

TSUNAMI RECOVERY WASTE MANAGEMENT PROGRAMME

MONTHLY UPDATE – July 2006

1. JULY HIGHLIGHTS

The Tsunami Recovery Waste Management Programme (TRWMP) has begun operations in Aceh Besar District. This project is being implemented through Kantor Kebersihan, Pertamanan dan Pemadam Kebakaran (KKP) Aceh Besar. Work during July included starting the rehabilitation of the dumpsite at Buket Meusara Village - Jantho (*pictured below*) and assessment of areas for clearance of tsunami waste from *sawah* (paddy fields) along the Aceh Besar west coast.

The project in Aceh Jaya continued to make good progress with completion of the main cell at the Gunung Tanggoh interim dumpsite, clearance of approximately 70,000m³ of tsunami waste from *sawah* in Kreung Sabee and further environmental and technical assessments of potential areas around Lamno for a temporary dumpsite.

In Nias project assessments have now been completed for the Teluk Dalam (Nias Selatan) and Lahewa (Nias) areas; activities will be focussed on municipal solid waste collection, demolition of earthquake damaged buildings and construction of 2 interim dumpsites. The Nias Selatan LOA was signed at the end of July.

July in figures:

| | |
|--------------------------------|-----------------------|
| Tsunami waste cleared | 106,367m ³ |
| Wood segregated for reuse | 461m ³ |
| Roads made with crushed rubble | 3.4km |
| Municipal waste collected | 6,142m ³ |
| Temporary workers with TRWMP | 1,421 |



Initial development at Buket Meusara Dumpsite, Jantho, Aceh Besar.

2. LOCATION OF TRWMP ACTIVITIES

| District | Implementing Partner | Letter of Agreement |
|-------------------------|---|---------------------|
| Kota Banda Aceh | Dinas Kebersihan dan Pertamanan (DKP) | March 2005 |
| Aceh Barat / Nagan Raya | Dinas Kebersihan, Penertiban dan Lingkungan Hidup (DKPLH) | May 2005 |
| Pidie | Dinas Pendapatan, Kebersihan dan Pertamanan (Dispenda) | January 2006 |
| Aceh Jaya | Dinas Pendapatan, Kebersihan dan Pertamanan (Dispenda) | March 2006 |
| Aceh Besar | Kantor Kebersihan Pertamanan dan Pemadam Kebakaran (KKP) | June 2006 |
| Nias Selatan | Dinas Permukiman dan Prasarana Wilayah (KIMPRASWIL) | July 2006 |
| Nias | Dinas Permukiman dan Prasarana Wilayah (KIMPRASWIL) | Due August 2006 |

3. KEY OUPUTS AND ACHIEVEMENTS TO END July 2006

3.1 KOTA BANDA ACEH

3.1.1 Key Achievements in July 2006

- Collection of 2,730m³ of municipal solid waste and drainage clean up of 0.3km/day from around Banda Aceh supported by temporary workers.
- 25,800m³ of tsunami waste has been removed from *sawah* in Blang Krueng. 60% of tsunami waste (soil and sand) collected has been used for land leveling for some community purposes (such as for mosque, community center etc) while the rest has been transported to Gampung Jawa dumpsite for use by DKP in cell preparation and rehabilitation.
- Demolition of tsunami and/or earthquake-damaged buildings such as a school (SMA Fajar Harapan) and mosque (Lamprit Mosque, *pictured right*).
- Completion of 276 units of furniture (such as school tables, chairs etc) at Gampung Jawa recycled wood project.
- Support provided to other agencies and NGOs in land clearing and rehabilitation of community facilities (through loan of heavy equipment), as follows:



| No. | Organization's Name | Working Area | Activity |
|-----|---------------------|--|-----------------------------------|
| 1 | Canadian Red Cross | Kajhu (Mutiara Cemerlang and Mon Bateng village) | Land clearing for shelter project |
| 2 | GTZ | Kling Cot Arun | Land filling for shelter project |
| 3 | Life guard group | Lhok Nga Beach | Lhok Nga – beach clearing |
| 4 | UN Habitat | Pulot, Leupung | Land clearing for shelter project |

3.1.2 Selected Project Visits to TRWMP Projects in July 2006

- 6th July: Supervision visit from Irish Aid.

3.1.3 Status against Key Performance Indicators

| Key Performance Indicator | July 2006 | Total TRWMP in Kota Banda Aceh* |
|--|-----------|---------------------------------|
| Tsunami waste cleared (m ³) | 25,800 | 334,084 |
| Municipal waste collected / disposed (m ³) | 2,730 | 52,548 |
| Sawah / tambak /land rehabilitated (ha) | 8.6 | 58.6 |
| Tsunami / earthquake buildings demolished (no.) | 2 | 131 |
| Drains cleared (average km per day) | 0.3 | 0.5 |
| Roads swept (average km per day) | - | - |
| Temporary workers (average no. per day) | 895 | 996 |
| Male workers (%) | 53% | 50% |
| Female workers (%) | 47% | 50% |
| Internally Displaced Persons (IDPs) amongst workers (%) | 70% | 70% |
| Ex-Free Aceh Movement (GAM) amongst workers (%) | - | 1% |
| Beneficiaries employed in waste livelihood projects (average no. per day) | 37 | 28 |
| Heavy equipment leased (average no. per day) | 75 | 83 |
| Dumpsites upgraded / rehabilitated (no.) | - | 1 |
| Waste cells (ha) | - | 7 |
| Daily cover for waste area (ha) | - | 11 |
| Recovered materials beneficially recycled | | |
| Roads rehabilitated / reclaimed with rubble (km) | - | 19.2 |
| Timber stockpiled for future re-use (m ³) | 44 | 12,594 |
| Recovered wood processed into condition suitable for recycling (m ³) | 36 | 490 |
| Timber provided to NGOs for reconstruction efforts (m ³) | - | 43 |
| Furniture units (e.g. table, cupboard, etc) completed (no.) | 276 | 1,014 |

* Includes data from before Multi Donor Fund involvement (pre-September 2005)

3.1.4 Key Activities to Date

- Capacity building with Dinas Kebersihan dan Pertamanan (DKP).
- Clearance / recovery of tsunami generated wastes from private / government land.
- Resumption of municipal solid waste (MSW) collection.
- Temporary employment of Internally Displaced Persons (IDPs).
- Building demolition project.
- Rehabilitation / reclamation of roads using tsunami rubble.
- Provision of recovered wood for NGO reconstruction projects.
- Carpentry workshop for re-use of tsunami timber and furniture manufacture demonstration project.

- Upgrade of Kota Banda Aceh municipal dump at Gampung Jawa to interim engineered landfill.
- Site search (with GTZ) for permanent sanitary landfill for Kota Banda Aceh and Aceh Besar.
- Re-focusing the work of TRWMP temporary workers to a core of 300 workers based in Gampung Jawa dumpsite working on MSW collection, demolition, and livelihood projects.

3.1.5 Key Activities proposed for August 2006

In addition to the continuation of on-going activities from July, the following activities are planned for August 2006:

- Continuing TRWMP work through the LoA amendment of Kota Banda Aceh with the Mayor until the end of December 2006.
- Continuing land clearance in Kajhu (Mon Bateng village) in supporting support Canadian Red Cross shelter projects.
- Continuing land leveling for shelter project in Kling Cot Arun in supporting GTZ.
- Finalise recruitment for position of Programme Associate for Kota Banda Aceh.

3.2 ACEH BARAT / NAGAN RAYA

3.2.1 Key Achievements in July 2006

- The 3rd LoA Amendment has been signed by UNDP and Bupati of Aceh Barat. Through this amendment Dinas Kebersihan, Penertiban dan Lingkungan Hidup has recruited a further 525 temporary workers under TRWMP programme.
- Carpentry expert from Banda Aceh visited Aceh Barat to train local carpenters on furniture manufacturing techniques for 4 days.
- Preliminary construction of a carpentry workshop (about 300m²) has been started as the planned design under consultation with DKPLH.
- Langung temporary dumpsite was fully cleared of tsunami waste in July and approximately 7,274m³ of tsunami waste has been recovered of which 1,248m³ was recovered during the month of July 2006. All wastes were transported to Lapang final dumpsite.
- During this period, DKPLH has successfully demolished 10 earthquake/tsunami damaged buildings, consists of 4 government properties, 1 mini market, 4 community houses and 1 religious hall. As the result, DKPLH has recovered 1,849 cubic meters of concrete debris and bricks, 2,740kg of scrap metals and 21 cubic meters of wood.
- DKPLH has been expanded a solid waste collection of IDP camps to Arongan Lambalek sub-district, with the total up to 33 IDP camps.

- Capacity building support for DKPLH through comparative study to Banda Aceh and upgrading the Lapang final dumpsite.
- Support provided to other UN Agencies and NGOs in land clearing and rehabilitation of community facilities (loan of one backhoe, one bulldozer and 2 PS-190 DT), as follows:

List of heavy equipment used by NGOs in Aceh Barat and Nagan Raya Districts

| No. | Organization's Name | Working Area | Activity |
|-----|--|---|---|
| 1 | Community and Head of Suak Indrapuri village | Suak Indrapuri village, Johan Pahlawan. | Rehabilitation of 600 m of alternative roads that connecting Suak Indrapuri and the district port. |
| 2 | CARITAS | Suak Timah village, Samatiga. | Rehabilitation of 2km of road within the CARITAS housing project area in Pasir village and construction of 2 km of drainage system within the area. |
| 3 | Islamic Relief | Blang Beurandang village, Kaway XVI | Land clearance for about 5ha of land for temporary shelters. This area is planned to be for construction of permanent housing. |
| 4 | Head of Panggong and Pasar Baru villages. | Panggong village, Johan Pahlawan. | Land clearance for about 1 ha in a community affected by the tsunami, rehabilitation of 500m of drainage, construction, 200m of a temporary river embankment and 800m ² of land leveling in the area around the embankment by using recovered concrete debris collected from the demolition project. |
| 5 | SMP N 5 Suak Ribee | Suak Ribee village, Johan Pahlawan | Rehabilitation of 400m ² land for school construction. |
| 6 | Children Center | Suak Ribee village, Johan Pahlawan | Clearance of 600m ² to construct Children Center facilities. |
| 7 | Terres de Homes and SDN 2 Suak Indrapuri | Suak Indrapuri village, Johan Pahlawan | Clearance of 200m ² of land for a government planned school. |
| 8 | Spanish Red Cross | Pucok Leung village, Kecamatan Samatiga | Rehabilitation of 2.2km irrigation tunnel in Pucok Lueng village to support SRC livelihood programme. |

3.2.2 Status against Key Performance Indicators

Key performance indicators for TRWMP in Aceh Barat

| Key Performance Indicator | July 2006 | Total TRWMP in Aceh Barat & Nagan Raya* |
|---|-----------|---|
| Tsunami waste cleared (m ³) | 7,015 | 108,143 |
| Municipal waste collected / disposed (m ³) | 2,097 | 18,750 |
| Sawah / tambak /land rehabilitated (ha) | 6.2 | 28.7 |
| Tsunami / earthquake buildings demolished (no.) | 10 | 82 |
| Drains cleared (average km per day) | 1.8 | 1.7 |
| Roads swept (average km per day) | 16.2 | 15.5 |
| Temporary workers (average no. per day) | 364 | 496 |
| Male workers (%) | 62% | 53% |
| Female workers (%) | 38% | 47% |
| Internally Displaced Persons (IDPs) amongst workers (%) | 82% | 91% |
| Ex-Free Aceh Movement (GAM) amongst workers (% per month) | 4% | 5% |
| Beneficiaries employed in waste livelihood projects (average no. per day) | 40 | 40 |
| Heavy equipment leased (average no. per day) | 47 | 51 |
| Dumpsites upgraded / rehabilitated (no.) | 1 | 2 |
| Waste cells (ha) | 0 | 0.5 |

| Key Performance Indicator | July 2006 | Total TRWMP in Aceh Barat & Nagan Raya* |
|--|-----------|---|
| Daily cover for waste area (ha) | 2 | 18 |
| Recovered materials beneficially recycled | | |
| Roads rehabilitated / reclaimed with rubble (km) | 2.6 | 15 |
| Timber stockpiled for future re-use (m ³) | 417 | 3,569 |
| Recovered wood processed into condition suitable for recycling (m ³) | - | - |
| Timber provided to NGOs for reconstruction efforts (m ³) | - | 65 |
| Furniture units (e.g. table, cupboard, etc) completed (no.) | - | - |

Includes data from before-Multi Donor Fund involvement (pre-September 2005)

3.2.3 Key Activities to Date

- Extension of TRWMP LoA with DKPLH until December 2006.
- Comparative study of waste management sites in Banda Aceh conducted by Dinas Kebersihan, Penertiban dan Lingkungan Hidup (DKPLH).
- Preliminary construction for wood carpentry workshop for reuse of timber recovered from tsunami waste.
- Clearance/recovery of tsunami generated wastes from private/government land.
- Resumption of municipal solid waste (MSW) collection.
- Temporary employment of Internal Displace Persons (IDPs).
- Demolition of earthquake/tsunami damaged buildings.
- Initial work of upgrading the Lapang municipal dumpsite.
- Rehabilitation of drainage in town through employment of temporary workers.
- Clean up of streets in town through employment of temporary workers.

3.2.4 Key Activities proposed for August 2006

The following activities are planned for August 2006:

- Development of waste management project such as recycling and composting, in Aceh Barat and Nagan Raya (for the Sustainable Livelihoods Programme).
- Continued construction of the wood carpentry workshop and procurement of required machinery.
- Upgrading the Lapang FDS by rehabilitating the existing septic tank and placing clay lining in the new waste cell.
- Finalizing the Demolition of tsunami/earthquake damaged building project in Aceh Barat District.

- Conducting a technical assessment on the further rehabilitation of Lapang dumpsite and options for a long-term sanitary landfill for Aceh Barat.

3.3 PIDIE

3.3.1 Key Activities in July 2006

- Tsunami waste clearance/sorting of 3,552m³ from Benteng beach site and transported to Km23 dumpsite (*sorting of tsunami waste at Benteng pictured below*).
- Capacity building to Dinas Pendapatan, Kebersihan dan Pertamanan (DISPENDA) by supporting them to develop Standard Operating Procedures and Preparing Work Plan using computers tools (such as Microsoft Project etc), especially for key waste management staff.
- Continue upgrading Km23 dumpsite by filling up a second cell with Tsunami waste collected (estimated volume 15,000m³), strengthening main berm and lining leachate ponds.
- The second cell at Mutiara dumpsite (estimated capacity 1,500m³) has been fully capped and continued by providing third cell used for regular municipal solid waste collection (capacity 8,200m³) to cover surrounding area.
- MSW collection (provision of dump trucks and temporary workers), drainage cleaning and street sweeping in Kota Sigli and Kabupaten Pidie.
- Support local communities in the rehabilitation of community roads, through lending of heavy equipment, as follows:

| No. | Organization's Name | Working Area | Activity |
|-----|----------------------------------|----------------------------------|--|
| 1 | Community in Desa Jok and Tunong | Padang Tiji, Desa Jok and Tunong | Provision of heavy equipment (excavator) to rehabilitate community drainage system |



Sorting of tsunami waste at Benteng beach, Kota Sigli

3.3.2 Status against Key Performance Indicators

| Key Performance Indicator | June 2006 | Total TRWMP in Pidie |
|--|-----------|----------------------|
| Tsunami waste cleared (m ³) | 3,552 | 11,434 |
| Municipal waste collected / disposed (m ³) | 1,315 | 3,541 |
| Sawah / tambak /land rehabilitated (ha) | - | - |
| Tsunami / earthquake buildings demolished (no.) | - | - |
| Drains cleared (average km per day) | 1.0 | 0.7 |
| Roads swept (average km per day) | 3.1 | 2.7 |
| Temporary workers (average no. per day) | 157 | 130 |
| Male workers (%) | 75% | 70% |
| Female workers (%) | 25% | 30% |
| Internally Displaced Persons (IDPs) amongst workers (%) | 59% | 69% |
| Ex-Free Aceh Movement (GAM) amongst workers (%) | - | - |
| Beneficiaries employed in waste livelihood projects (average no. per day) | - | - |
| Heavy equipment leased (average no. per day) | 26 | 24 |
| Dumpsites upgraded / rehabilitated (no.) | - | 2 |
| Waste cells (ha) | - | 1.4 |
| Daily cover for waste area (ha) | - | - |
| Recovered materials beneficially recycled | | |
| Roads rehabilitated / reclaimed with rubble (km) | - | 0.4 |
| Timber stockpiled for future re-use (m ³) | - | 9 |
| Recovered wood processed into condition suitable for recycling (m ³) | - | - |
| Timber provided to NGOs for reconstruction efforts (m ³) | - | - |
| Furniture units (e.g. table, cupboard, etc) completed (no.) | - | - |

3.3.3 Key Activities to Date

- Capacity building with Dinas Pendapatan, Kebersihan dan Pertamanan (DISPENDA).
- Upgrading of dumpsite at Km23 and rehabilitation works at Mutiara dumpsite.
- Resumption of MSW collection (provision of dumptrucks and temporary workers), drainage cleaning, and street sweeping in Kota Sigli.
- Waste segregation by temporary workers at the existing dumpsite in Benteng (Sigli beach).

3.3.4 Key Activities Proposed for August 2006

In addition to the continuation of the key activities from during July, the following new activities are planned for August 2006:

- Finalization of retaining berm wall from second cell at Km23 dumpsite.
- Finalization rehabilitation of Mutiara dumpsite.
- Finalization segregation between tsunami waste and soil at Benteng beach site before transported to Km23 dumpsite.

- Tendering process for construction of drainage cover in Kota Sigli.

3.4 ACEH JAYA

3.4.1 Key Achievements in July 2006

- Continued tsunami waste recovery activities in paddy fields, located in 5 villages within Krueng Sabee sub district (Padang Datar, Mon Mata, Keude Krueng Sabee, Kabong and Datar Luas). Approximately 70,000m³ of tsunami waste was recovered from 60ha of paddy fields cleared. Around 1,100 local farmers will be able to resume their agriculture business in the near future.
- Continued construction of a temporary dumpsite located in Gunung Tanggoh, Desa Keutapang (pictured right). The dumpsite will be used for municipal waste collection from Calang and its surrounding areas and expected to be completed in late August or early September 2006.
- Construction of a 1.3km access road was initiated in mid July 2006, as was the rehabilitation of a 700m existing road for temporary dumpsite (area I) in Desa Keutapang. The dumpsite has been designed to accommodate tsunami waste collected from paddy fields as well as from demolition activities.
- DISPENDA has recruited 15 staff under TRWMP who was currently assigned to manage all related project activities.
- Support provided to other agencies and NGOs (through loan of heavy equipment),as follows :



| No. | Organization's Name | Working Area | Activity |
|-----|---------------------|-------------------------|--|
| 1 | Oxfam GB | Sampoiniet sub district | Provision of lowboy trailer to transport a compactor to Sampoiniet sub district. |

3.4.2 Status against Key Performance Indicators

| Key Performance Indicator | July 2006 | Total TRWMP in Aceh Jaya |
|--|-----------|--------------------------|
| Tsunami waste cleared (m ³) (<i>estimate</i>) | 70,000 | 105,000 |
| Municipal waste collected / disposed (m ³) | - | - |
| Sawah / tambak /land rehabilitated (ha) | 60 | 90 |
| Tsunami / earthquake buildings demolished (no.) | - | - |
| Drains cleared (average km per day) | 0.8 | 0.84 |
| Roads swept (average km per day) | - | - |
| Temporary workers (average no. per day) | - | - |
| Male workers (%) | - | - |
| Female workers (%) | - | - |
| Internally Displaced Persons (IDPs) amongst workers (%) | - | - |
| Ex-Free Aceh Movement (GAM) amongst workers (% per month) | - | - |
| Beneficiaries employed in waste livelihood projects (average no. per day) | - | - |
| Heavy equipment leased (average no. per day) | 31 | 31 |
| Dumpsites upgraded / rehabilitated (no.) | 1 | 1 |
| Waste cells (ha) | 3 | 3 |
| Daily cover for waste area (ha) | - | - |
| Recovered materials beneficially recycled | | |
| Roads rehabilitated / reclaimed with rubble, new road (km) | 0.8 | 1.2 |
| Timber stockpiled for future re-use (m ³) | - | - |
| Timber provided to NGOs for reconstruction efforts (m ³) | - | - |
| Recovered wood processed into condition suitable for recycling (m ³) | - | - |
| Furniture units (e.g. table, cupboard, etc) completed (no.) | - | - |

3.4.3 Key Activities to Date

- Capacity building with Dinas Pendapatan Daerah (DISPENDA).
- Sawah clearance (tsunami waste removal from fields and drainage) in Krueng Sabee District.
- Tsunami waste removal from community areas and drainage within Krueng Sabee sub-district.
- Continue the construction of Gunung Tanggoh dumpsite in Keutapang village.
- Assessment of potential dumpsite in Lamno subdistrict and coordination with local government authorities in the area.
- Access road construction to second temporary dumpsite in Gunung Rambot, Keutapang village.

3.4.4 Key Activities Proposed for August 2006

The following activities are planned for August 2006:

- Continuation of paddy field clearance in Krueng Sabee sub-district. Previous work plan has been revised based to the community need.
 - Commence MSW collection in Calang and Lamno.
 - Sawah clearance (tsunami waste removal from fields) in Lamno sub district.
 - Continuation of access road construction to second temporary dumpsite in Gunung Rambot, Keutapang village.
 - Recruiting temporary workers from IDPs or local communities in supporting the program.
 - Commence of building demolition project in Kota Calang and its surrounding areas.
 - Finalization of TRWMP work plan for Lamno sub-district.
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3.5 NIAS SELATAN

3.5.1 Key Achievements in July 2006

- Following an environmental and technical review of 4 options land for an interim waste disposal site has been selected and agreed by surrounding communities and KIMPRASWIL located 1km south east of Teluk Dalam. The letter of landfill tenure transfer from the community to Kimpraswil has been copied to UNDP.
- Signing of Nias Selatan LoA and development of the initial project implementation plan including starting the recruitment process for project staff and preparing the logical framework.
- Continued coordination and development of agreements between UNDP and local government partners in waste management in Teluk Dalam.

3.5.2 Key Activities to Date

- Environmental and technical assessment of dumpsite options around Teluk Dalam.
- Review of MSW and associated issues (drainage, street sweeping) in Teluk Dalam.
- Liaison with government departments and NGOs (ILO, SAB-SAS, ICMC) working in Nias Selatan.

3.5.3 Key Activities Proposed for August 2006

- Mobilization of heavy equipment to Nias Selatan (Teluk Dalam).
 - Initiate construction of access road to Hilitobara dumpsite and commencement of MSW collection in Teluk Dalam.
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3.6 NIAS

3.6.1 Key Achievements in July 2006

- Finalized Nias LoA documents following development of the programme with Kimpraswil Nias and Kecamatan Lahewa.
- Continued coordination and development of agreements between UNDP and local government partners in waste management in Gunung Sitoli and Lahewa.
- Kecamatan Lahewa has obtained land ownership documents for Moawo dumpsite area East of Lahewa.

3.6.2 Key Activities to Date

- Environmental and technical assessment of dumpsite options around Lahewa.
- Review of MSW and associated issues (drainage, street sweeping) in Lahewa.
- Liaison with government departments and NGOs (ACTED, FRC, Oxfam, Help Germany) working in Nias.

3.6.3 Key Activities Proposed for August 2006

- Signing of LOA between UNDP and Bupati Nias, followed by initial project implementation, i.e. recruitment process, preparing the logical framework, etc.
 - Mobilization of heavy equipment to Nias (Lahewa).
-

3.7 ACEH BESAR

3.7.1 Key Achievements in July 2006

- KKP increase their capacity by recruiting staff under TRWMP and prepare a staff structure to implement the project.
- KKP, land owner and Bupati agree ownership issues for potential dumpsite in Buket Meusara to allow the site to be used for temporary dumpsite for Jantho city for the next three years.
- Preliminary construction on Jantho dumpsite located in Buket Meusara Village started.
- Site assessment on tsunami impacted area in a few sub district (e.g. Leueun, Lhoknga) and finalized work plan under TRWMP with KKP Aceh Besar (staffing structure etc.).

3.7.2 Status against Key Performance Indicators

| Key Performance Indicator | July 2006 | Total TRWMP in Aceh Besar |
|--|-----------|---------------------------|
| Tsunami waste cleared (m ³) | - | - |
| Municipal waste collected / disposed (m ³) | - | - |
| Sawah / tambak /land rehabilitated (ha) | - | - |
| Tsunami / earthquake buildings demolished (no.) | - | - |
| Drains cleared (average km per day) | - | - |
| Roads swept (average km per day) | - | - |
| Temporary workers (average no. per day) | 5 | 5 |
| Male workers (%) | 100 | 100 |
| Female workers (%) | 0 | 0 |
| Internally Displaced Persons (IDPs) amongst workers (%) | - | - |
| Ex-Free Aceh Movement (GAM) amongst workers (% per month) | - | - |
| Beneficiaries employed in waste livelihood projects (average no. per day) | - | - |
| Heavy equipment leased (average no. per day) | 2 | 2 |
| Dumpsites upgraded / rehabilitated (no.) | 1 | 1 |
| Waste cells (ha) | 0.2 | 0.2 |
| Daily cover for waste area (ha) | - | - |
| Recovered materials beneficially recycled | | |
| Roads rehabilitated / reclaimed with rubble, new road (km) | - | - |
| Timber stockpiled for future re-use (m ³) | - | - |
| Timber provided to NGOs for reconstruction efforts (m ³) | - | - |
| Recovered wood processed into condition suitable for recycling (m ³) | - | - |
| Furniture units (e.g. table, cupboard, etc) completed (no.) | - | - |

3.7.3 Key Activities to Date

- Capacity building with Kantor Kebersihan, Pertamanan dan Pemadam Kebakaran (KKP).
- Environmental and technical assessment of dumpsite options around Jantho
- Assessment of tsunami waste around Lhok Nga and Leupung.
- Preliminary assessment on potential site for constructing a transfer station (TPS) in/around Jantho, Saree and Selimum.

3.7.4 Key Activities Proposed for August 2006

- Capacity building for key staff under KKP.
- Continue dumpsite construction in Buket Meusara.
- Tsunami waste clearance for paddies field in Layeun village and clearance in Lhoknga sub district.
- Commence of Municipal waste collection in Aceh Besar.

- Conduct an initial site plan and community meeting for selecting a transfer station site around Jantho, Lambaro, Seulimum and Saree market.
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4. TRWMP – LIVELIHOODS ACTIVITIES

Proposals for Organizations / Firms to Manage Tsunami Waste Management Related Livelihoods Activities were assessed in June and contractual matters with preferred bidders are now being finalised by UNDP. The 'Livelihoods Component' will support livelihood restoration and creation projects related to the waste management process in order to maximize the reuse of recovered materials, minimize the volume of waste requiring ultimate disposal, and create opportunities for viable recycling business startups. For these projects, UNDP will work with interested NGOs, the private sector, donors and government.

5. TRWMP BACKGROUND

The Tsunami Recovery Waste Management Programme (TRWMP) aims to build capacity in government, create immediate employment and longer-term livelihoods in waste management whilst benefiting the environment through collection, recovery and recycling of waste materials for use in rehabilitation and reconstruction.

The TRWMP commenced in March 2005 and is being executed by the United Nations Development Programme (UNDP) through the Aceh Emergency Response & Transitional Recovery (ERTR) Programme in partnership with the Badan Rehabilitasi dan Rekonstruksi (BRR), and implemented through partnerships with local Government in the target districts. Since 26th September 2005 the programme is being funded through a US\$15.2 million grant from the Multi-Donor Fund for Aceh and Nias.

This programme has been designed to provide municipal / district government with financial and technical support to achieve the following results:

- (1) Resumption of MSW collection & disposal and clearance / recycling of tsunami derived wastes via the implementation of Tsunami Waste Recovery Facilities (TWRFs);
 - (2) The rehabilitation of existing dumpsites, provision of temporary/ emergency dumpsites and in the longer term, sanitary landfills for enhanced, safer waste disposal;
 - (3) Interim livelihood restoration and longer term waste management livelihood creation via implementation of waste recycling/ recovery projects; and
 - (4) Effective and efficient management, monitoring and oversight of the overall programme on behalf of the Multi Donor Fund partners.
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6. UNDP WASTE TEAM CONTACTS

If you would like to find out more about the work of the TRWMP, please do not hesitate to contact one of the UNDP Waste Team.

| | | | |
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