Dear Respondent,

I am doing research work on “Economic and Ecological Analysis of Leather Solid Wastes in Vellore Dist., Tamil Nadu, India”. I wish to elicit your valuable information through this interview. Kindly give the most appropriate answer to the research questions.

There is no right or wrong answer. Your answer will be of enormous help to identify the findings, suggestions, and recommendations for policy formulation and practice regarding leather solid wastes. The study is only academic in nature. Your answer will be kept confidential. Providing your name is optional in order to protect your privacy. I thank you for your kind gesture to oblige me.

(MR.T.AASIF AHMED)

A) GENERAL INFORMATION:

1) Name of the Respondent:

2) Designation:

3) Name of the Tannery/ Industry:

4) Location:

5) Month and Year of establishment:
6) Name of Products & Capacity with yield/purity per day:

7) Name of the by Products and its quantity per day:

8) Has the industry/tannery obtained ISO 9000/ ISO 14000/ OSHAS 18000/ any other EM accreditation/certification or recognition? YES/NO

B) RESEARCH QUESTIONS:

9) Does your tannery/industry have a separate waste management department?

   YES/NO

   If yes, How many employees work in the leather solid wastes service?

   No. Of Administrative and professional staff: ............

   No. Of Operation supervisors: .................................

   No. Of collection workers: .................................

   No. Of Collection vehicle drivers: ..........................

   No. Of operators of other plants: ...........................

10) Did your tannery/industry receive any award for better Leather Solid Wastes Service?

    YES/ NO

    If yes, please specify the details of the award received..........................
11) How well aware is your organization in dealing Leather Solid Waste issues?
   a) Highly Satisfactory
   b) Satisfactory
   c) Neither satisfied nor dissatisfied
   d) Dissatisfied
   e) No idea

12) Which of the following methods do you use in managing Leather Solid Wastes?
   a) Composting
   b) Recycling
   c) Landfill
   d) Integrated Solid Waste Management(reduce, reuse and recycle/landfill/incinerate)
   e) None

Collection of Leather Solid Wastes:

13) Which of the following type of Leather Solid Wastes do you normally generate in the leather Tannery/industry? You can choose more than one option.
   Raw hide waste
   Limed hide waste
   Shavings, splitting and trimming wastes
   Leather-cut waste and old leather products
   Others please specify............................................
14) Please state the total quantity of leather solid wastes is generated out of per ton of raw hide:

<table>
<thead>
<tr>
<th>S. No:</th>
<th>Type of Leather Solid wastes generated</th>
<th>Total Qty. (per ton)</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>Raw hide waste</td>
<td></td>
</tr>
<tr>
<td>2</td>
<td>Limed hide waste</td>
<td></td>
</tr>
<tr>
<td>3</td>
<td>Shavings, splitting and trimming wastes</td>
<td></td>
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<tr>
<td>4</td>
<td>Leather-cut waste and old leather products</td>
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<tr>
<td>5</td>
<td>Others, please specify</td>
<td></td>
</tr>
</tbody>
</table>

15) What percentage of the total quantity of leather solid wastes generated in the leather tannery/industry (per ton of raw hide)?
   a) Above 50%
   b) Between 30% to 50%
   c) Less than 29%
   d) Negligible

Transportation of Leather Solid Wastes:

16) What in your opinion should be the distance between leather tannery / industry and the location of the leather solid wastes receptacle area/unit? Please choose only one.
a) Less than 100m  
b) 101-150m  
c) 151-200m  
d) 201 and above  

17) Can non-motorised vehicle be used instead of motorised transport for transporting solid wastes? YES/NO  

**Disposal of Leather Solid Wastes:**

18) Do you know where the leather solid wastes are finally disposed?  
a) Dumping within premise  
b) Dumping in isolated area  
c) Land fills  
d) Near residential area  
e) Others, please specify..................  

19) How often does the industry carry out SWM inspection?  
a) Weekly  
b) Fortnightly  
c) Monthly  
d) Quarterly  

20) Is the inspection carried out on the basis of  
a) Quantity of LSW generated  
b) At regular intervals as per schedule  
c) Report provided by the dept. of production  
d) Others, please specify............
21) Which of the following groups, will you be more satisfied with, to carry out the functions of waste collection and disposal?
   a) Private Enterprises
   b) Public (Govt.) Institution
   c) Both a) & b)

22) How will you rate the level of employees’ awareness of proper waste disposal in your industry?
   a) Highly satisfactory
   b) Satisfactory
   c) Appropriate
   d) Dissatisfied
   e) No idea

23) Do you have any constraints with respect to the collection and disposal of leather solid wastes? YES/NO
   If yes, please specify..........................

The impact of Leather Solid Wastes:

24) Do you thing that your health is affected because of Leather solid wastes? YES/NO
   If Yes, What type of disease you are

25) Do waste solids contain contaminants that can cause the soil to have raise the toxicity levels in the soil? YES/NO
26) Is there a chemical reaction between solid wastes and soil that can result in other compounds or gases being released? YES/NO

27) In order of creating an impact how would you arrange the following as a means of streamlining leather industrialists’ attitude to proper solid waste management?
   a) Appropriate tax
   b) Stringent regulatory control
   c) Education/awareness creation on the impact of improper leather solid waste
   d) Economy, Health and the environment

28) Do you feel Leather solid waste generates a worse smell compared to liquid waste? YES/NO

29) How do you control the odour generated by LSW?
   a) Growing more trees
   b) Carrying/transporting SW in closed containers
   c) Using air freshness
   d) Using industrial exhaust fans
   e) Providing breathing mask to employees and visitors

30) Do you think Leather Solid Waste management will lead to improvement in Health of the local people and the environment?
   a) Agree
   b) Neither agree nor disagree
   c) Disagree
   d) Strongly disagree

**Provision of SWM-employee facility:**

31) Does the industry appreciate the SWM-team/department for efficient management? YES/NO

32) How does the Company appreciate the team?
a) Increment/bonus  
b) Reward for every individual  
c) Promotion  
d) Incentives  
e) No such appreciation  

33) What steps does the industry employ to check the health issues for the SWM team?  
a) Provides separate uniform and mask  
b) Provides regular health check-ups  
c) Compulsory utilising of available accessories before duty  
d) Washroom for cleansing after solid wastes disposal  
e) All of the above  

Cost-Benefits of Leather Solid Wastes:  

34) How much do you spend on the collection, transportation and disposal of leather solid wastes?  

<table>
<thead>
<tr>
<th>S. No:</th>
<th>Particulars</th>
<th>Total cost incurred (per ton)</th>
</tr>
</thead>
<tbody>
<tr>
<td>1.</td>
<td>Cost of Solid Wastes Collection</td>
<td></td>
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<tr>
<td>2.</td>
<td>Cost of Solid Wastes Transportation</td>
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<tr>
<td>3.</td>
<td>Cost of Solid Wastes Disposal</td>
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<tr>
<td>4.</td>
<td>Reward for Workers</td>
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<tr>
<td>5.</td>
<td>Miscellaneous expenses</td>
<td></td>
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</tbody>
</table>

35) Is this cost borne by the industry? YES/NO
36) How is the cost borne by the industry?
   a) The industry alone
   b) Along with the tanners association/union
   c) Along with the local tanners association
   d) The Government and the other private body

37) Does the industry have separate funding for LSWM?
   YES/NO

   If No, does the industry plan to provide a separate funding for SWM in future?
   YES/NO

38) Problems encountered in leather solid waste management service. Please tick appropriate spaces, where the industry encounters these problems.

<table>
<thead>
<tr>
<th>Problems</th>
<th>Very serious</th>
<th>Serious</th>
<th>Not so serious</th>
<th>No problems</th>
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</thead>
<tbody>
<tr>
<td>No proper institutional set-up for SWM service</td>
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<tr>
<td>Lack of leather solid wastes service</td>
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<tr>
<td>Poor response to leather solid wastes</td>
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<tr>
<td>Minimization</td>
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<tr>
<td>Lack of SWM Planning</td>
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<tr>
<td>Rapid industrialization outstripping service capacity</td>
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<tr>
<td>No proper collection and disposal of LSW</td>
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<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Lack of vehicles</td>
<td></td>
<td></td>
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<td></td>
</tr>
</tbody>
</table>
Lack of equipment
Lack of trained workers
Lack of safety measures in SWM service
Lack of legislation
Lack of financial assistance
Poor co-operation by Govt. agencies
Poor public co-operation
Lack of awareness programs

**Other research Questions:**

39) What are the different strategies the industry adopts for leather solid waste management?
   a) Creating awareness among employees and employers
   b) Checking and monitoring proper disposal of solid waste
   c) Periodical inspection of SWM
   d) Obtaining monthly report about SWM

40) Ways to improving awareness of Leather Solid Wastes Management:

41) How would you rate the questions asked?
VELLORE DISTRICT MAP

Source: www.mapsofindia.com (updated on 1st Feb 2012)
Details of My Research Paper Presented at National and Global Level

Seminars/Conferences:

- Presented a paper entitled as “Islamic Economics and Industrial Economics” in the UGC One Day National Level Seminar on “Paraphrasing the facets of Islamic Economics In relation to General Economics” at PG & Research Dept. of Economics, Jamal Mohamed College, Tiruchy-20 on 11th January 2012 and published in the Souvenir (P.No:81-82).
- Presented a paper entitled as “Global Scenario on Leather Solid Waste Management” in the International Conference on “International Business Scenario in Indian Context” at Dept. of Management Studies, Sacred Heart College, Tirupattur- 635 601 on 9th & 10th January 2014 and published in the conference proceedings (P.No:11).
Details of My Research Papers Published in the International Journals


- “Green Accounting for Sustainable Development - A case of Leather Industries in Vellore District” Published in International Journal of Green & Sustainable Development, Kolkata, WB India Vol. No.2 (August 2015), Issue No. 16 Page No. / ISSN 2350-1464