BIBILIOGRAPHY

Agarwal, M., & Sharma, P. (2003). Work related muscular stress (handgrip) and time expenditure pattern of women workers involved in food processing industries. Journal of ARAH, Korea, 10(1), 22-26.

Agrawal, K.N.; Thomas, E.V. and Satapathy, K.K. (2005). Effect of Work Station Adjustment on Working Posture & Physiological Cost of Pedal Operated Paddy Thresher Operation for Agricultural Workers of Meghalaya. Proceedings from HWWE '2005: National conference on Humanizing Work and Work Environment. Guwahati.

Akobundu, I.O. (1987). Weed science in the tropics. Principles and practices. Chicester: Wiley.

Alam, A. & Singh, G. (2003). Status and future needs of farm mechanization and agro-processing in India. CIAE Bhopal.

Alexandrou, A., & Coffing, G. (2001). An assessment of the performance of mechanical weeding control mechanisms used in North Central Ohio for maize and soybean crops.

All India Coordinated Research Project in Home Science (AICRP) (1999).

All India Coordinated Research Project in Home Science (AICRP) (2001).

Alstrom, S. (1996). Fundamentals of weed management in hot climate peasant agriculture. Jodhpur: Vigyan Prakashan.

Aminoff, J., Smolander, O., Korhonen, O., & Lorhevaara, V. (1999). Physiological strain during kitchen work in relation to maximal and task-specific peak values. Ergonomics,1999, 42(4), 584-592.

Astrand, P.O. & Rodahl, K. (1986). A Textbook of Work Physiology, New York, 3rd ed. Mc Graw-Hill, 115-126 & 512-515.

Astrand, P.O. & Rodahl, M.D. (1970). Textbook of Work Physiology. Mc Graw-Hill, Kogakusha Ltd.

Badiger, C., Hasalkar, S., & Huilgol, S. (2005). Drudgery reduction of farm women through technology intervention. Proceedings from HWWE '2005: National conference on Humanizing Work and Work Environment. Guwahati.

Banerjee, B. & Saha, H. (1970). Energy cost of some daily activities of tropical male and female subjects. *Journal of Applied Physiology*, 29, 203.

Bhattacharyya, N., Borah, R., Baruah, S. C., & Bhagawati, P. (2005). Ergonomic assessment of postures assumed by workers in tea cultivation. Proceedings from HWWE '2005: National conference on Humanizing Work and Work Environment. Guwahati.

Boone, E. J., Safrit, R. D., & Jones. (2000). Developing programs in adult education (2nd ed.) Prospect Heights, IL: Waveland Press.

Bot, S. M., & Hollander, A. P. (2000). The relationship between heart rate and oxygen uptake during non-steady state exercise. *Ergonomics,* **43**(10), 1578-1592.

Brantingham, C.R.; Beekman, B.E.; Moos, C.N. & Gordon, R.B. (1970). Enhanced venous pump activity as a result of standing on a varied terrain floor surface. Journal of Occupational Medicine, p 12, 164-169.

Brown, J. K. (1961). Lifting: An industrial Hazard. *American Industrial Hygienic Association Journal*, 34, 294-295.

Brun, T.A.; Geissler, G.A.; Mirbagheri, I.; Hormonzdesy, M.; Bastani, J. and Hedayal, H. (1979). The energy expenditure of Iranian agricultural workers.

The American Journal of Clinical Nutrition. 32 : 2154-2161.

Burdorf, A. (1992). Exposure assessment of risk factors for disorders of the back in occupational epidemiology. *Scandinavian Journal of Work Environment and Health*, 14, 1-9.

Burdorf, A., & Laan, J. (1991). Comparison of methods for the assessment of postural load on the back. *Scandinavian Journal of Work, Environment and Health*, 17, 425-473

Chaffin, D.B. (1971) Localized muscle fatigue, paper presented at the 56th annual meeting of the Industrial Medical Association, Atlanta, U.S.A. on April 19-22.

Chantia, A. (2005). Work posture and health: A study on Shri J.N.P.G. College Teachers, Lucknow City, (U.P.). Proceedings from HWWE '2005: National conference on Humanizing Work and Work Environment. Guwahati.

Corlett, E.N. & Bishop, R.P. (1976). A technique for assessing postural discomfort. Ergonomics, 19, 175-185.

Corlett, E.N. (1981). The Effects & Measurements of Working Postures. Applied Ergonomics, 11, 1, 7-16p.

Cotton, F.S. & Dill, D.B. (1935). On the Relation between heart rate during exercise & that of immediate post exercise period. Bathedsa. American Journal of Physiology, vol3, p 554.

CSO (1995) www.fao.org/sd/WPdirect/WPre0108.htm

Curfs, H. F. (1976). Systems development in agricultural mechanization with special reference to soil tillage and weed control. Mededelingen landbouwhogeschool, Wageningen, Netherlands, no.76-5.

Davies, B. T., Abada, A., Benson, K., Courtney, A., & Minto, I. (1980). A comparison of hand anthropometry of females in three females in three ethnic groups. *Ergonomics*, 23(2), 179-182.

Dayal, R., & Pandey, P. (1996) A study on the role of rural women in farm and household activities. *Himachal Journal of Agricultural Research*, 22, 94-100.

De Looze, M.P.; Toussaint, H.M.; Ensink, J. & Mangnus, C. (1994). The validity of visual observation to assess posture in a lab-simulated, manual material handling task. Ergonomics, 37(8), 1335-1343pp.

EIU (1997) India Nepal: Country profile. The Economist Intelligence Unit, London.

Ergonomics in agriculture activities of women farmers. Annual report prepared by FRM dept. College of Home Science GBPUAT, Uttranchal.

Fernandez, J. E., Malzehn, D. E., Eyada, O. E., & Kim, C. H. (1989). Anthropometry of Korean female industrial workers. *Ergonomics*, 32(5), 491-495.

Gandhi, S., Dibaghi, M. & Bimla (2005). Ergonomic assessment of women using pick bag in cotton picking. Proceedings from HWWE '2005: National conference on Humanizing Work and Work Environment. Guwahati.

Geeetha, S. P., & Tewari, V. K. (2000). Anthropometry of Indian agricultural workers and implication on tool design. *AMA*, 31(1), 63-66.

Gheeta, S. P. & Tewari, V. K. (2000). Anthropometry of Indian agricultural workers and implication on tool design. *AMA*, 31(1), 63-66.

Giland, I. & Kerschenbaum, A. (1988). Rates of back pain incidence associated with job altitudes and worker characteristics. International Journal of Industrial Ergonomics, S: 267-272.

Gite, L. P. (1999). Comparative responses of women workers during weeding in soybean crop with hand hoe &CIAE wheel hoe.

Gite, L. P., & Agarwal, N. (2000). Ergonomical comparison of local and improved sickle for wheat harvesting by women workers. *Agricultural Engineering Today*, 24(3), 7-12.

Gite, L. P., & Yadav, B. G. (1989). Anthropometric survey for agricultural machinery design-An Indian case study. *Applied Ergonomics*, 20(3), 191-196.

Gite, L. P., & Yadav, B. G. (1990). Optimum handle height for a push – pull type manually- operated dryland weeder. *Ergonomics*, 33(12), 1487-1494

Gomez, K. A., & Gomez, A. A. (1984). Statistical procedures for agricultural research (2nd ed.). New York: John Wiley & Sons.

Grandjean, E. (1982). Fitting the task to the man: an ergonomic approach. London, Taylor & Francis

Grandjean, E. (1986). Fitting the task to the man: an ergonomic approach. London, Taylor & Francis.

Green, R. A., Briggs, C. A., Wrigley, T. V. (1991). Factors related to working posture and its assesment among keyboard operators. *Applied Ergonomics*, 22(1), 29-35.

Grieve, D. & Pheasant, S. (1982). Biomechanics. In the body at work, edited by W T Singleton. Cambridge University Press, Cambridge, England.

Gschwend, N. (1969). Schulgestuhl and Haltungsschaden. Z. Praventimed, vol 14, pp.8-14, cited in Grandyean, E. (1973). 'Ergonomics in the Home'. Taylor & Francis, London.

Gupta, P. K. (1983). Anthropometric survey of Indian farm workers. *AMA*, 14(1), winter.

Hagmann, J. (2002). Development of a donkey-pulled tool frame for weeding. September 5, 2002, http: //www.atnesa.org

Hasalkar, S. M., Shivalli, R. C., Budihal, R. Y., & Biradar, N. P. (2004). Design of weeding tool: Saral kurpi to reduce the drudgery of farm women. Proceedings from HWWE '2004: National conference on Humanizing Work and Work Environment. Mumbai.

Hasalkar, S., Budihal, R., Shivalli, R. & Biradar, N. (2004). Assessment of workload of weeding activity in crop production through heart rate. *Journal of Human Ecology*, 14(3), 165-167.

Hasalkar, S., Shivalli, R., & Budihal, R. (2007). Musculo-skeletal disorders of the farm women while performing the top dressing of fertilizer activity. *Journal of Human Ecology*, 21(2), 109-112.

Hasalkar, S., Shivalli, R., & Nandi, S. (2005). Manually operated groundnut decorticators and workload of farm women: an ergonomic assessment. Proceedings from HWWE '2005: National conference on Humanizing Work and Work Environment. Guwahati.

Haselgrave, C.M. (1994). 'What do we mean by a working posture?' Ergonomics, 37(4) pp, 781-799.

himachal.nic.in

hpkangra.gov.in

Hsiao, H., Long, D., & Snyder, K. (2002). Anthropometric differences among occupational groups. *Ergonomics*, 45(2), 136-152.

http://www.answers.com/topic/methodology

Improve your work posture www.cdc.gov/niosh/docs/2004-164

Jastrzebowski, W. B. (1857)[1997]. An outline of ergonomics or the science of work based upon the truths drawn from the science of nature, (published in Polish, in four parts). Nature and industry, 29, 227-231; 30, 236-244; 244-251; 32, 253-258. English translation published in 1997. (Warsaw: Central Institute for Labour Protection).

Karawowski, W. (2001). International Encyclopedia for Ergonomics and Human Factors. London, Taylor & Francis.

Karunanidhi, R., Kathirvel, & Tajuddin, A. (2004). Modeling of anthropometric data of agricultural workers.

Karwowski, W. (1991). Complexity, fuzziness and ergonomic incompatibility issues the control of dynamic work environments. *Ergonomics*, 34, 671-686.

Karwowski, W. (2005). Ergonomics and human factors: the paradigms for science, engineering, design, technology and management of human-compatible systems. *Ergonomics*, 48, (4), 436-463.

Kathirvel, K. & Ananthakrishnan, D. (2000). Collection and documentation of the anthropometric data of male and female agricultural workers. All India coordinated research project on Human Engineering and Safety in Agriculture. Progress report (1996-2000), 78-94.

Kathrival, K., Vidhu, K.P., & Manian, R. (2003). Ergonomic evaluation of self propelled paddy harvester. 37 convention of ISAE, FMP-HE, 5, 330-338.

Kathrival, K., Vidhu, K.P., & Manian, R., & Senthikumar, T. (2003). Ergonomic evaluation of manually operated paddy transplanter. 37th Convention of ISAE-FMP-HE, 1, 301-308.

Kathrival, K., Vidhu, K.P., & Manian, R., & Senthikumar, T. (2003). Ergonomic evaluation of cono weeder for paddy. 37th Convention of ISAE-FMP-HE, 4, 322-329.

Kendall, F. P., Kendall, E., Creary, M., & Provance, P. R. (1993). Muscles: Testing and function (4th ed.). Baltimore: Williams and Wilkins.

Kirk, P. M., & Sullman, M. M. (2001). Heart rate strain in cable hauler choker setters in New Zealand logging operations. *Applied Ergonomics*, 32, 389-398.

Kline, C. K., Green, D. G., Donahue, R. L., & Stout, B. A. (1969). Agricultural mechanization in equatorial Africa. Michigan State University; Research Report no.6.

Kroemer, K. (1983). Engineering Anthropometry: Workspace and equipment to fit the user. Cited in Oborne, D. & Gruneberg, M.

Kugler, C., Strunk, M., & Rudofsky, G. (2001). Venous pressure dynamics of the healthy human leg, role of muscle activity, joint mobility and anthropometric factors.

Kuijt-evers, L. M., Twisk, J., Groenesteijn, L., De looze, M. P., & Vink, P. (2005). Identifying predictors of comfort and discomfort in using hand tools. *Ergonomics*, 48(6), 692-702.

Kumar, V. J. F. & Paravathi, S. (1998). Ergonomic studies on manually operated maize sheller. *Agriculture engineering journal*, 7(1), 37-45.

Kumar, V. J. F., Durairaj, C. D., & Salokhe, V. M. (2000). Ergonomic evaluation of hand weeder operation using simulated actuary motion. *Agricultural Engineering Journal*, 9(1), 41-50.

Kumar, V. J., Durairaj, C. D., & Salokhe, V. M. (2000). Ergonomic evaluation of hand weeder operation using simulated actuary motion. *Journal of Agricultural Engineering*, 80(1), 41-50.

Kuorinka, I. ; Cote, M.M. ; Baril, R. & Larve, C. (1994). Participation in workplace design with reference to low back pain: A case for the improvement of thr police patrol car. Ergonomics, 37,7, pp 1131-1136.

Leblanc, J. A. (1953). Use of heart rate as an index of work output. *Journal of Applied Physiology*, 10, 275-280.

Lehman, G. (1958). Physiological measurement as a basis of work organization in industry. *Ergonomics*, 1, 328-344.

Leuder, R. K. (1983). Seat comfort: A review of the construct in the office environment. *Human Factors*, 25, 701-711.

Literature cited

Mathur,

Mbanje, E., Twomlow, S. J., & Neill, D. H. Evaluation of animal-drawn weeders for smallholder maize production in Zimbabwe. September 5, 2002, http://www

Mirdha, N. M. (1964). Agriculture and co-operation. Kurukshetra, 13(3), 6.

Mohanty, S.K., & Satapathy, G.C. (2005). Ergonomics of rural women for manual threshing operation of paddy in orissa.

Moray, N., Johansen, J., Pew, R., Rasmussen, J., Sanders, A.F., & Wickens, C.D. (1979) Report of the experimental psychology group, in N. Moray (ed.), Mental Workload : Its Theory and Measurement (New York: Plenum), 105.

Moustafa, A. W., Davies, B. T., Darwich, M. S., & Ibrahihm, M. A. (1987). Anthropometric study of Egyptian women. *Ergonomics*, 30(7), 1089-1098.

Murali, D., Kulkarni, M.S., & Pardesi, R.S. (2004). Postural deviation of body of farm women while performing selected farm activities using traditional method and improved tools. Proceedings from HWWE '2004: National conference on Humanizing Work and Work Environment. Mumbai.

Murphy (1973) www.dir.ca.gov/oshsb/(pdf)

Nachemson, A. & Elfstrom,G. (1970). Intravital dynamic pressure measurements in lumbar discs. *Scandinavian Journal of Rehabilitation Medicine,* Supplement 1, 3-38p.

Nachemson, A. (1974). Lumbar Intradiscal Pressure. Cited in : Grandjean, E. and Hunting, W. (1977) : Ergonomics of Posture Review of Various Problems of Standing and Sitting Posture. *Applied Ergonomics.* 8(3) : 135-140.

Nadre, R. G., & Yeole, S.N. (2004). Evaluation of suitable wheel type hand tool for weeding. Proceedings from HWWE '2004: National conference on Humanizing Work and Work Environment. Mumbai.

Nag, P. K., & Chatterjee, S. K. (1981). Physiological reactions of female workers in Indian agricultural work. *Human Factors*, 23(5), 607-614.

Nag, P. K., & Dutt, P. (1979). Effectiveness of some simple agricultural weeders with reference to physiological responses. *Journal of Human Ergology*, 8, 13-21.

Nag, P. K., & Dutt, P. (1980). Circulo-respiratory efficiency in some agricultural work. *Applied Ergonomics*, 11(2), 81-84.

Nag, P. K., & Nag, A. (2004). Drudgery, accidents and injuries in Indian agriculture. *Industrial Health.* 42, 149-162.

Nag, P. K., & Pradhan, C. K. (1992). Ergonomics in the hoeing operation. *International Journal of Industrial Ergonomics*, 10(4), 341-350.

Nag, P. K., Sebastian, N. C., & Mavlankar, M. G. (1980). Occupational workload of Indian agricultural workers. *Ergonomics*, 23(2), 91-102.

Oberoi, K., Pender, H. & Gupta, R. (2006). Assessment of muscular stress of rural women while performing different activities with traditional and improved tools. *Journal of Human Ecology*, 19(3), 191-194.

Park, R. E., & Rodburd, K. (1962). "Behind our Masks" Survey, 56, 135- 139.

Pharade, S., Tiwari, P. S., Gite, L. P., Majumder, J., & Babu, V. B. (2005). Sitting push-pull strength of agricultural workers in Central India. Proceedings from HWWE '2005: National conference on Humanizing Work and Work Environment. Guwahati.

Pheasant, S. T. (1991). *Ergonomics.* London: McMillan.

Pheasant, S.T. (1991). Ergonomics, work and health. London:Mcmillan.

Phillips, P. G. (1954). Metabolic cost of agricultural activities in West Africa. *Journal of Tropical Medicine,* 57, 12-20.

Poddar, E., Nag, P. K., Nag, A. & Pramanik, B. (2004). The change of center of pressure (COP) in different sitting podture. Proceedings from HWWE '2004: National conference on Humanizing Work and Work Environment. Mumbai.

Rahi, A. A. (2003). Ergonomical studies on agricultural workers for selected farm operation. Unpublished M.E. thesis, MPUAT, CTAE, Udaipur.

Rantanen, J. 1981, Risk assessment and the setting of priorities in occupational health and safety. *Scandinavian Journal of Work Environment and Health,* 7, 84-90.

Reddi, P. & Reddy, M. N. (2003) Women in agriculture: A sociological study in southern India. www.iwpr.org/pdf/Allipuram_PadmajaReddi_poster.pdf.

Rodahl, K. (1989). The physiology of work. London,NY, Philadelphia: Taylor and Francis.

Saha, P. N., Datta, S. R., Banerjee, P. K., & Narayane, G. G. (1979). An acceptable workload for Indian workers. *Ergonomics,* 22(9), 1059-1071.

Sakai, M., Kurata, K., Annevelind, E., & Oving, R. (1993). The change of women's workload and women's role in Japanese agriculture. Proceedings XVCIOSTA-CIGRV Congress: Farm planning labour and labour conditions, computed in agriculture management, Wageninger, Netherlands, 10-13 may, pp158-162.

Salvendy, G. (Ed.). (1997). Handbook of human factor and ergonomics, 2nd edition. New york, Wiley.

Sandhu, P; Sidhu, M & Bakhshi, R. (2005). Ergonomic Evaluation of Selected Light Moderate Heavy Domestic Work for Young Punjabi Women. Proceedings from HWWE '2005: National conference on Humanizing Work and Work Environment. Guwahati.

Sanghi, N. K. (1990). Crop technologies for farm women identification application and research gaps in women in agriculture. IFWA, Krishnan Anusandhan Bhavan,Pusa, New Delhi.

Sanyal, I. (1982). Human energy demand of some farm operations and the development of a power tiller seat from ergonomic considerations. Unpublished Ph.D.thesis, agril.engg. department, IIT, Kharagpur.

Satapathy, G.C., Mohanty, S.K., & Swain, S. (2005). Ergonomic evaluation of self propelled reapers in rice crop with respect to safety of operators.

Schoberth, H. (1962). Die Wirbelsaule Von Schulkindern. Cited in Grandyean, E. (1969). Sitting Posture. Taylor & Francis, London pp. 98-111

Shahnavaz, H. Bao, S., Chavalitsakulchai, P. (1991). Occupational stress at the workplace in industrially developing countries: Case studies in China and Thailand, In: Kumashiro Mega (eds)Towards human work solutions to problems in occupational health and safety. Taylor and Francis. London.

Shallini (2000) ergonomic evaluation of workload to determined work rest allowance in critical activities for the physical fitness of women farmers of hill

region of Nainital district. Master thesis. Dept. of FRM, College of H.Sc. G.B. Pant University of Agriculture and Technology, Uttranchal.

Shallini (2002). Ergonomical evaluation of workload to determine work rest allowance in critical activities for the physical fitness of women farmers of hill region of Nainital district. Master thesis, Dept of FRM, College of H.Sc, G.B Pant University of Agriculture and Technology, Uttranchal.

Sharma, Tripathy & Gurung (1997) www.fao.org/WAICENT

Shrivastava, Atul Kumar & Raverkar, Aparna. (2005). An Anthropometry Study of Female Agricultural Workers of Jabalpur Region. Proceedings from HWWE '2005: National conference on Humanizing Work and Work Environment. Guwahati.

Singh & Shiva (1988). Cited in SD dimensions- sustainable Development(SD), Food and Agriculture organization of the United Nations(FAO).www.fao.org/waicent/faoinfo/sustdev/PEdef_en.htm

Singh, M., & Maheshwari, K. (2005). Electromyography studies of workers involved in wheat bundles and Bhusa lifting activities. Proceedings from HWWE '2005: National conference on Humanizing Work and Work Environment. Guwahati.

Singh, R. P., Agarwal, K. N. & Satapathy, K. K. (2003). Anthropometry of agricultural workers of Meghalaya. Proceeding 37th convention of ISAE.

Singh, S. P., Gite, L. P., & Agrawal, N. (2004). Ergonomical evaluation of manually-operated fertilizer broadcaster with farm women. Proceedings from HWWE '2004: National conference on Humanizing Work and Work Environment. Mumbai.

Singh, S., De, D., & Pannu, C.J. (1999). Energy conservation technology for farm operations in Punjab.(AICRP)Energy requirement in agriculture sector.

Singh, S.P., Gite, L.P. & Agarwal, N. (2004). Ergonomical evaluation of manually –operated fertilizer broadcaster with farm women. Proceedings from HWWE '2004: National conference on Humanizing Work and Work Environment. Mumbai.

Sirisha D., Kathirvel K., and Manian, R. (2005). Performance evaluation of women friendly groundnut stripper and fertilizer broadcaster with ergonomic design features. Proceedings from HWWE '2005: National conference on Humanizing Work and Work Environment. Guwahati, Assam.

Solanki, S.N., Yeole, S.N., Jadhavrao, K.S., & Nadre, R.G. (2004). Evaluation of suitable tools to minimize drudgery in selected farm activity-Weeding. Proceedings from HWWE '2004: National conference on Humanizing Work and Work Environment. Mumbai.

Solomonow, M. (2004). Ligaments: A source of work-related musculoskeletal disorders. *Journal of Electromyography and Kinesiology, 14.*

Srivastava, P., Kotwaliwale, N. & Singh, G. (1997) Technologies for enhancing employment opportunities for rural women-innovation and adoption. Technical bulletin CIAE, Bhopal.

Stanton, N., Hedge, A., Brookhuis, K., Salas, E., & Hendrick, H. W. (2004). Handbook of human factors and ergonomics methods. Boca Raton, CRC Press.

Straker,L. M. (1999). Body discomfort assessment tools.In: Karwowski, W. and Marras, W.S. (eds), the occupational handbook, 1239-1252, USA: CRC Press.

Tewari, V. K., Dewangan, K. N., Vidhu, K. P., Patel, T., & Dubey, S. (2005). Comfort characterization using artificial neural networks on self-propelled rice transplanter operations. Proceedings from HWWE '2005: National conference on Humanizing Work and Work Environment. Guwahati.

Tewari, V.K., Datta, R.K., & Murthy, A.R. (1991). Evaluation of three manually operated weeding devices. *Applied Ergonomics*, 22(2), 111-116.

Tiwari, P.S., & Gite, L.P. (2003). Evaluation of work-rest schedules during operation of rotary power tiller. Proceeding 37 Convention of ISAE, FMP-13,383-392.

Van Wely, P. (1969). Design and disease. *Applied ergonomics*, 1, 262-269.

Varghese, M.A.; Chatergee, L.; Akeya, N. & Bhatnagar, A. (1989). Anthropometry and its Ergonomical Implications. U.G.C. Project Report (1) Department of Family Resource Management, SNDT, Mumbai.

Vasta, D. K., & Singh, S. P. (2000). Development of tools and implements to reduce human drudgery of women in hill agriculture.Final report of ICAR Adhoc scheme. Himachal Pradesh Krishi Vishva Vidyalaya, Palampur.

Vedavalli, L. & Sharma, A. (1997) Waynad Kerela, *In* gender dimensions in biodiversity management: India. Report submitted to FAO, RAP, pp 85-94.

Vedavalli, L. (1997) Koli hills Tamil Nadu, *In* gender dimensions in biodiversity management: India. Report submitted to FAO, RAP, pp 95-106

Venkateswaran, S. (1992) Living on the edge: Women, Environment and Development, Friedrich Ebert Stiftung, New Delhi.

Vicente, K. J. (2004). The human factor. New York: Rout ledge.

Viren, M. V., Verma, A. & Nath, S. (2003). Anthropometric studies of female farm workers on selected tasks for agricultural mechanization in Chhattisgarh region. proceeding 37 Convention of ISAE-FMP-HE,14, 393-396.

Wardle, J. G., & Gross, D. S. (1977). Women and strenuous work. *Human Factors*, 515-517.

Wiktorin, C., Karkqvist, L., Winkel, J, & the STOCKHOLM MUSIC 1 STUDY GROUP(1993). Validity of self-reported exposures to work postures and manual materials handling. *Scandinavian Journal of Work Environment and Health*, 19, 208-214.

Wilson, J.R. and Corlett, E.N. (eds) 1995, Evaluation of Human Work, 2nd ed. London: Taylor & Francis.

Wu, H., & Wang, M. J. (2002). Relationship between maximum acceptable work time and physical workload. *Ergonomics*, 45(4), 280-289.

Wu, H., Hsu, W., & Chen, T. (2005). Complete recovery time after exhaustion in high-intensity work. *Ergonomics*, 48(6), 668-679.

www.social research methods.net/Kb/design.php-6k

Xiang, H., Stalloner, L., & Keefe, T.J. (1999). Back pain and agriculture work among farmers: An analysis of the Colorado farm family health and hazard surveillance survey. *American Journal of Indian Medicine*, 55 (3), 310-316.

Yadav, R., Kaur, N., Gite, I. P., & Randhawa, J. (2000). An anthropometry of Indian female angricultural workers. *AMA*, 31, (3), 56-60.

Yadav, R.; Pund, S.; Savani, J.B. & Gite, L.P. (2003) Anthropometric and Physiological Studies of Agricultural Workers of Gujarat. Proceeding 37 Convention of ISAE.

Zend, J. P., Umrikar, S. H., Yeole, S. N., & Murali, D.(2005). Ergonomic evaluation of newly developed weeding tools.