by day. He urged the fellow brick kilns owners to look for better technologies including carrying out feasibility for introduction of mechanization in brick making process so as to improve the product quality as well as save losses being occurred due to adoption of age-old traditional technologies.

Er.M.S.Jaggi, Director (PSCST) while addressing the audience stressed on improving quality products the of by introducing energy efficient technologies and adoption of REBs such as hollow bricks and perforated bricks. He informed that by introducing REB, industry is likely to save the precious raw materials like clay and fuel. He



further explained the objectives of UNDP-GEF project and the role of the Council as LRC.

Col.Rakesh Johri, Senior Fellow, TERI informed that a number of technological changes have been introduced in construction material except in brick industry. He explained that time has come to diversify from the conventional brick making technologies and bring in resource efficient bricks. He also explained how the transition has taken place from conventional solid brick to perforated hollow bricks in the Europe and other developed countries. This change facilitated by the manufacturers as well as end users. While quoting the example of entry of international clay brick manufacturers like WIENERBERGER into the Indian market, he informed that some mechanization has been introduced in other parts of the countries as well. However, for the existing small brick owners this transformation will take places in stages. The need of introducing mechanization is based on the three driving forces i.e. (i) shortage of manpower (iii) demand for better quality products (iii) shortage of raw materials. While explaining the objectives of TERI as project implementing agency, he

informed that 12 REB Demonstration Units would be set up in the country. A series of meeting is being arranged with BIS for incorporating standards for the REB, State PWDs, CPWD, MES and other organizations for incorporating necessary specifications in the guidelines for the use of REBs.

Shri Pritpal Singh, Senior Engineer, PSCST while comparing the changes that taken place in brick sector since 1997, conveyed that there is hardly any major change that has taken place in the brick making technology. The focus, which was earlier on increasing the production/quantity, has to be shifted towards quality. While improvements have taken place in construction technologies, the end users have now started looking for better quality of bricks which are in short He emphasized on production of quality bricks and also look for feasibility/technologies for introduction of REBs. While explaining the advances of REB viz-a-viz indirect benefit at the consumer end in terms of savings in cost of plastering and energy saving, he appealed to the brick fraternity to go in for thorough investigation of their soils for its feasibility for producing REBs through mechanization. He informed that the Council being LRC would help the industry in identification of proper technologies specific to their soils and create awareness amongst the architects and builders and facilitate availability of land for their brick plants. He cautioned the brick industry to immediately look for better technologies otherwise the new entrepreneurs have started entering into this market. He also gave example of some of the recent mechanized plants set up by other entrepreneurs in the northern parts of the country.

Mr.Bannerji from Walter Cravin informed the audience about the mechanized plants being set up in eastern India and the likely advantages of their machinery. In the end interactive session was held with the participants wherein queries raised by the entrepreneurs were attended appropriately by Mr. Bannerji, Col. Johri and Mr.Pritpal Singh.

The workshop ended with a Vote of Thanks by Shri Ashok Mittal, Vice President, Punjab Brick Kilns Owners Association. He thanked the organizers – PSCST and Bathinda Brick Kiln Owners Association for arranging this workshop and the participants for attending this workshop in such a big way in short notice.

## **ANNEXURE I**

## **Attendance List of BKOs**

| Sr.<br>No. | Name                        | Address  | Contact No. |
|------------|-----------------------------|--|-------------|
| 1.         | Sh. Parmjit Singh<br>Sandhu | 702, Model town, Phase 1, Bathinda                                     | 92167-87891 |
| 2.         | Sh. Ashok Mittal            | 2, Khurla Kingra Road, Jalandhar                                       | 98550-70041 |
| 3.         | Sh. Aman Bansal             | C/o Bansal Brick Co., Street, Kotkapura, Distt. Faridkot               | 98140-04552 |
| 4.         | Sh. Arjun Dass Arora        | 37/104, New Vijay Nagar,<br>Jalandhar City                             |             |
| 5.         | Sh. Roop Chand<br>Singla    | Saivihar, Back Delhi Children<br>Hospital, Kotkapura bye pass,<br>Moga |             |
| 6.         | Sh. Lachman Dass            | C/o Kisan Brick Co.  | 92167-41474 |
| 7.         | Sh. Pardeep Singla          | Singla BKO, Byepass Road,<br>Nihalsinghwala                            | 98553-19709 |
| 8.         | Sh. Pawan Kumar             | C/o M/s B.R. Bricks Co. Kotkapura, Distt. Faridkot                     | 98784-00716 |
| 9.         | Sh. Brijbhushan<br>Bansal   | C/o M/s Ram Lal Piyarelal BKO, Faridkot                                | 98767-04552 |
| 10.        | Sh. Ashok Mittal            | M/s Rajiv Brick Center, Patti Hira Singh, Distt. Moga                  | 92169-01062 |
| 11.        | Sh. Rohit Tangri            | M/s Puran Chand Tangri, VPO Pawa, Distt. Ludhiana                      | 95922-00011 |
| 12.        | Sh. Devinder Pal            | M/s Mahaluxmi Bricks co., Faridkot                                     | 94650-03771 |
| 13.        | Sh. Vicky Singh             | RC Singh BKO, Jaito  | 98146-76769 |
| 14.        | Sh. Satpal                  | Bansal Bricks, Jaito   | 94170-97228 |
| 15.        | Sh. Satpal Bansal           | Bansal Bricks Industries Kotha<br>Guru                                 | 98140-59027 |
| 16.        | Sh. Janak Raj               | Aggarwal BKO, shekhupur  | 09140-56575 |
| 17.        | Sh. Surinder Mittal         | Sonam Bricks co. Sivian  | 94174-86121 |
| 18.        | Sh. Naresh Singla           | Singla BKO, Gehri Bhai   | 94170-30500 |
| 19.        | Sh. Deepak Kumar            | Maheshwari Bricks Co., Gurusar<br>Yodha Distt. Mukatsar,               | 98725-94746 |
| 20.        | Sh. Rakesh Kumar            | Aggarwal Gram Udyog Samiti,<br>Talwandi Sabo, Distt. Bathinda          |             |
| 21.        | Sh. Subhash Gupta           | Aggarwal Bricks Industries, Banga                                      | 94170-18643 |
| 22.        | Sh. Krishan Sharma          | Supermal Bricks Industries, Mehri                                      |             |
| 23.        | Sh. Rajinder Raju           | Dashmesh Brick Industry  | 94170-35643 |
| 24.        | Sh. Sahil Sood              | M/s Lekh Ram Sood & Company, Village Bhutta, Ldh.                      | 94170-31265 |
| 25.        | Sh. Jasbir Singh            | President, Tarntarn  | 98157-24453 |
| 26.        | Sh. Sukhbir Singh           | Cashier, Tarntarn  | 98153-72744 |

| 28. Sh. Sukhbir Singh Simar Brick Kiln Co., Tathian Mahanta, Tarantarn  29. Sh. Davinder Rajdev M/s Davinder Kumar BKO, Bura Gujjar Road, Muktsar – 152026  30. Sh. Surinder Gupta President, BKOs Assciation, Faridkot  31. Sh. Sahil Gupta Sh. Durga Bhata Co., Chahal Road, Faridkot  32. Sh. Ashok Kumar Ashoka Brick Co., Vill. Bhunder, Mukatsar  33. Sh. R.M. Sethi M/s Shiva Const. Bhatta Co., Chahal Road, Faridkot  34. Sh. Deepak Bansal Chaina Bazaar, Jaito 9815  35. Sh. Rakesh Grover Grover & Co., Mour Road, Mukatsar 98140  36. Sh. Ramesh Kumar M/s Guru Nanak BKO, Vill. Dadri, Mukatsar  37. Sh. Rattan Lal AB Bricks Industry, Faridkot 98140  38. Sh. Varun AB Bricks Industry, Faridkot 94170  39. Sh. Parshotam Lal S.S. Bricks, Faridkot 94170  40. Sh. Maninder Singh Dashmesh Bricks Manufacturing 94176  Co., Ldh.  | 2-74852<br>6-58568 |
|---|--------------------|
| Mahanta, Tarantarn  29. Sh. Davinder Rajdev   |                    |
| Gujjar Road, Muktsar – 152026  30. Sh. Surinder Gupta President, BKOs Assciation, P8147  31. Sh. Sahil Gupta Sh. Durga Bhata Co., Chahal Road, Faridkot  32. Sh. Ashok Kumar Ashoka Brick Co., Vill. Bhunder, Mukatsar  33. Sh. R.M. Sethi M/s Shiva Const. Bhatta Co., P8888  34. Sh. Deepak Bansal Chaina Bazaar, Jaito P8157  35. Sh. Rakesh Grover Grover & Co., Mour Road, Mukatsar P8140  36. Sh. Ramesh Kumar M/s Guru Nanak BKO, Vill. Dadri, Mukatsar Mukatsar  37. Sh. Rattan Lal AB Bricks Industry, Faridkot P8140  38. Sh. Varun AB Bricks Industry, Faridkot P8170  39. Sh. Parshotam Lal S.S. Bricks, Faridkot P8170  40. Sh. Maninder Singh Dashmesh Bricks Manufacturing P8170  Co., Ldh.  | S_02222            |
| Faridkot  31. Sh. Sahil Gupta Sh. Durga Bhata Co., Chahal Road, Faridkot  32. Sh. Ashok Kumar Ashoka Brick Co., Vill. Bhunder, Mukatsar  33. Sh. R.M. Sethi M/s Shiva Const. Bhatta Co., Sh. Deepak Bansal Chaina Bazaar, Jaito 9815  35. Sh. Rakesh Grover Grover & Co., Mour Road, Mukatsar 98140  36. Sh. Ramesh Kumar M/s Guru Nanak BKO, Vill. Dadri, Mukatsar Mukatsar AB Bricks Industry, Faridkot 98140  38. Sh. Varun AB Bricks Industry, Faridkot 94170  39. Sh. Parshotam Lal S.S. Bricks, Faridkot 94170  40. Sh. Maninder Singh Dashmesh Bricks Manufacturing 94170  Co., Ldh.  41. Sh. Om Parkash M/s Wadhwa Bricks Industry, 98140   | J-02222            |
| Faridkot  32. Sh. Ashok Kumar  Ashoka Brick Co., Vill. Bhunder, Mukatsar  33. Sh. R.M. Sethi  M/s Shiva Const. Bhatta Co., P8888  Chahal Road, Faridkot  34. Sh. Deepak Bansal  Chaina Bazaar, Jaito  Sh. Rakesh Grover  Grover & Co., Mour Road, Mukatsar  Grover & Co., Mour Road, Mukatsar  M/s Guru Nanak BKO, Vill. Dadri, Mukatsar  Mukatsar  37. Sh. Rattan Lal  AB Bricks Industry, Faridkot  AB Bricks Industry, Faridkot  Sh. Varun  AB Bricks Industry, Faridkot  Sh. Parshotam Lal  S.S. Bricks, Faridkot  Sh. Maninder Singh  Dashmesh Bricks Manufacturing  Co., Ldh.  41. Sh. Om Parkash M/s Wadhwa Bricks Industry, 98146   | 1-39972            |
| Mukatsar  33. Sh. R.M. Sethi  M/s Shiva Const. Bhatta Co., 98888  Chahal Road, Faridkot  34. Sh. Deepak Bansal  Chaina Bazaar, Jaito  Sh. Rakesh Grover  Grover & Co., Mour Road, Mukatsar  M/s Guru Nanak BKO, Vill. Dadri, 98147  Mukatsar  37. Sh. Rattan Lal  AB Bricks Industry, Faridkot  Sh. Varun  AB Bricks Industry, Faridkot  Sh. Parshotam Lal  Sh. Parshotam Lal  Sh. Maninder Singh  Dashmesh Bricks Manufacturing  Co., Ldh.  41. Sh. Om Parkash M/s Wadhwa Bricks Industry, 98146   | 1-62295            |
| Chahal Road, Faridkot  34. Sh. Deepak Bansal Chaina Bazaar, Jaito 98157  35. Sh. Rakesh Grover Grover & Co., Mour Road, Mukatsar 98140  36. Sh. Ramesh Kumar M/s Guru Nanak BKO, Vill. Dadri, Mukatsar  37. Sh. Rattan Lal AB Bricks Industry, Faridkot 98140  38. Sh. Varun AB Bricks Industry, Faridkot 94170  39. Sh. Parshotam Lal S.S. Bricks, Faridkot 94170  40. Sh. Maninder Singh Dashmesh Bricks Manufacturing Co., Ldh.  41. Sh. Om Parkash M/s Wadhwa Bricks Industry, 98140  | 0-73537            |
| 35. Sh. Rakesh Grover  36. Sh. Ramesh Kumar  M/s Guru Nanak BKO, Vill. Dadri, Mukatsar  37. Sh. Rattan Lal  38. Sh. Varun  39. Sh. Parshotam Lal  39. Sh. Parshotam Lal  39. Sh. Maninder Singh  Co., Ldh.  38. Sh. Om Parkash  M/s Wadhwa Bricks Industry, Faridkot  98140 | 5-15469            |
| 35.Sh. Rakesh GroverGrover & Co., Mour Road, Mukatsar9814036.Sh. Ramesh KumarM/s Guru Nanak BKO, Vill. Dadri, Mukatsar9814037.Sh. Rattan LalAB Bricks Industry, Faridkot9814038.Sh. VarunAB Bricks Industry, Faridkot9417039.Sh. Parshotam LalS.S. Bricks, Faridkot9417040.Sh. Maninder SinghDashmesh Bricks Manufacturing Co., Ldh.41.Sh. Om ParkashM/s Wadhwa Bricks Industry, 98140  | 1-01502            |
| Mukatsar  37. Sh. Rattan Lal AB Bricks Industry, Faridkot 98140 38. Sh. Varun AB Bricks Industry, Faridkot 94170 39. Sh. Parshotam Lal S.S. Bricks, Faridkot 94170 40. Sh. Maninder Singh Dashmesh Bricks Manufacturing Co., Ldh. 41. Sh. Om Parkash M/s Wadhwa Bricks Industry, 98140  | 0-38492            |
| 38. Sh. Varun AB Bricks Industry, Faridkot 94170 39. Sh. Parshotam Lal S.S. Bricks, Faridkot 94170 40. Sh. Maninder Singh Dashmesh Bricks Manufacturing 94170 Co., Ldh. 41. Sh. Om Parkash M/s Wadhwa Bricks Industry, 98140  | 7-22539            |
| 38.Sh. VarunAB Bricks Industry, Faridkot9417039.Sh. Parshotam LalS.S. Bricks, Faridkot9417040.Sh. Maninder SinghDashmesh Bricks Manufacturing Co., Ldh.9417541.Sh. Om ParkashM/s Wadhwa Bricks Industry, 98140  | 0-14633            |
| <ul> <li>39. Sh. Parshotam Lal</li> <li>40. Sh. Maninder Singh</li> <li>41. Sh. Om Parkash</li> <li>42. Sh. Om Parkash</li> <li>43. Sh. Om Parkash</li> <li>44. Sh. Om Parkash</li> <li>45. Sh. Om Parkash</li> <li>46. Sh. Om Parkash</li> <li>47. Wadhwa Bricks Industry, 98146</li> </ul>  | 0-31057            |
| Co., Ldh. 41. Sh. Om Parkash M/s Wadhwa Bricks Industry, 98146  | 4-37878            |
|   | 5-11613            |
|   | 6-46765            |
| 42. Sh. Yashpal Yashpal BKO, Burj Dhilon, Mansa 98780   | 0-35551            |
| 43. Sh. Babor Chand Nandi, BKO Nangal Khurd, Mansa 98147  | 7-22389            |
| ,   | 0-22359            |
| 45. Sh. Krishan Kumar M/s Tarsem Chand Vijay Kumar 94177<br>BKO Kotkapura   | 7-30474            |
|   | 7-30474            |
| 47. Sh. Ashok Kumar Jaito BKO, Jaito 98720  | 0-00774            |
| 48. Sh. Amit Gupta M/s Vishvkarma Bricks Company 98552 VPO Panggrain Kalan, Faridkot  | 2-41072            |
|   | 9-68366            |
|   | 9-68366            |
|   | 4-85475            |
| 52. Sh. Sukhdev Raj Raj Kumar BKO, Rampura Phul, 94172<br>Batinda   | 2-26357            |
|   | 2-68504            |
| 54. Hari Om Goyal Balaji BKO Phul, Bathinda   |                    |
|   |                    |
| 56. Sh. Krishan Lal Shree Ganesh BKO, Singla Street, 98555  | 1-39574            |

|     | Singla                      | Rampura Phul, Batinda  |             |
|-----|-----------------------------|--|-------------|
| 57. | Sh. Arvind Kumar            | Banarasi Dass Charan Dass  | 94173-40212 |
|     | Bansal                      | Mehraj, Rampura Phul, Bathinda   |             |
| 58. | Sh. Lila Ram                | M/s Lila Ram Garg BKO, Kot   | 98761-40068 |
| 59. | Sh. R.K. Jain               | #173, Phase-II, Model Town   | 98155-90123 |
| 60  | Sh. Inderjit Verma          | M/s Inderjit & Co. 6, Pink Avenue, Majitha Road, Amritsar                          | 98141-08633 |
| 61  | Sh. Ashish Bhalla           | M/s Chaman Lal Bhalla & Sons,<br>Subhash Niwas, Guru Bazar,<br>Chheharta, Amritsar | 99149-05890 |
| 62  | Sh. Mukesh Nanda            | M/s Tara Chand Nanda & Co., 125, Green Avenue, Amritsar                            | 98140-85106 |
| 63  | Sh. Ravinder Kumar          | M/s Boor Chand Birbal Dass BKO,<br>Vill Bala Marar                                 | 94173-75160 |
| 64  | Sh. Atul Kumar<br>Goyal     | M/s Punjab Bricks Co., Kotha Guru (Bathinda)                                       | 94176-43615 |
| 65  | Sh. Pradip Kumar<br>Periwal | Friends Colony near Karan Cinema,<br>Abohar  | 98765-14121 |
| 66  | Sh. Vipen Nagpal            | Lajpat Nagar, Street 2, Ferozepur, Abohar  | 98153-94467 |
| 67  | Sh. Binder Pal Goyal        | Sunder Nagri, Street no. 8, M/s. KK & Co., Abohar                                  |             |
| 68  | Sh. Surinder Batra          | M/s S.K. Batra, BKO, Bakridpur   | 99159-27000 |
| 69  | Sh. Rohit                   | Garg Bricks, Bathinda  | 98154-58572 |
| 70  | Sh. Gurpreet Singh          | Chak Brick Industry, Chak Atar<br>Singh Wala, Bathinda                             | 98726-14733 |
| 71  | Sh. Rajnesh                 | Rajnish Brick Co., Deon, Bhatinda  | 94171-02569 |
| 72. | Sh. Shivji Ram              | Brick Industry, V. Katbhara,<br>Bhatinda   | 94171-02569 |
| 73  | Balaji Bricks Co.           | Vill. Mehma Sangha, Bathinda   | 98156-21372 |
| 74  | Sh. Ajay Kumar              | Harbans Lal Surjan Ram BKO<br>Bathinda   | 98145-98533 |
| 75  | Sh. Krishan Lal             | M/s Shree Ganesh BKO, Phul, Dist. Bathinda   | 98555-48246 |
| 76  | Sh. Tejpal                  | M/s Desh Raj, Tejpal BKO Lehra<br>Dhurkoot   | 98556-39400 |
| 77. | Sh. Prem Kumar              | Shree Ganesh Bricks Industry,<br>Kotha Guru  | 98726-58623 |
| 78  | Sh. Vijay Kumar             | MBC, Chahal Road, Faridkot   | 99156-31157 |
| 79  | Sh. Surjit Singh            | Sardar Bricks, Jalandhar   | 94638-42391 |
| 80  | Sh. Om Parkash              | Om Parkash BKO, Malout,<br>Mukatsar  | 98726-77721 |
| 81. | Sh. Tara Chand              | Tara Chand Construction,<br>Karamgarh  | 98889-16256 |
| 82  | Sh. Iqbal Singh             | Shivaji Bricks Industry Vill. Gurjar   | 94170-36842 |

|      |                            | Jodha, muktsar  |             |
|------|----------------------------|---|-------------|
| 83   | Sh. Jitinder Goel          | Grover & Co., Mukatsar                                | 94175-83091 |
| 84   | Bansal BKO                 | Hushnar, Tajo Road                                    | 94176-25422 |
| 85   | Shiv Shakti BKO            | Talwani Road, Near Crown Palace, Faridkot             | 98142-33061 |
| 86   | Sidhu Brothers             | Kot shankh, Bathinda                                  | 98555-89861 |
| 87   | Sh. Magber Khan            | Adash BKO, Mehru Khurd,<br>Bathinda                   | 94170-79926 |
| 88   | Sh. Amit Goyal             | Sidhu BKO, Karamgarh Setia,<br>Bathinda               | 98762-00286 |
| 89   | Sunny Bricks Co            | Karamgarh, Bathinda                                   | 99158-34393 |
| 90   | Sh. Saurabh Singla         | Biharilal BKO, Giddarbaha,<br>Mukatsar                | 98887-77884 |
| 91   | Friends Brick Industry     | ·   | 98155-63162 |
| 92   | Ajanta Bricks Co.          | Tehsil Mour, Distt. Bathinda                          | 94170-79926 |
| 93   | BL BKO                     | Vill. Husner, Near Hospital,<br>Giddarbaha            | 98141-01793 |
| 94   | Sh. Rakesh Kumar           | Mittal Bricks Co., Rampura, Bathinda                  | 98154-80518 |
| 95   | Sh. Pawan Kumar            | Guru Kirpal Divya BKO,<br>Bullamgarh,                 | 99152-00674 |
| 96   | Sh. Jagpreet Singh<br>Brar | JRM Brick Industry, Madrass                           | 98883-10445 |
| 97   | Sh. Prem Bhutani           | Vill. Baruala, Chd. Road Ludhiana                     | 98765-72000 |
| 98   | Sh. Lajpat Rai, BKO        | Katani Kalan, Ludhiana                                | 98140-32717 |
| 99   | Sh. Parneet Singh, BKO     | Vill Kubbe, Ludhiana                                  | 98760-66777 |
| 100. | Sangha Brothers<br>BKO     | Vill Alawalpur,                                       | 99141-33336 |
| 101  | Gupta Brothers,<br>BKO     | Vill. Banga, Tarantaran                               | 99141-33336 |
| 102  | Bath BKO                   | Vill Bath, Tarantaran                                 | 98141-20179 |
| 103  | New Age, BKO               | Tarantaran  | 98146-46825 |
| 104  | Sh. Mukesh Kumar<br>Singla | C/o M/s R.S. Bricks Co., Vill Kot<br>Bhai, Giddarbaha | 98146-15555 |
| 105  | Sh. Satish Mittal          | C/o Mittal Brick Co., Satran                          | 94176-46063 |
| 106  | Sh. Atma Singh             | C/o SAS Bricks, Badal Road,<br>Bajakhana              | 92186-03040 |
| 107  | Sh. Nitin Garg             | C/o Garg Gram Udyog Samiti, Vill Faridkot Kotli       | 99153-95311 |
| 108  |                            | Dashmesh Brick kiln                                   | 94174-62664 |

#### PROGRAMME SCHEDULE

# Workshop on energy efficiency improvement in Indian Brick Industry

### **UNDP-GEF**, MoEF Project

#### Organized by

#### **Bathinda Brick Kiln Owners Association &**

### **Punjab State Council for Science & Technology**

Venue: Civil Lines Club, Bathinda

Date : 19/02/2010

| Time                    | Event  |
|-------------------------|--|
| 10.00 A.M. – 11.00 A.M. | Registration   |
| 11.00 A.M. – 11.15 A.M. | Introduction by President, Bathinda Brick Kiln Owners Association  |
| 11.15 A.M. – 11.45 A.M. | Welcome address and brief about workshop by Er.M.S.Jaggi, Director-PSCST.                                |
| 11.45 A.M. – 12.15 P.M. | Details about the Project by Col.Johri, TERI, New Delhi  |
| 12.15 P.M 01.00 P.M.    | Types of bricks and relevant IS Codes including case studies – Er. Pritpal Singh, Senior Engineer-PSCST. |
| 01.00 P.M. – 01.30 P.M. | Use of resource efficient brick – case study – Er.Sachin Kumar, Fellow, TERI, New Delhi.                 |
| 01.30 P.M. – 02.00 P.M. | Presentation by Mr.N.K. Banerjee, Calcutta   |
| 02.00 P.M. – 03.00 P.M. | Interactive session and final action plan for future.  |