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FINAL REPORT

PROJECT NO. EG/GL/01/G34 P.O.No. 160010/ML

PROJECT TITLE Community Awareness on Hazards of exposure to Mercury and Supply of Equipment for a transportable demonstration unit (TDU) for Mercury-Cleaner Gold Processing Technologies in the Kadoma-Chakari District o Zimbabwe

UNIDO CONTRACT NO. 16001056

June 2008

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Attachments

Annex A: Participants Lists

Annex B: List of Equipment Purchased and UNIDO verification

1 Executive Summary

This final report analyses work done since the signing of the contract in June 2006. Initially the project was anticipated to be conducted within a six month period. However, this was not to be the case due to the late disbursement of funds and subsequent operational challenges. The report is written as per advice from UNIDO's Ludovic Bernaudat, following the structure of the terms of reference as given in annex C of the project document.

2 Aim of the project

The aim of the project is given on page 2 of Annex C. We therefore address bullet by bullet the objectives as outlined on page 2 of annex C.

- **Improve community health by reducing mercury exposure to miners/panners.....**

Through the training sessions that we carried out in 11 villages, we empowered the communities, miners, including women with knowledge as to best mining methods and hazards associated with exposure to mercury. We also included education on AIDS, STIs, health and sanitation. Common tropical killer diseases such as malaria were included in the curriculum. In our opinion such lessons ensured that the communities were now conducting their business from a position of knowledge gained through the training sessions.

- **Build local capacity in local government, health care services and the mining community....**

This bullet is rather vague hence we are unable to respond.

- **Encourage local equipment and manufacturing suppliers....**

The gold equipment supply industry in Zimbabwe is developed with knelson concentrators, amalgam barrels, James Tables etc. We were unable to influence the increase in the sale of such equipment simply because our target group was wrong. We could have influenced the purchase of hammer mills and manufacture of sluice boxes, unfortunately we could not due to operational constraints. We should have targeted mine owners and not workers nor millers.

- **Improve community quality of life....**

Whilst we can boldly declare that the communities in which we engaged in were enriched through knowledge, it is difficult for us to point to an improvement of quality of life since we did not have indicators for such parameters.

- **Support improved delivery of rural health care...**

Our training sessions were complimented by a trained nurse and an environmental health officer. The environmental health officer was instructed to educate the community on sanitation and safe drinking water among other issues. Through our training sessions, some villages which had no health coordinators were assisted in selecting them by the nurse and environmental health officer. The selected persons went through basic training particularly in dispensing malaria tablets. We therefore are certain to have met this objective.

- **Educate women and children,....**

Our training sessions were mainly directed at the adult population as it was conducted during school terms and times. We can state that we managed to train 173 women on hazards of mercury exposure (see Figures 1 below).



Figure 1 Training Session involving women only

- **Involve other stakeholder groups....**

We managed to involve government departments such as Ministry of Mines and Mining Development and Ministry of Health and Child welfare. We did not approach any other NGOs, UN agencies nor churches. We were however, keen to engage the Zimbabwe Miners Federation and the Zimbabwe Women Miners Association and this was supposed to be on the last leg of the project which did not take place due to time and limited resources.

- **Reduce environmental contamination and**

Since our training sessions, there have not been any spillages of mining waste recorded through the ministry of mines as per regulations. However, a study need to be conducted to ascertain the fact that less spillages are taking place now as compared to a period before the training sessions.

- **Reduce global mercury emissions...**

What we have noticed is that Artisanal miners listen a lot during training sessions. However, changing their processing methods is a function of various issues all enshrined within the margins of poverty. Poverty entails that most Artisanal miners engage in short cut methods to achieve their objectives. Given an even platform where bread and butter issues are catered for, we believe emissions from Artisanal miners will be greatly reduced. From our part we did manage to disseminate information as to the need to reduce mercury emissions into the environment citing improved miner's health. Our catch phrase was better health, more gold, improved lifestyle. These can only be achieved through minimal or no exposures to mercury through any media (air, water or through the food chain).

2.1 Specific Objectives

The specific objectives of the project are given on page 3 and are;

1. Improvement in gold recovery and reduction in mercury use and/or loss; and
2. Improvement in the awareness of health risks of exposure to mercury.

Both objectives were indeed met by providing miners/panners with information and technology for efficient gold recovery. The use of the sluice box and carpet was particularly welcome by some miners who even wanted to buy the training kit for their own use. As for family protection in terms of exposure to mercury, this was adequately addressed through the training sessions where the family as a basic unit that needed maximum protection was addressed through both women only sessions and sessions where both men and women were present.

2.2 Health Awareness

Three objectives are cited in the TOR under health awareness (page 3). These are addressed in the order in which they appear.

- 2.2.1 Campaign programs were formulated in which training was focused on raising awareness on hazards to exposure to mercury. In fact women trainers were given the task of disseminating the information to the community (See Figure 2). Focus group discussions were conducted where the main topic was mercury and how best to handle the chemical. No print, television nor radio broadcasts were made. The plan had been to have a representative from TDU to appear on a TV programme, this morning, and then produce a 30 minute documentary. All these ideas were overtaken by events. A community theatre was engaged but it was difficult to work with it as their contract was concluded outside the TDU programme. However, on the few occasions in which the theatre group performed, it was eye catching and gave the community a lot to talk about.



Figure 2 Women trainers demonstrating alternative gold winning methods by using the carpet. The nurse is on standby to deliver her lecture on health issues.

2.2.2 The inclusion of the Ministry of Health and Child welfare environmental health department ensured that issues pertaining to sanitation, safe drinking water, AIDS and other diseases were indeed discussed in the same breath as those resulting from exposure to mercury. Such discussions were so involving to such an extent that other diseases in the villages like bilharzias were highlighted resulting in the Ministry of Health sending health personnel to the areas for assessment. This happened at Brompton.



Figure 3 Women Trainers Demonstrating the merits of the kitchen bowl retort

2.2.3 Limited success was recorded on this item. No live media was produced and the comic book ended with comments from various stakeholders but it was not published. However, most of the themes on health awareness of exposure to mercury including amalgam burning, mercury handling, personal protective clothing, protection of family members and children in particular were indeed the focal point in discussions and debates at every training session. Campaign material produced was limited to Tee shirts and brochures.

2.3 Technology Advancement

Four items are given in this section (page 4). Responses are therefore given answering each point.

- 2.3.1 Given the disruption of mining activities particularly during the November 2006 to March 2007, no local equipment suppliers were interested in manufacturing tools for the small miner. The industry had been tuned to supply stamp mill components and the fact that TDU did not form strategic partnerships with Zimbabwe Miners Federation and Zimbabwe Women Miners Association but with Zimbabwe Panners Association meant that not much influence could be done as the partners had neither capital nor mines from where to operate. This objective was not met.
- 2.3.2 This objective needs an assessment on its own in which the TDU team has to go in the field and make an evaluation notwithstanding the fact that miners are very secretive and are unlikely to divulge their earnings.
- 2.3.3 The TDU was commissioned but with limited success. Equipment purchase was slow and some of the equipment was not suitable for transporting in the rugged terrain. However, the overall objective of the project was met in as far as demonstrating "new" technologies is concerned with sluice box and carpet technology. Miners were also shown how to recycle mercury.
- 2.3.4 Demonstrations were done using the sluice box which became popular among miners.

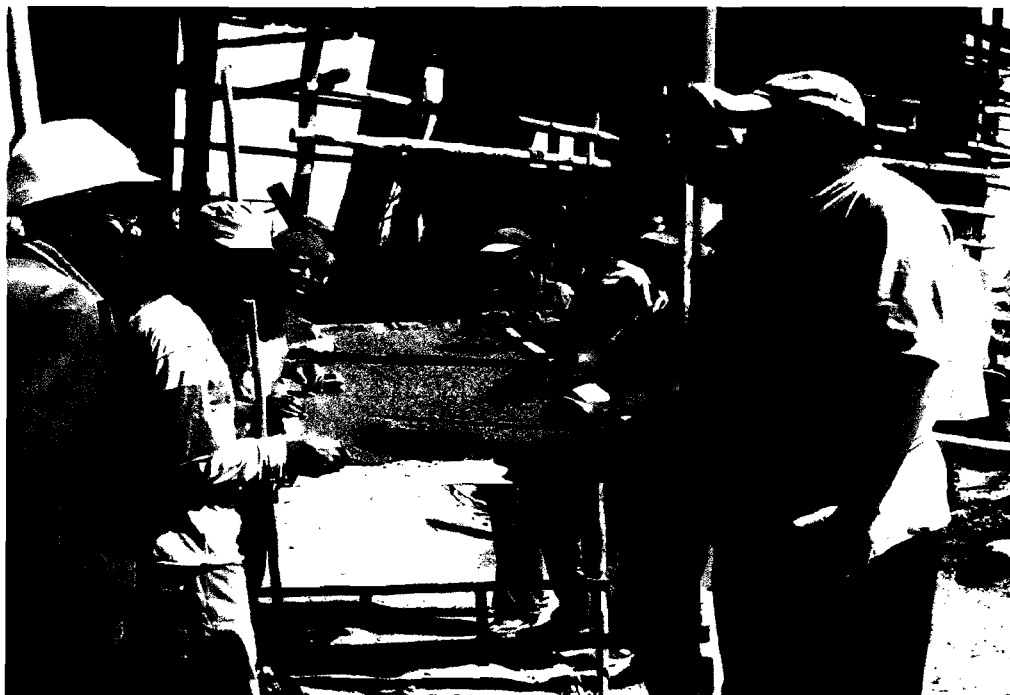


Figure 4 Fitting Carpet to Sluice Box



Figure 5 Sluice Box and Carpet in Operation

TABLE 1 IMPLICATION INDICATORS

| Indicator | Comment |
|--|--|
| Number of people/families, mining groups consulted or advised about technological changes and health awareness | The TDU team made contact with 723 people during the normal training sessions. Other contacts were made at Kadoma Agricultural Show (154) people) and Mine Entra in Bulawayo. A large group of people who attended theatre plays also benefited but numbers were not recorded. |
| Number of family visits made by nurse-educator | Nurse did not do any family visits as we never found it necessary |
| Number of TV radio broadcasts | None |
| Number of community theatre presentations offered | Five |
| Number of T shirts distributed | 150 |
| Number of brochures printed and distributed | 230 |

TABLE 2 BEHAVIOR TECHNOLOGY INDICATORS

| Indicator | Comment |
|---|--|
| Number of miners/panners that adopt new technology or change existing technology | An assessment need to be done |
| Number of amalgamation sites constructed | None |
| Increase in number of ounces of gold produced | Miners do not divulge their earnings. Price distortions would make official figures unreliable |
| Reduction in amount of mercury lost | Tests need to be done to confirm |
| Changes in amalgamation practices | Change not noticeable |
| Number of retorts used | Difficult to ascertain |
| Number of amalgamation barrels used | See above |
| Number of shops supplying new products | None |
| Number of gold refineries informed of hazards of refining mercury containing dore | We do not have gold shops |
| Other behavioral or technological changes observed | Panners now speak openly of dangers of roasting amalgam indoors |

3 Scope of Contracting Services

3.1 Preparation of Material For Local Awareness Campaign and Capacity Building:

Training and awareness campaign material provided by UNIDO was delivered to panners and institutions such as Ministries of Health and Mines through the environmental health office and mines inspectorate division respectively.

In an effort to provide a platform for strong dissemination of health awareness on women and the family, seminars were conducted in which women only sessions were done and also mixed sessions were conducted. A total of 173 women were trained at Venice, Battlefields, ETNA, Brompton, Lily Mine, Buffalo Milling Centre, Mandela Milling Centre, Chemukute, Tix Mine and Amberose. Further training and demonstrations were conducted at Imperami and M&K Milling Centre though no names were recorded. This was because after "Chikorokoza Chapera" panners/miners were reluctant to have their names written down.

The awareness campaign was further boosted by displays at Mine Entra (a mining exhibition in Bulawayo) and at Kadoma Agricultural Show (28 September to 1st October 2006). A total of 154 visitors toured the stand at the Agricultural Show. A decision to participate at the show was to further the awareness campaign in the handling, storage

and use of mercury and the hazards associated with them and also to demonstrate cleaner gold production techniques through the use of the sluice box.

3.2 *Execution of Awareness Campaign*

Awareness campaign was conducted in 11 villages as indicated above. These are Venice, Battlefields, Brompton, Tix, Amberose, Mandela, Chemukute, M&K Milling Centre, Imperami, Buffalo and Lily Mine. The centres chosen were found to be key areas with massive miner/panner congregations. The TDU launch was not conducted at the beginning. We had scheduled to conduct the launch at the end with all equipment in place. This did not take place.

As indicated earlier own a theatre group was engaged outside this contract (See Figures 9 & 10 below). We had therefore no leverage with the group in terms of performance times and areas. We managed to engage the group in two shows and three shows were performed by the group outside our timetable but we are glad that the theme remained one and the same.

We failed to produce billboards but brochures and posters were posted particularly at exhibition centres such as agricultural show and mine entra.

3.3 *Transportable Demonstration Unit*

Success of the TDU was limited. After acquiring the hammer mill we had all it takes to demonstrate what we referred to as a total mining solution to the miner. Unfortunately events that prevailed at that time made it impossible for us to conduct the demonstration. Nevertheless demonstrations using sluice box technology was generally accepted by all miners who witnessed it in action. Further demonstrations were done on use of retort (See Figures 5-8).

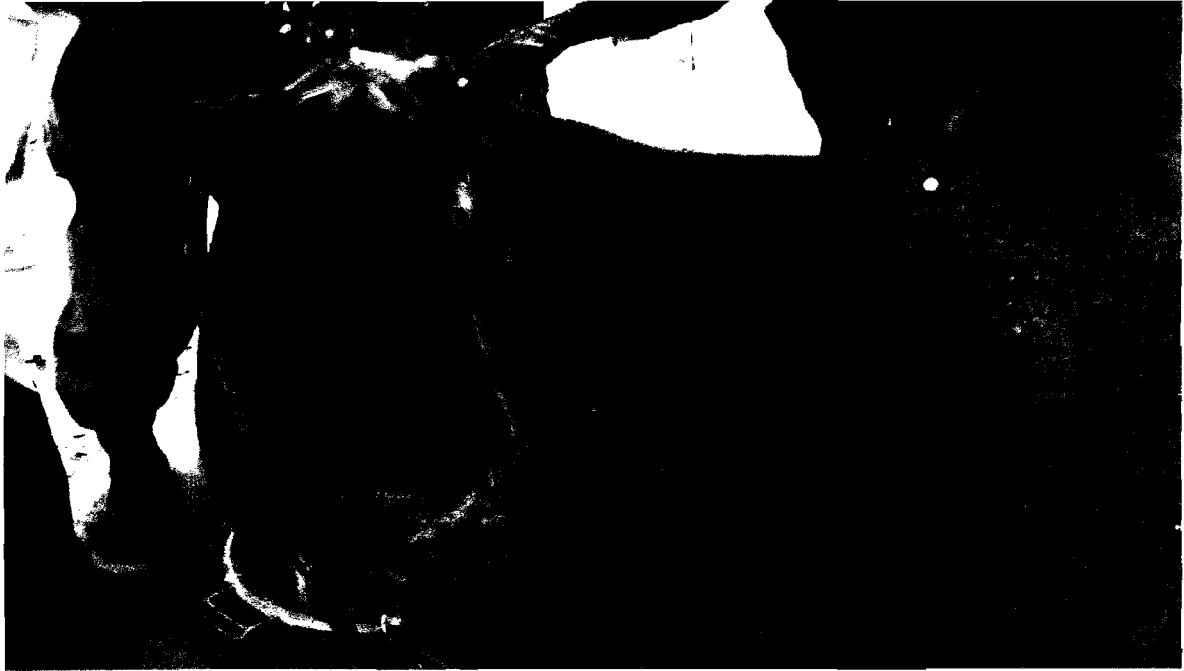


Figure 6 Cleaning the Carpet from the Sluice Box



Figure 7 Carpet Cleaning

3.4 *Success Indicators and impact of GMP*

Indicators are shown in Tables 1 and 2 above.

3.5 *Partnerships and coalition among stakeholders*

We developed a strong working relationship with the two relevant ministries, mines and health. The ministries seconded their officers to ensure continuation of objectives of GMP after the project.



Figure 8 Demonstrating amalgam burning using a retort

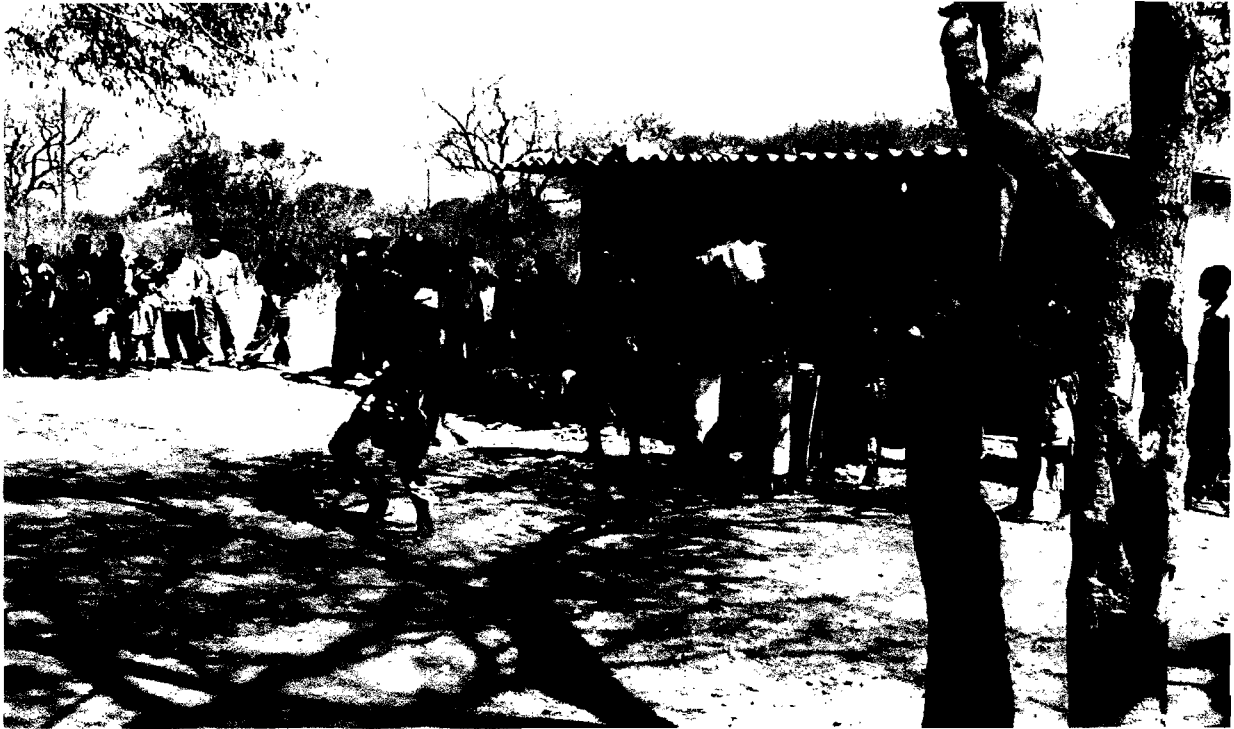


Figure 9 Theatre Group: Spreading the gospel on mercury



Figure 10 Theatre Group preparing to launch campaign material on mercury awareness

3.6 *Project Management and Coordination*

A total of 5 progress reports have been submitted. These always indicated the challenges being faced by the TDU team

4 *General Time Schedule*

Implementation of TDU and awareness campaign programs commenced late due to late disbursement of funds. The entire project was disrupted by events in the country (Chikorokoza Chapera) and our inability to access our funds in NMB Bank. The programs took more than 12 months and still not completed.

5 *Equipment Purchased*

We have included together with equipment purchased the entire expenditure in Table 3 below. *Equipment purchased and UNIDO verification is attached as annex B to this report.*

Table 3 Expenditure from September 2006 November 2007

| Item | Sept. 06 | Oct. 06 | Nov. 06 | Dec. 06 | April 07 | May 07 | June 07 | July 07 | Aug. 07 | Sept. 07 | Oct. 07 | Nov. 07 | Total |
|----------------------------|-------------|------------|------------|------------|-------------|-----------|------------|------------|------------|-------------|------------|------------|---------|
| Food and other incidentals | 556.56 | 1500 | 1300 | 891 | 1000 | 900 | 970 | 900 | 78 | 120 | 0 | 0 | 8215.56 |
| Fuel | 1106.8 | 828 | 904 | 904 | 1505 | 0 | 1505 | 0 | 1505 | 0 | 0 | 0 | 8257.8 |
| Generator | 0 | 7500 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 7500 |
| Wheel barrows | 636 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 636 |
| Shovels | 200 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 200 |
| PPE | 88 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 88 |
| Camping equipment | 0 | 1106 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1106 |
| Tent and Chairs | 2740 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 2740 |
| Digital Scale | 112 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 112 |
| Digital Scale (200kg) | 890 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 890 |
| Sluice Box | 1386.78 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1386.78 |
| Ball Mill | 0 | 0 | 0 | 12000 | 2500 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 14500 |
| Vehicle maintenance | 134 | 0 | 524 | 223.50 | 497.5 | 500 | 84.6 | 230.0 | 43.5 | 170.5 | 29.6 | 0 | 2437.2 |
| Tape (5m) | 3.30 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 3.3 |
| Stationary | 762.56 | 0 | 1218 | 0 | 1110 | 0 | 57.8 | 0 | 0 | 0 | 0 | 0 | 3148.36 |
| Tool Kit | 132 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 132 |
| First Aid kit | 132 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 132 |
| 5 Dishes | 100 | 0 | 0 | 0 | 50 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 150 |
| 5 Jerry cans | 250 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 250 |
| ZPA | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 0 | 0 | 0 | 9000 |
| Health | 1000 | 1000 | 1000 | 500 | 1000 | 1000 | 1000 | 1000 | 1000 | 0 | 0 | 0 | 8500 |
| C.Z.Gambara | 1000 | 1000 | 1000 | 400 | 800 | 800 | 800 | 800 | 800 | 800 | 0 | 0 | 8200 |
| T.Masiya | 1000 | 1000 | 1000 | 400 | 800 | 800 | 800 | 800 | 800 | 800 | 0 | 0 | 8200 |

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|-----------------------|--------------|--------------|--------------|----------------|----------------|----------------|---------------|-------------|---------------|---------------|--------------|-------------|-----------------|
| Lesley | 0 | 0 | 1000 | 400 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1400 |
| S.Kahwai | 250 | 1000 | 1000 | 0 | 1000 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 3250 |
| E.Madongorere | 640 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 640 |
| T.Ruende | 400 | 1000 | 0 | 0 | 0 | 800 | 0 | 0 | 0 | 0 | 0 | 0 | 2200 |
| E.Dzingai | 400 | 900 | 1000 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 2300 |
| Mutare Trip | 0 | 0 | 460 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 460 |
| Airtime | 50 | 100 | 100 | 0 | 100 | 100 | 100 | 100 | 100 | 100 | 70 | 0 | 920 |
| Dhliwayo | 0 | 0 | 0 | 0 | 800 | 800 | 0 | 0 | 0 | 0 | 0 | 0 | 1600 |
| Chigwida | 0 | 0 | 0 | 0 | 0 | 800 | 800 | 800 | 800 | 800 | 0 | 0 | 4000 |
| Laptop | 0 | 0 | 0 | 0 | 0 | 950 | 0 | 0 | 0 | 0 | 0 | 0 | 950 |
| Printer | 0 | 0 | 0 | 0 | 0 | 115 | 0 | 0 | 0 | 0 | 0 | 0 | 115 |
| Projector | 0 | 0 | 0 | 0 | 0 | 3100 | 0 | 0 | 0 | 0 | 0 | 0 | 3100 |
| Hammer Mill | 0 | 0 | 0 | 0 | 0 | 2368 | 0 | 0 | 0 | 0 | 0 | 0 | 2368 |
| H/Mill Motor | 0 | 0 | 0 | 0 | 0 | 325 | 0 | 0 | 0 | 0 | 0 | 0 | 325 |
| H/Mill access* | 0 | 0 | 0 | 0 | 0 | 300 | 0 | 0 | 14.7 | 0 | 29.6 | 15.3 | 359.6 |
| B/ mill access* | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Electrician | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 90 | 0 | 0 | 0 | 90 |
| Generator accessories | 0 | 0 | 0 | 0 | 0 | 750.5 | 0 | 0 | 0 | 0 | 0 | 0 | 750.5 |
| Generator Pad | 0 | 0 | 0 | 0 | 0 | 250 | 0 | 0 | 0 | 0 | 0 | 0 | 250 |
| Vehicle hire | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| IMR contribution | 0 | 0 | 0 | 0 | 1000 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1000 |
| Total | 14970 | 17934 | 11506 | 16718.5 | 13162.5 | 15658.5 | 7117.4 | 5630 | 6231.2 | 2790.5 | 129.2 | 15.3 | 111863.1 |

*accessories

6 Conclusion

The project was implemented under challenging conditions in the project area and the country as a whole. Challenges included the operation Chikorokoza Chapera, erratic water and power supplies and hyperinflationary environment. However, inspite of clear setbacks, the overall objective of the project in spreading awareness of the hazards of exposure to mercury was met. Equipment purchase did not come to its logical conclusion as some of the funds earmarked for the purpose were locked in at NMB Bank and there is still a disbursement of US20000 from UNIDO. Finally we applaud the project team for having done what they did in difficult circumstances.

List of Participants

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*) Poisson
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LILY MINE

08/11/2006 (Patchway)

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radio log

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- 3 ANDREW RUKATICA
- 4 PETROS ZINGWE
- 5 ~~Pastor~~ M...
- 6 T. BANDA
- 7 Modreck PURARI
- 8 Temba
- 9 JESSI OSITENI (F)
- 10 Nyaru Rumba (F)
- 11 JOHN
- 12 Steve Hill (F)
- 13 Nicholas Chimuti
- 14 Sealovs Kundi (F)
- 15 Richard Piri (F)
- 16 W. Chimali (M)
- 17 S. M... (M)
- 18 E MPEFU
- 19 Mungo Prosper (M)

28 11 2006
 - Business - Tiger Airways

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21. Assessment of JBE
 22. Issue NUMBER
 23. (part) Alpha
 24. Program Alpha
 25. Methodology
 26. Data
 27. Results
 28. Conclusions
 29. Recommendations
 30. Summary

[Handwritten notes and diagrams are present, including a bracketed section labeled 'OR/12/06' and 'NAP/SC/11' at the bottom left.]

The Member...
 [Handwritten notes and diagrams are present, including a bracketed section labeled 'OR/12/06' and 'NAP/SC/11' at the bottom left.]

MANUSHA MURUGAN
C 7/12/12

1. LADY VILFRED
2. HEART HOSPITAL
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MANJEEGA MOUNING CENTRE
 7/12/20

1. Laxmi Kulkarni
2. Pankaj Kulkarni
3. Manoj Kulkarni
4. Kalyan Kulkarni
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12/12/06

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| 25 | Nester | Cecilia |
| 26 | Margret | KANANANGI |
| 27 | Betty | Dhinyago |
| 28 | Angela | Mwasa gupemugi |
| 29 | CAROLICE | Phiri |
| 30 | Rockna | Chacko |
| 31 | Nyapetzo | hndzinger |
| 32 | N'lang | Chobacki |
| 33 | Tambudzai | TAZIRA |
| 34 | Shuppi | Mwanzee |
| 35 | Saru | Mwunguzher |
| 36 | Mariya | Aisores |
| 37 | Rachel | Mwase mukoni |
| 38 | Ete Piness | Banda |
| 39 | Waver | Mwure |
| 40 | Regina | Kan-ar-amanjo |
| | | Piri |

12/12/06 (All women sessions)

1 Mrs. Nyandoo

2 Mr. D. Phiri

3 Sister Tembo

4 E. Kupakurece

5 Mr. C. Gathbara

6 Mr. Mapongwe *

7 L. Chidume

8 Mrs. A. M'Genda

9 M. Fakasa

10 Mwuness (Leveness)

11 Mrs. A. Masefu

12 Endi Mwamantaka

13 Charity Sitale

14 ESNATH Nyamoiye

15 Sifelani Nyika (Zulu)

16 Margaret Nyoni

17 Ratina Kavungano

18 Edina Yajati

19 Rosemary Ngaza

- 20 Faith MASHUKU
- 21 Matuisa RUIZE
- 22 Jen Banda
- 23 Gephade Kabode
- 24 GORUMBE MUYO
- 25 S Chagusa
- 26 Regina
- 27 Alice BATHA
- 28 Sylvia MUCUNZU
- 29 Betty OACWA
- 30 SORUWE MUKENUSANGU
- 31 Nyandu ZUWA
- 32

12/12/2012

- 1 Tindi MASHUWA
- 2 PETER'S MASHUWA
- 3 LINDA MASHUWA
- 4 DANIELA MASHUWA
- 5 MASHUWA MASHUWA
- 6 KADAMBA MASHUWA
- 7 RASHIDA MASHUWA
- 8 PETER'S MASHUWA
- 9 ISHAKHANI MASHUWA
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1. INDONESIA

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 Roll No: _____
 Date: _____ (13/09/06)

1. Plasma - fluid
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3. Interstitial - fluid
4. Transcellular - fluid
5. Cellular - fluid
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17. David Mattingdale

BPTI 17/02/2014

17/02/14

- 1. INASAR BIKENI BIKENI
- 2. PAPER 101
- 3. DORIS BIKENI
- 4. EDWARD NICK
- 5. ANGELO ANGELO
- 6. GUYAN GUYAN
- 7. JEFF JEFF
- 8. JEFF JEFF
- 9. JEFF JEFF
- 10. BONFACE MABEBO
- 11. LYMORE KAMBIKA
- 12. TIM TIM

1974

1. *Synaldis* *aurifrons*
2. *Phalaena* *aurifrons*

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L. No.

Thursday 4 July 1951

at - 10.15.10

Taken at 10.15.10

- 1. *Phaenocarpa*
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2048

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DATE: 13 September, 2012

VENUE

NAMES

Address

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| 1 | AKU-AMA | MALAYSIAN AIRWAYS |
| 2 | J. Abdullah | Malay Airway |
| 3 | Nguyen | Malay Airway Centre |
| 4 | Nogya | |
| 5 | S. Bangsi | A. H. Bangsi |
| 6 | Luis Al | A. H. Bangsi |
| 7 | Sitsha | Centre 296 |
| 8 | Bangsi h | D. H. 2 VENICE |
| 9 | Jaya Perdana | Malay Airway Centre |
| 10 | Sungai | Malay Airway Centre |
| 11 | M. M. M. M. | Malay Airway Centre |
| 12 | V. D. M. | |
| 13 | Bangsi | V. D. M. |
| 14 | Bangsi | D. 31 VENICE |

Annex B: Equipment Purchased and UNIDO verification

| Item | Cost | Condition | UNIDO Verification |
|--------------------------|-----------------|---|--------------------|
| Generator | 7500 | Good | |
| Wheel barrows | 636 | Good | |
| Shovels | 200 | Good | |
| PPE | 88 | Good | |
| Camping equipment | 1106 | Good | |
| Tents and Chairs | 2740 | 5 chairs broken, one tent torn but usable | |
| Digital Scale | 112 | With ZPA | |
| Digital Scale (200kg) | 890 | Good | |
| Sluice Box | 1386.78 | Good | |
| Ball Mill | 14000 | Good | |
| Tape (5m) | 3.3 | Broken | |
| Tool Kit | 132 | Needs replacement | |
| First Aid kit | 132 | Needs replacement | |
| 5 Plastic Dishes | 100 | Only two now usable | |
| 5 Jerry cans | 250 | Three left | |
| Laptop | 950 | Usable | |
| Printer | 115 | Usable | |
| Projector | 3100 | Usable | |
| Hammer Mill | 2368 | Good | |
| Hammer Mill Motor | 325 | Good | |
| Hammer Mill accessories | 359.6 | Good | |
| Hammer mill electrician | 90 | Good | |
| Generator accessories | 750.5 | Good | |
| Generator Pad | 250 | Good | |
| Pan Dishes, Dishes | 50 | Worn out | |
| Total | 37634.18 | | |

ANNEX B: EQUIPMENT PURCHASED and UNIDO VERIFICATION

| ITEM | COST (US\$) | CONDITION | UNIDO REPRESENTATIVE VERIFICATION |
|-------------------------|-----------------|---|---|
| Generator | 7500.00 | Good | Checked and verified 22/12/2008 UNIDO Dr D.S.M. SHARMA |
| Wheel barrows | 636.00 | Good | |
| Shovels | 200.00 | Good | |
| PPE | 88.00 | Good | |
| Camping equipment | 1106.00 | Good | |
| Tents and chairs | 2740.00 | 5 chairs broken, one tent torn out but usable | |
| Digital scale | 112.00 | With ZPA | |
| Digital scale (200kg) | 890.00 | Good | |
| Sluice Box | 1386.78 | Good | |
| Ball Mill | 14000.00 | Good | |
| Tape (5m) | 3.30 | Broken | |
| Tool Kit | 132.00 | Need replacements | |
| First Aid kit | 132.00 | Needs replacement | |
| 5 Plastic Dishes | 100.00 | Only two now usable | |
| 5 Jerry Cans | 250.00 | Three left | |
| Laptop | 950.00 | Good | |
| Printer | 115.00 | Good | |
| Projector | 3100.00 | Good | |
| Hammer Mill | 2368.00 | Good | |
| Hammer Mill Motor | 325.00 | Good | |
| Hammer mill accessories | 359.60 | Good | |
| Hammer mill electrician | 90.00 | - | |
| Generator accessories | 750.50 | Good | |
| Generator pad | 250.00 | good | |
| Pan dishes, dishes | 50.00 | Worn out | |
| Total | 37634.18 | | |